

# Supplementary Material

## Genetic association of toxin production in the dinoflagellate *Alexandrium minutum*

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Supplementary table 1: Strain utilization and official code names of parental strains.

STRAINS			PST		GENETICS			Official code name
CROSS	STATE	NAME	TOXICITY ASSESSED	REPLICATES	Genetic map	Fisher	EQTL	
T1xT2		α	yes	2	yes	no	no	
T1xT2		β	yes	2	yes	no	no	
T1xT2		γ	yes	2	yes	no	no	
T1xT2		δ	yes	2	yes	no	no	
T1xT2		ε	yes	2	yes	no	no	
T1xT2	dead	Φ	no		yes	no	no	
T1xT2	dead	φ	no		yes	no	no	
T1xT2	non monoclonal	NC1	no		no	no	no	
T1xNT1		a	yes	3	yes	no	no	
T1xNT1		b	yes	2	yes	no	no	
T1xNT1		c	yes	2	yes	no	no	
T1xNT1		e	yes	3	yes	no	no	
T1xNT1	dead	w	no		yes	no	no	
T2xNT2	dead	A	no		yes	no	yes	
T2xNT2		B	yes	7	yes	yes	yes	
T2xNT2		C	yes	7	yes	yes	yes	
T2xNT2		D	yes	2	yes	yes	yes	
T2xNT2	dead	E	no		yes	no	yes	
T2xNT2		F	yes	7	yes	yes	yes	
T2xNT2	dead	G	no		yes	no	yes	
T2xNT2		H	yes	2	yes	yes	yes	
T2xNT2	dead	I	no		yes	no	yes	
T2xNT2		J	yes	2	yes	yes	yes	
T2xNT2		K	yes	7	yes	yes	yes	
T2xNT2		L	yes	7	yes	yes	yes	
T2xNT2		M	yes	7	yes	yes	yes	
T2xNT2		N	yes	7	yes	yes	yes	
T2xNT2		O	yes	2	yes	yes	yes	

T2xNT2		P	yes	7	yes	yes	yes	
T2xNT2		Q	yes	7	yes	yes	yes	
T2xNT2		R	yes	2	yes	yes	yes	
T2xNT2	dead	S	no		yes	no	yes	
T2xNT2		T	yes	7	yes	yes	yes	
T2xNT2		U	yes	7	yes	yes	yes	
T2xNT2		V	yes	2	yes	yes	yes	
T2xNT2		W	yes	7	yes	yes	yes	
T2xNT2	non monoclonal	NC2	no		no	no	no	
T2xNT2	non monoclonal	NC3	no		no	no	no	
T2xNT2	non monoclonal	NC4	no		no	no	no	
T2xNT2	non monoclonal	NC5	no		no	no	no	
T2xNT2	non monoclonal	NC6	no		no	no	no	
T2xNT2	non monoclonal	NC7	no		no	no	no	
parents		T1	yes	2	no	no	no	RCC4871
parents		T2	yes	6	no	no	no	CH940x
parents		NT1	yes	2	no	no	no	RCC2644
parents		NT2	yes	7	no	no	no	RCC2645
NT1xNT2		I	yes	n=1	yes	no	no	
NT1xNT2		II	yes	n=1	yes	no	no	
NT1xNT2		III	yes	n=1	yes	no	no	
NT1xNT2		IV	yes	n=1	yes	no	no	
NT1xNT2		V	yes	n=1	yes	no	no	
NT1xNT2		VI	yes	n=1	yes	no	no	
NT1xNT2		VII	yes	n=1	yes	no	no	
NT1xNT2	dead	VIII	no		yes	no	no	
NT1xNT2		IX	yes	n=1	yes	no	no	
NT1xNT2		X	yes	n=1	yes	no	no	
NT1xNT2		XI	yes	n=1	yes	no	no	
NT1xNT2		XII	yes	n=1	yes	no	no	
NT1xNT2		XIII	yes	n=1	yes	no	no	
NT1xNT2		XIV	yes	n=1	yes	no	no	

NT1xNT2		XV	yes	n=1	yes	no	no	
NT1xNT2		XVI	yes	n=1	yes	no	no	
NT1xNT2		XVII	yes	n=1	yes	no	no	
NT1xNT2		XVIII	yes	n=1	yes	no	no	
NT1xNT2		XIX	yes	n=1	yes	no	no	
NT1xNT2		XX	yes	n=1	yes	no	no	
NT1xNT2		XXI	yes	n=1	yes	no	no	
NT1xNT2		XXII	yes	n=1	yes	no	no	
NT1xNT2		XXIII	yes	n=1	yes	no	no	
NT1xNT2		XXIV	yes	n=1	yes	no	no	
NT1xNT2	dead	XXV	no		yes	no	no	
NT1xNT2		XXVI	yes	n=1	yes	no	no	
NT1xNT2		XXVII	yes	n=1	yes	no	no	
NT1xNT2	non monoclonal	NC8	no		no	no	no	
NT1xNT2	non monoclonal	NC9	no		no	no	no	
NT1xNT2	non monoclonal	NC10	no		no	no	no	
NT1xNT2	non monoclonal	NC11	no		no	no	no	
NT1xNT2	non monoclonal	NC12	no		no	no	no	
NT1xNT2	non monoclonal	NC13	no		no	no	no	
NT1xNT2	non monoclonal	NC14	no		no	no	no	
NT1xNT2	non monoclonal	NC15	no		no	no	no	
NT1xNT2	non monoclonal	NC16	no		no	no	no	
NT1xNT2	non monoclonal	NC17	no		no	no	no	

Supplementary table 2: PST analyses (3 batches : PST1, PST2 and PST3).

Analysis	Cross	Strain	Replicate	C1	C2	C3	C4	GTX1	GTX4	GTX2	GTX3	dc-GTX2	dc-GTX3	GTX5	GTX6	Neo STX	dc-STX	STX	dc-Neo	Total (pg/cell)
PST1	Parent	T1		12.5	12.32					02.05	12.03	0.32	0.14	0.08				0.11		39.55
PST2	Parent	T1		1.7	2.66					0.79	5.46	0.04	0.04	<LQ				<LQ		10.69
PST1	Parent	T2								0.36	0.78							0.26		1.4
PST3	Parent	T2	biological replicate							0.09	0.49							<LQ		0.58

PST3	Parent	T2	biological replicate							<LQ	0.81							0.04		0.86
PST3	Parent	T2	biological replicate							<LQ	0.64							<LQ		0.64
PST3	Parent	T2	biological replicate							<LQ	0.49							<LQ		0.49
PST3	Parent	T2	biological replicate							<LQ	0.08							0.01		0.09
PST1	Parent	NT1																		0
PST2	Parent	NT1																		0
PST1	Parent	NT2																		0
PST2	Parent	NT2																		0
PST3	Parent	NT2	biological replicate																	0
PST3	Parent	NT2	biological replicate																	0
PST3	Parent	NT2	biological replicate																	0
PST3	Parent	NT2	biological replicate																	0
PST3	Parent	NT2	biological replicate																	0
PST1	T1xNT1	a																		0
PST1	T1xNT1	a	technical replicate																	0
PST2	T1xNT1	a																		0
PST1	T1xNT1	b																		0
PST1	T1xNT1	b	technical replicate																	0
PST1	T1xNT1	c																		0
PST1	T1xNT1	c	technical replicate																	0
PST1	T1xNT1	e											0.03							0.03
PST1	T1xNT1	e	technical replicate								0.08	0.04								0.12
PST2	T1xNT1	e									0.01	0.01								0.03
PST1	T1xT2	$\alpha$								0.47	0.61							0.21		1.28
PST1	T1xT2	$\alpha$	technical replicate							0.53	1.72							0.26		2.51
PST1	T1xT2	$\beta$								2.38	6.6	0.14	0.07					0.09		9.28
PST1	T1xT2	$\beta$	technical replicate							0.53	0.78									1.31
PST1	T1xT2	$\gamma$								0.26	0.48							0.18		0.92
PST1	T1xT2	$\gamma$	technical replicate							0.3	01.01							0.24		1.55

PST1	T1xT2	δ							0.82	1.88						0.44		3.14
PST1	T1xT2	δ	technical replicate						1.82	7.15						1.1		10.07
PST1	T1xT2	ε							0.88	1.19								02.07
PST1	T1xT2	ε	technical replicate						0.56	0.64								1.2
PST1	T2xNT2	B																0
PST2	T2xNT2	B																0
PST3	T2xNT2	B	biological replicate															0
PST3	T2xNT2	B	biological replicate															0
PST3	T2xNT2	B	biological replicate															0
PST3	T2xNT2	B	biological replicate															0
PST3	T2xNT2	B	biological replicate															0
PST1	T2xNT2	C							2.61	1.63	1.3	0.66				0.05		6.25
PST2	T2xNT2	C							0.8	0.35	0.33	0.14				<LQ		1.61
PST3	T2xNT2	C	biological replicate						0.21	0.22	0.1	0.08				0.08		0.7
PST3	T2xNT2	C	biological replicate						0.22	0.24	0.1	0.08						0.65
PST3	T2xNT2	C	biological replicate						0.22	0.24	0.11	0.09						0.66
PST3	T2xNT2	C	biological replicate						0.19	0.19	0.1	0.08				<LQ		0.55
PST3	T2xNT2	C	biological replicate						0.22	0.17	0.09	0.06						0.54
PST1	T2xNT2	D							0.57	0.23	0.51	0.2						1.52
PST2	T2xNT2	D							0.26	0.13	0.21	0.1						0.7
PST1	T2xNT2	F							0.37	1.3						0.48		2.16
PST2	T2xNT2	F							0.78	3.43						0.4		4.6
PST3	T2xNT2	F	biological replicate						<LQ	0.24						0.04		0.28
PST3	T2xNT2	F	biological replicate						<LQ	0.28						0.04		0.33
PST3	T2xNT2	F	biological replicate						<LQ	0.2						0.03		0.23
PST3	T2xNT2	F	biological replicate						<LQ	0.28						0.04		0.32
PST3	T2xNT2	F	biological replicate						<LQ	0.18						0.04		0.22
PST1	T2xNT2	H							0.3	0.7						0.5		1.5
PST2	T2xNT2	H							0.1	0.19						0.03		0.31









PST1	NT1xNT2	XVIII																0
PST1	NT1xNT2	XIX																0
PST1	NT1xNT2	XX																0
PST1	NT1xNT2	XXI																0
PST1	NT1xNT2	XXII																0
PST1	NT1xNT2	XXIII																0
PST1	NT1xNT2	XXIV																0
PST1	NT1xNT2	XXVI																0
PST1	NT1xNT2	XXVII																0

Supplementary table 3: L62 annotation.

transcript	pfam domain hits	pfam evalue	uniprot hit	uniprot evalue	GO terms
comp101486_c0_seq1	lon_trans	0.0015	TOK1_YEAST	8.00E-11	GO:0016021;0005886;0005267;0005249;0030007
	lon_trans_2	7.7e-23			
comp102705_c1_seq4	NAD_binding_10	2.5e-10	/	/	/
comp102814_c0_seq1	Dynamain_N	8.5e-05	DRG2_ARATH	9.00E-125	GO:0005737;0019003;0005525;0003924;0006184
	FeoB_N	7.8e-11			
	MMR_HSR1	1.3e-18			
	MMR_HSR1_Xtn	3.3e-34			
	TGS	3.6e-11			
comp104658_c0_seq1	Sulfotransfer_3	1.4e-06	/	/	/
comp105001_c0_seq1	Leu_Phe_trans	8.8e-24	/	/	/
comp109406_c0_seq1	Chloroa_b-bind	2.4e-23	FCPA_MACPY	6.00E-13	GO:0009535;0016021;0030076;0009523;0016168;0009765;0018298
comp111972_c0_seq1	EF-hand_1	0.019	/	/	/
comp115397_c0_seq1	Methyltransf_21	1.6e-05	/	/	/
	Methyltransf_22	0.0074			
	Methyltransf_22	0.0074			
comp116297_c0_seq1	Peptidase_C14	4.5e-17	MCA2_ARATH	2.00E-17	GO:0004197;0006952;0043069

comp117087_c1_seq1	TPR_12	1.8e-21	TTC28_MOUSE	1.00E-09	GO:0005813;0005737;0030496;0072686;1990023;0097431;0007067;0007346
comp118522_c0_seq1	lon_trans	0.0027	KCO5_ARATH	3.00E-09	GO:0016021;0009705;0046872;0005267
	lon_trans_2	1.5e-21			
	Lig_chan	0.00038			
comp121729_c0_seq1	Ank	2.9e-10	ANR50_HUMAN	3.00E-13	GO:0005515
	Ank_2	6.6e-18			
	Ank_3	2.9e-10			
	Ank_4	1.9e-24			
	Ank_5	3.4e-13			
comp123175_c0_seq1	Amino_oxidase	5.6e-36	PPOC_TOBAC	7.00E-121	GO:0009507;0004729;0015995;0006782
comp123308_c0_seq2	Abhydrolase_3	6.9e-12	/	/	/
	COesterase	4.4e-10			
	Hydrolase_4	0.091			
comp124989_c0_seq1	Pyr_redox	8.5e-15	/	/	/
	Pyr_redox_2	3.3e-51			
comp125039_c0_seq1	Glycos_transf_2	0.073	/	/	/
	Glyco_tranf_2_3	0.0079			
comp125738_c0_seq1	CDO_I	3.3e-53	CDO1_HUMAN	3.00E-27	GO:0005829;0017172;0008198;0034641;0006534;0006954;0019448;0007595;005514;0043200;0051591;0045471;0033762;0051384;0044281;0000097;0000098;0000096;0042412
	PCO_ADO	7.4e-07			
comp125984_c0_seq1	Apolipoprotein	0.002	Y5673_ARATH	4.00E-04	GO:0009507
	ApoLp-III	0.025			
	Baculo_PEP_C	0.02			
	DUF1664	0.0022			
	DUF948	0.0021			
	Prominin	0.016			
comp128798_c0_seq1	Ephrin_rec_like	3.6e-06	SCUB1_HUMAN	3.00E-06	GO:0009986;0009897;0005615;0019897;0005509;0042802;0046982;0007512;0007596;0045446;0006954;0009791;0051260
	TRP	0.0026			

comp129241_c0_seq1	cNMP_binding	1.1e-11	KAPR_ASPNG	5.00E-14	GO:0005952;0030552;0008603
	EF-hand_1	0.0057			
	EF-hand_6	0.045			
	EF-hand_7	0.017			
	lon_trans	1.3e-14			
comp130842_c0_seq1	EamA	6.4e-06	/	/	/
	TPT	0.00056			
comp24034_c0_seq1	Galactosyl_T	2.00E-06	/	/	/
comp74512_c0_seq1	Kelch_1	0.027	/	/	/
	PAP_fibrillin	0.00057			
comp99374_c0_seq1	DnaJ	1.7e-13	DPH4_ASHGO	1.00E-08	GO:0005737;0005634;0046872;0017183
comp125555_c0_seq9	/	/	MYS2_DICDI	3.00E-05	GO:0042641;0005826;0045179;0005938;0031254;0005856;0005829;0032009;0032982;0016460;0097204;0001931;0071889;0051015;0030898;0030554;0005524;0000146;0003774;0005515;0042803;0033275;0006200;0032060;0006928;0006935;0030038;0033298;0030866;0031154;0060328;0046847;0006971;0008152;0000281;0031034;0030837;0008104;0031270;0034461
comp100745_c0_seq1	/	/	/	/	/
comp101484_c0_seq1	/	/	/	/	/
comp103051_c0_seq1	/	/	/	/	/
comp106553_c0_seq1	/	/	/	/	/
comp111463_c0_seq2	/	/	/	/	/
comp113111_c3_seq1	/	/	/	/	/
comp118918_c0_seq1	/	/	/	/	/
comp121267_c1_seq1	/	/	/	/	/
comp122552_c0_seq1	/	/	/	/	/
comp124016_c0_seq1	/	/	/	/	/
comp124374_c0_seq1	/	/	/	/	/
comp129241_c1_seq1	/	/	/	/	/
comp129321_c0_seq1	/	/	/	/	/

comp130665_c0_seq1	/	/	/	/	/
comp131122_c0_seq1	/	/	/	/	/
comp131282_c0_seq1	/	/	/	/	/
comp25504_c0_seq1	/	/	/	/	/
comp26886_c0_seq1	/	/	/	/	/
comp29037_c0_seq1	/	/	/	/	/
comp29558_c0_seq1	/	/	/	/	/
comp30077_c0_seq1	/	/	/	/	/
comp32533_c0_seq1	/	/	/	/	/
comp65252_c0_seq1	/	/	/	/	/
comp74963_c0_seq1	/	/	/	/	/
comp94939_c0_seq1	/	/	/	/	/

Supplementary table 4: putative *sxt* genes (tblastn and blastx) and their assignation in the genetic linkage map (violet=manually assigned ; red=no assignation).

Transcript	<i>sxt</i> gene product	tblastn %id	tblastn E-value	tblastn Bit-score	blastx Accession number	blastx %id	blastx E-value	blastx Bit-score	Description	Transcript in genetic linkage map
comp43430_c0_seq1	[SxtA]_ACF94635.1	29.577	4.80E-17	85.1	OLP85133.1	74.815	0	562	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial [Symbiodinium microadriaticum]	L67 - 26.02cM
comp144428_c0_seq1	[SxtA]_ADY62524.1	56.757	4.36E-19	83.6	ADY62524.1	56.757	9.68E-17	83.2	[SxtA]_ADY62524.1 SxtA short isoform precursor [Alexandrium fundyense]	no SNP
comp54483_c0_seq1	[SxtA]_ADY62524.1	47.857	2.07E-34	129	OLP79845.1	47.518	3.12E-27	116	Phthiocerol synthesis polyketide synthase type I PpsB [Symbiodinium microadriaticum]	no SNP
comp117501_c0_seq1	[SxtA]_ADY62525.1	29.808	1.24E-13	75.9	AIR95660.1	30.035	1.60E-08	68.6	[SxtA]_AIR95660.1 SxtA long isoform, partial [Alexandrium catenella]	no SNP
comp127932_c1_seq2	[SxtA]_ADY62525.1	50.244	1.37E-41	164	ADY62524.1	36.446	5.27E-42	173	[SxtA]_ADY62524.1 SxtA short isoform precursor [Alexandrium fundyense]	no SNP
comp30239_c0_seq1	[SxtA]_AGW27127.1	32.143	6.93E-11	61.2	OLP82054.1	72.468	0	583	Long chain base biosynthesis protein 2b [Symbiodinium microadriaticum]	no SNP
comp122988_c0_seq6	[SxtA]_AIN34671.1	99.405	8.75E-113	346	ADY62525.1	76.262	0	1066	[SxtA]_ADY62525.1 SxtA long isoform precursor [Alexandrium fundyense]	L1 - 74.67cM
comp112540_c0_seq1	[SxtA]_AIN34680.1	99.552	2.24E-147	422	ADY62525.1	94.250	0	763	[SxtA]_ADY62525.1 SxtA long isoform precursor [Alexandrium fundyense]	/

comp118538_c0_seq1	[SxtA]_AIN75708.1	38.384	5.47E-16	75.1	ADY62525.1	31.496	5.42E-36	154	[SxtA]_ADY62525.1 SxtA long isoform precursor [Alexandrium fundyense]	no SNP
comp121041_c0_seq1	[SxtA]_AIN75709.1	74.706	3.82E-89	282	ADY62524.1	62.590	0	1174	[SxtA]_ADY62524.1 SxtA short isoform precursor [Alexandrium fundyense]	L77 - 22.7cM
comp120326_c0_seq1	[SxtA]_AIW07470.1	60.274	1.52E-18	91.7	OLP79845.1	33.437	1.34E-27	129	Phthiocerol synthesis polyketide synthase type I PpsB [Symbiodinium microadriaticum]	no SNP
comp45620_c0_seq1	[SxtA]_ALG62703.1	33.071	6.87E-11	62	OLP83949.1	65.649	1.48E-139	444	8-amino-7-oxononanoate synthase [Symbiodinium microadriaticum]	no SNP
comp118168_c0_seq1	[SxtDIOX]_AYN62284.1	42.478	4.02E-18	81.6	WP_067772219.1	43.237	3.45E-104	334	Rieske 2Fe-2S domain-containing protein [Nostoc sp. NIES-3756]	no SNP
comp128046_c0_seq3	[SxtDIOX]_EFA72772.1	29.651	2.13E-12	69.7	WP_017743751.1	32.181	1.30E-55	211	Rieske 2Fe-2S domain-containing protein [Scytonema hofmannii]	no SNP
comp94288_c0_seq4	[SxtG]_AGC84344.1	93.827	6.64E-109	321	OLQ08776.1	68.056	0	535	Glycine amidinotransferase, mitochondrial [Symbiodinium microadriaticum]	L6 - 6.45cM
comp110949_c1_seq1	[SxtG]_AGC84352.1	98.876	0.00E+00	552	AGC84341.1	97.867	0	773	[SxtG][putatively involved in sxt biosynthesis] -> amidinotransferase [Alexandrium minutum] Orr et al, 2013	no SNP
comp122106_c0_seq1	[SxtH]_ABI75098.1	42.353	2.02E-11	66.2	WP_107667802.1	39.506	8.02E-105	337	Rieske 2Fe-2S domain-containing protein [Cyanotheca sp. BG0011] Record removed. This protein record was suppressed because it is no longer annotated on any genome   reblast on nr (19 july 2021) -> unnamed protein product [Polarella glacialis]	L38 - 24.4cM
comp108214_c0_seq1	[SxtH]_ACF94646.1	33.613	7.77E-12	67.8	XP_009040917.1	43.451	1.19E-130	401	hypothetical protein AURANDRAFT_32727 [Aureococcus anophagefferens][Rieske, PaO]	L132 - 0cM
comp120972_c0_seq1	[SxtH]_CDM63982.1	34.899	1.36E-12	68.6	XP_002185582.1	39.269	9.55E-92	300	Tic55 component of chloroplast import machinery [Phaeodactylum tricornutum CCAP 1055/1] (rieske)	L9 - 0cM
comp123970_c0_seq1	[SxtH]_SAQ71117.1	43.21	7.61E-13	70.9	XP_005838188.1	43.617	3.51E-124	385	hypothetical protein GUIHDRAFT_159336 [Guillardia theta CCMP2712] (rieske)	L69 - 122.09cM
comp122233_c0_seq1	[SxtH]_SAQ71201.1	29.87	9.50E-11	64.3	OLP97944.1	60.902	2.30E-166	518	Pheophorbide a oxygenase, chloroplastic [Symbiodinium microadriaticum]	L90 - 32.43cM
comp127996_c2_seq1	[SxtI]_ABI75139.1	28.412	2.12E-23	106	WP_075096512.1	42.837	2.20E-156	483	hypothetical protein [Planctomyces sp. SH-PL14]	no SNP
comp132241_c0_seq1	[SxtI]_ABI75139.1	29.837	1.57E-32	134	OLP88894.1	47.130	8.53E-141	464	Nodulation protein NoINO [Symbiodinium microadriaticum]	no SNP
comp86006_c1_seq1	[SxtO]_ABI75115.1	50.355	1.71E-44	149	OLQ11323.1	66.667	7.69E-86	283	Adenylyl-sulfate kinase [Symbiodinium microadriaticum]	L44 - 48.9cM
comp95255_c0_seq1	[SxtO]_ABI75115.1	49.153	1.56E-50	167	OLQ11323.1	78.481	3.04E-119	374	Adenylyl-sulfate kinase [Symbiodinium microadriaticum]	L32 - 95.56cM
comp102009_c0_seq1	[SxtP]_ABI75126.1	26.493	3.01E-11	67	KGE86808.1	58.192	1.56E-98	320	hypothetical protein IX84_19200, partial [Phaeodactylibacter xiamenensis][VCBS]	no SNP
comp121755_c0_seq1	[SxtPER]_ACZ26223.1	28.571	3.65E-12	68.6	OLP83389.1	68.810	1.14E-118	363	hypothetical protein AK812_SmicGene35847 [Symbiodinium microadriaticum]Permease of the	L84 - 53.48cM

									drug/metabolite transporter (DMT) superfamily; COG0697	
comp135706_c0_seq1	[SxtT]_ABI75109.1	31.016	1.80E-12	69.3	OLQ07087.1	61.949	3.81E-176	537	Pheophorbide a oxygenase, chloroplastic [Symbiodinium microadriaticum]	no SNP
comp91128_c0_seq1	[SxtT]_ACG63810.1	36.471	8.66E-11	60.5	XP_005758264.1	59.302	6.58E-29	119	hypothetical protein EMIHUDDRAFT_219969 [Emiliana huxleyi CCMP1516]	no SNP
comp100183_c0_seq1	[SxtU]_ABI75108.1	35.789	3.63E-27	108	OLQ00819.1	72.491	8.42E-131	387	putative oxidoreductase [Symbiodinium microadriaticum]	L71 - 104.01cM
comp100250_c0_seq1	[SxtU]_ABI75108.1	32.353	1.32E-13	70.9	XP_025077175.1	48.805	6.97E-84	281	peroxisomal multifunctional enzyme type 2-like [Pomacea canaliculata](3R)-hydroxyacyl-CoA dehydrogenase-like, classical(c)-like SDRs	L38 - 21.18cM
comp102587_c0_seq1	[SxtU]_ABI75108.1	36.979	1.55E-20	90.5	OLQ06512.1	73.077	1.04E-119	372	Momilactone A synthase [Symbiodinium microadriaticum]	L119 - 0cM
comp108760_c0_seq1	[SxtU]_ABI75108.1	31.771	2.39E-12	67.4	GBG33967.1	59.477	4.32E-119	357	Peroxisomal multifunctional enzyme type 2 [Hondaea fermentalgiana][(3R)-hydroxyacyl-CoA dehydrogenase-like, classical(c)-like SDRs	/
comp109019_c0_seq1	[SxtU]_ABI75108.1	32.618	4.73E-18	84.3	PYU34669.1	41.126	6.74E-29	127	short-chain dehydrogenase/reductase [Acidobacteria bacterium]	L30 - 90.93cM
comp113186_c0_seq1	[SxtU]_ABI75108.1	31.282	5.27E-12	66.2	OLP91778.1	61.111	7.71E-80	277	Bacilysin biosynthesis oxidoreductase BacC [Symbiodinium microadriaticum]	no SNP
comp120486_c0_seq1	[SxtU]_ABI75108.1	30.901	2.02E-15	76.3	WP_074490832.1	42.683	4.45E-60	203	SDR family oxidoreductase [Mucilaginibacter polytrichastri]	no SNP
comp121225_c0_seq2	[SxtU]_ABI75108.1	30.918	1.94E-12	67.8	WP_085933246.1	36.333	4.51E-43	162	SDR family NAD(P)-dependent oxidoreductase [Enhydrobacter aerosaccus][enoyl ACP reductase]	no SNP
comp126532_c0_seq1	[SxtU]_ABI75108.1	31.034	5.75E-11	62.8	CEL91992.1	55.422	3.38E-70	229	unnamed protein product [Vitrella brassicaformis CCMP3155]	no SNP
comp28138_c0_seq1	[SxtU]_ABI75108.1	31.214	1.90E-11	64.3	RMF05234.1	60.731	6.29E-83	260	SDR family oxidoreductase [Chloroflexi bacterium]	L48 - 38.8 or 40.4cM
comp28357_c0_seq1	[SxtU]_ABI75108.1	31.278	1.81E-15	75.9	WP_012110424.1	51.181	1.62E-73	237	SDR family oxidoreductase [Parvibaculum lavamentivorans][ketoacyl ACP reductase]	L34 - 107.43cM
comp57476_c0_seq1	[SxtU]_ABI75108.1	32.661	2.32E-18	84	ACJ13442.1	62.698	2.10E-105	318	ketoacyl-reductase like protein [Karlodinium veneficum]	L97 - 6.45cM
comp66884_c0_seq1	[SxtU]_ABI75108.1	40.31	6.95E-34	128	XP_002785909.1	57.576	1.76E-87	278	oxidoreductase, putative [Perkinsus marinus ATCC 50983]	/
comp84303_c0_seq1	[SxtU]_ABI75108.1	30.29	6.63E-16	77.8	AQS99233.1	77.656	1.01E-120	364	trans3-ketoacyl acyl carrier protein reductase [Gambierdiscus australes]	L67 - 13.1 or 19.56cM
comp100930_c0_seq1	[SxtU]_ABI75134.1	31.69	7.49E-11	62.8	OLQ01904.1	61.379	5.88E-114	372	Peroxisomal multifunctional enzyme A [Symbiodinium microadriaticum][(3R)- hydroxyacyl-CoA dehydrogenase-like, classical(c)- like SDRs]	L1 - 90.8 or 92.4cM
comp104000_c0_seq1	[SxtU]_ABI75134.1	34.337	1.51E-18	85.1	RPG27054.1	47.604	1.89E-75	246	SDR family NAD(P)-dependent oxidoreductase [Gammaproteobacteria bacterium TMED50][enoyl ACP reductase]	L2 - 0cM
comp79764_c0_seq1	[SxtU]_ABI75134.1	35.417	1.49E-14	73.6	WP_072859765.1	37.500	4.56E-35	138	SDR family oxidoreductase [Arenibacter palladensis]	no SNP

comp99859_c1_seq1	[SxtU]_ABI75134.1	32.143	2.29E-12	67.4	XP_005765524.1	40.260	5.19E-49	179	hypothetical protein EMIHURAFT_452018 [Emiliania huxleyi CCMP1516][ketoacyl ACP reductase]	L11 - 79.64cM
comp109460_c0_seq1	[SxtU]_ACG63811.1	27.811	2.10E-12	67.4	OLP94209.1	61.217	8.93E-81	275	Dehydrogenase/reductase SDR family protein 7-like [Symbiodinium microadriaticum]	no SNP
comp117479_c0_seq1	[SxtU]_ACG63811.1	29.327	6.57E-11	62.8	WP_061781333.1	36.803	4.65E-32	130	SDR family oxidoreductase [Sphingomonas sanguinis]	no SNP
comp117483_c0_seq1	[SxtU]_ACG63811.1	32.075	1.07E-13	71.2	XP_011396427.1	44.746	2.95E-45	167	Estradiol 17-beta-dehydrogenase 1 [Auxenochlorella protothecoides]	L8 - 1.61cM
comp87119_c0_seq1	[SxtU]_ACG63811.1	28.07	1.90E-13	70.1	WP_089725650.1	57.480	3.37E-89	277	SDR family oxidoreductase [Candidatus Thiosymbion oneisti][ketoacyl ACP reductase]	L28 - 3.23cM
comp95464_c2_seq1	[SxtU]_ACG63811.1	32.738	5.55E-18	81.6	WP_150376560.1	59.898	1.01E-80	252	glucose 1-dehydrogenase [Cupriavidus pauculus]	L73 - 0 or 1.61cM
comp103231_c0_seq1	[SxtU]_ACG63839.1	33.793	3.89E-16	78.2	TMA46697.1	51.515	3.33E-71	232	SDR family oxidoreductase [Deltaproteobacteria bacterium] /note="3-ketoacyl-(acyl-carrier-protein) reductase; Validated; PRK05653"	no SNP
comp105024_c0_seq1	[SxtU]_ACG63839.1	33.047	3.56E-11	63.9	XP_009039966.1	46.693	6.64E-41	156	hypothetical protein AURANDRAFT_31155 [Aureococcus anophagefferens] [ketoacyl ACP reductase]	L11 - 0cM
comp107509_c0_seq2	[SxtU]_ACG63839.1	32.195	2.14E-13	70.1	GBG34250.1	59.921	8.70E-88	273	3-hydroxyacyl-CoA dehydrogenase type-2 [Hondaea fermentalgiana]	/
comp109058_c0_seq2	[SxtU]_ACG63839.1	32.624	2.60E-11	63.5	XP_002784357.1	48.117	6.31E-71	228	3-hydroxyacyl-CoA dehydrogenase, putative [Perkinsus marinus ATCC 50983][ketoacyl ACP reductase]	no SNP
comp112050_c0_seq1	[SxtU]_ACG63839.1	33.065	9.74E-12	65.5	RUS76170.1	43.609	5.09E-63	214	hypothetical protein EGW08_016082 [Elysia chlorotica]	L95 - 14.57cM
comp118342_c1_seq1	[SxtU]_ACG63839.1	29.949	7.07E-12	65.5	OLP94474.1	50.538	3.38E-68	231	Rhamnolipids biosynthesis 3-oxoacyl-[acyl-carrier-protein] reductase [Symbiodinium microadriaticum]	no SNP
comp119592_c0_seq1	[SxtU]_ACG63839.1	26.971	6.89E-11	62.8	WP_131747105.1	55.290	7.78E-94	293	SDR family oxidoreductase [Candidatus Frankia meridionalis]	no SNP
comp120261_c0_seq1	[SxtU]_ACG63839.1	34.016	1.93E-13	70.9	WP_121110878.1	44.151	1.20E-49	183	SDR family oxidoreductase [Rhodococcus sp. P1Y]	L28 - 3.23cM
comp129911_c0_seq1	[SxtU]_ACG63839.1	30.682	3.14E-12	66.6	RLS40703.1	58.042	5.45E-92	285	SDR family oxidoreductase [Planctomycetes bacterium]	no SNP
comp134292_c0_seq1	[SxtU]_ACG63839.1	35.178	2.96E-24	100	XP_002500870.1	64.626	5.48E-118	353	predicted protein [Micromonas commoda]	L120 - 16.28cM
comp55889_c0_seq1	[SxtU]_ACG63839.1	31.944	1.70E-11	63.9	PYN85767.1	54.545	1.71E-63	209	NAD(P)-dependent oxidoreductase [Candidatus Rokubacteria bacterium]	no SNP
comp63609_c0_seq1	[SxtU]_ACG63839.1	33.333	8.02E-13	68.6	OQR90991.1	51.661	1.07E-75	246	peroxisomal multifunctional enzyme [Achlya hypogyna](3R)-hydroxyacyl-CoA dehydrogenase-like, classical(c)-like SDRs	L35 - 51.82cM
comp78232_c0_seq1	[SxtU]_ACG63839.1	27.459	3.53E-11	63.5	PPR36870.1	54.475	4.60E-84	265	Glucose 1-dehydrogenase [Alphaproteobacteria bacterium MarineAlpha9_Bin6][SDR-c]	L64 - 39.05cM



comp82229_c0_seq1	[SxtU]_ACG63839.1	36.585	3.19E-17	80.9	PHY05583.1	48.473	4.09E-60	203	2-deoxy-D-gluconate 3-dehydrogenase [Alcaligenaceae bacterium]	L116 - 58.36 or 59.97cM
comp130359_c0_seq1	[SxtX]_CDM63967.1	28.492	6.17E-11	62.4	OLP80539.1	75.745	2.78E-115	389	Rhamnosyl O-methyltransferase [Symbiodinium microadriaticum][S-adenosylmethionine-dependent methyltransferases(SAM or AdoMet-MTase)]	L89 - 60.1cM
comp126649_c0_seq2	[SxtZ]_ABI75118.1	24.112	1.11E-15	81.3	GAX84119.1	37.678	2.93E-71	262	hypothetical protein CEUSTIGMA_g11542.t1 [Chlamydomonas eustigma]	L91 - 17.76cM

Supplementary table 5: SNP distributions of non-assigned putative *sxt* genes. "0" represents the contribution of parent NT2 and "1" the contribution of parent T2. Blue indicates non-toxic strains and the contribution of parent NT2, orange indicates toxic strains and the contribution of parent T2.

Strain	Parental contributions		Non toxic F1 from T2xNT2 cross					Toxic F1 from T2xNT2 cross												
	NT2	T2	B	N	P	Q	U	C	D	F	H	J	K	L	M	O	R	T	V	W
comp112540_c0_seq1 (putative <i>sxtA</i> )	0	1	1	1	1	1	1	NA	NA	1	1	1	0	1	NA	1	1	1	NA	1
comp108760_c0_seq1 (putative <i>sxtU</i> )	0	1	1	1	0	1	1	0	1	1	NA	0	NA	NA	NA	0	NA	1	1	0

Supplementary table 6: eQTL annotation. Annotation of the transcripts linked to L62 by eQTL.

Transcript	Sxt homologue	Position in the genetic map	pfam	evalue pfam	blastx acc n°	evalue blast	uniprot	evalue uniprot	GO
comp110949_c1_seq1	SxtG	no SNP	Amidinotransf	0.0073	AGC84341.1	0	GATM_DANRE	2.00E-14	GO:0005743;0015068;0016813;0006601
comp128708_c1_seq1		manually assignable to L74 - 0cM	/	/	/	/	/	/	/
comp18558_c0_seq1		manually assignable to L95 - 63.42 to 65.03cM	Nramp	2.5e-106	/	/	NRAM2_ORYSJ	4.00E-106	GO:0016021;0005215;0006811;0055072
comp100839_c0_seq1		no SNP	Methyltransf_24	1.6e-08	/	/	/	/	/
comp102551_c1_seq2		manually assignable to L100 - 0 to 4.84cM	2Fe-2S_thioredx	2.6	/	/	/	/	/
comp113399_c0_seq1		manually assignable to L59 - 32.35 to 33.97cM	zf-CCCH	0.031	/	/	MBNL1_HUMAN	1.00E-04	GO:0005737;0010494;0005634;0003725;0046872;0044822;0005515;0003723;0000380;0030326;0001701;0006376;0045445;0007399;0000381;0043484;0008380;0007519

comp123426_c1_seq1		no SNP	APH	1.8e-47	/	/	/	/	/
			Choline_kinase	0.0021					
comp127996_c0_seq1		no SNP	/	/	/	/	/	/	/
comp127996_c2_seq1	SxtI	no SNP	Carbam_trans_C	2.5e-40	WP_075096512.1	2.2e-156	Y1058_METJA	1.00E-19	GO:0016740;0009058
			Carbam_trans_N	3.1e-21					
			FeoA	0.62					
comp132314_c0_seq1		manually assignable to L51 - 85.98 to 98.92cM	DUF72	1.4e-43	/	/	/	/	/
comp96039_c0_seq1		L63 92.65cM	TPR_12	1.8e-87	/	/	NPHP3_HUMAN	2.00E-36	GO:0005929;0072372;0005515;0003283;0060271;0060027;0071908;0007368;0071910;0035469;0071909;0060287;0007163;0030198;0001947;0001822;0060993;0006629;0030324;0048496;0090090;0045494;0030814;2000167;2000095;0072189;0016055
			SHNi-TPR	4.8e-05					
			RPN7	0.00027					
			MIT	0.00068					
comp97777_c0_seq1		manually assignable to L62 - 16.25cM	DUF3369	2.4	/	/	/	/	/

Supplementary table 8: SNPs of L62 in the T1xNT1 cross. « 1 » represents the contribution from parent NT1 and « 0 » represents the contribution from parent T1.

transcript	NT1	T1	a	b	c	e
comp101486_c0_seq1	1	0	0	1	1	1
comp102814_c0_seq1	1	0	0	1	1	1
comp104658_c0_seq1	1	0	1	1	1	1
comp105001_c0_seq1	1	0	1	1	1	1
comp109406_c0_seq1	1	0	0	1	1	1
comp111972_c0_seq1	1	0	1	1	1	1
comp115397_c0_seq1	1	0	0	1	1	1
comp116297_c0_seq1	1	0	0	1	1	1
comp117087_c1_seq1	1	0	1	1	1	1
comp118522_c0_seq1	1	0	0	1	1	1
comp121729_c0_seq1	1	0	1	1	1	1

comp123175_c0_seq1	1	0	0	1	1	1
comp124989_c0_seq1	1	0	0	1	1	1
comp125039_c0_seq1	1	0	1	1	1	1
comp125738_c0_seq1	1	0	1	1	1	1
comp128798_c0_seq1	1	0	1	1	1	1
comp129241_c0_seq1	1	0	1	1	1	1
comp130842_c0_seq1	1	0	1	1	1	1
comp24034_c0_seq1	1	0	0	1	1	1
comp74512_c0_seq1	1	0	1	1	1	1
comp99374_c0_seq1	1	0	1	1	1	1
comp100745_c0_seq1	1	0	1	1	1	1
comp101484_c0_seq1	1	0	1	1	1	1
comp103051_c0_seq1	1	0	1	1	1	1
comp106553_c0_seq1	1	0	1	1	1	1
comp111463_c0_seq2	1	0	1	1	1	1
comp113111_c3_seq1	1	0	1	1	1	1
comp118918_c0_seq1	1	0	0	1	1	1
comp121267_c1_seq1	1	0	1	1	1	1
comp122552_c0_seq1	1	0	0	1	1	1
comp124016_c0_seq1	1	0	0	1	1	1
comp124374_c0_seq1	1	0	0	1	1	1
comp129241_c1_seq1	1	0	1	1	1	1
comp129321_c0_seq1	1	0	0	1	1	1
comp130665_c0_seq1	1	0	0	1	1	1
comp131122_c0_seq1	1	0	1	1	1	1
comp131282_c0_seq1	1	0	0	1	1	1
comp25504_c0_seq1	1	0	1	1	1	1
comp29558_c0_seq1	1	0	1	1	1	1
comp32533_c0_seq1	1	0	1	1	1	1

comp65252_c0_seq1	1	0	1	1	1	1
comp74963_c0_seq1	1	0	1	1	1	1
comp94939_c0_seq1	1	0	1	1	1	1

Supplementary table 7: Genetic linkage map of *A. minutum*. LG=Linkage Group

Transcripts	LG	Distance	Transcripts	LG	Distance	Transcripts	LG	Distance	Transcripts	LG	Distance
comp100730_c0_seq1	L1	0	comp89669_c0_seq1	L28	12.917805917879	comp113164_c0_seq1	L53	11.3212637504871	comp117999_c0_seq1	L82	1.61346302843928
comp101999_c0_seq1	L1	0	comp90723_c0_seq1	L28	12.917805917879	comp116811_c0_seq2	L53	11.3212637504871	comp90066_c0_seq1	L82	1.61346302843928
comp103028_c0_seq2	L1	0	comp91317_c0_seq2	L28	12.917805917879	comp121569_c3_seq1	L53	11.3212637504871	comp117480_c0_seq1	L82	3.22692605687856
comp104417_c0_seq4	L1	0	comp91373_c0_seq1	L28	12.917805917879	comp127152_c0_seq1	L53	11.3212637504871	comp129333_c0_seq1	L82	3.22692605687856
comp108866_c1_seq1	L1	0	comp93483_c1_seq1	L28	12.917805917879	comp127506_c0_seq1	L53	11.3212637504871	comp104396_c1_seq1	L82	13.0279782512792
comp125079_c0_seq1	L1	0	comp94696_c0_seq1	L28	12.917805917879	comp127911_c0_seq1	L53	11.3212637504871	comp114531_c0_seq1	L82	13.0279782512792
comp128725_c2_seq1	L1	0	comp96655_c0_seq1	L28	12.917805917879	comp96965_c0_seq1	L53	11.3212637504871	comp120080_c0_seq1	L82	13.0279782512792
comp134564_c1_seq1	L1	0	comp97393_c0_seq1	L28	12.917805917879	comp117099_c0_seq1	L53	21.1223159448877	comp120425_c3_seq1	L82	13.0279782512792
comp135086_c0_seq1	L1	0	comp97999_c0_seq1	L28	12.917805917879	comp75884_c0_seq1	L53	25.9762163059117	comp88233_c0_seq2	L82	13.0279782512792
comp15150_c0_seq1	L1	0	comp97999_c1_seq1	L28	12.917805917879	comp109909_c0_seq1	L53	27.589679334351	comp113394_c0_seq1	L82	16.2582715382793
comp17914_c0_seq1	L1	0	comp119715_c0_seq1	L29	0	comp113916_c0_seq1	L53	27.589679334351	comp123957_c0_seq1	L82	16.2582715382793
comp25854_c0_seq1	L1	0	comp120805_c0_seq1	L29	0	comp118273_c0_seq1	L53	27.589679334351	comp87202_c0_seq1	L82	16.2582715382793
comp26170_c0_seq1	L1	0	comp122540_c0_seq1	L29	0	comp94799_c0_seq1	L53	27.589679334351	comp93650_c1_seq1	L82	16.2582715382793
comp26455_c0_seq1	L1	0	comp125766_c1_seq1	L29	0	comp99445_c0_seq1	L53	27.589679334351	comp100890_c1_seq1	L82	29.4599572932917
comp27778_c0_seq1	L1	0	comp130658_c0_seq1	L29	0	comp102478_c0_seq1	L53	32.4435796953749	comp126182_c1_seq1	L82	29.4599572932917
comp28092_c0_seq1	L1	0	comp132908_c0_seq1	L29	0	comp104636_c0_seq1	L53	32.4435796953749	comp102554_c0_seq1	L82	31.073420321731
comp30017_c0_seq1	L1	0	comp86971_c0_seq1	L29	0	comp106026_c0_seq1	L53	32.4435796953749	comp109529_c0_seq1	L82	31.073420321731
comp40771_c0_seq1	L1	0	comp111074_c0_seq1	L29	3.23029328700015	comp106172_c0_seq1	L53	32.4435796953749	comp113255_c1_seq10	L82	31.073420321731
comp42267_c0_seq1	L1	0	comp111111_c1_seq1	L29	3.23029328700015	comp107439_c1_seq1	L53	32.4435796953749	comp126618_c0_seq1	L82	31.073420321731
comp42781_c0_seq1	L1	0	comp114827_c4_seq1	L29	3.23029328700015	comp109394_c0_seq1	L53	32.4435796953749	comp32026_c0_seq1	L82	31.073420321731
comp45659_c0_seq1	L1	0	comp119313_c0_seq1	L29	3.23029328700015	comp110970_c0_seq1	L53	32.4435796953749	comp75837_c0_seq1	L82	31.073420321731
comp61800_c0_seq1	L1	0	comp123663_c0_seq1	L29	3.23029328700015	comp117619_c0_seq5	L53	32.4435796953749	comp85735_c0_seq1	L82	31.073420321731

comp61927_c0_seq1	L1	0	comp130594_c2_seq1	L29	3.23029328700015	comp122229_c0_seq1	L53	32.4435796953749	comp90013_c0_seq1	L82	31.073420321731
comp64521_c0_seq1	L1	0	comp133095_c1_seq1	L29	3.23029328700015	comp124089_c1_seq1	L53	32.4435796953749	comp96204_c0_seq1	L82	31.073420321731
comp65916_c0_seq1	L1	0	comp67578_c0_seq1	L29	3.23029328700015	comp127913_c0_seq1	L53	32.4435796953749	comp108569_c1_seq2	L82	32.6868833501703
comp67798_c0_seq1	L1	0	comp77307_c1_seq1	L29	3.23029328700015	comp130558_c0_seq1	L53	32.4435796953749	comp83069_c0_seq1	L82	32.6868833501703
comp68087_c0_seq1	L1	0	comp83670_c0_seq1	L29	3.23029328700015	comp64081_c0_seq1	L53	32.4435796953749	comp106180_c0_seq1	L82	34.3003463786096
comp69325_c0_seq1	L1	0	comp91693_c0_seq1	L29	3.23029328700015	comp87014_c0_seq1	L53	32.4435796953749	comp130690_c0_seq4	L82	40.7881262657367
comp69627_c0_seq1	L1	0	comp94858_c0_seq1	L29	3.23029328700015	comp90933_c0_seq1	L53	32.4435796953749	comp108781_c0_seq1	L82	42.4015892941759
comp72384_c0_seq1	L1	0	comp112741_c0_seq1	L29	4.84375631543943	comp91613_c0_seq1	L53	32.4435796953749	comp92300_c0_seq1	L82	45.6318825811761
comp74134_c0_seq1	L1	0	comp117759_c0_seq1	L29	4.84375631543943	comp96206_c0_seq1	L53	32.4435796953749	comp105761_c0_seq1	L83	0
comp81659_c0_seq1	L1	0	comp83884_c0_seq1	L29	4.84375631543943	comp100397_c0_seq1	L53	34.0570427238142	comp108740_c0_seq1	L83	0
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comp133542_c0_seq1	L1	1.61346302843928	comp99083_c0_seq1	L29	12.9449992310058	comp110302_c0_seq1	L54	0	comp85767_c0_seq1	L83	1.61346302843928
comp64438_c0_seq1	L1	1.61346302843928	comp100160_c0_seq1	L29	21.0805592418715	comp118495_c0_seq1	L54	0	comp91186_c0_seq1	L83	1.61346302843928
comp83687_c0_seq1	L1	1.61346302843928	comp100180_c0_seq1	L29	21.0805592418715	comp125070_c0_seq7	L54	0	comp91245_c0_seq1	L83	1.61346302843928
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comp99306_c0_seq1	L1	1.61346302843928	comp103598_c1_seq1	L29	21.0805592418715	comp84110_c0_seq1	L54	0	comp91487_c0_seq1	L83	6.46736338946321
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comp119213_c0_seq1	L1	6.45721934387871	comp105329_c0_seq1	L29	21.0805592418715	comp88172_c0_seq2	L54	0	comp119347_c0_seq2	L83	8.08082641790249
comp93304_c0_seq1	L1	6.45721934387871	comp105412_c1_seq3	L29	21.0805592418715	comp91908_c0_seq1	L54	0	comp96603_c0_seq1	L83	8.08082641790249
comp103378_c0_seq1	L1	9.68751263087886	comp107736_c0_seq1	L29	21.0805592418715	comp92590_c0_seq1	L54	0	comp115292_c0_seq1	L83	16.2163864287682
comp108563_c0_seq2	L1	9.68751263087886	comp108166_c0_seq1	L29	21.0805592418715	comp93186_c0_seq1	L54	0	comp122007_c0_seq1	L83	16.2163864287682
comp125962_c0_seq1	L1	9.68751263087886	comp109197_c2_seq1	L29	21.0805592418715	comp96115_c0_seq1	L54	0	comp124894_c1_seq1	L83	16.2163864287682
comp128433_c0_seq2	L1	9.68751263087886	comp109335_c0_seq1	L29	21.0805592418715	comp99648_c0_seq1	L54	0	comp126748_c0_seq1	L83	16.2163864287682
comp95003_c0_seq1	L1	9.68751263087886	comp110923_c0_seq1	L29	21.0805592418715	comp99785_c0_seq1	L54	0	comp128139_c0_seq1	L83	16.2163864287682
comp109589_c0_seq1	L1	14.5414129919028	comp111675_c1_seq1	L29	21.0805592418715	comp101551_c0_seq2	L54	1.61346302843928	comp131308_c0_seq1	L83	16.2163864287682
comp112790_c0_seq1	L1	14.5414129919028	comp111675_c2_seq1	L29	21.0805592418715	comp103168_c0_seq3	L54	1.61346302843928	comp131700_c1_seq1	L83	16.2163864287682
comp125157_c0_seq1	L1	14.5414129919028	comp112045_c1_seq1	L29	21.0805592418715	comp104519_c0_seq1	L54	1.61346302843928	comp132007_c0_seq1	L83	16.2163864287682
comp83173_c0_seq1	L1	14.5414129919028	comp112647_c0_seq3	L29	21.0805592418715	comp110917_c0_seq1	L54	1.61346302843928	comp132075_c0_seq1	L83	16.2163864287682
comp100096_c0_seq1	L1	19.3953133529267	comp114292_c0_seq1	L29	21.0805592418715	comp116646_c0_seq1	L54	1.61346302843928	comp42901_c0_seq1	L83	16.2163864287682
comp101460_c0_seq1	L1	19.3953133529267	comp115213_c0_seq1	L29	21.0805592418715	comp119904_c0_seq1	L54	1.61346302843928	comp73909_c0_seq1	L83	16.2163864287682
comp104880_c0_seq1	L1	19.3953133529267	comp115616_c0_seq1	L29	21.0805592418715	comp122058_c0_seq1	L54	1.61346302843928	comp79982_c0_seq1	L83	16.2163864287682

comp108425_c0_seq1	L1	19.3953133529267	comp115899_c0_seq1	L29	21.0805592418715	comp130057_c0_seq1	L54	1.61346302843928	comp85089_c0_seq2	L83	16.2163864287682
comp113824_c0_seq1	L1	19.3953133529267	comp116453_c0_seq2	L29	21.0805592418715	comp130248_c0_seq1	L54	1.61346302843928	comp95591_c0_seq1	L83	16.2163864287682
comp120943_c0_seq2	L1	19.3953133529267	comp116600_c0_seq1	L29	21.0805592418715	comp133428_c0_seq1	L54	1.61346302843928	comp98439_c0_seq1	L83	16.2163864287682
comp125259_c0_seq1	L1	19.3953133529267	comp117926_c0_seq1	L29	21.0805592418715	comp28832_c0_seq1	L54	1.61346302843928	comp106899_c0_seq1	L83	17.8298494572075
comp126211_c0_seq1	L1	19.3953133529267	comp120138_c1_seq1	L29	21.0805592418715	comp96631_c0_seq1	L54	1.61346302843928	comp131268_c0_seq10	L83	17.8298494572075
comp129263_c0_seq1	L1	19.3953133529267	comp120866_c0_seq2	L29	21.0805592418715	comp62558_c0_seq1	L54	4.84375631543943	comp113018_c0_seq1	L83	25.9654094680732
comp99840_c0_seq1	L1	19.3953133529267	comp121629_c0_seq1	L29	21.0805592418715	comp69281_c0_seq1	L54	4.84375631543943	comp97795_c0_seq1	L83	25.9654094680732
comp116300_c0_seq1	L1	24.2492137139507	comp125893_c0_seq1	L29	21.0805592418715	comp73196_c0_seq1	L54	4.84375631543943	comp111006_c0_seq1	L83	27.5788724965125
comp117679_c0_seq2	L1	24.2492137139507	comp127050_c0_seq1	L29	21.0805592418715	comp93706_c0_seq1	L54	4.84375631543943	comp127672_c0_seq1	L83	27.5788724965125
comp125865_c0_seq1	L1	24.2492137139507	comp131145_c0_seq1	L29	21.0805592418715	comp95819_c0_seq1	L54	4.84375631543943	comp74992_c0_seq1	L83	27.5788724965125
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comp85826_c0_seq1	L1	35.7375219484117	comp131871_c0_seq1	L29	21.0805592418715	comp103703_c0_seq1	L54	9.69765667646336	comp110746_c0_seq3	L83	29.1923355249517
comp129353_c0_seq1	L1	37.3509849768509	comp30539_c0_seq1	L29	21.0805592418715	comp104192_c0_seq1	L54	9.69765667646336	comp68348_c0_seq1	L83	29.1923355249517
comp80933_c0_seq1	L1	42.2048853378749	comp46663_c0_seq1	L29	21.0805592418715	comp102529_c0_seq1	L54	11.3111197049026	comp121098_c0_seq1	L83	40.6806437594127
comp111256_c0_seq2	L1	43.8183483663142	comp48834_c0_seq1	L29	21.0805592418715	comp109342_c0_seq1	L54	11.3111197049026	comp81735_c0_seq1	L83	40.6806437594127
comp79621_c0_seq1	L1	43.8183483663142	comp55158_c0_seq1	L29	21.0805592418715	comp111469_c0_seq1	L54	11.3111197049026	comp111419_c0_seq1	L83	42.294106787852
comp96930_c0_seq1	L1	43.8183483663142	comp56287_c0_seq1	L29	21.0805592418715	comp112796_c0_seq1	L54	11.3111197049026	comp114584_c1_seq1	L83	42.294106787852
comp92428_c0_seq1	L1	47.0486416533143	comp58565_c0_seq1	L29	21.0805592418715	comp72045_c0_seq1	L54	11.3111197049026	comp121064_c0_seq1	L83	42.294106787852
comp117924_c0_seq1	L1	55.18420166418	comp60425_c0_seq1	L29	21.0805592418715	comp89763_c0_seq1	L54	11.3111197049026	comp125230_c2_seq1	L83	42.294106787852
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comp115284_c0_seq1	L1	66.5987168870199	comp64220_c0_seq1	L29	21.0805592418715	comp9362_c0_seq1	L54	11.3111197049026	comp126842_c0_seq2	L83	42.294106787852
comp122501_c0_seq1	L1	66.5987168870199	comp65313_c0_seq1	L29	21.0805592418715	comp108710_c0_seq1	L54	14.5414129919028	comp130855_c0_seq1	L83	42.294106787852
comp124793_c0_seq2	L1	66.5987168870199	comp66796_c0_seq1	L29	21.0805592418715	comp123551_c1_seq1	L54	14.5414129919028	comp131505_c0_seq2	L83	42.294106787852
comp126614_c0_seq1	L1	66.5987168870199	comp68158_c0_seq1	L29	21.0805592418715	comp78454_c0_seq1	L54	14.5414129919028	comp66887_c0_seq1	L83	42.294106787852
comp112398_c0_seq1	L1	68.2121799154592	comp72544_c0_seq1	L29	21.0805592418715	comp84344_c0_seq1	L54	14.5414129919028	comp70806_c0_seq1	L83	42.294106787852
comp118047_c0_seq1	L1	68.2121799154592	comp73146_c0_seq1	L29	21.0805592418715	comp90731_c0_seq1	L54	14.5414129919028	comp85934_c0_seq1	L83	42.294106787852
comp118742_c0_seq1	L1	68.2121799154592	comp74314_c0_seq1	L29	21.0805592418715	comp90731_c1_seq1	L54	14.5414129919028	comp91542_c0_seq1	L83	42.294106787852
comp132073_c0_seq1	L1	68.2121799154592	comp75524_c0_seq1	L29	21.0805592418715	comp102567_c0_seq2	L54	17.7717062789029	comp94611_c0_seq1	L83	42.294106787852
comp97028_c0_seq3	L1	68.2121799154592	comp77502_c0_seq1	L29	21.0805592418715	comp101856_c0_seq1	L54	22.6256066399269	comp94611_c1_seq1	L83	42.294106787852

comp101036_c0_seq1	L1	69.8256429438985	comp77644_c0_seq1	L29	21.0805592418715	comp105851_c0_seq1	L54	22.6256066399269	comp108396_c0_seq1	L83	48.7818866749791
comp101437_c0_seq1	L1	69.8256429438985	comp78478_c0_seq1	L29	21.0805592418715	comp130835_c2_seq4	L54	22.6256066399269	comp115719_c0_seq1	L83	48.7818866749791
comp102298_c0_seq1	L1	69.8256429438985	comp78620_c0_seq1	L29	21.0805592418715	comp26186_c0_seq1	L54	22.6256066399269	comp121555_c0_seq1	L83	48.7818866749791
comp105477_c3_seq1	L1	69.8256429438985	comp82127_c2_seq1	L29	21.0805592418715	comp52510_c0_seq1	L54	22.6256066399269	comp122663_c0_seq1	L83	48.7818866749791
comp107215_c0_seq1	L1	69.8256429438985	comp82578_c0_seq1	L29	21.0805592418715	comp56145_c0_seq1	L54	22.6256066399269	comp122658_c0_seq1	L83	53.6357870360031
comp114988_c0_seq1	L1	69.8256429438985	comp83653_c0_seq1	L29	21.0805592418715	comp68929_c0_seq1	L54	22.6256066399269	comp125823_c0_seq1	L83	53.6357870360031
comp115723_c0_seq1	L1	69.8256429438985	comp84096_c0_seq1	L29	21.0805592418715	comp77152_c0_seq1	L54	22.6256066399269	comp115482_c5_seq1	L83	55.2492500644423
comp119469_c0_seq1	L1	69.8256429438985	comp85719_c0_seq1	L29	21.0805592418715	comp80701_c0_seq1	L54	22.6256066399269	comp128064_c0_seq1	L83	55.2492500644423
comp120912_c0_seq1	L1	69.8256429438985	comp87414_c0_seq1	L29	21.0805592418715	comp91328_c0_seq1	L54	22.6256066399269	comp82262_c0_seq1	L83	55.2492500644423
comp121422_c0_seq1	L1	69.8256429438985	comp89355_c0_seq1	L29	21.0805592418715	comp99116_c0_seq1	L54	22.6256066399269	comp82833_c0_seq1	L83	55.2492500644423
comp122044_c1_seq1	L1	69.8256429438985	comp90652_c0_seq1	L29	21.0805592418715	comp104799_c1_seq1	L54	24.2390696683662	comp105836_c0_seq1	L83	56.8627130928816
comp126933_c0_seq1	L1	69.8256429438985	comp92646_c0_seq1	L29	21.0805592418715	comp120397_c0_seq1	L54	24.2390696683662	comp112959_c0_seq1	L83	56.8627130928816
comp130217_c1_seq1	L1	69.8256429438985	comp92981_c0_seq2	L29	21.0805592418715	comp129034_c0_seq1	L54	24.2390696683662	comp114553_c0_seq1	L83	56.8627130928816
comp132641_c1_seq1	L1	69.8256429438985	comp94606_c0_seq1	L29	21.0805592418715	comp92007_c0_seq1	L54	24.2390696683662	comp122598_c0_seq1	L83	56.8627130928816
comp96938_c0_seq1	L1	69.8256429438985	comp94631_c0_seq1	L29	21.0805592418715	comp98552_c0_seq1	L54	24.2390696683662	comp132210_c0_seq2	L83	56.8627130928816
comp99551_c0_seq1	L1	69.8256429438985	comp95462_c0_seq1	L29	21.0805592418715	comp106265_c0_seq1	L54	37.4407554233786	comp84367_c0_seq1	L83	56.8627130928816
comp107054_c0_seq1	L1	74.6795433049224	comp95533_c0_seq1	L29	21.0805592418715	comp107785_c0_seq1	L54	37.4407554233786	comp106631_c0_seq1	L83	66.6637652872822
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comp120022_c0_seq2	L1	74.6795433049224	comp97425_c0_seq1	L29	21.0805592418715	comp116699_c0_seq2	L54	37.4407554233786	comp84860_c0_seq1	L83	66.6637652872822
comp120990_c0_seq1	L1	74.6795433049224	comp99088_c0_seq1	L29	21.0805592418715	comp122813_c0_seq1	L54	37.4407554233786	comp89165_c0_seq1	L83	66.6637652872822
comp125012_c0_seq3	L1	74.6795433049224	comp99871_c0_seq1	L29	21.0805592418715	comp124331_c0_seq2	L54	37.4407554233786	comp100924_c0_seq1	L83	71.5176656483061
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comp126408_c0_seq1	L1	74.6795433049224	comp104272_c0_seq1	L30	0	comp128392_c0_seq1	L54	37.4407554233786	comp117528_c1_seq1	L83	71.5176656483061
comp127992_c0_seq2	L1	74.6795433049224	comp107972_c0_seq1	L30	0	comp81966_c0_seq1	L54	37.4407554233786	comp127293_c0_seq1	L83	71.5176656483061
comp128138_c0_seq1	L1	74.6795433049224	comp112552_c0_seq9	L30	0	comp98504_c0_seq1	L54	37.4407554233786	comp130600_c2_seq2	L83	71.5176656483061
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comp131415_c0_seq2	L1	74.6795433049224	comp125009_c0_seq1	L30	0	comp120795_c1_seq1	L54	39.0542184518179	comp114354_c0_seq1	L83	73.1311286767454
comp132192_c0_seq1	L1	74.6795433049224	comp131706_c0_seq1	L30	0	comp120795_c2_seq1	L54	39.0542184518179	comp122642_c1_seq1	L83	73.1311286767454
comp133539_c0_seq1	L1	74.6795433049224	comp132589_c0_seq2	L30	0	comp123134_c0_seq1	L54	39.0542184518179	comp127525_c0_seq1	L83	73.1311286767454
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comp80530_c0_seq1	L1	74.6795433049224	comp26339_c0_seq1	L30	0	comp124601_c1_seq1	L54	39.0542184518179	comp101640_c0_seq1	L83	76.3614219637456
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comp99750_c0_seq1	L1	74.6795433049224	comp31123_c0_seq1	L30	0	comp88368_c0_seq2	L54	39.0542184518179	comp109852_c0_seq2	L83	76.3614219637456
comp105504_c0_seq1	L1	77.9098365919225	comp65155_c0_seq1	L30	0	comp122586_c0_seq2	L54	45.541998338945	comp113041_c1_seq1	L83	76.3614219637456
comp119297_c0_seq1	L1	77.9098365919225	comp92256_c0_seq1	L30	0	comp128264_c0_seq1	L54	45.541998338945	comp114537_c0_seq1	L83	76.3614219637456
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comp124979_c0_seq1	L1	77.9098365919225	comp97001_c1_seq1	L30	0	comp119301_c0_seq1	L54	47.1554613673842	comp114915_c0_seq3	L83	76.3614219637456
comp100112_c0_seq1	L1	84.3976164790496	comp99610_c0_seq1	L30	0	comp88465_c0_seq1	L54	47.1554613673842	comp116081_c0_seq1	L83	76.3614219637456
comp100295_c0_seq3	L1	84.3976164790496	comp107773_c0_seq2	L30	1.61346302843928	comp100405_c0_seq1	L54	48.7689243958235	comp116306_c1_seq1	L83	76.3614219637456
comp106120_c0_seq1	L1	84.3976164790496	comp109999_c0_seq1	L30	1.61346302843928	comp100650_c0_seq1	L54	48.7689243958235	comp119323_c2_seq2	L83	76.3614219637456
comp114329_c0_seq1	L1	84.3976164790496	comp112143_c0_seq1	L30	1.61346302843928	comp100650_c1_seq1	L54	48.7689243958235	comp119782_c0_seq1	L83	76.3614219637456
comp124182_c0_seq1	L1	84.3976164790496	comp116963_c0_seq1	L30	1.61346302843928	comp102920_c0_seq1	L54	48.7689243958235	comp122377_c0_seq11	L83	76.3614219637456
comp128671_c0_seq1	L1	84.3976164790496	comp118804_c0_seq1	L30	1.61346302843928	comp103067_c0_seq2	L54	48.7689243958235	comp122832_c1_seq1	L83	76.3614219637456
comp132744_c1_seq1	L1	84.3976164790496	comp119519_c0_seq1	L30	1.61346302843928	comp105062_c1_seq1	L54	48.7689243958235	comp123315_c0_seq2	L83	76.3614219637456
comp86858_c0_seq1	L1	84.3976164790496	comp121564_c0_seq1	L30	1.61346302843928	comp111809_c0_seq1	L54	48.7689243958235	comp127519_c0_seq1	L83	76.3614219637456
comp99216_c0_seq1	L1	84.3976164790496	comp124194_c0_seq1	L30	1.61346302843928	comp112346_c0_seq1	L54	48.7689243958235	comp58121_c0_seq1	L83	76.3614219637456
comp100597_c0_seq1	L1	86.0110795074889	comp125642_c0_seq1	L30	1.61346302843928	comp113542_c0_seq1	L54	48.7689243958235	comp61188_c0_seq1	L83	76.3614219637456
comp101812_c0_seq1	L1	86.0110795074889	comp128594_c0_seq1	L30	1.61346302843928	comp126085_c0_seq2	L54	48.7689243958235	comp62507_c0_seq1	L83	76.3614219637456
comp103672_c0_seq1	L1	86.0110795074889	comp128831_c0_seq1	L30	1.61346302843928	comp126604_c0_seq1	L54	48.7689243958235	comp62708_c0_seq1	L83	76.3614219637456
comp110387_c0_seq1	L1	86.0110795074889	comp129660_c0_seq1	L30	1.61346302843928	comp130275_c0_seq1	L54	48.7689243958235	comp72227_c0_seq1	L83	76.3614219637456
comp111925_c0_seq1	L1	86.0110795074889	comp129748_c0_seq1	L30	1.61346302843928	comp130275_c1_seq1	L54	48.7689243958235	comp73007_c0_seq1	L83	76.3614219637456
comp113218_c0_seq1	L1	86.0110795074889	comp130360_c0_seq1	L30	1.61346302843928	comp91454_c1_seq1	L54	48.7689243958235	comp79222_c0_seq2	L83	76.3614219637456
comp115364_c0_seq1	L1	86.0110795074889	comp130991_c0_seq1	L30	1.61346302843928	comp103467_c0_seq1	L54	50.3823874242628	comp92313_c0_seq1	L83	76.3614219637456
comp120776_c0_seq1	L1	86.0110795074889	comp131017_c0_seq1	L30	1.61346302843928	comp105009_c0_seq1	L54	50.3823874242628	comp96976_c0_seq1	L83	76.3614219637456

comp121377_c0_seq1	L1	86.0110795074889	comp131507_c0_seq1	L30	1.61346302843928	comp109818_c0_seq1	L54	50.3823874242628	comp97581_c0_seq1	L83	76.3614219637456
comp131718_c0_seq1	L1	86.0110795074889	comp131936_c1_seq1	L30	1.61346302843928	comp111697_c0_seq1	L54	50.3823874242628	comp99063_c0_seq1	L83	76.3614219637456
comp83507_c0_seq1	L1	86.0110795074889	comp132651_c1_seq1	L30	1.61346302843928	comp121342_c0_seq1	L54	50.3823874242628	comp109574_c0_seq1	L83	77.9748849921849
comp95188_c0_seq1	L1	86.0110795074889	comp133277_c0_seq1	L30	1.61346302843928	comp130706_c0_seq1	L54	56.8701673113899	comp117329_c0_seq2	L83	77.9748849921849
comp104783_c0_seq2	L1	89.2413727944891	comp59696_c0_seq1	L30	1.61346302843928	comp76950_c0_seq1	L54	56.8701673113899	comp122225_c0_seq3	L83	77.9748849921849
comp100001_c0_seq1	L1	90.8548358229284	comp85194_c0_seq1	L30	1.61346302843928	comp92730_c0_seq1	L54	56.8701673113899	comp120613_c1_seq3	L83	87.7759371865855
comp101636_c0_seq1	L1	90.8548358229284	comp96606_c0_seq1	L30	1.61346302843928	comp94160_c0_seq1	L54	56.8701673113899	comp66123_c0_seq1	L83	87.7759371865855
comp105934_c0_seq1	L1	90.8548358229284	comp115255_c0_seq1	L30	4.84375631543943	comp110539_c0_seq1	L54	63.357947198517	comp74039_c0_seq1	L83	87.7759371865855
comp112937_c0_seq1	L1	90.8548358229284	comp119661_c0_seq1	L30	4.84375631543943	comp115779_c0_seq1	L54	63.357947198517	comp108855_c0_seq2	L83	91.0062304735856
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comp125696_c0_seq4	L1	90.8548358229284	comp103448_c0_seq1	L30	14.5927793547444	comp103973_c0_seq1	L54	68.211847559541	comp56543_c0_seq1	L83	91.0062304735856
comp89385_c0_seq1	L1	90.8548358229284	comp114594_c0_seq1	L30	14.5927793547444	comp108228_c0_seq1	L54	68.211847559541	comp87503_c0_seq1	L83	91.0062304735856
comp97268_c0_seq1	L1	90.8548358229284	comp125724_c0_seq1	L30	14.5927793547444	comp111375_c1_seq1	L54	68.211847559541	comp113324_c0_seq1	L83	92.6196935020249
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comp114801_c0_seq1	L1	92.4682988513676	comp133003_c2_seq1	L30	14.5927793547444	comp119410_c0_seq1	L54	68.211847559541	comp100895_c0_seq1	L83	97.4634498174643
comp115299_c0_seq1	L1	92.4682988513676	comp133099_c0_seq1	L30	14.5927793547444	comp119666_c0_seq1	L54	68.211847559541	comp103766_c0_seq1	L83	97.4634498174643
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comp122192_c0_seq1	L1	92.4682988513676	comp93162_c0_seq2	L30	14.5927793547444	comp127221_c0_seq1	L54	68.211847559541	comp107169_c0_seq1	L83	97.4634498174643
comp43190_c0_seq1	L1	92.4682988513676	comp96152_c0_seq1	L30	14.5927793547444	comp127606_c1_seq1	L54	68.211847559541	comp108701_c0_seq1	L83	97.4634498174643
comp55339_c0_seq1	L1	92.4682988513676	comp107138_c1_seq1	L30	17.8230726417446	comp129183_c0_seq1	L54	68.211847559541	comp108966_c0_seq1	L83	97.4634498174643
comp68871_c0_seq1	L1	92.4682988513676	comp110295_c1_seq1	L30	17.8230726417446	comp129954_c0_seq2	L54	68.211847559541	comp115247_c0_seq1	L83	97.4634498174643
comp69466_c0_seq1	L1	92.4682988513676	comp111993_c0_seq1	L30	17.8230726417446	comp132113_c0_seq1	L54	68.211847559541	comp116264_c0_seq2	L83	97.4634498174643
comp76152_c0_seq1	L1	92.4682988513676	comp112016_c0_seq3	L30	17.8230726417446	comp132480_c0_seq2	L54	68.211847559541	comp117917_c0_seq1	L83	97.4634498174643
comp85939_c0_seq1	L1	92.4682988513676	comp113773_c0_seq1	L30	17.8230726417446	comp87694_c1_seq1	L54	68.211847559541	comp129199_c0_seq14	L83	97.4634498174643
comp90104_c0_seq1	L1	92.4682988513676	comp116982_c0_seq1	L30	17.8230726417446	comp104509_c0_seq1	L54	69.8253105879802	comp129612_c2_seq1	L83	97.4634498174643
comp92896_c0_seq1	L1	92.4682988513676	comp123897_c0_seq1	L30	17.8230726417446	comp107369_c1_seq1	L54	69.8253105879802	comp54860_c0_seq1	L83	97.4634498174643

comp95318_c0_seq1	L1	92.4682988513676	comp123950_c0_seq1	L30	17.8230726417446	comp109819_c0_seq1	L54	69.8253105879802	comp60143_c0_seq1	L83	97.4634498174643
comp98851_c0_seq1	L1	92.4682988513676	comp130383_c0_seq2	L30	17.8230726417446	comp117812_c0_seq1	L54	69.8253105879802	comp67581_c0_seq1	L83	97.4634498174643
comp100626_c0_seq1	L2	0	comp79973_c0_seq1	L30	17.8230726417446	comp118195_c0_seq1	L54	69.8253105879802	comp72189_c0_seq1	L83	97.4634498174643
comp100948_c0_seq1	L2	0	comp90924_c0_seq1	L30	17.8230726417446	comp122042_c0_seq1	L54	69.8253105879802	comp72336_c0_seq1	L83	97.4634498174643
comp101075_c0_seq1	L2	0	comp94556_c0_seq1	L30	17.8230726417446	comp124629_c0_seq1	L54	69.8253105879802	comp74062_c0_seq1	L83	97.4634498174643
comp102022_c0_seq1	L2	0	comp99095_c0_seq1	L30	17.8230726417446	comp131105_c0_seq1	L54	69.8253105879802	comp84818_c0_seq1	L83	97.4634498174643
comp103612_c0_seq1	L2	0	comp131604_c0_seq1	L30	24.3108525288717	comp133876_c0_seq1	L54	69.8253105879802	comp84841_c0_seq1	L83	97.4634498174643
comp104000_c0_seq1	L2	0	comp121134_c0_seq1	L30	25.924315557311	comp46022_c0_seq1	L54	69.8253105879802	comp87302_c0_seq1	L83	97.4634498174643
comp107069_c0_seq1	L2	0	comp89509_c0_seq1	L30	25.924315557311	comp104450_c0_seq1	L54	76.3130904751073	comp87736_c0_seq1	L83	97.4634498174643
comp108021_c0_seq1	L2	0	comp109720_c0_seq1	L30	32.4120954444381	comp118786_c0_seq2	L54	76.3130904751073	comp88283_c0_seq2	L83	97.4634498174643
comp108160_c0_seq1	L2	0	comp111090_c0_seq2	L30	32.4120954444381	comp125610_c0_seq1	L54	76.3130904751073	comp93333_c0_seq1	L83	97.4634498174643
comp108906_c0_seq1	L2	0	comp129339_c0_seq1	L30	32.4120954444381	comp125610_c1_seq1	L54	76.3130904751073	comp94485_c0_seq1	L83	97.4634498174643
comp110976_c0_seq1	L2	0	comp129775_c0_seq1	L30	32.4120954444381	comp128782_c1_seq1	L54	76.3130904751073	comp96184_c0_seq2	L83	97.4634498174643
comp112892_c0_seq1	L2	0	comp90105_c0_seq1	L30	32.4120954444381	comp131845_c0_seq2	L54	76.3130904751073	comp97120_c0_seq1	L83	97.4634498174643
comp116260_c0_seq1	L2	0	comp128114_c0_seq2	L30	35.6423887314382	comp102221_c0_seq2	L55	0	comp98528_c0_seq1	L83	97.4634498174643
comp120117_c0_seq1	L2	0	comp131447_c0_seq1	L30	35.6423887314382	comp102792_c1_seq1	L55	0	comp98528_c2_seq1	L83	97.4634498174643
comp125876_c0_seq1	L2	0	comp105707_c0_seq1	L30	42.1301686185653	comp106779_c2_seq2	L55	0	comp99453_c0_seq1	L83	97.4634498174643
comp127736_c0_seq1	L2	0	comp118562_c0_seq1	L30	42.1301686185653	comp108634_c0_seq1	L55	0	comp114266_c1_seq1	L83	99.0769128459036
comp130277_c0_seq1	L2	0	comp68443_c0_seq1	L30	42.1301686185653	comp109518_c0_seq1	L55	0	comp117138_c0_seq3	L83	99.0769128459036
comp131351_c1_seq1	L2	0	comp115296_c0_seq1	L30	43.7436316470046	comp112712_c0_seq2	L55	0	comp86158_c0_seq1	L83	99.0769128459036
comp40064_c0_seq1	L2	0	comp108368_c0_seq1	L30	45.3570946754439	comp113009_c0_seq1	L55	0	comp92427_c0_seq1	L83	99.0769128459036
comp43369_c0_seq1	L2	0	comp121606_c0_seq1	L30	45.3570946754439	comp113040_c0_seq1	L55	0	comp93466_c0_seq1	L83	99.0769128459036
comp44473_c0_seq1	L2	0	comp122412_c1_seq1	L30	45.3570946754439	comp113246_c0_seq1	L55	0	comp97249_c0_seq1	L83	99.0769128459036
comp45776_c0_seq1	L2	0	comp122412_c2_seq1	L30	45.3570946754439	comp113879_c0_seq1	L55	0	comp122833_c1_seq1	L83	102.307206132904
comp46029_c0_seq1	L2	0	comp102124_c0_seq2	L30	46.9705577038832	comp114084_c0_seq1	L55	0	comp54242_c0_seq1	L83	102.307206132904
comp53383_c0_seq1	L2	0	comp105099_c0_seq2	L30	46.9705577038832	comp114201_c0_seq1	L55	0	comp78293_c0_seq1	L83	102.307206132904
comp57563_c0_seq1	L2	0	comp105578_c0_seq1	L30	46.9705577038832	comp115726_c0_seq1	L55	0	comp87042_c0_seq1	L83	102.307206132904
comp64992_c0_seq1	L2	0	comp105605_c0_seq1	L30	46.9705577038832	comp116482_c0_seq2	L55	0	comp87588_c0_seq1	L83	102.307206132904
comp73871_c0_seq1	L2	0	comp106012_c1_seq1	L30	46.9705577038832	comp116867_c0_seq2	L55	0	comp87986_c0_seq1	L83	102.307206132904

comp73902_c0_seq1	L2	0	comp106889_c0_seq1	L30	46.9705577038832	comp118321_c0_seq1	L55	0	comp88104_c0_seq1	L83	102.307206132904
comp77671_c0_seq1	L2	0	comp110676_c0_seq1	L30	46.9705577038832	comp118937_c0_seq1	L55	0	comp90135_c0_seq1	L83	102.307206132904
comp78493_c0_seq1	L2	0	comp118138_c0_seq1	L30	46.9705577038832	comp121246_c0_seq2	L55	0	comp94321_c0_seq2	L83	102.307206132904
comp80969_c0_seq1	L2	0	comp122961_c0_seq1	L30	46.9705577038832	comp122563_c0_seq1	L55	0	comp95990_c0_seq1	L83	102.307206132904
comp84640_c0_seq1	L2	0	comp122961_c1_seq1	L30	46.9705577038832	comp123969_c0_seq1	L55	0	comp79623_c0_seq1	L83	103.920669161343
comp85143_c0_seq1	L2	0	comp123311_c0_seq1	L30	46.9705577038832	comp125496_c0_seq2	L55	0	comp80570_c0_seq1	L83	103.920669161343
comp86979_c0_seq1	L2	0	comp123522_c0_seq1	L30	46.9705577038832	comp126851_c0_seq1	L55	0	comp96334_c0_seq1	L83	103.920669161343
comp9078_c0_seq1	L2	0	comp123522_c1_seq1	L30	46.9705577038832	comp127082_c2_seq5	L55	0	comp61366_c0_seq1	L83	105.534132189782
comp93115_c0_seq1	L2	0	comp123522_c2_seq1	L30	46.9705577038832	comp127390_c0_seq9	L55	0	comp67241_c0_seq1	L83	105.534132189782
comp93775_c0_seq1	L2	0	comp124753_c0_seq1	L30	46.9705577038832	comp128423_c0_seq1	L55	0	comp102699_c0_seq1	L84	0
comp94618_c0_seq1	L2	0	comp125229_c0_seq1	L30	46.9705577038832	comp129106_c0_seq1	L55	0	comp107414_c0_seq1	L84	0
comp95375_c0_seq1	L2	0	comp127576_c0_seq1	L30	46.9705577038832	comp129427_c0_seq1	L55	0	comp110154_c0_seq1	L84	0
comp97089_c0_seq1	L2	0	comp127796_c0_seq2	L30	46.9705577038832	comp131724_c0_seq1	L55	0	comp108407_c0_seq1	L84	1.61346302843928
comp97262_c0_seq1	L2	0	comp127796_c1_seq1	L30	46.9705577038832	comp132843_c0_seq1	L55	0	comp108756_c0_seq1	L84	1.61346302843928
comp99873_c0_seq1	L2	0	comp128254_c0_seq2	L30	46.9705577038832	comp133994_c0_seq1	L55	0	comp109640_c0_seq1	L84	1.61346302843928
comp96308_c0_seq1	L2	1.61346302843928	comp62929_c0_seq1	L30	46.9705577038832	comp28353_c0_seq1	L55	0	comp112409_c0_seq1	L84	1.61346302843928
comp115525_c0_seq1	L2	3.22692605687856	comp64285_c1_seq1	L30	46.9705577038832	comp28526_c1_seq1	L55	0	comp121009_c0_seq1	L84	1.61346302843928
comp67151_c0_seq1	L2	3.22692605687856	comp71562_c0_seq1	L30	46.9705577038832	comp56166_c0_seq1	L55	0	comp123587_c0_seq1	L84	1.61346302843928
comp79086_c0_seq1	L2	3.22692605687856	comp74002_c0_seq1	L30	46.9705577038832	comp59047_c0_seq1	L55	0	comp82192_c0_seq1	L84	1.61346302843928
comp95636_c0_seq1	L2	3.22692605687856	comp76923_c0_seq1	L30	46.9705577038832	comp63041_c0_seq1	L55	0	comp96975_c0_seq1	L84	1.61346302843928
comp99059_c0_seq2	L2	3.22692605687856	comp78495_c0_seq1	L30	46.9705577038832	comp81867_c0_seq5	L55	0	comp78762_c0_seq1	L84	11.4145152228399
comp106289_c0_seq1	L2	4.84038908531784	comp94044_c0_seq1	L30	46.9705577038832	comp90679_c0_seq1	L55	0	comp92334_c0_seq1	L84	14.64480850984
comp111967_c1_seq1	L2	4.84038908531784	comp95335_c0_seq1	L30	46.9705577038832	comp91132_c0_seq1	L55	0	comp112329_c0_seq1	L84	22.7803685207057
comp122534_c0_seq1	L2	4.84038908531784	comp98828_c1_seq1	L30	46.9705577038832	comp95175_c0_seq1	L55	0	comp115552_c0_seq1	L84	22.7803685207057
comp128894_c2_seq1	L2	4.84038908531784	comp102998_c0_seq1	L30	48.5840207323224	comp95755_c0_seq1	L55	0	comp118155_c0_seq1	L84	22.7803685207057
comp133466_c0_seq1	L2	4.84038908531784	comp104982_c0_seq2	L30	48.5840207323224	comp95865_c0_seq1	L55	0	comp121126_c0_seq1	L84	22.7803685207057
comp62794_c0_seq1	L2	4.84038908531784	comp105049_c1_seq1	L30	48.5840207323224	comp71154_c0_seq1	L55	3.23029328700015	comp127944_c0_seq1	L84	22.7803685207057
comp81687_c0_seq1	L2	4.84038908531784	comp111439_c0_seq2	L30	48.5840207323224	comp78340_c0_seq1	L55	3.23029328700015	comp52902_c0_seq1	L84	22.7803685207057
comp89662_c0_seq1	L2	4.84038908531784	comp111439_c1_seq1	L30	48.5840207323224	comp102055_c0_seq1	L55	4.84375631543943	comp84485_c0_seq1	L84	22.7803685207057

comp96418_c0_seq2	L2	4.84038908531784	comp117958_c0_seq1	L30	48.5840207323224	comp102290_c0_seq1	L55	4.84375631543943	comp87807_c0_seq1	L84	22.7803685207057
comp106167_c0_seq1	L2	9.69428944634177	comp118098_c1_seq1	L30	48.5840207323224	comp112756_c2_seq1	L55	4.84375631543943	comp91963_c0_seq1	L84	22.7803685207057
comp108965_c0_seq1	L2	9.69428944634177	comp118730_c1_seq1	L30	48.5840207323224	comp116472_c0_seq1	L55	4.84375631543943	comp92308_c0_seq1	L84	22.7803685207057
comp114615_c1_seq1	L2	9.69428944634177	comp126239_c0_seq1	L30	48.5840207323224	comp117756_c1_seq1	L55	4.84375631543943	comp114521_c0_seq1	L84	24.393831549145
comp114923_c0_seq2	L2	9.69428944634177	comp132172_c0_seq1	L30	48.5840207323224	comp119050_c0_seq1	L55	4.84375631543943	comp126928_c0_seq1	L84	24.393831549145
comp116217_c0_seq1	L2	9.69428944634177	comp41526_c0_seq1	L30	48.5840207323224	comp120620_c0_seq1	L55	4.84375631543943	comp126928_c1_seq1	L84	24.393831549145
comp121931_c0_seq3	L2	9.69428944634177	comp93593_c0_seq1	L30	48.5840207323224	comp123291_c0_seq1	L55	4.84375631543943	comp72409_c0_seq1	L84	24.393831549145
comp125330_c1_seq1	L2	9.69428944634177	comp103327_c0_seq1	L30	60.0723289667834	comp128536_c0_seq1	L55	4.84375631543943	comp74400_c1_seq1	L84	24.393831549145
comp96453_c0_seq1	L2	9.69428944634177	comp106651_c2_seq2	L30	60.0723289667834	comp128568_c0_seq1	L55	4.84375631543943	comp103169_c0_seq1	L84	26.0072945775843
comp96666_c0_seq1	L2	9.69428944634177	comp113244_c0_seq1	L30	60.0723289667834	comp66801_c0_seq1	L55	4.84375631543943	comp131713_c0_seq1	L84	26.0072945775843
comp100003_c0_seq1	L2	14.5481898073657	comp111033_c0_seq1	L30	61.6857919952227	comp116612_c1_seq1	L55	12.9793163263051	comp93868_c0_seq1	L84	26.0072945775843
comp100941_c0_seq1	L2	14.5481898073657	comp128296_c0_seq1	L30	61.6857919952227	comp123125_c0_seq1	L55	12.9793163263051	comp95149_c0_seq1	L84	26.0072945775843
comp101677_c0_seq1	L2	14.5481898073657	comp113470_c1_seq1	L30	66.5396923562467	comp123200_c0_seq1	L55	12.9793163263051	comp99733_c0_seq1	L84	26.0072945775843
comp106255_c0_seq1	L2	14.5481898073657	comp117398_c0_seq1	L30	66.5396923562467	comp123541_c0_seq1	L55	12.9793163263051	comp63788_c0_seq1	L84	30.8611949386082
comp109004_c1_seq1	L2	14.5481898073657	comp120385_c1_seq1	L30	66.5396923562467	comp128223_c2_seq1	L55	12.9793163263051	comp94201_c0_seq1	L84	30.8611949386082
comp118938_c0_seq3	L2	14.5481898073657	comp121986_c0_seq1	L30	66.5396923562467	comp128626_c0_seq1	L55	12.9793163263051	comp109258_c0_seq1	L84	35.7150952996322
comp65232_c0_seq2	L2	14.5481898073657	comp125635_c0_seq1	L30	66.5396923562467	comp131232_c0_seq1	L55	12.9793163263051	comp119512_c0_seq1	L84	35.7150952996322
comp90992_c0_seq1	L2	14.5481898073657	comp132053_c0_seq1	L30	66.5396923562467	comp133376_c0_seq1	L55	12.9793163263051	comp122931_c0_seq1	L84	35.7150952996322
comp94028_c1_seq3	L2	14.5481898073657	comp133049_c0_seq1	L30	66.5396923562467	comp133744_c0_seq1	L55	12.9793163263051	comp126525_c0_seq1	L84	35.7150952996322
comp111167_c0_seq1	L2	16.161652835805	comp40508_c0_seq1	L30	66.5396923562467	comp75826_c0_seq1	L55	12.9793163263051	comp133686_c1_seq1	L84	35.7150952996322
comp113670_c0_seq1	L2	16.161652835805	comp79288_c0_seq1	L30	66.5396923562467	comp85568_c0_seq1	L55	12.9793163263051	comp78667_c0_seq1	L84	35.7150952996322
comp117977_c0_seq1	L2	16.161652835805	comp97713_c0_seq1	L30	66.5396923562467	comp95382_c1_seq1	L55	12.9793163263051	comp95061_c0_seq1	L84	35.7150952996322
comp105867_c0_seq1	L3	0	comp106813_c0_seq1	L30	68.1531553846859	comp95499_c0_seq1	L55	12.9793163263051	comp110468_c0_seq1	L84	37.3285583280714
comp81398_c0_seq1	L3	0	comp132583_c1_seq1	L30	68.1531553846859	comp127270_c0_seq1	L55	14.5927793547444	comp114616_c0_seq1	L84	37.3285583280714
comp108586_c0_seq1	L3	1.61346302843928	comp68593_c0_seq1	L30	68.1531553846859	comp91734_c0_seq1	L55	14.5927793547444	comp117617_c2_seq1	L84	37.3285583280714
comp110202_c1_seq1	L3	1.61346302843928	comp77774_c0_seq1	L30	68.1531553846859	comp92951_c0_seq1	L55	14.5927793547444	comp104967_c0_seq1	L84	38.9420213565107
comp111563_c0_seq1	L3	1.61346302843928	comp130126_c0_seq1	L30	71.3834486716861	comp112307_c0_seq1	L55	16.2062423831837	comp111327_c0_seq1	L84	38.9420213565107
comp120193_c0_seq1	L3	1.61346302843928	comp132162_c0_seq1	L30	71.3834486716861	comp99668_c0_seq1	L55	16.2062423831837	comp102256_c0_seq1	L84	40.55548438495
comp48548_c0_seq1	L3	1.61346302843928	comp107613_c0_seq1	L30	72.9969117001254	comp130688_c0_seq2	L55	17.819705411623	comp105623_c0_seq1	L84	40.55548438495

comp69212_c0_seq1	L3	1.61346302843928	comp112886_c1_seq3	L30	72.9969117001254	comp89454_c0_seq1	L55	17.819705411623	comp117311_c0_seq2	L84	40.55548438495
comp88947_c0_seq1	L3	1.61346302843928	comp117957_c0_seq1	L30	72.9969117001254	comp108946_c0_seq1	L55	19.4331684400622	comp117463_c0_seq1	L84	40.55548438495
comp101432_c0_seq1	L3	13.1017712629003	comp119560_c0_seq1	L30	72.9969117001254	comp119953_c1_seq1	L55	19.4331684400622	comp121427_c0_seq2	L84	40.55548438495
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comp123725_c0_seq1	L3	13.1017712629003	comp123707_c1_seq1	L30	72.9969117001254	comp126392_c0_seq1	L55	19.4331684400622	comp126165_c2_seq1	L84	40.55548438495
comp72248_c0_seq1	L3	13.1017712629003	comp128260_c1_seq2	L30	72.9969117001254	comp109092_c0_seq1	L55	22.6634617270624	comp130523_c0_seq1	L84	40.55548438495
comp100008_c2_seq3	L3	14.7152342913396	comp72429_c0_seq1	L30	72.9969117001254	comp104797_c0_seq1	L55	25.8937550140626	comp130741_c0_seq1	L84	40.55548438495
comp100685_c2_seq1	L3	14.7152342913396	comp75483_c0_seq1	L30	72.9969117001254	comp117319_c0_seq1	L55	25.8937550140626	comp133557_c0_seq1	L84	40.55548438495
comp102301_c0_seq1	L3	14.7152342913396	comp81948_c0_seq1	L30	72.9969117001254	comp118243_c1_seq1	L55	25.8937550140626	comp83637_c0_seq1	L84	40.55548438495
comp104033_c0_seq1	L3	14.7152342913396	comp84492_c0_seq1	L30	72.9969117001254	comp119887_c1_seq1	L55	25.8937550140626	comp85490_c0_seq1	L84	40.55548438495
comp104489_c0_seq4	L3	14.7152342913396	comp89290_c1_seq1	L30	72.9969117001254	comp128320_c0_seq1	L55	25.8937550140626	comp85730_c1_seq1	L84	40.55548438495
comp105611_c0_seq1	L3	14.7152342913396	comp89947_c0_seq1	L30	72.9969117001254	comp130940_c0_seq1	L55	25.8937550140626	comp89670_c1_seq1	L84	40.55548438495
comp105839_c0_seq1	L3	14.7152342913396	comp96820_c0_seq1	L30	72.9969117001254	comp131636_c0_seq1	L55	25.8937550140626	comp96752_c0_seq1	L84	40.55548438495
comp106033_c0_seq2	L3	14.7152342913396	comp97072_c0_seq1	L30	72.9969117001254	comp132092_c0_seq1	L55	25.8937550140626	comp103070_c0_seq1	L84	42.1689474133893
comp106700_c0_seq1	L3	14.7152342913396	comp110637_c0_seq1	L30	74.6103747285647	comp91891_c0_seq1	L55	25.8937550140626	comp107010_c0_seq1	L84	42.1689474133893
comp108623_c0_seq1	L3	14.7152342913396	comp121783_c1_seq1	L30	74.6103747285647	comp108461_c0_seq1	L55	29.1240483010627	comp109541_c2_seq1	L84	42.1689474133893
comp110658_c0_seq1	L3	14.7152342913396	comp122340_c0_seq1	L30	74.6103747285647	comp116328_c0_seq2	L55	29.1240483010627	comp105782_c0_seq1	L84	43.7824104418285
comp110845_c0_seq2	L3	14.7152342913396	comp122580_c0_seq1	L30	74.6103747285647	comp120712_c0_seq1	L55	29.1240483010627	comp110696_c0_seq1	L84	43.7824104418285
comp111255_c0_seq1	L3	14.7152342913396	comp132396_c0_seq1	L30	74.6103747285647	comp129129_c0_seq1	L55	29.1240483010627	comp117846_c0_seq1	L84	43.7824104418285
comp111611_c0_seq1	L3	14.7152342913396	comp100171_c0_seq2	L30	86.0986829630257	comp132236_c1_seq1	L55	29.1240483010627	comp118400_c0_seq1	L84	43.7824104418285
comp111625_c0_seq3	L3	14.7152342913396	comp100429_c0_seq1	L30	86.0986829630257	comp73235_c0_seq1	L55	29.1240483010627	comp61925_c0_seq1	L84	43.7824104418285
comp114963_c0_seq1	L3	14.7152342913396	comp102114_c0_seq1	L30	86.0986829630257	comp96144_c2_seq1	L55	29.1240483010627	comp104705_c0_seq1	L84	47.0127037288287
comp115794_c0_seq1	L3	14.7152342913396	comp60441_c0_seq1	L30	86.0986829630257	comp96859_c0_seq1	L55	29.1240483010627	comp106829_c0_seq1	L84	47.0127037288287
comp117663_c0_seq1	L3	14.7152342913396	comp64878_c0_seq1	L30	86.0986829630257	comp97194_c0_seq1	L55	29.1240483010627	comp109539_c0_seq1	L84	47.0127037288287
comp118610_c0_seq1	L3	14.7152342913396	comp71811_c0_seq1	L30	86.0986829630257	comp129267_c0_seq1	L55	30.737511329502	comp114102_c0_seq1	L84	47.0127037288287
comp120258_c1_seq3	L3	14.7152342913396	comp97061_c0_seq1	L30	86.0986829630257	comp129556_c0_seq1	L55	30.737511329502	comp121386_c0_seq1	L84	47.0127037288287
comp122935_c0_seq1	L3	14.7152342913396	comp97127_c0_seq1	L30	86.0986829630257	comp108838_c0_seq1	L55	32.3509743579413	comp122121_c0_seq1	L84	47.0127037288287
comp124263_c0_seq1	L3	14.7152342913396	comp103080_c5_seq1	L30	87.712145991465	comp110459_c0_seq1	L55	32.3509743579413	comp126882_c0_seq1	L84	47.0127037288287
comp124612_c0_seq1	L3	14.7152342913396	comp104523_c0_seq1	L30	87.712145991465	comp128739_c0_seq1	L55	32.3509743579413	comp130566_c1_seq1	L84	47.0127037288287

comp124664_c0_seq1	L3	14.7152342913396	comp106994_c0_seq1	L30	87.712145991465	comp133158_c0_seq1	L55	32.3509743579413	comp95007_c0_seq1	L84	47.0127037288287
comp124812_c0_seq1	L3	14.7152342913396	comp107665_c0_seq1	L30	87.712145991465	comp118475_c0_seq1	L55	37.2048747189652	comp134032_c0_seq1	L84	48.626166757268
comp124812_c1_seq1	L3	14.7152342913396	comp112821_c0_seq1	L30	87.712145991465	comp95738_c0_seq1	L55	37.2048747189652	comp100898_c0_seq1	L84	53.4800671182919
comp124812_c2_seq1	L3	14.7152342913396	comp116368_c0_seq1	L30	87.712145991465	comp129676_c0_seq1	L55	38.8183377474045	comp102101_c2_seq1	L84	53.4800671182919
comp124812_c3_seq1	L3	14.7152342913396	comp119105_c0_seq1	L30	87.712145991465	comp118392_c0_seq1	L55	43.6722381084284	comp102683_c0_seq1	L84	53.4800671182919
comp126000_c0_seq1	L3	14.7152342913396	comp121000_c0_seq3	L30	87.712145991465	comp83756_c1_seq2	L55	43.6722381084284	comp105791_c0_seq1	L84	53.4800671182919
comp127855_c0_seq1	L3	14.7152342913396	comp121496_c0_seq1	L30	87.712145991465	comp104819_c0_seq1	L55	45.2857011368677	comp106320_c0_seq1	L84	53.4800671182919
comp128854_c0_seq1	L3	14.7152342913396	comp121679_c0_seq1	L30	87.712145991465	comp108618_c0_seq1	L55	45.2857011368677	comp106594_c0_seq1	L84	53.4800671182919
comp132594_c0_seq1	L3	14.7152342913396	comp122147_c0_seq1	L30	87.712145991465	comp108716_c0_seq1	L55	45.2857011368677	comp107620_c0_seq1	L84	53.4800671182919
comp74682_c0_seq1	L3	14.7152342913396	comp123067_c0_seq1	L30	87.712145991465	comp114695_c0_seq1	L55	45.2857011368677	comp109970_c0_seq1	L84	53.4800671182919
comp75576_c0_seq1	L3	14.7152342913396	comp74239_c0_seq1	L30	87.712145991465	comp115969_c0_seq1	L55	45.2857011368677	comp110054_c0_seq1	L84	53.4800671182919
comp79142_c0_seq1	L3	14.7152342913396	comp98946_c0_seq1	L30	87.712145991465	comp117473_c0_seq1	L55	45.2857011368677	comp111232_c0_seq1	L84	53.4800671182919
comp79142_c1_seq1	L3	14.7152342913396	comp99618_c0_seq1	L30	87.712145991465	comp118949_c0_seq1	L55	45.2857011368677	comp112503_c0_seq1	L84	53.4800671182919
comp80974_c0_seq1	L3	14.7152342913396	comp102377_c0_seq1	L30	89.3256090199042	comp120599_c3_seq1	L55	45.2857011368677	comp113747_c2_seq1	L84	53.4800671182919
comp82281_c0_seq1	L3	14.7152342913396	comp110484_c1_seq1	L30	89.3256090199042	comp122600_c0_seq1	L55	45.2857011368677	comp113782_c0_seq1	L84	53.4800671182919
comp83495_c0_seq1	L3	14.7152342913396	comp120977_c0_seq1	L30	89.3256090199042	comp131557_c1_seq2	L55	45.2857011368677	comp114009_c1_seq1	L84	53.4800671182919
comp85763_c0_seq1	L3	14.7152342913396	comp121420_c0_seq1	L30	89.3256090199042	comp131745_c0_seq2	L55	45.2857011368677	comp114423_c0_seq1	L84	53.4800671182919
comp86648_c0_seq1	L3	14.7152342913396	comp121420_c1_seq1	L30	89.3256090199042	comp133813_c0_seq1	L55	45.2857011368677	comp115396_c0_seq1	L84	53.4800671182919
comp91877_c0_seq1	L3	14.7152342913396	comp121726_c0_seq2	L30	89.3256090199042	comp96626_c1_seq2	L55	45.2857011368677	comp115459_c0_seq1	L84	53.4800671182919
comp91977_c0_seq1	L3	14.7152342913396	comp129168_c0_seq1	L30	89.3256090199042	comp114524_c0_seq1	L55	50.1396014978916	comp117162_c0_seq1	L84	53.4800671182919
comp93056_c0_seq1	L3	14.7152342913396	comp131327_c0_seq2	L30	89.3256090199042	comp117438_c0_seq1	L55	50.1396014978916	comp118888_c0_seq1	L84	53.4800671182919
comp96287_c0_seq1	L3	14.7152342913396	comp43136_c0_seq2	L30	89.3256090199042	comp127313_c0_seq1	L55	50.1396014978916	comp118966_c1_seq1	L84	53.4800671182919
comp96712_c0_seq2	L3	14.7152342913396	comp83381_c0_seq1	L30	89.3256090199042	comp63027_c0_seq1	L55	50.1396014978916	comp119089_c0_seq1	L84	53.4800671182919
comp97012_c0_seq1	L3	14.7152342913396	comp84225_c1_seq1	L30	89.3256090199042	comp80576_c0_seq1	L55	50.1396014978916	comp121612_c0_seq1	L84	53.4800671182919
comp97131_c0_seq1	L3	14.7152342913396	comp84267_c0_seq1	L30	89.3256090199042	comp102766_c0_seq1	L55	53.3698947848918	comp121755_c0_seq1	L84	53.4800671182919
comp104861_c1_seq1	L4	0	comp88937_c0_seq1	L30	89.3256090199042	comp109590_c0_seq1	L55	53.3698947848918	comp122872_c1_seq1	L84	53.4800671182919
comp127560_c0_seq2	L4	0	comp93763_c0_seq1	L30	89.3256090199042	comp112838_c0_seq1	L55	53.3698947848918	comp126068_c0_seq2	L84	53.4800671182919
comp94323_c0_seq1	L4	0	comp94861_c0_seq1	L30	89.3256090199042	comp114533_c0_seq1	L55	53.3698947848918	comp126285_c0_seq1	L84	53.4800671182919
comp115433_c0_seq1	L4	1.61346302843928	comp100775_c0_seq1	L30	90.9390720483435	comp114970_c0_seq1	L55	53.3698947848918	comp127006_c0_seq1	L84	53.4800671182919

comp82865_c0_seq1	L4	1.61346302843928	comp101376_c0_seq1	L30	90.9390720483435	comp121331_c1_seq1	L55	53.3698947848918	comp128957_c0_seq2	L84	53.4800671182919
comp88570_c0_seq1	L4	1.61346302843928	comp107078_c0_seq1	L30	90.9390720483435	comp123620_c0_seq1	L55	53.3698947848918	comp129399_c0_seq1	L84	53.4800671182919
comp132374_c0_seq1	L4	11.4145152228399	comp109019_c0_seq1	L30	90.9390720483435	comp124432_c0_seq1	L55	53.3698947848918	comp131520_c1_seq1	L84	53.4800671182919
comp70996_c0_seq1	L4	14.64480850984	comp110569_c0_seq1	L30	90.9390720483435	comp124432_c2_seq1	L55	53.3698947848918	comp133206_c0_seq2	L84	53.4800671182919
comp70996_c1_seq1	L4	14.64480850984	comp115753_c0_seq1	L30	90.9390720483435	comp126799_c0_seq1	L55	53.3698947848918	comp133472_c0_seq1	L84	53.4800671182919
comp76339_c0_seq1	L4	14.64480850984	comp119818_c0_seq1	L30	90.9390720483435	comp108291_c0_seq1	L55	63.1709469792924	comp41190_c0_seq1	L84	53.4800671182919
comp121444_c0_seq1	L4	21.1325883969671	comp125734_c0_seq1	L30	90.9390720483435	comp126265_c0_seq1	L55	63.1709469792924	comp44548_c0_seq1	L84	53.4800671182919
comp133534_c0_seq1	L4	22.7460514254064	comp127220_c0_seq1	L30	90.9390720483435	comp79384_c0_seq1	L55	63.1709469792924	comp52539_c0_seq1	L84	53.4800671182919
comp111883_c0_seq1	L4	24.3595144538457	comp127554_c1_seq1	L30	90.9390720483435	comp112541_c0_seq1	L55	66.4012402662925	comp72924_c0_seq1	L84	53.4800671182919
comp131334_c0_seq1	L4	24.3595144538457	comp67195_c0_seq1	L30	90.9390720483435	comp113780_c1_seq1	L55	71.2551406273165	comp77862_c0_seq1	L84	53.4800671182919
comp100090_c0_seq1	L4	27.5898077408458	comp79042_c2_seq1	L30	90.9390720483435	comp114090_c0_seq1	L55	71.2551406273165	comp83700_c0_seq1	L84	53.4800671182919
comp68762_c0_seq1	L4	35.7253677517115	comp87984_c0_seq1	L30	90.9390720483435	comp115885_c0_seq1	L55	71.2551406273165	comp85082_c0_seq1	L84	53.4800671182919
comp102955_c0_seq1	L4	40.5792681127355	comp89582_c0_seq1	L30	90.9390720483435	comp133950_c0_seq1	L55	71.2551406273165	comp85300_c0_seq1	L84	53.4800671182919
comp113837_c0_seq1	L4	40.5792681127355	comp90144_c0_seq1	L30	90.9390720483435	comp130201_c0_seq3	L55	77.7429205144436	comp94429_c0_seq2	L84	53.4800671182919
comp90141_c0_seq1	L4	40.5792681127355	comp90465_c1_seq2	L30	90.9390720483435	comp62933_c0_seq1	L55	77.7429205144436	comp95875_c0_seq1	L84	53.4800671182919
comp90141_c1_seq1	L4	40.5792681127355	comp90505_c0_seq4	L30	90.9390720483435	comp63125_c0_seq1	L55	77.7429205144436	comp96329_c0_seq1	L84	53.4800671182919
comp99616_c0_seq1	L4	40.5792681127355	comp95248_c0_seq1	L30	90.9390720483435	comp89544_c0_seq2	L55	77.7429205144436	comp98847_c0_seq2	L84	53.4800671182919
comp105480_c0_seq1	L4	42.1927311411748	comp96699_c0_seq1	L30	90.9390720483435	comp91012_c0_seq1	L55	77.7429205144436	comp99526_c0_seq1	L84	53.4800671182919
comp108462_c0_seq1	L4	42.1927311411748	comp100879_c0_seq1	L31	0	comp111008_c0_seq1	L55	79.3563835428829	comp99650_c0_seq1	L84	53.4800671182919
comp110022_c0_seq1	L4	42.1927311411748	comp102968_c0_seq1	L31	0	comp113122_c0_seq1	L55	79.3563835428829	comp103214_c0_seq1	L84	63.2811193126925
comp112502_c0_seq1	L4	42.1927311411748	comp105285_c0_seq1	L31	0	comp119030_c0_seq1	L55	79.3563835428829	comp108692_c0_seq1	L84	63.2811193126925
comp113709_c0_seq1	L4	42.1927311411748	comp105384_c0_seq1	L31	0	comp121014_c0_seq1	L55	79.3563835428829	comp122070_c0_seq2	L84	63.2811193126925
comp114402_c2_seq1	L4	42.1927311411748	comp128646_c1_seq8	L31	0	comp121014_c1_seq1	L55	79.3563835428829	comp122659_c0_seq2	L84	63.2811193126925
comp119485_c0_seq2	L4	42.1927311411748	comp31402_c0_seq1	L31	0	comp123524_c0_seq1	L55	79.3563835428829	comp28731_c0_seq1	L84	63.2811193126925
comp123286_c2_seq1	L4	42.1927311411748	comp48308_c0_seq1	L31	0	comp127991_c0_seq1	L55	79.3563835428829	comp66217_c0_seq1	L84	63.2811193126925
comp124010_c0_seq1	L4	42.1927311411748	comp52298_c0_seq1	L31	0	comp123751_c0_seq1	L55	87.4919435537486	comp72983_c0_seq1	L84	63.2811193126925
comp124757_c1_seq1	L4	42.1927311411748	comp60901_c0_seq1	L31	0	comp133867_c2_seq1	L55	87.4919435537486	comp75160_c0_seq1	L84	63.2811193126925
comp128424_c0_seq2	L4	42.1927311411748	comp68599_c0_seq1	L31	0	comp100590_c0_seq1	L55	89.1054065821878	comp77942_c0_seq1	L84	63.2811193126925
comp128597_c0_seq16	L4	42.1927311411748	comp74050_c0_seq1	L31	0	comp108058_c0_seq1	L55	89.1054065821878	comp89866_c1_seq1	L84	63.2811193126925



comp129867_c0_seq1	L4	42.1927311411748	comp89742_c0_seq2	L31	0	comp109221_c0_seq1	L55	89.1054065821878	comp89871_c0_seq2	L84	63.2811193126925
comp131970_c2_seq2	L4	42.1927311411748	comp93686_c0_seq1	L31	0	comp109651_c1_seq1	L55	89.1054065821878	comp99051_c1_seq1	L84	63.2811193126925
comp25747_c0_seq1	L4	42.1927311411748	comp102572_c0_seq1	L31	1.61346302843928	comp115960_c2_seq1	L55	89.1054065821878	comp99101_c0_seq1	L84	63.2811193126925
comp62036_c0_seq1	L4	42.1927311411748	comp105240_c0_seq1	L31	1.61346302843928	comp129853_c0_seq1	L55	89.1054065821878	comp18648_c0_seq1	L85	0
comp62378_c0_seq1	L4	42.1927311411748	comp106886_c1_seq1	L31	1.61346302843928	comp72059_c0_seq1	L55	89.1054065821878	comp25964_c0_seq1	L85	0
comp81386_c0_seq1	L4	42.1927311411748	comp109096_c1_seq1	L31	1.61346302843928	comp8579_c0_seq1	L55	89.1054065821878	comp40029_c0_seq1	L85	0
comp83885_c1_seq1	L4	42.1927311411748	comp110410_c0_seq1	L31	1.61346302843928	comp89439_c1_seq1	L55	89.1054065821878	comp65562_c0_seq1	L85	0
comp84881_c0_seq1	L4	42.1927311411748	comp110584_c0_seq1	L31	1.61346302843928	comp112682_c0_seq1	L55	92.335699869188	comp86787_c0_seq2	L85	0
comp86694_c0_seq1	L4	42.1927311411748	comp112296_c0_seq1	L31	1.61346302843928	comp114167_c0_seq1	L55	92.335699869188	comp93658_c0_seq1	L85	0
comp88852_c0_seq1	L4	42.1927311411748	comp113640_c0_seq1	L31	1.61346302843928	comp100417_c0_seq2	L55	97.1896002302119	comp96792_c0_seq1	L85	0
comp88916_c0_seq1	L4	42.1927311411748	comp118788_c1_seq1	L31	1.61346302843928	comp115241_c0_seq1	L55	97.1896002302119	comp102021_c0_seq2	L85	1.61346302843928
comp92317_c0_seq1	L4	42.1927311411748	comp122327_c0_seq1	L31	1.61346302843928	comp115388_c0_seq1	L55	97.1896002302119	comp104958_c0_seq1	L85	1.61346302843928
comp95832_c0_seq1	L4	42.1927311411748	comp124332_c1_seq1	L31	1.61346302843928	comp131987_c1_seq1	L55	97.1896002302119	comp105543_c0_seq1	L85	1.61346302843928
comp99318_c0_seq1	L4	42.1927311411748	comp125732_c0_seq1	L31	1.61346302843928	comp66055_c0_seq1	L55	97.1896002302119	comp105598_c0_seq2	L85	1.61346302843928
comp128213_c0_seq1	L4	43.806194169614	comp126718_c1_seq1	L31	1.61346302843928	comp99155_c0_seq1	L55	97.1896002302119	comp108836_c0_seq1	L85	1.61346302843928
comp131710_c0_seq2	L4	43.806194169614	comp130071_c0_seq1	L31	1.61346302843928	comp106105_c0_seq1	L55	98.8030632586512	comp110315_c0_seq1	L85	1.61346302843928
comp40328_c0_seq1	L4	43.806194169614	comp131081_c1_seq1	L31	1.61346302843928	comp111413_c0_seq1	L55	98.8030632586512	comp115973_c0_seq2	L85	1.61346302843928
comp90840_c0_seq1	L4	43.806194169614	comp132826_c1_seq1	L31	1.61346302843928	comp111854_c1_seq1	L55	98.8030632586512	comp119311_c0_seq2	L85	1.61346302843928
comp127184_c0_seq2	L4	45.4196571980533	comp28029_c0_seq1	L31	1.61346302843928	comp111854_c2_seq1	L55	98.8030632586512	comp120002_c0_seq1	L85	1.61346302843928
comp75297_c0_seq1	L4	45.4196571980533	comp60124_c0_seq1	L31	1.61346302843928	comp114577_c0_seq1	L55	98.8030632586512	comp124327_c6_seq1	L85	1.61346302843928
comp83493_c0_seq1	L4	45.4196571980533	comp74543_c0_seq1	L31	1.61346302843928	comp115926_c3_seq1	L55	98.8030632586512	comp126983_c1_seq1	L85	1.61346302843928
comp88789_c0_seq1	L4	45.4196571980533	comp80323_c0_seq1	L31	1.61346302843928	comp115954_c0_seq1	L55	98.8030632586512	comp129046_c0_seq2	L85	1.61346302843928
comp95745_c1_seq1	L4	47.0331202264926	comp91770_c0_seq2	L31	1.61346302843928	comp116255_c0_seq1	L55	98.8030632586512	comp65811_c0_seq1	L85	1.61346302843928
comp100009_c0_seq1	L4	48.6465832549319	comp108092_c1_seq2	L31	4.84375631543943	comp117678_c0_seq1	L55	98.8030632586512	comp68099_c0_seq1	L85	1.61346302843928
comp103151_c0_seq1	L4	48.6465832549319	comp118176_c0_seq6	L31	4.84375631543943	comp119171_c1_seq1	L55	98.8030632586512	comp78398_c0_seq1	L85	1.61346302843928
comp104310_c0_seq1	L4	48.6465832549319	comp71145_c0_seq1	L31	4.84375631543943	comp119842_c2_seq2	L55	98.8030632586512	comp80967_c0_seq1	L85	1.61346302843928
comp105103_c1_seq12	L4	48.6465832549319	comp95490_c0_seq1	L31	4.84375631543943	comp121758_c0_seq1	L55	98.8030632586512	comp88406_c0_seq1	L85	1.61346302843928
comp107452_c3_seq1	L4	48.6465832549319	comp96280_c0_seq1	L31	4.84375631543943	comp122649_c0_seq1	L55	98.8030632586512	comp89666_c0_seq1	L85	1.61346302843928
comp110083_c1_seq1	L4	48.6465832549319	comp107747_c0_seq1	L31	6.45721934387871	comp122947_c0_seq1	L55	98.8030632586512	comp94358_c0_seq1	L85	1.61346302843928

comp113847_c0_seq1	L4	48.6465832549319	comp113657_c0_seq1	L31	6.45721934387871	comp122947_c1_seq1	L55	98.8030632586512	comp95440_c0_seq1	L85	1.61346302843928
comp114997_c0_seq1	L4	48.6465832549319	comp71090_c0_seq1	L31	6.45721934387871	comp127071_c0_seq1	L55	98.8030632586512	comp103229_c0_seq1	L85	4.84375631543943
comp115819_c0_seq1	L4	48.6465832549319	comp99842_c0_seq2	L31	6.45721934387871	comp128617_c0_seq1	L55	98.8030632586512	comp105855_c0_seq1	L85	4.84375631543943
comp116132_c0_seq1	L4	48.6465832549319	comp104378_c0_seq1	L31	12.9449992310058	comp129146_c0_seq1	L55	98.8030632586512	comp113096_c0_seq1	L85	4.84375631543943
comp117470_c0_seq1	L4	48.6465832549319	comp110543_c0_seq1	L31	12.9449992310058	comp28324_c0_seq1	L55	98.8030632586512	comp113612_c0_seq1	L85	4.84375631543943
comp118114_c0_seq1	L4	48.6465832549319	comp111549_c1_seq1	L31	12.9449992310058	comp44869_c0_seq1	L55	98.8030632586512	comp114357_c0_seq1	L85	4.84375631543943
comp127415_c2_seq1	L4	48.6465832549319	comp125478_c0_seq1	L31	12.9449992310058	comp7574_c0_seq1	L55	98.8030632586512	comp116897_c0_seq1	L85	4.84375631543943
comp131237_c0_seq1	L4	48.6465832549319	comp129053_c0_seq2	L31	12.9449992310058	comp89109_c0_seq1	L55	98.8030632586512	comp117515_c0_seq1	L85	4.84375631543943
comp30177_c0_seq1	L4	48.6465832549319	comp131994_c0_seq1	L31	12.9449992310058	comp91311_c0_seq2	L55	98.8030632586512	comp117718_c0_seq1	L85	4.84375631543943
comp45840_c0_seq1	L4	48.6465832549319	comp80595_c0_seq1	L31	12.9449992310058	comp94824_c0_seq1	L55	98.8030632586512	comp121489_c0_seq1	L85	4.84375631543943
comp54790_c0_seq1	L4	48.6465832549319	comp107798_c0_seq1	L31	21.0805592418715	comp104945_c0_seq2	L55	100.41652628709	comp121794_c0_seq1	L85	4.84375631543943
comp58470_c0_seq1	L4	48.6465832549319	comp109177_c0_seq1	L31	21.0805592418715	comp106004_c0_seq1	L55	100.41652628709	comp122333_c1_seq1	L85	4.84375631543943
comp64981_c0_seq1	L4	48.6465832549319	comp113678_c0_seq1	L31	21.0805592418715	comp110663_c0_seq1	L55	105.270426648114	comp124403_c0_seq1	L85	4.84375631543943
comp70128_c0_seq1	L4	48.6465832549319	comp118104_c0_seq1	L31	21.0805592418715	comp111214_c0_seq1	L55	105.270426648114	comp130190_c0_seq2	L85	4.84375631543943
comp71091_c0_seq1	L4	48.6465832549319	comp120418_c0_seq1	L31	21.0805592418715	comp118971_c0_seq1	L55	105.270426648114	comp131638_c0_seq1	L85	4.84375631543943
comp73138_c0_seq1	L4	48.6465832549319	comp120831_c1_seq1	L31	21.0805592418715	comp130480_c0_seq1	L55	105.270426648114	comp132125_c1_seq1	L85	4.84375631543943
comp73937_c0_seq1	L4	48.6465832549319	comp128108_c0_seq1	L31	21.0805592418715	comp94059_c0_seq1	L55	105.270426648114	comp67674_c0_seq1	L85	4.84375631543943
comp78032_c0_seq1	L4	48.6465832549319	comp130944_c0_seq3	L31	21.0805592418715	comp101064_c0_seq1	L55	106.883889676554	comp82454_c0_seq1	L85	4.84375631543943
comp85613_c0_seq1	L4	48.6465832549319	comp131738_c0_seq1	L31	21.0805592418715	comp102144_c0_seq1	L55	106.883889676554	comp93232_c0_seq1	L85	4.84375631543943
comp85803_c0_seq1	L4	48.6465832549319	comp132055_c0_seq1	L31	21.0805592418715	comp102806_c0_seq1	L55	106.883889676554	comp93860_c0_seq1	L85	4.84375631543943
comp87629_c1_seq1	L4	48.6465832549319	comp133610_c0_seq1	L31	21.0805592418715	comp106970_c0_seq1	L55	106.883889676554	comp93905_c1_seq1	L85	4.84375631543943
comp90176_c0_seq1	L4	48.6465832549319	comp70349_c0_seq1	L31	21.0805592418715	comp108827_c0_seq1	L55	106.883889676554	comp94530_c0_seq1	L85	4.84375631543943
comp90321_c0_seq1	L4	48.6465832549319	comp90287_c0_seq1	L31	21.0805592418715	comp110664_c0_seq1	L55	106.883889676554	comp110621_c1_seq1	L85	14.64480850984
comp91163_c1_seq1	L4	48.6465832549319	comp106108_c0_seq1	L31	22.6940222703108	comp115811_c0_seq2	L55	106.883889676554	comp111861_c0_seq1	L85	16.2582715382793
comp91863_c0_seq2	L4	48.6465832549319	comp116952_c0_seq1	L31	22.6940222703108	comp117503_c0_seq1	L55	106.883889676554	comp121895_c0_seq1	L85	16.2582715382793
comp93540_c0_seq2	L4	48.6465832549319	comp120352_c1_seq1	L31	22.6940222703108	comp121600_c0_seq1	L55	106.883889676554	comp126985_c0_seq1	L85	16.2582715382793
comp94166_c0_seq1	L4	48.6465832549319	comp122533_c1_seq1	L31	22.6940222703108	comp130727_c0_seq1	L55	106.883889676554	comp106284_c1_seq1	L85	24.393831549145
comp96016_c0_seq1	L4	48.6465832549319	comp123960_c0_seq1	L31	22.6940222703108	comp64428_c0_seq1	L55	106.883889676554	comp107946_c0_seq1	L85	24.393831549145
comp9813_c0_seq1	L4	48.6465832549319	comp124317_c0_seq1	L31	22.6940222703108	comp67760_c0_seq1	L55	106.883889676554	comp108029_c0_seq2	L85	24.393831549145

comp105303_c0_seq1	L5	0	comp127093_c0_seq1	L31	22.6940222703108	comp76935_c0_seq1	L55	106.883889676554	comp125852_c0_seq1	L85	24.393831549145
comp111992_c0_seq1	L5	0	comp130814_c0_seq1	L31	22.6940222703108	comp77296_c0_seq1	L55	106.883889676554	comp125852_c1_seq1	L85	24.393831549145
comp121317_c0_seq1	L5	0	comp106330_c0_seq2	L31	32.4950744647114	comp86769_c0_seq1	L55	106.883889676554	comp126833_c0_seq1	L85	24.393831549145
comp124593_c0_seq1	L5	0	comp107865_c0_seq1	L31	32.4950744647114	comp97145_c0_seq1	L55	106.883889676554	comp127058_c0_seq1	L85	24.393831549145
comp45412_c0_seq1	L5	0	comp122954_c0_seq2	L31	32.4950744647114	comp97259_c0_seq1	L55	106.883889676554	comp129051_c0_seq1	L85	24.393831549145
comp89884_c0_seq7	L5	0	comp128783_c0_seq1	L31	32.4950744647114	comp23123_c0_seq2	L55	108.497352704993	comp129181_c0_seq1	L85	24.393831549145
comp97466_c0_seq1	L5	0	comp134006_c0_seq1	L31	32.4950744647114	comp76792_c0_seq1	L55	108.497352704993	comp132106_c0_seq1	L85	24.393831549145
comp115751_c0_seq1	L5	1.61346302843928	comp76425_c0_seq1	L31	32.4950744647114	comp92631_c0_seq1	L55	108.497352704993	comp96294_c0_seq1	L85	24.393831549145
comp116883_c0_seq1	L5	4.84375631543943	comp128136_c1_seq1	L31	34.1085374931507	comp104388_c0_seq1	L56	0	comp100920_c0_seq2	L85	26.0072945775843
comp126169_c1_seq1	L5	4.84375631543943	comp122414_c0_seq3	L31	43.9095896875513	comp108696_c0_seq1	L56	0	comp105055_c0_seq1	L85	26.0072945775843
comp115390_c0_seq1	L5	8.07404960243958	comp124534_c0_seq1	L31	43.9095896875513	comp11266_c0_seq1	L56	0	comp111111_c0_seq1	L85	26.0072945775843
comp116054_c0_seq1	L5	8.07404960243958	comp132444_c0_seq1	L31	43.9095896875513	comp115382_c0_seq2	L56	0	comp112468_c0_seq1	L85	26.0072945775843
comp87502_c0_seq1	L5	8.07404960243958	comp78033_c0_seq1	L31	43.9095896875513	comp118407_c0_seq1	L56	0	comp113117_c0_seq1	L85	26.0072945775843
comp124604_c1_seq3	L5	11.3043428894397	comp81744_c0_seq1	L31	43.9095896875513	comp119164_c0_seq1	L56	0	comp113368_c0_seq2	L85	26.0072945775843
comp121838_c0_seq1	L5	12.917805917879	comp99235_c0_seq1	L31	43.9095896875513	comp120312_c0_seq2	L56	0	comp114914_c0_seq1	L85	26.0072945775843
comp117920_c0_seq1	L5	22.7188581122796	comp104468_c0_seq1	L31	47.1398829745514	comp132624_c1_seq1	L56	0	comp117286_c1_seq1	L85	26.0072945775843
comp118803_c1_seq1	L5	22.7188581122796	comp110811_c0_seq1	L31	51.9937833355754	comp76698_c0_seq1	L56	0	comp118616_c0_seq1	L85	26.0072945775843
comp126413_c0_seq1	L5	22.7188581122796	comp113628_c0_seq1	L31	51.9937833355754	comp77052_c0_seq1	L56	0	comp119963_c0_seq1	L85	26.0072945775843
comp132505_c0_seq1	L5	22.7188581122796	comp119809_c0_seq2	L31	51.9937833355754	comp80054_c0_seq1	L56	0	comp121132_c0_seq1	L85	26.0072945775843
comp30749_c0_seq1	L5	22.7188581122796	comp121636_c0_seq2	L31	51.9937833355754	comp97270_c0_seq1	L56	0	comp122116_c0_seq1	L85	26.0072945775843
comp104834_c0_seq1	L5	29.2066379994067	comp125277_c0_seq4	L31	51.9937833355754	comp125830_c0_seq1	L56	3.23029328700015	comp122867_c0_seq1	L85	26.0072945775843
comp125066_c0_seq1	L5	29.2066379994067	comp126289_c0_seq1	L31	51.9937833355754	comp101045_c0_seq1	L56	6.4605865740003	comp124034_c0_seq1	L85	26.0072945775843
comp126612_c0_seq1	L5	29.2066379994067	comp132625_c0_seq1	L31	51.9937833355754	comp106467_c0_seq1	L56	6.4605865740003	comp124240_c0_seq1	L85	26.0072945775843
comp131988_c0_seq1	L5	29.2066379994067	comp133263_c0_seq1	L31	51.9937833355754	comp108649_c0_seq1	L56	6.4605865740003	comp124881_c0_seq1	L85	26.0072945775843
comp133192_c0_seq2	L5	29.2066379994067	comp99084_c0_seq1	L31	51.9937833355754	comp113695_c0_seq1	L56	6.4605865740003	comp125674_c0_seq1	L85	26.0072945775843
comp110510_c0_seq1	L5	32.4369312864069	comp111744_c0_seq1	L31	56.8476836965993	comp122325_c0_seq1	L56	6.4605865740003	comp127484_c0_seq1	L85	26.0072945775843
comp127881_c0_seq1	L5	32.4369312864069	comp116719_c1_seq1	L31	56.8476836965993	comp127298_c0_seq1	L56	6.4605865740003	comp127746_c0_seq1	L85	26.0072945775843
comp97093_c0_seq1	L5	34.0503943148461	comp118612_c0_seq1	L31	56.8476836965993	comp18578_c0_seq1	L56	6.4605865740003	comp129806_c0_seq2	L85	26.0072945775843
comp101430_c0_seq11	L5	35.6638573432854	comp66851_c0_seq1	L31	56.8476836965993	comp46829_c0_seq1	L56	6.4605865740003	comp130242_c0_seq1	L85	26.0072945775843

comp107547_c1_seq1	L5	35.6638573432854	comp133589_c1_seq1	L31	58.4611467250386	comp97101_c0_seq1	L56	6.4605865740003	comp132688_c1_seq1	L85	26.0072945775843
comp111642_c0_seq1	L5	35.6638573432854	comp108352_c0_seq1	L31	60.0746097534778	comp105596_c0_seq2	L56	8.07404960243958	comp133282_c0_seq1	L85	26.0072945775843
comp126945_c2_seq1	L5	35.6638573432854	comp115882_c0_seq1	L31	60.0746097534778	comp110722_c0_seq1	L56	8.07404960243958	comp133282_c1_seq1	L85	26.0072945775843
comp131472_c0_seq1	L5	35.6638573432854	comp119265_c0_seq1	L31	60.0746097534778	comp110930_c0_seq1	L56	8.07404960243958	comp40448_c0_seq1	L85	26.0072945775843
comp72964_c0_seq1	L5	35.6638573432854	comp123921_c0_seq1	L31	60.0746097534778	comp115942_c1_seq1	L56	8.07404960243958	comp60640_c0_seq1	L85	26.0072945775843
comp94681_c0_seq1	L5	35.6638573432854	comp125138_c1_seq1	L31	60.0746097534778	comp117048_c0_seq1	L56	8.07404960243958	comp74786_c0_seq1	L85	26.0072945775843
comp103388_c0_seq1	L5	37.2773203717247	comp127925_c0_seq1	L31	60.0746097534778	comp118609_c0_seq1	L56	8.07404960243958	comp79859_c0_seq1	L85	26.0072945775843
comp112731_c0_seq1	L5	37.2773203717247	comp86606_c0_seq1	L31	60.0746097534778	comp119354_c1_seq2	L56	8.07404960243958	comp84639_c0_seq1	L85	26.0072945775843
comp117998_c0_seq1	L5	37.2773203717247	comp117242_c1_seq1	L31	63.304903040478	comp120970_c0_seq1	L56	8.07404960243958	comp90983_c0_seq1	L85	26.0072945775843
comp119685_c0_seq1	L5	37.2773203717247	comp121256_c0_seq1	L31	64.9183660689173	comp125083_c0_seq1	L56	8.07404960243958	comp94010_c0_seq1	L85	26.0072945775843
comp131705_c0_seq1	L5	37.2773203717247	comp112792_c0_seq1	L31	68.1486593559174	comp129369_c0_seq1	L56	8.07404960243958	comp96732_c0_seq1	L85	26.0072945775843
comp121172_c1_seq1	L5	40.5076136587248	comp130420_c0_seq1	L31	68.1486593559174	comp130794_c0_seq1	L56	8.07404960243958	comp97000_c0_seq1	L85	26.0072945775843
comp122721_c0_seq1	L5	40.5076136587248	comp130985_c0_seq1	L31	68.1486593559174	comp132950_c0_seq1	L56	8.07404960243958	comp97970_c0_seq1	L85	26.0072945775843
comp124072_c2_seq1	L5	40.5076136587248	comp101294_c0_seq1	L31	71.3789526429176	comp44391_c0_seq1	L56	8.07404960243958	comp106437_c1_seq5	L85	27.6207576060236
comp127437_c0_seq1	L5	40.5076136587248	comp108301_c0_seq1	L31	71.3789526429176	comp89309_c0_seq1	L56	8.07404960243958	comp109701_c1_seq2	L85	27.6207576060236
comp130925_c0_seq1	L5	40.5076136587248	comp111962_c1_seq1	L31	71.3789526429176	comp89781_c0_seq1	L56	8.07404960243958	comp111691_c0_seq1	L85	27.6207576060236
comp132722_c0_seq1	L5	40.5076136587248	comp114089_c0_seq1	L31	71.3789526429176	comp94318_c0_seq1	L56	8.07404960243958	comp116618_c0_seq1	L85	27.6207576060236
comp92479_c0_seq1	L5	40.5076136587248	comp117969_c0_seq1	L31	71.3789526429176	comp101985_c0_seq1	L56	12.9279499634635	comp117506_c0_seq1	L85	27.6207576060236
comp121082_c0_seq1	L5	43.737906945725	comp119759_c1_seq1	L31	71.3789526429176	comp102076_c0_seq1	L56	12.9279499634635	comp124343_c0_seq1	L85	27.6207576060236
comp122112_c2_seq1	L5	43.737906945725	comp122149_c0_seq1	L31	71.3789526429176	comp104145_c0_seq1	L56	12.9279499634635	comp133065_c0_seq1	L85	27.6207576060236
comp124235_c0_seq1	L5	43.737906945725	comp123430_c0_seq1	L31	71.3789526429176	comp104756_c0_seq1	L56	12.9279499634635	comp54886_c0_seq1	L85	27.6207576060236
comp124810_c0_seq1	L5	43.737906945725	comp126584_c0_seq2	L31	71.3789526429176	comp105225_c0_seq1	L56	12.9279499634635	comp92194_c0_seq2	L85	27.6207576060236
comp133457_c0_seq2	L5	43.737906945725	comp130588_c0_seq1	L31	71.3789526429176	comp111590_c0_seq5	L56	12.9279499634635	comp95392_c0_seq1	L85	27.6207576060236
comp104939_c0_seq1	L5	45.3513699741643	comp118451_c0_seq1	L31	81.1800048373182	comp112918_c0_seq2	L56	12.9279499634635	comp103068_c0_seq2	L86	0
comp106897_c0_seq2	L5	45.3513699741643	comp118613_c0_seq1	L31	81.1800048373182	comp113658_c0_seq1	L56	12.9279499634635	comp105808_c0_seq1	L86	0
comp109493_c0_seq1	L5	45.3513699741643	comp123594_c0_seq1	L31	81.1800048373182	comp115602_c0_seq1	L56	12.9279499634635	comp111068_c0_seq1	L86	0
comp111740_c0_seq1	L5	45.3513699741643	comp94189_c0_seq1	L31	81.1800048373182	comp118314_c0_seq1	L56	12.9279499634635	comp81673_c0_seq2	L86	0
comp112152_c0_seq1	L5	45.3513699741643	comp121595_c1_seq1	L31	84.4102981243183	comp120432_c0_seq1	L56	12.9279499634635	comp86631_c0_seq1	L86	0
comp114015_c0_seq2	L5	45.3513699741643	comp91890_c0_seq1	L31	84.4102981243183	comp123047_c0_seq2	L56	12.9279499634635	comp65528_c0_seq1	L86	1.61346302843928

comp115473_c1_seq5	L5	45.3513699741643	comp107494_c0_seq1	L31	89.2641984853422	comp124925_c0_seq3	L56	12.9279499634635	comp99628_c0_seq1	L86	1.61346302843928
comp116738_c0_seq2	L5	45.3513699741643	comp87352_c0_seq1	L31	89.2641984853422	comp126263_c0_seq1	L56	12.9279499634635	comp122168_c1_seq1	L86	13.1017712629003
comp124374_c1_seq1	L5	45.3513699741643	comp114490_c0_seq1	L31	92.4944917723424	comp126488_c0_seq1	L56	12.9279499634635	comp92064_c0_seq1	L86	14.7152342913396
comp125192_c0_seq2	L5	45.3513699741643	comp100194_c0_seq1	L31	100.630051783208	comp127493_c0_seq1	L56	12.9279499634635	comp93464_c0_seq1	L86	14.7152342913396
comp125406_c0_seq1	L5	45.3513699741643	comp111138_c0_seq1	L31	100.630051783208	comp129502_c0_seq1	L56	12.9279499634635	comp107906_c0_seq1	L86	21.2030141784667
comp129085_c0_seq1	L5	45.3513699741643	comp124000_c0_seq1	L31	100.630051783208	comp130535_c0_seq1	L56	12.9279499634635	comp121670_c0_seq1	L86	21.2030141784667
comp130949_c0_seq1	L5	45.3513699741643	comp125152_c0_seq1	L31	100.630051783208	comp131423_c0_seq1	L56	12.9279499634635	comp123549_c0_seq1	L86	21.2030141784667
comp89169_c0_seq1	L5	45.3513699741643	comp130021_c0_seq1	L31	100.630051783208	comp132209_c1_seq1	L56	12.9279499634635	comp126156_c0_seq1	L86	21.2030141784667
comp95234_c0_seq1	L5	45.3513699741643	comp52870_c0_seq1	L31	100.630051783208	comp132264_c0_seq1	L56	12.9279499634635	comp87388_c0_seq1	L86	21.2030141784667
comp97514_c0_seq1	L5	45.3513699741643	comp100719_c0_seq1	L31	102.243514811647	comp133422_c0_seq2	L56	12.9279499634635	comp88040_c0_seq1	L86	21.2030141784667
comp100387_c1_seq1	L5	46.9648330026036	comp103171_c1_seq1	L31	102.243514811647	comp28557_c0_seq1	L56	12.9279499634635	comp88442_c1_seq2	L86	21.2030141784667
comp102318_c0_seq1	L5	46.9648330026036	comp103701_c0_seq1	L31	102.243514811647	comp40040_c0_seq1	L56	12.9279499634635	comp90851_c0_seq1	L86	21.2030141784667
comp112025_c0_seq1	L5	46.9648330026036	comp108044_c1_seq1	L31	102.243514811647	comp71202_c0_seq1	L56	12.9279499634635	comp97138_c0_seq1	L86	21.2030141784667
comp113734_c0_seq1	L5	46.9648330026036	comp108275_c0_seq1	L31	102.243514811647	comp78789_c0_seq1	L56	12.9279499634635	comp127096_c0_seq1	L86	22.816477206906
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comp121042_c1_seq1	L5	46.9648330026036	comp110503_c0_seq1	L31	102.243514811647	comp82984_c0_seq1	L56	12.9279499634635	comp104042_c0_seq1	L86	24.4299402353452
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comp123020_c0_seq1	L5	46.9648330026036	comp123143_c0_seq1	L31	102.243514811647	comp87773_c0_seq1	L56	12.9279499634635	comp111395_c0_seq1	L86	24.4299402353452
comp124660_c0_seq2	L5	46.9648330026036	comp124687_c0_seq1	L31	102.243514811647	comp95496_c0_seq1	L56	12.9279499634635	comp117625_c0_seq1	L86	24.4299402353452
comp126075_c0_seq1	L5	46.9648330026036	comp125810_c0_seq1	L31	102.243514811647	comp96364_c0_seq1	L56	12.9279499634635	comp125688_c0_seq1	L86	24.4299402353452
comp126720_c0_seq1	L5	46.9648330026036	comp126559_c0_seq1	L31	102.243514811647	comp96811_c0_seq1	L56	12.9279499634635	comp126711_c1_seq1	L86	24.4299402353452
comp129633_c1_seq1	L5	46.9648330026036	comp126694_c0_seq1	L31	102.243514811647	comp100419_c0_seq1	L56	16.1582432504637	comp132227_c0_seq4	L86	24.4299402353452
comp129900_c0_seq1	L5	46.9648330026036	comp127101_c1_seq1	L31	102.243514811647	comp101282_c0_seq2	L56	16.1582432504637	comp56550_c0_seq1	L86	24.4299402353452
comp130240_c0_seq2	L5	46.9648330026036	comp127811_c0_seq1	L31	102.243514811647	comp101321_c0_seq1	L56	16.1582432504637	comp95389_c0_seq1	L86	24.4299402353452
comp132304_c0_seq1	L5	46.9648330026036	comp128999_c0_seq1	L31	102.243514811647	comp101801_c0_seq1	L56	16.1582432504637	comp116310_c0_seq5	L86	26.0434032637845
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comp57347_c0_seq1	L5	46.9648330026036	comp80575_c0_seq1	L31	102.243514811647	comp102783_c2_seq1	L56	16.1582432504637	comp123394_c0_seq1	L86	26.0434032637845
comp57552_c0_seq1	L5	46.9648330026036	comp87612_c0_seq1	L31	102.243514811647	comp103052_c0_seq1	L56	16.1582432504637	comp125232_c0_seq1	L86	26.0434032637845
comp59704_c0_seq1	L5	46.9648330026036	comp96719_c0_seq1	L31	102.243514811647	comp105112_c0_seq1	L56	16.1582432504637	comp129435_c1_seq1	L86	26.0434032637845

comp61381_c0_seq1	L5	46.9648330026036	comp100173_c0_seq1	L31	105.473808098648	comp106693_c0_seq1	L56	16.1582432504637	comp132064_c0_seq1	L86	26.0434032637845
comp71602_c0_seq1	L5	46.9648330026036	comp102236_c0_seq1	L31	105.473808098648	comp108300_c0_seq1	L56	16.1582432504637	comp80777_c0_seq1	L86	26.0434032637845
comp79603_c0_seq1	L5	46.9648330026036	comp106049_c0_seq1	L31	105.473808098648	comp108770_c0_seq4	L56	16.1582432504637	comp96918_c0_seq1	L86	26.0434032637845
comp85287_c0_seq1	L5	46.9648330026036	comp106385_c0_seq1	L31	105.473808098648	comp110113_c0_seq1	L56	16.1582432504637	comp111966_c0_seq1	L86	29.2736965507847
comp95831_c0_seq1	L5	46.9648330026036	comp106898_c0_seq1	L31	105.473808098648	comp111056_c0_seq1	L56	16.1582432504637	comp115878_c0_seq7	L86	30.8871595792239
comp96817_c0_seq1	L5	46.9648330026036	comp108102_c1_seq1	L31	105.473808098648	comp111347_c0_seq1	L56	16.1582432504637	comp56189_c0_seq1	L86	30.8871595792239
comp97132_c0_seq2	L5	46.9648330026036	comp109981_c1_seq1	L31	105.473808098648	comp111805_c0_seq1	L56	16.1582432504637	comp70188_c0_seq1	L86	30.8871595792239
comp100014_c0_seq1	L5	48.5782960310428	comp110413_c0_seq1	L31	105.473808098648	comp111929_c2_seq1	L56	16.1582432504637	comp87615_c0_seq3	L86	30.8871595792239
comp105693_c0_seq1	L5	48.5782960310428	comp114347_c0_seq1	L31	105.473808098648	comp112094_c0_seq1	L56	16.1582432504637	comp100921_c0_seq1	L86	44.0888453342364
comp106738_c0_seq1	L5	48.5782960310428	comp116650_c1_seq1	L31	105.473808098648	comp112094_c1_seq1	L56	16.1582432504637	comp122933_c0_seq2	L86	44.0888453342364
comp115342_c1_seq1	L5	48.5782960310428	comp117492_c0_seq1	L31	105.473808098648	comp112281_c0_seq1	L56	16.1582432504637	comp126031_c3_seq1	L86	44.0888453342364
comp123981_c0_seq2	L5	48.5782960310428	comp117667_c0_seq1	L31	105.473808098648	comp114675_c0_seq1	L56	16.1582432504637	comp81279_c0_seq1	L86	44.0888453342364
comp124259_c0_seq1	L5	48.5782960310428	comp121701_c0_seq1	L31	105.473808098648	comp114838_c0_seq1	L56	16.1582432504637	comp87285_c0_seq1	L86	44.0888453342364
comp40252_c0_seq1	L5	48.5782960310428	comp122706_c0_seq3	L31	105.473808098648	comp115826_c0_seq1	L56	16.1582432504637	comp96972_c0_seq1	L86	44.0888453342364
comp43898_c0_seq1	L5	48.5782960310428	comp125013_c0_seq1	L31	105.473808098648	comp115976_c0_seq1	L56	16.1582432504637	comp106847_c0_seq1	L86	45.7023083626756
comp76536_c0_seq1	L5	48.5782960310428	comp126331_c0_seq1	L31	105.473808098648	comp116281_c0_seq1	L56	16.1582432504637	comp115121_c0_seq1	L86	45.7023083626756
comp76536_c1_seq1	L5	48.5782960310428	comp126760_c0_seq1	L31	105.473808098648	comp118018_c0_seq1	L56	16.1582432504637	comp125592_c0_seq1	L86	45.7023083626756
comp80030_c0_seq1	L5	48.5782960310428	comp127039_c0_seq1	L31	105.473808098648	comp119737_c0_seq5	L56	16.1582432504637	comp84052_c0_seq1	L86	45.7023083626756
comp84513_c0_seq1	L5	48.5782960310428	comp127039_c1_seq1	L31	105.473808098648	comp122416_c0_seq1	L56	16.1582432504637	comp86371_c0_seq1	L86	45.7023083626756
comp91145_c0_seq1	L5	48.5782960310428	comp127534_c2_seq1	L31	105.473808098648	comp124228_c0_seq2	L56	16.1582432504637	comp90486_c0_seq1	L86	45.7023083626756
comp91261_c0_seq1	L5	48.5782960310428	comp128006_c0_seq1	L31	105.473808098648	comp124496_c1_seq1	L56	16.1582432504637	comp96610_c0_seq1	L86	45.7023083626756
comp95086_c0_seq1	L5	48.5782960310428	comp129847_c0_seq1	L31	105.473808098648	comp125671_c0_seq1	L56	16.1582432504637	comp104517_c0_seq1	L86	48.9326016496758
comp95729_c0_seq1	L5	48.5782960310428	comp130977_c0_seq1	L31	105.473808098648	comp126053_c0_seq1	L56	16.1582432504637	comp88431_c0_seq1	L86	48.9326016496758
comp96691_c0_seq1	L5	48.5782960310428	comp131397_c0_seq1	L31	105.473808098648	comp126069_c0_seq1	L56	16.1582432504637	comp102815_c0_seq1	L86	50.5460646781151
comp99584_c0_seq1	L5	48.5782960310428	comp132100_c0_seq1	L31	105.473808098648	comp127185_c0_seq1	L56	16.1582432504637	comp108826_c0_seq1	L86	50.5460646781151
comp32082_c0_seq1	L5	50.1917590594821	comp132157_c0_seq1	L31	105.473808098648	comp127980_c0_seq2	L56	16.1582432504637	comp109047_c0_seq1	L86	50.5460646781151
comp41820_c0_seq1	L5	50.1917590594821	comp133871_c0_seq1	L31	105.473808098648	comp130400_c0_seq2	L56	16.1582432504637	comp117803_c0_seq1	L86	50.5460646781151
comp85530_c0_seq1	L5	50.1917590594821	comp28086_c0_seq1	L31	105.473808098648	comp130598_c0_seq1	L56	16.1582432504637	comp120524_c0_seq1	L86	50.5460646781151
comp100566_c0_seq1	L6	0	comp54397_c0_seq1	L31	105.473808098648	comp131107_c0_seq1	L56	16.1582432504637	comp122338_c0_seq1	L86	50.5460646781151

comp104634_c0_seq1	L6	0	comp56545_c0_seq1	L31	105.473808098648	comp131480_c2_seq1	L56	16.1582432504637	comp123193_c0_seq1	L86	50.5460646781151
comp105069_c1_seq1	L6	0	comp60980_c0_seq1	L31	105.473808098648	comp132222_c0_seq1	L56	16.1582432504637	comp123197_c0_seq1	L86	50.5460646781151
comp123154_c0_seq2	L6	0	comp65455_c0_seq1	L31	105.473808098648	comp42767_c0_seq1	L56	16.1582432504637	comp128032_c0_seq1	L86	50.5460646781151
comp124643_c0_seq2	L6	0	comp80984_c0_seq1	L31	105.473808098648	comp44204_c0_seq1	L56	16.1582432504637	comp53762_c0_seq1	L86	50.5460646781151
comp67090_c0_seq1	L6	0	comp84730_c1_seq1	L31	105.473808098648	comp48923_c0_seq1	L56	16.1582432504637	comp54576_c0_seq1	L86	50.5460646781151
comp85368_c0_seq1	L6	1.61346302843928	comp86293_c0_seq1	L31	105.473808098648	comp53325_c0_seq1	L56	16.1582432504637	comp69268_c0_seq1	L86	50.5460646781151
comp132275_c0_seq1	L6	4.84375631543943	comp86717_c0_seq1	L31	105.473808098648	comp54960_c0_seq1	L56	16.1582432504637	comp74640_c0_seq1	L86	50.5460646781151
comp51181_c0_seq1	L6	4.84375631543943	comp88881_c0_seq1	L31	105.473808098648	comp59731_c0_seq1	L56	16.1582432504637	comp92273_c0_seq1	L86	50.5460646781151
comp57786_c0_seq1	L6	4.84375631543943	comp94548_c0_seq1	L31	105.473808098648	comp67754_c0_seq1	L56	16.1582432504637	comp95643_c0_seq1	L86	50.5460646781151
comp61527_c0_seq1	L6	4.84375631543943	comp94577_c0_seq1	L31	105.473808098648	comp67864_c0_seq1	L56	16.1582432504637	comp99230_c0_seq1	L86	50.5460646781151
comp83520_c0_seq1	L6	4.84375631543943	comp96709_c0_seq1	L31	105.473808098648	comp67880_c0_seq1	L56	16.1582432504637	comp101914_c0_seq1	L87	0
comp84221_c0_seq1	L6	4.84375631543943	comp96781_c0_seq2	L31	105.473808098648	comp69026_c1_seq1	L56	16.1582432504637	comp122365_c1_seq3	L87	0
comp96614_c0_seq2	L6	4.84375631543943	comp97271_c0_seq1	L31	105.473808098648	comp69515_c0_seq1	L56	16.1582432504637	comp128376_c0_seq1	L87	0
comp100565_c0_seq1	L6	6.45721934387871	comp97692_c0_seq1	L31	105.473808098648	comp73187_c0_seq1	L56	16.1582432504637	comp23642_c0_seq1	L87	0
comp102013_c1_seq1	L6	6.45721934387871	comp99112_c0_seq1	L31	105.473808098648	comp74800_c0_seq1	L56	16.1582432504637	comp30388_c0_seq1	L87	0
comp107456_c0_seq1	L6	6.45721934387871	comp46175_c0_seq1	L32	0	comp74837_c0_seq1	L56	16.1582432504637	comp57685_c0_seq1	L87	0
comp112368_c0_seq1	L6	6.45721934387871	comp71875_c0_seq1	L32	0	comp75270_c0_seq1	L56	16.1582432504637	comp59245_c0_seq1	L87	0
comp131253_c4_seq1	L6	6.45721934387871	comp73988_c0_seq1	L32	0	comp76506_c0_seq1	L56	16.1582432504637	comp69395_c0_seq1	L87	0
comp132475_c0_seq4	L6	6.45721934387871	comp84306_c0_seq1	L32	0	comp79793_c0_seq1	L56	16.1582432504637	comp78750_c0_seq1	L87	0
comp99860_c0_seq1	L6	6.45721934387871	comp85936_c0_seq1	L32	0	comp79803_c0_seq1	L56	16.1582432504637	comp84644_c0_seq1	L87	0
comp100239_c0_seq1	L6	8.07068237231799	comp92183_c0_seq1	L32	0	comp80708_c0_seq1	L56	16.1582432504637	comp88213_c1_seq1	L87	0
comp116137_c0_seq1	L6	8.07068237231799	comp96446_c0_seq1	L32	0	comp84012_c0_seq1	L56	16.1582432504637	comp90912_c0_seq1	L87	0
comp67545_c0_seq1	L6	8.07068237231799	comp96688_c0_seq1	L32	0	comp84091_c0_seq1	L56	16.1582432504637	comp91520_c0_seq2	L87	0
comp104009_c0_seq1	L6	12.9245827333419	comp96803_c0_seq1	L32	0	comp84225_c0_seq1	L56	16.1582432504637	comp95315_c0_seq1	L87	0
comp117487_c4_seq1	L6	12.9245827333419	comp9883_c0_seq1	L32	0	comp85912_c0_seq1	L56	16.1582432504637	comp96652_c0_seq1	L87	0
comp118414_c1_seq1	L6	12.9245827333419	comp99937_c0_seq1	L32	0	comp86476_c2_seq1	L56	16.1582432504637	comp99239_c0_seq1	L87	0
comp126693_c0_seq3	L6	12.9245827333419	comp100233_c0_seq1	L32	1.61346302843928	comp87919_c0_seq1	L56	16.1582432504637	comp106149_c0_seq1	L87	3.23029328700015
comp87131_c0_seq1	L6	12.9245827333419	comp100233_c2_seq1	L32	1.61346302843928	comp88336_c0_seq1	L56	16.1582432504637	comp110616_c0_seq1	L87	3.23029328700015
comp110670_c0_seq1	L6	14.5380457617812	comp100558_c1_seq1	L32	1.61346302843928	comp91805_c0_seq1	L56	16.1582432504637	comp111751_c0_seq1	L87	3.23029328700015

comp118414_c0_seq1	L6	14.5380457617812	comp101530_c0_seq1	L32	1.61346302843928	comp92172_c0_seq1	L56	16.1582432504637	comp115409_c0_seq1	L87	3.23029328700015
comp59469_c0_seq1	L6	14.5380457617812	comp102430_c0_seq1	L32	1.61346302843928	comp95869_c0_seq1	L56	16.1582432504637	comp122408_c0_seq1	L87	3.23029328700015
comp104576_c0_seq1	L6	16.1515087902205	comp102547_c0_seq1	L32	1.61346302843928	comp96653_c0_seq1	L56	16.1582432504637	comp123348_c0_seq1	L87	3.23029328700015
comp129581_c0_seq1	L6	17.7649718186598	comp103738_c0_seq1	L32	1.61346302843928	comp25791_c0_seq1	L57	0	comp128387_c1_seq1	L87	3.23029328700015
comp107363_c0_seq1	L6	20.9952651056599	comp103869_c2_seq1	L32	1.61346302843928	comp57082_c0_seq1	L57	0	comp133102_c0_seq1	L87	3.23029328700015
comp93427_c0_seq1	L6	20.9952651056599	comp104333_c0_seq1	L32	1.61346302843928	comp57101_c0_seq1	L57	0	comp68395_c0_seq1	L87	3.23029328700015
comp100023_c0_seq1	L6	22.6087281340992	comp104469_c0_seq1	L32	1.61346302843928	comp66714_c0_seq1	L57	0	comp73361_c0_seq1	L87	3.23029328700015
comp108497_c0_seq1	L6	22.6087281340992	comp105876_c1_seq1	L32	1.61346302843928	comp70675_c0_seq1	L57	1.61346302843928	comp82288_c0_seq1	L87	3.23029328700015
comp114669_c0_seq1	L6	22.6087281340992	comp106094_c0_seq3	L32	1.61346302843928	comp95048_c0_seq1	L57	1.61346302843928	comp95615_c0_seq1	L87	3.23029328700015
comp120638_c0_seq1	L6	22.6087281340992	comp106438_c0_seq2	L32	1.61346302843928	comp101715_c0_seq2	L57	3.22692605687856	comp112822_c0_seq1	L87	6.4605865740003
comp65138_c0_seq1	L6	22.6087281340992	comp106682_c0_seq1	L32	1.61346302843928	comp117269_c0_seq1	L57	3.22692605687856	comp100931_c0_seq4	L87	9.69087986100045
comp86030_c0_seq2	L6	22.6087281340992	comp107193_c0_seq1	L32	1.61346302843928	comp127910_c0_seq2	L57	3.22692605687856	comp102463_c0_seq1	L87	9.69087986100045
comp91082_c1_seq1	L6	22.6087281340992	comp107583_c0_seq1	L32	1.61346302843928	comp56251_c0_seq2	L57	3.22692605687856	comp105511_c0_seq1	L87	9.69087986100045
comp98067_c0_seq2	L6	22.6087281340992	comp108413_c0_seq1	L32	1.61346302843928	comp66458_c0_seq1	L57	3.22692605687856	comp109722_c0_seq1	L87	9.69087986100045
comp100337_c0_seq1	L7	0	comp109409_c1_seq1	L32	1.61346302843928	comp69967_c0_seq1	L57	3.22692605687856	comp113528_c0_seq1	L87	9.69087986100045
comp100844_c0_seq1	L7	0	comp110668_c0_seq2	L32	1.61346302843928	comp72457_c0_seq1	L57	3.22692605687856	comp113956_c0_seq1	L87	9.69087986100045
comp101313_c0_seq1	L7	0	comp110929_c0_seq1	L32	1.61346302843928	comp10695_c0_seq1	L57	4.84038908531784	comp114153_c0_seq1	L87	9.69087986100045
comp101940_c0_seq1	L7	0	comp111569_c0_seq1	L32	1.61346302843928	comp70458_c0_seq1	L57	4.84038908531784	comp114153_c1_seq1	L87	9.69087986100045
comp105475_c0_seq1	L7	0	comp111755_c0_seq1	L32	1.61346302843928	comp72111_c0_seq2	L57	4.84038908531784	comp115235_c0_seq1	L87	9.69087986100045
comp117455_c0_seq1	L7	0	comp112000_c0_seq2	L32	1.61346302843928	comp128660_c1_seq1	L57	14.6414412797184	comp115338_c0_seq1	L87	9.69087986100045
comp118246_c2_seq3	L7	0	comp112436_c0_seq1	L32	1.61346302843928	comp40755_c0_seq1	L57	14.6414412797184	comp116307_c0_seq1	L87	9.69087986100045
comp119777_c0_seq1	L7	0	comp113222_c0_seq1	L32	1.61346302843928	comp55413_c0_seq1	L57	14.6414412797184	comp116680_c0_seq1	L87	9.69087986100045
comp120926_c1_seq2	L7	0	comp114356_c0_seq1	L32	1.61346302843928	comp57365_c0_seq2	L57	14.6414412797184	comp117544_c0_seq1	L87	9.69087986100045
comp120945_c0_seq2	L7	0	comp114853_c0_seq2	L32	1.61346302843928	comp65966_c0_seq1	L57	14.6414412797184	comp119289_c0_seq1	L87	9.69087986100045
comp121780_c1_seq1	L7	0	comp116080_c0_seq1	L32	1.61346302843928	comp78976_c0_seq1	L57	14.6414412797184	comp119523_c0_seq1	L87	9.69087986100045
comp124330_c0_seq1	L7	0	comp116365_c1_seq1	L32	1.61346302843928	comp79167_c0_seq1	L57	14.6414412797184	comp120733_c0_seq1	L87	9.69087986100045
comp129103_c0_seq1	L7	0	comp116564_c0_seq1	L32	1.61346302843928	comp80154_c0_seq1	L57	14.6414412797184	comp124130_c0_seq1	L87	9.69087986100045
comp39740_c0_seq1	L7	0	comp117028_c1_seq3	L32	1.61346302843928	comp83384_c0_seq1	L57	14.6414412797184	comp125470_c0_seq1	L87	9.69087986100045
comp47124_c0_seq1	L7	0	comp117797_c0_seq1	L32	1.61346302843928	comp85755_c1_seq1	L57	14.6414412797184	comp126904_c0_seq1	L87	9.69087986100045



comp55519_c0_seq1	L7	0	comp117875_c2_seq3	L32	1.61346302843928	comp86373_c0_seq2	L57	14.6414412797184	comp126961_c0_seq1	L87	9.69087986100045
comp56364_c0_seq1	L7	0	comp117976_c0_seq1	L32	1.61346302843928	comp92163_c0_seq1	L57	14.6414412797184	comp127160_c0_seq1	L87	9.69087986100045
comp62886_c0_seq1	L7	0	comp119736_c0_seq1	L32	1.61346302843928	comp96764_c1_seq1	L57	14.6414412797184	comp127566_c0_seq1	L87	9.69087986100045
comp64498_c0_seq1	L7	0	comp121129_c0_seq1	L32	1.61346302843928	comp99899_c0_seq1	L57	14.6414412797184	comp127802_c0_seq1	L87	9.69087986100045
comp75708_c0_seq1	L7	0	comp121405_c0_seq1	L32	1.61346302843928	comp112707_c0_seq2	L57	22.7770012905841	comp128040_c0_seq1	L87	9.69087986100045
comp82360_c0_seq1	L7	0	comp121618_c0_seq1	L32	1.61346302843928	comp127461_c0_seq2	L57	22.7770012905841	comp128195_c0_seq1	L87	9.69087986100045
comp90041_c0_seq2	L7	0	comp122333_c0_seq1	L32	1.61346302843928	comp127908_c0_seq1	L57	22.7770012905841	comp128291_c0_seq1	L87	9.69087986100045
comp90469_c0_seq1	L7	0	comp122386_c0_seq1	L32	1.61346302843928	comp105621_c0_seq1	L57	27.6309016516081	comp129451_c0_seq1	L87	9.69087986100045
comp93205_c0_seq1	L7	0	comp124036_c3_seq1	L32	1.61346302843928	comp109734_c1_seq1	L57	27.6309016516081	comp129810_c0_seq1	L87	9.69087986100045
comp93764_c0_seq1	L7	0	comp124388_c0_seq1	L32	1.61346302843928	comp110972_c1_seq1	L57	27.6309016516081	comp77392_c0_seq1	L87	9.69087986100045
comp96729_c0_seq1	L7	0	comp124954_c0_seq1	L32	1.61346302843928	comp120807_c0_seq1	L57	27.6309016516081	comp83261_c0_seq1	L87	9.69087986100045
comp97116_c0_seq1	L7	0	comp125634_c0_seq1	L32	1.61346302843928	comp130051_c0_seq2	L57	27.6309016516081	comp84829_c0_seq1	L87	9.69087986100045
comp116512_c1_seq1	L7	1.61346302843928	comp127426_c0_seq1	L32	1.61346302843928	comp100435_c0_seq1	L57	29.2443646800473	comp89881_c0_seq1	L87	9.69087986100045
comp121616_c0_seq1	L7	1.61346302843928	comp127731_c0_seq1	L32	1.61346302843928	comp109763_c0_seq1	L57	29.2443646800473	comp92312_c0_seq1	L87	9.69087986100045
comp133927_c1_seq1	L7	1.61346302843928	comp128507_c0_seq1	L32	1.61346302843928	comp109959_c0_seq1	L57	29.2443646800473	comp92312_c1_seq1	L87	9.69087986100045
comp112842_c0_seq1	L7	3.22692605687856	comp128822_c0_seq3	L32	1.61346302843928	comp114417_c0_seq1	L57	29.2443646800473	comp96348_c0_seq1	L87	9.69087986100045
comp123337_c0_seq1	L7	3.22692605687856	comp130600_c1_seq1	L32	1.61346302843928	comp124474_c0_seq1	L57	29.2443646800473	comp98565_c0_seq1	L87	9.69087986100045
comp123337_c1_seq1	L7	3.22692605687856	comp132534_c0_seq1	L32	1.61346302843928	comp124689_c0_seq1	L57	29.2443646800473	comp105909_c0_seq1	L88	0
comp127873_c0_seq1	L7	3.22692605687856	comp133016_c0_seq1	L32	1.61346302843928	comp39919_c0_seq1	L57	29.2443646800473	comp106632_c0_seq1	L88	0
comp129777_c0_seq1	L7	3.22692605687856	comp20268_c0_seq1	L32	1.61346302843928	comp123861_c0_seq1	L58	0	comp109863_c0_seq1	L88	0
comp64827_c0_seq1	L7	3.22692605687856	comp26986_c0_seq1	L32	1.61346302843928	comp95184_c0_seq1	L58	0	comp116013_c0_seq1	L88	0
comp72865_c2_seq1	L7	3.22692605687856	comp40807_c0_seq1	L32	1.61346302843928	comp111626_c0_seq1	L58	3.23029328700015	comp120602_c1_seq2	L88	0
comp84947_c0_seq1	L7	3.22692605687856	comp46518_c1_seq1	L32	1.61346302843928	comp125902_c1_seq2	L58	3.23029328700015	comp122486_c0_seq1	L88	0
comp97156_c0_seq1	L7	3.22692605687856	comp63102_c0_seq1	L32	1.61346302843928	comp126400_c0_seq1	L58	3.23029328700015	comp129692_c0_seq2	L88	0
comp99534_c0_seq1	L7	3.22692605687856	comp69485_c0_seq1	L32	1.61346302843928	comp129308_c3_seq2	L58	3.23029328700015	comp73891_c0_seq1	L88	0
comp99781_c1_seq3	L7	3.22692605687856	comp72244_c0_seq1	L32	1.61346302843928	comp96700_c1_seq1	L58	3.23029328700015	comp78457_c0_seq1	L88	0
comp103970_c0_seq1	L7	4.84038908531784	comp76665_c0_seq1	L32	1.61346302843928	comp97096_c0_seq1	L58	3.23029328700015	comp98745_c1_seq1	L88	0
comp104227_c0_seq1	L7	4.84038908531784	comp78142_c0_seq1	L32	1.61346302843928	comp122927_c0_seq1	L58	6.4605865740003	comp107235_c0_seq1	L88	1.61346302843928
comp105494_c0_seq1	L7	4.84038908531784	comp79841_c0_seq1	L32	1.61346302843928	comp123719_c0_seq1	L58	6.4605865740003	comp109825_c1_seq1	L88	1.61346302843928

comp105827_c0_seq1	L7	4.84038908531784	comp84187_c0_seq1	L32	1.61346302843928	comp125098_c0_seq3	L58	6.4605865740003	comp111748_c0_seq1	L88	1.61346302843928
comp106175_c0_seq1	L7	4.84038908531784	comp84799_c0_seq1	L32	1.61346302843928	comp122560_c0_seq1	L58	8.07404960243958	comp132323_c2_seq2	L88	1.61346302843928
comp108155_c0_seq1	L7	4.84038908531784	comp85010_c0_seq1	L32	1.61346302843928	comp131959_c0_seq1	L58	8.07404960243958	comp84186_c0_seq1	L88	1.61346302843928
comp109208_c0_seq1	L7	4.84038908531784	comp85147_c0_seq1	L32	1.61346302843928	comp109270_c0_seq6	L58	17.8751017968402	comp100937_c0_seq2	L88	4.84375631543943
comp109497_c0_seq1	L7	4.84038908531784	comp89321_c0_seq1	L32	1.61346302843928	comp119358_c1_seq1	L58	17.8751017968402	comp105888_c0_seq1	L88	4.84375631543943
comp110219_c0_seq1	L7	4.84038908531784	comp90297_c0_seq1	L32	1.61346302843928	comp129786_c0_seq1	L58	17.8751017968402	comp106588_c0_seq1	L88	4.84375631543943
comp112197_c0_seq1	L7	4.84038908531784	comp95232_c0_seq1	L32	1.61346302843928	comp87854_c1_seq1	L58	17.8751017968402	comp106958_c0_seq1	L88	4.84375631543943
comp113513_c0_seq1	L7	4.84038908531784	comp96883_c0_seq1	L32	1.61346302843928	comp121833_c0_seq2	L58	19.4885648252795	comp108774_c1_seq1	L88	4.84375631543943
comp113764_c0_seq1	L7	4.84038908531784	comp96968_c0_seq1	L32	1.61346302843928	comp77908_c0_seq1	L58	19.4885648252795	comp110243_c0_seq1	L88	4.84375631543943
comp113943_c0_seq1	L7	4.84038908531784	comp96968_c2_seq1	L32	1.61346302843928	comp130141_c0_seq1	L58	24.3424651863034	comp110583_c0_seq1	L88	4.84375631543943
comp114517_c1_seq1	L7	4.84038908531784	comp97154_c0_seq1	L32	1.61346302843928	comp132244_c0_seq2	L58	24.3424651863034	comp111172_c0_seq1	L88	4.84375631543943
comp116441_c0_seq1	L7	4.84038908531784	comp97203_c0_seq1	L32	1.61346302843928	comp101491_c0_seq1	L58	25.9559282147427	comp111472_c1_seq1	L88	4.84375631543943
comp116761_c0_seq1	L7	4.84038908531784	comp124444_c1_seq1	L32	3.22692605687856	comp124217_c0_seq2	L58	25.9559282147427	comp112459_c0_seq1	L88	4.84375631543943
comp116808_c0_seq1	L7	4.84038908531784	comp129571_c0_seq1	L32	3.22692605687856	comp125027_c0_seq1	L58	25.9559282147427	comp113565_c0_seq3	L88	4.84375631543943
comp116837_c0_seq1	L7	4.84038908531784	comp115245_c0_seq2	L32	9.71470594400567	comp127819_c0_seq1	L58	25.9559282147427	comp126467_c1_seq3	L88	4.84375631543943
comp117104_c0_seq1	L7	4.84038908531784	comp111915_c0_seq1	L32	11.3281689724449	comp131085_c0_seq1	L58	25.9559282147427	comp127003_c0_seq3	L88	4.84375631543943
comp117340_c0_seq1	L7	4.84038908531784	comp115393_c0_seq1	L32	11.3281689724449	comp131125_c0_seq1	L58	25.9559282147427	comp127955_c0_seq1	L88	4.84375631543943
comp119414_c0_seq1	L7	4.84038908531784	comp115451_c0_seq1	L32	11.3281689724449	comp132905_c0_seq1	L58	25.9559282147427	comp130453_c1_seq3	L88	4.84375631543943
comp120991_c0_seq1	L7	4.84038908531784	comp116083_c0_seq1	L32	11.3281689724449	comp132905_c1_seq1	L58	25.9559282147427	comp25144_c0_seq1	L88	4.84375631543943
comp121513_c0_seq1	L7	4.84038908531784	comp119959_c0_seq1	L32	11.3281689724449	comp74465_c0_seq1	L58	25.9559282147427	comp25306_c0_seq1	L88	4.84375631543943
comp122288_c0_seq1	L7	4.84038908531784	comp120967_c0_seq1	L32	11.3281689724449	comp91068_c0_seq1	L58	25.9559282147427	comp55623_c0_seq1	L88	4.84375631543943
comp122320_c0_seq1	L7	4.84038908531784	comp127978_c1_seq1	L32	11.3281689724449	comp100442_c0_seq2	L58	27.569391243182	comp60859_c0_seq1	L88	4.84375631543943
comp122882_c0_seq1	L7	4.84038908531784	comp128593_c0_seq1	L32	11.3281689724449	comp101487_c0_seq1	L58	27.569391243182	comp62113_c0_seq1	L88	4.84375631543943
comp123012_c0_seq1	L7	4.84038908531784	comp90110_c0_seq1	L32	11.3281689724449	comp110883_c0_seq1	L58	27.569391243182	comp66893_c0_seq1	L88	4.84375631543943
comp124305_c0_seq1	L7	4.84038908531784	comp123932_c0_seq1	L32	17.8159488595721	comp114683_c0_seq1	L58	27.569391243182	comp68697_c0_seq1	L88	4.84375631543943
comp125955_c0_seq1	L7	4.84038908531784	comp125804_c2_seq1	L32	17.8159488595721	comp120068_c0_seq1	L58	27.569391243182	comp72747_c0_seq1	L88	4.84375631543943
comp126154_c0_seq1	L7	4.84038908531784	comp108185_c0_seq1	L32	24.3037287466992	comp121734_c0_seq1	L58	27.569391243182	comp74998_c0_seq1	L88	4.84375631543943
comp126710_c1_seq1	L7	4.84038908531784	comp113705_c0_seq1	L32	24.3037287466992	comp130350_c0_seq1	L58	27.569391243182	comp75932_c0_seq1	L88	4.84375631543943
comp126710_c2_seq2	L7	4.84038908531784	comp115715_c0_seq1	L32	24.3037287466992	comp107268_c0_seq1	L58	29.1828542716212	comp78373_c0_seq1	L88	4.84375631543943

comp127777_c1_seq2	L7	4.84038908531784	comp124823_c1_seq1	L32	24.3037287466992	comp109869_c0_seq1	L58	29.1828542716212	comp79599_c0_seq1	L88	4.84375631543943
comp128116_c0_seq1	L7	4.84038908531784	comp116107_c0_seq1	L32	25.9171917751385	comp110839_c0_seq1	L58	29.1828542716212	comp81743_c0_seq1	L88	4.84375631543943
comp130436_c0_seq1	L7	4.84038908531784	comp91480_c0_seq1	L32	29.1474850621386	comp112423_c1_seq1	L58	29.1828542716212	comp83634_c0_seq1	L88	4.84375631543943
comp131374_c0_seq1	L7	4.84038908531784	comp119260_c0_seq21	L32	37.2830450730043	comp117824_c0_seq1	L58	29.1828542716212	comp83668_c0_seq1	L88	4.84375631543943
comp132025_c1_seq1	L7	4.84038908531784	comp71979_c0_seq1	L32	37.2830450730043	comp120971_c0_seq1	L58	29.1828542716212	comp84747_c0_seq1	L88	4.84375631543943
comp132824_c0_seq1	L7	4.84038908531784	comp75313_c0_seq1	L32	37.2830450730043	comp124469_c0_seq1	L58	29.1828542716212	comp91059_c0_seq1	L88	4.84375631543943
comp133026_c0_seq1	L7	4.84038908531784	comp89669_c1_seq1	L32	37.2830450730043	comp126781_c0_seq1	L58	29.1828542716212	comp91865_c0_seq1	L88	4.84375631543943
comp44697_c0_seq1	L7	4.84038908531784	comp90606_c0_seq1	L32	37.2830450730043	comp129383_c0_seq1	L58	29.1828542716212	comp91897_c0_seq1	L88	4.84375631543943
comp57383_c0_seq1	L7	4.84038908531784	comp95793_c0_seq2	L32	37.2830450730043	comp130000_c0_seq1	L58	29.1828542716212	comp93018_c0_seq2	L88	4.84375631543943
comp73329_c0_seq1	L7	4.84038908531784	comp97105_c0_seq1	L32	37.2830450730043	comp130169_c0_seq1	L58	29.1828542716212	comp95127_c1_seq1	L88	4.84375631543943
comp73877_c0_seq1	L7	4.84038908531784	comp117901_c0_seq1	L32	38.8965081014436	comp130890_c0_seq1	L58	29.1828542716212	comp96736_c0_seq1	L88	4.84375631543943
comp76292_c0_seq1	L7	4.84038908531784	comp119131_c0_seq1	L32	38.8965081014436	comp130905_c1_seq1	L58	29.1828542716212	comp96947_c1_seq1	L88	4.84375631543943
comp76577_c0_seq1	L7	4.84038908531784	comp123578_c0_seq1	L32	38.8965081014436	comp131188_c0_seq1	L58	29.1828542716212	comp97269_c0_seq1	L88	4.84375631543943
comp83791_c0_seq1	L7	4.84038908531784	comp40765_c0_seq1	L32	38.8965081014436	comp133261_c0_seq1	L58	29.1828542716212	comp99338_c0_seq1	L88	4.84375631543943
comp83846_c0_seq1	L7	4.84038908531784	comp79278_c0_seq1	L32	38.8965081014436	comp133401_c0_seq1	L58	29.1828542716212	comp99576_c1_seq1	L88	4.84375631543943
comp85969_c0_seq1	L7	4.84038908531784	comp85062_c0_seq1	L32	38.8965081014436	comp103164_c0_seq2	L58	32.4131475586214	comp107795_c0_seq1	L89	0
comp89870_c0_seq1	L7	4.84038908531784	comp121114_c0_seq1	L32	42.1268013884437	comp106630_c0_seq2	L58	32.4131475586214	comp120743_c0_seq1	L89	0
comp93613_c0_seq2	L7	4.84038908531784	comp112768_c0_seq1	L32	45.3570946754439	comp107765_c0_seq1	L58	32.4131475586214	comp120969_c0_seq1	L89	0
comp95170_c0_seq1	L7	4.84038908531784	comp126445_c0_seq1	L32	45.3570946754439	comp116010_c0_seq4	L58	32.4131475586214	comp122102_c0_seq1	L89	0
comp97009_c0_seq1	L7	4.84038908531784	comp129280_c0_seq1	L32	45.3570946754439	comp119016_c2_seq1	L58	32.4131475586214	comp126472_c0_seq1	L89	0
comp98480_c0_seq1	L7	4.84038908531784	comp82788_c0_seq1	L32	45.3570946754439	comp123721_c0_seq1	L58	32.4131475586214	comp127715_c0_seq1	L89	0
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comp123415_c0_seq1	L7	12.9759490961835	comp131563_c0_seq1	L32	46.9705577038832	comp125300_c0_seq1	L58	32.4131475586214	comp101466_c0_seq1	L89	3.23029328700015
comp125534_c0_seq1	L7	12.9759490961835	comp119852_c0_seq1	L32	53.4583375910103	comp128710_c0_seq1	L58	32.4131475586214	comp107497_c0_seq1	L89	3.23029328700015
comp126899_c0_seq1	L7	12.9759490961835	comp119981_c0_seq1	L32	55.0718006194495	comp27927_c0_seq1	L58	32.4131475586214	comp113272_c0_seq1	L89	3.23029328700015
comp130151_c0_seq1	L7	12.9759490961835	comp122989_c0_seq1	L32	55.0718006194495	comp93390_c0_seq2	L58	32.4131475586214	comp114239_c0_seq1	L89	3.23029328700015
comp133023_c0_seq1	L7	12.9759490961835	comp92103_c0_seq1	L32	55.0718006194495	comp112968_c0_seq1	L58	34.0266105870607	comp119750_c0_seq1	L89	3.23029328700015
comp25979_c0_seq1	L7	12.9759490961835	comp103660_c0_seq1	L32	56.6852636478888	comp109790_c0_seq1	L58	35.6400736154999	comp121046_c1_seq2	L89	3.23029328700015

comp129174_c0_seq1	L7	16.2062423831837	comp108386_c0_seq1	L32	56.6852636478888	comp110607_c0_seq1	L58	35.6400736154999	comp125550_c0_seq1	L89	3.23029328700015
comp133257_c0_seq1	L7	16.2062423831837	comp113288_c0_seq1	L32	56.6852636478888	comp117570_c0_seq1	L58	35.6400736154999	comp126496_c0_seq1	L89	3.23029328700015
comp94805_c0_seq1	L7	16.2062423831837	comp116448_c0_seq1	L32	56.6852636478888	comp120798_c0_seq1	L58	35.6400736154999	comp128436_c0_seq1	L89	3.23029328700015
comp102962_c0_seq1	L7	17.819705411623	comp120488_c0_seq1	L32	56.6852636478888	comp123128_c0_seq1	L58	35.6400736154999	comp131802_c2_seq1	L89	3.23029328700015
comp111007_c0_seq1	L7	17.819705411623	comp121492_c0_seq3	L32	56.6852636478888	comp124997_c0_seq1	L58	35.6400736154999	comp132405_c1_seq1	L89	3.23029328700015
comp131025_c0_seq1	L7	17.819705411623	comp86862_c0_seq1	L32	56.6852636478888	comp126533_c0_seq1	L58	35.6400736154999	comp79865_c0_seq1	L89	3.23029328700015
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comp101178_c0_seq2	L7	31.0213911666354	comp103660_c1_seq1	L32	59.915556934889	comp132622_c0_seq1	L58	35.6400736154999	comp106691_c0_seq1	L89	4.84375631543943
comp126180_c0_seq1	L7	31.0213911666354	comp103461_c0_seq1	L32	64.7694572959129	comp80667_c1_seq1	L58	35.6400736154999	comp113345_c2_seq1	L89	4.84375631543943
comp128055_c0_seq1	L7	31.0213911666354	comp106600_c0_seq2	L32	64.7694572959129	comp100866_c0_seq1	L58	37.2535366439392	comp115587_c0_seq1	L89	4.84375631543943
comp78585_c0_seq1	L7	31.0213911666354	comp113826_c0_seq1	L32	64.7694572959129	comp130719_c0_seq1	L58	37.2535366439392	comp118862_c0_seq1	L89	4.84375631543943
comp85360_c0_seq1	L7	31.0213911666354	comp123321_c0_seq1	L32	64.7694572959129	comp80982_c0_seq1	L58	37.2535366439392	comp120670_c1_seq1	L89	4.84375631543943
comp131734_c0_seq1	L7	35.8752915276593	comp125591_c0_seq1	L32	64.7694572959129	comp101713_c0_seq1	L58	38.8669996723785	comp127503_c0_seq1	L89	4.84375631543943
comp72196_c0_seq1	L7	35.8752915276593	comp130390_c0_seq1	L32	64.7694572959129	comp103850_c0_seq1	L58	38.8669996723785	comp129156_c0_seq1	L89	4.84375631543943
comp79141_c0_seq1	L7	35.8752915276593	comp131315_c0_seq1	L32	64.7694572959129	comp106015_c0_seq1	L58	38.8669996723785	comp133299_c0_seq1	L89	4.84375631543943
comp90868_c0_seq1	L7	35.8752915276593	comp131554_c0_seq1	L32	64.7694572959129	comp106930_c0_seq1	L58	38.8669996723785	comp70449_c0_seq2	L89	4.84375631543943
comp90868_c1_seq1	L7	35.8752915276593	comp133405_c0_seq1	L32	64.7694572959129	comp107424_c0_seq1	L58	38.8669996723785	comp103330_c0_seq1	L89	12.9793163263051
comp121144_c0_seq1	L7	37.4887545560986	comp73212_c2_seq1	L32	64.7694572959129	comp108798_c0_seq2	L58	38.8669996723785	comp103724_c0_seq1	L89	12.9793163263051
comp121144_c1_seq1	L7	37.4887545560986	comp87248_c0_seq1	L32	64.7694572959129	comp110245_c2_seq1	L58	38.8669996723785	comp119986_c0_seq1	L89	12.9793163263051
comp86577_c1_seq1	L7	37.4887545560986	comp88514_c0_seq1	L32	64.7694572959129	comp112733_c0_seq1	L58	38.8669996723785	comp89714_c0_seq1	L89	12.9793163263051
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comp96839_c0_seq1	L7	39.1022175845379	comp101353_c0_seq1	L32	66.3829203243522	comp115315_c0_seq1	L58	38.8669996723785	comp94398_c0_seq1	L89	14.5927793547444
comp96839_c2_seq1	L7	39.1022175845379	comp101493_c0_seq1	L32	66.3829203243522	comp117408_c1_seq2	L58	38.8669996723785	comp118795_c1_seq1	L89	16.2062423831837
comp100908_c1_seq1	L7	47.237775954036	comp114461_c0_seq1	L32	66.3829203243522	comp119744_c0_seq1	L58	38.8669996723785	comp112040_c0_seq1	L89	19.4365356701838
comp109611_c0_seq1	L7	47.237775954036	comp114586_c0_seq1	L32	66.3829203243522	comp120941_c0_seq1	L58	38.8669996723785	comp115502_c0_seq1	L89	19.4365356701838
comp114003_c4_seq1	L7	47.237775954036	comp130517_c0_seq2	L32	66.3829203243522	comp125146_c0_seq1	L58	38.8669996723785	comp90120_c0_seq1	L89	19.4365356701838
comp115880_c0_seq1	L7	47.237775954036	comp101348_c0_seq1	L32	67.9963833527915	comp132639_c0_seq1	L58	38.8669996723785	comp101275_c0_seq1	L89	21.0499986986231
comp116734_c1_seq1	L7	47.237775954036	comp114552_c0_seq1	L32	67.9963833527915	comp64324_c0_seq1	L58	38.8669996723785	comp104251_c0_seq1	L89	21.0499986986231
comp122754_c0_seq1	L7	47.237775954036	comp119132_c0_seq1	L32	67.9963833527915	comp70186_c0_seq1	L58	38.8669996723785	comp104654_c1_seq1	L89	21.0499986986231

comp125205_c0_seq1	L7	47.2377775954036	comp119132_c2_seq1	L32	67.9963833527915	comp72378_c0_seq1	L58	38.8669996723785	comp117627_c0_seq2	L89	21.0499986986231
comp128264_c2_seq1	L7	47.2377775954036	comp130702_c1_seq1	L32	67.9963833527915	comp74064_c0_seq1	L58	38.8669996723785	comp119155_c0_seq1	L89	21.0499986986231
comp131366_c0_seq2	L7	47.2377775954036	comp65524_c1_seq1	L32	67.9963833527915	comp82957_c0_seq1	L58	38.8669996723785	comp130748_c0_seq1	L89	21.0499986986231
comp94887_c0_seq1	L7	47.2377775954036	comp83591_c0_seq1	L32	67.9963833527915	comp86534_c0_seq1	L58	38.8669996723785	comp67853_c0_seq1	L89	21.0499986986231
comp116613_c0_seq1	L7	48.8512406238428	comp122477_c0_seq1	L32	71.2266766397916	comp88805_c0_seq1	L58	38.8669996723785	comp71915_c0_seq1	L89	21.0499986986231
comp129950_c0_seq1	L7	48.8512406238428	comp123768_c0_seq1	L32	71.2266766397916	comp95156_c0_seq1	L58	38.8669996723785	comp74054_c0_seq1	L89	21.0499986986231
comp89022_c0_seq1	L7	52.081533910843	comp111103_c0_seq2	L32	74.4569699267918	comp97282_c0_seq1	L58	38.8669996723785	comp84325_c0_seq2	L89	21.0499986986231
comp108655_c0_seq1	L7	53.6949969392823	comp123457_c0_seq1	L32	74.4569699267918	comp97296_c0_seq1	L58	38.8669996723785	comp97707_c0_seq1	L89	21.0499986986231
comp120115_c0_seq1	L7	53.6949969392823	comp124040_c0_seq2	L32	74.4569699267918	comp97380_c0_seq1	L58	38.8669996723785	comp106419_c0_seq1	L89	22.6634617270624
comp123364_c0_seq1	L7	53.6949969392823	comp126518_c1_seq1	L32	74.4569699267918	comp97828_c0_seq1	L58	38.8669996723785	comp115444_c0_seq1	L89	22.6634617270624
comp126553_c0_seq1	L7	53.6949969392823	comp126796_c0_seq1	L32	74.4569699267918	comp98062_c0_seq1	L58	38.8669996723785	comp116400_c0_seq1	L89	22.6634617270624
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comp98997_c0_seq1	L7	61.830556950148	comp132263_c0_seq1	L32	74.4569699267918	comp121473_c0_seq1	L59	0	comp122456_c0_seq2	L89	22.6634617270624
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comp114272_c0_seq1	L7	66.6844573111719	comp105929_c0_seq1	L32	84.2580221211924	comp125448_c1_seq1	L59	0	comp104826_c0_seq1	L89	24.2769247555017
comp119600_c0_seq1	L7	66.6844573111719	comp108105_c0_seq1	L32	84.2580221211924	comp127764_c0_seq1	L59	0	comp116408_c1_seq1	L89	24.2769247555017
comp93323_c0_seq1	L7	66.6844573111719	comp108105_c1_seq1	L32	84.2580221211924	comp130663_c0_seq1	L59	0	comp116927_c0_seq2	L89	24.2769247555017
comp100024_c0_seq1	L7	76.4855095055725	comp108951_c0_seq1	L32	84.2580221211924	comp108908_c0_seq1	L59	4.85390036102393	comp118906_c0_seq2	L89	24.2769247555017
comp42440_c0_seq1	L7	76.4855095055725	comp117645_c0_seq1	L32	84.2580221211924	comp118357_c0_seq2	L59	4.85390036102393	comp121017_c0_seq1	L89	24.2769247555017
comp81821_c1_seq1	L7	76.4855095055725	comp125381_c1_seq1	L32	84.2580221211924	comp132636_c0_seq1	L59	4.85390036102393	comp127851_c0_seq3	L89	24.2769247555017
comp82904_c0_seq1	L7	76.4855095055725	comp100187_c0_seq1	L32	87.4883154081925	comp109070_c0_seq1	L59	6.46736338946321	comp128694_c0_seq1	L89	24.2769247555017
comp87701_c0_seq1	L7	76.4855095055725	comp114819_c0_seq1	L32	87.4883154081925	comp109070_c1_seq1	L59	6.46736338946321	comp132080_c0_seq1	L89	24.2769247555017
comp88453_c0_seq1	L7	76.4855095055725	comp129244_c0_seq1	L32	87.4883154081925	comp113735_c0_seq1	L59	6.46736338946321	comp74564_c0_seq2	L89	24.2769247555017
comp96831_c0_seq1	L7	76.4855095055725	comp132255_c0_seq2	L32	87.4883154081925	comp115997_c0_seq1	L59	6.46736338946321	comp89548_c0_seq1	L89	24.2769247555017
comp113563_c0_seq1	L7	81.3394098665964	comp127318_c0_seq1	L32	89.1017784366318	comp122903_c0_seq1	L59	6.46736338946321	comp108522_c0_seq1	L89	35.7652329899627
comp116232_c0_seq1	L7	81.3394098665964	comp101529_c0_seq1	L32	93.9556787976558	comp96984_c0_seq1	L59	6.46736338946321	comp108532_c0_seq1	L89	43.9007930008284
comp90611_c0_seq2	L7	81.3394098665964	comp102282_c0_seq1	L32	93.9556787976558	comp110857_c0_seq1	L59	8.08082641790249	comp131046_c0_seq1	L89	43.9007930008284
comp101714_c1_seq1	L7	82.9528728950357	comp110659_c0_seq1	L32	93.9556787976558	comp112528_c0_seq1	L59	8.08082641790249	comp131157_c0_seq1	L89	43.9007930008284
comp102027_c0_seq1	L7	82.9528728950357	comp114257_c0_seq1	L32	93.9556787976558	comp121348_c0_seq1	L59	8.08082641790249	comp131879_c0_seq1	L89	43.9007930008284

comp103449_c0_seq5	L7	82.9528728950357	comp115482_c3_seq1	L32	93.9556787976558	comp122960_c1_seq1	L59	8.08082641790249	comp108920_c0_seq1	L89	52.0363530116941
comp104218_c0_seq3	L7	82.9528728950357	comp115664_c0_seq1	L32	93.9556787976558	comp128670_c0_seq1	L59	8.08082641790249	comp121472_c0_seq1	L89	52.0363530116941
comp105253_c0_seq1	L7	82.9528728950357	comp115745_c0_seq1	L32	93.9556787976558	comp107319_c0_seq1	L59	9.69428944634177	comp123325_c0_seq1	L89	52.0363530116941
comp106239_c0_seq1	L7	82.9528728950357	comp117843_c0_seq1	L32	93.9556787976558	comp111710_c0_seq1	L59	9.69428944634177	comp129846_c0_seq2	L89	52.0363530116941
comp116664_c2_seq1	L7	82.9528728950357	comp122038_c0_seq2	L32	93.9556787976558	comp127588_c0_seq1	L59	9.69428944634177	comp129871_c2_seq1	L89	52.0363530116941
comp117100_c0_seq1	L7	82.9528728950357	comp122697_c0_seq1	L32	93.9556787976558	comp129133_c0_seq1	L59	9.69428944634177	comp97289_c0_seq1	L89	52.0363530116941
comp118439_c0_seq1	L7	82.9528728950357	comp128374_c0_seq1	L32	93.9556787976558	comp92673_c0_seq1	L59	9.69428944634177	comp119745_c0_seq1	L89	53.6498160401334
comp121300_c0_seq1	L7	82.9528728950357	comp131246_c1_seq1	L32	93.9556787976558	comp93107_c0_seq1	L59	9.69428944634177	comp122934_c0_seq1	L89	53.6498160401334
comp123065_c0_seq1	L7	82.9528728950357	comp131624_c0_seq1	L32	93.9556787976558	comp96586_c0_seq1	L59	9.69428944634177	comp132503_c0_seq1	L89	53.6498160401334
comp123336_c0_seq1	L7	82.9528728950357	comp132006_c0_seq1	L32	93.9556787976558	comp101816_c0_seq1	L59	16.1820693334689	comp90478_c0_seq1	L89	53.6498160401334
comp123336_c1_seq1	L7	82.9528728950357	comp32310_c0_seq1	L32	93.9556787976558	comp107846_c0_seq1	L59	16.1820693334689	comp114513_c0_seq1	L89	58.5037164011573
comp123382_c3_seq1	L7	82.9528728950357	comp79223_c0_seq1	L32	93.9556787976558	comp119172_c0_seq1	L59	16.1820693334689	comp116705_c0_seq1	L89	58.5037164011573
comp124762_c0_seq1	L7	82.9528728950357	comp79527_c0_seq1	L32	93.9556787976558	comp128091_c0_seq1	L59	16.1820693334689	comp125333_c0_seq1	L89	58.5037164011573
comp126478_c0_seq1	L7	82.9528728950357	comp84516_c0_seq1	L32	93.9556787976558	comp126917_c0_seq2	L59	22.669849220596	comp127769_c0_seq1	L89	58.5037164011573
comp126838_c1_seq1	L7	82.9528728950357	comp87923_c0_seq1	L32	93.9556787976558	comp128865_c0_seq1	L59	24.2833122490353	comp133436_c0_seq1	L89	58.5037164011573
comp132829_c0_seq1	L7	82.9528728950357	comp107808_c0_seq1	L32	95.569141826095	comp101617_c0_seq2	L59	27.5136055360354	comp102861_c0_seq2	L89	60.1171794295966
comp73203_c0_seq1	L7	82.9528728950357	comp116051_c0_seq1	L32	95.569141826095	comp102586_c0_seq1	L59	27.5136055360354	comp110694_c0_seq2	L89	60.1171794295966
comp74844_c0_seq1	L7	82.9528728950357	comp128792_c0_seq1	L32	95.569141826095	comp118494_c0_seq1	L59	27.5136055360354	comp114268_c0_seq1	L89	60.1171794295966
comp79102_c0_seq1	L7	82.9528728950357	comp72403_c1_seq1	L32	95.569141826095	comp46457_c0_seq1	L59	27.5136055360354	comp115821_c0_seq1	L89	60.1171794295966
comp82363_c0_seq1	L7	82.9528728950357	comp72403_c2_seq2	L32	95.569141826095	comp96974_c0_seq1	L59	30.7438988230356	comp117494_c0_seq1	L89	60.1171794295966
comp84716_c0_seq1	L7	82.9528728950357	comp83825_c0_seq1	L32	95.569141826095	comp100533_c0_seq1	L59	32.3573618514749	comp119027_c1_seq1	L89	60.1171794295966
comp87011_c0_seq1	L7	82.9528728950357	comp86343_c0_seq1	L32	95.569141826095	comp101345_c0_seq1	L59	32.3573618514749	comp121458_c0_seq1	L89	60.1171794295966
comp87455_c0_seq1	L7	82.9528728950357	comp90146_c0_seq1	L32	95.569141826095	comp104240_c0_seq1	L59	32.3573618514749	comp122885_c2_seq13	L89	60.1171794295966
comp87499_c0_seq1	L7	82.9528728950357	comp95255_c0_seq1	L32	95.569141826095	comp110698_c0_seq1	L59	32.3573618514749	comp124342_c0_seq2	L89	60.1171794295966
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comp94753_c0_seq1	L7	82.9528728950357	comp104548_c0_seq1	L32	102.056921713222	comp65932_c0_seq1	L59	32.3573618514749	comp127813_c0_seq1	L89	60.1171794295966
comp95982_c0_seq1	L7	82.9528728950357	comp106391_c0_seq1	L32	102.056921713222	comp77545_c0_seq2	L59	32.3573618514749	comp127872_c0_seq1	L89	60.1171794295966

comp103562_c0_seq1	L7	86.1831661820359	comp107171_c0_seq1	L32	102.056921713222	comp98210_c0_seq1	L59	32.3573618514749	comp130781_c0_seq1	L89	60.1171794295966
comp108251_c1_seq1	L7	86.1831661820359	comp118746_c0_seq1	L32	102.056921713222	comp98446_c0_seq1	L59	32.3573618514749	comp131567_c1_seq1	L89	60.1171794295966
comp111982_c0_seq2	L7	86.1831661820359	comp119962_c0_seq1	L32	102.056921713222	comp100445_c0_seq1	L59	33.9708248799141	comp48662_c0_seq1	L89	60.1171794295966
comp114657_c0_seq1	L7	86.1831661820359	comp41627_c0_seq1	L32	102.056921713222	comp103999_c0_seq1	L59	33.9708248799141	comp52419_c0_seq1	L89	60.1171794295966
comp115373_c0_seq1	L7	86.1831661820359	comp53882_c0_seq1	L32	102.056921713222	comp105650_c0_seq1	L59	33.9708248799141	comp70836_c0_seq1	L89	60.1171794295966
comp118513_c1_seq1	L7	86.1831661820359	comp72780_c0_seq1	L32	102.056921713222	comp111310_c1_seq1	L59	33.9708248799141	comp75896_c0_seq1	L89	60.1171794295966
comp120442_c0_seq1	L7	86.1831661820359	comp74462_c0_seq1	L32	102.056921713222	comp114163_c0_seq1	L59	33.9708248799141	comp100967_c0_seq1	L89	61.7306424580359
comp122316_c1_seq5	L7	86.1831661820359	comp78306_c0_seq1	L32	102.056921713222	comp114997_c1_seq1	L59	33.9708248799141	comp102344_c0_seq1	L89	61.7306424580359
comp123649_c0_seq1	L7	86.1831661820359	comp82036_c0_seq1	L32	102.056921713222	comp115311_c0_seq1	L59	33.9708248799141	comp113924_c0_seq1	L89	61.7306424580359
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comp129243_c0_seq1	L7	86.1831661820359	comp86605_c0_seq1	L32	102.056921713222	comp115682_c0_seq1	L59	33.9708248799141	comp127247_c0_seq1	L89	61.7306424580359
comp129391_c0_seq1	L7	86.1831661820359	comp89396_c0_seq1	L32	102.056921713222	comp117586_c0_seq1	L59	33.9708248799141	comp128018_c0_seq2	L89	61.7306424580359
comp100723_c0_seq1	L7	87.7966292104752	comp96898_c0_seq1	L32	102.056921713222	comp119621_c0_seq1	L59	33.9708248799141	comp128495_c0_seq1	L89	61.7306424580359
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comp119738_c0_seq1	L7	87.7966292104752	comp82815_c0_seq1	L32	103.670384741661	comp120061_c0_seq1	L59	33.9708248799141	comp132360_c0_seq2	L89	61.7306424580359
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comp126284_c0_seq1	L7	87.7966292104752	comp108739_c0_seq1	L33	6.48777988712711	comp124853_c0_seq1	L59	33.9708248799141	comp41294_c0_seq1	L89	61.7306424580359
comp127775_c0_seq1	L7	87.7966292104752	comp114226_c0_seq1	L33	6.48777988712711	comp125396_c1_seq1	L59	33.9708248799141	comp59000_c0_seq1	L89	61.7306424580359
comp131743_c0_seq1	L7	87.7966292104752	comp116505_c0_seq1	L33	6.48777988712711	comp125616_c0_seq1	L59	33.9708248799141	comp103500_c0_seq1	L89	63.3441054864751
comp94298_c0_seq1	L7	87.7966292104752	comp121149_c2_seq1	L33	6.48777988712711	comp125791_c0_seq1	L59	33.9708248799141	comp107336_c0_seq1	L89	63.3441054864751
comp102215_c0_seq1	L7	89.4100922389144	comp123300_c0_seq1	L33	6.48777988712711	comp125857_c0_seq1	L59	33.9708248799141	comp112300_c0_seq1	L89	63.3441054864751
comp102718_c0_seq1	L7	89.4100922389144	comp126229_c1_seq1	L33	6.48777988712711	comp127050_c3_seq1	L59	33.9708248799141	comp118615_c0_seq1	L89	63.3441054864751
comp103713_c0_seq1	L7	89.4100922389144	comp128950_c0_seq1	L33	6.48777988712711	comp127518_c0_seq1	L59	33.9708248799141	comp122593_c0_seq1	L89	63.3441054864751
comp106283_c0_seq2	L7	89.4100922389144	comp129063_c0_seq1	L33	6.48777988712711	comp127693_c0_seq1	L59	33.9708248799141	comp130973_c0_seq1	L89	63.3441054864751
comp108876_c0_seq1	L7	89.4100922389144	comp132806_c1_seq1	L33	6.48777988712711	comp129099_c0_seq1	L59	33.9708248799141	comp133767_c0_seq1	L89	63.3441054864751
comp115511_c0_seq1	L7	89.4100922389144	comp133718_c1_seq2	L33	6.48777988712711	comp129433_c0_seq1	L59	33.9708248799141	comp119977_c1_seq1	L89	68.1980058474991
comp115933_c0_seq5	L7	89.4100922389144	comp91689_c0_seq1	L33	6.48777988712711	comp130334_c0_seq1	L59	33.9708248799141	comp120287_c0_seq1	L89	68.1980058474991
comp116753_c0_seq1	L7	89.4100922389144	comp100198_c0_seq1	L33	9.71807317412726	comp130843_c1_seq5	L59	33.9708248799141	comp121528_c0_seq2	L89	68.1980058474991
comp117849_c0_seq1	L7	89.4100922389144	comp103817_c0_seq1	L33	9.71807317412726	comp130868_c0_seq1	L59	33.9708248799141	comp128071_c0_seq1	L89	68.1980058474991

comp121955_c0_seq5	L7	89.4100922389144	comp108154_c0_seq1	L33	9.71807317412726	comp131550_c0_seq1	L59	33.9708248799141	comp131868_c0_seq1	L89	68.1980058474991
comp122702_c0_seq1	L7	89.4100922389144	comp109622_c0_seq1	L33	9.71807317412726	comp131730_c0_seq1	L59	33.9708248799141	comp133604_c0_seq1	L89	68.1980058474991
comp123317_c0_seq1	L7	89.4100922389144	comp114896_c1_seq3	L33	9.71807317412726	comp131866_c0_seq1	L59	33.9708248799141	comp66639_c0_seq1	L89	68.1980058474991
comp126841_c2_seq1	L7	89.4100922389144	comp115969_c1_seq2	L33	9.71807317412726	comp132291_c0_seq1	L59	33.9708248799141	comp115316_c0_seq2	L89	71.4282991344992
comp130251_c1_seq1	L7	89.4100922389144	comp116102_c0_seq1	L33	9.71807317412726	comp132462_c0_seq1	L59	33.9708248799141	comp124611_c0_seq1	L89	71.4282991344992
comp131396_c0_seq1	L7	89.4100922389144	comp128954_c1_seq3	L33	9.71807317412726	comp73082_c0_seq1	L59	33.9708248799141	comp124982_c0_seq1	L89	71.4282991344992
comp133843_c0_seq2	L7	89.4100922389144	comp131891_c1_seq1	L33	9.71807317412726	comp75957_c0_seq1	L59	33.9708248799141	comp132945_c0_seq1	L89	71.4282991344992
comp134824_c0_seq1	L7	89.4100922389144	comp132352_c0_seq1	L33	9.71807317412726	comp78603_c0_seq1	L59	33.9708248799141	comp133630_c0_seq1	L89	71.4282991344992
comp98902_c0_seq1	L7	89.4100922389144	comp132858_c0_seq1	L33	9.71807317412726	comp78686_c0_seq1	L59	33.9708248799141	comp101452_c0_seq1	L89	76.2821994955231
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comp131143_c0_seq1	L7	92.6403855259146	comp91700_c0_seq1	L33	9.71807317412726	comp90866_c0_seq1	L59	33.9708248799141	comp102313_c0_seq1	L89	76.2821994955231
comp133489_c0_seq1	L7	92.6403855259146	comp101735_c0_seq2	L33	12.9483664611274	comp93165_c0_seq1	L59	33.9708248799141	comp103087_c0_seq1	L89	76.2821994955231
comp100472_c0_seq1	L7	94.2538485543539	comp124871_c0_seq1	L33	12.9483664611274	comp95570_c0_seq1	L59	33.9708248799141	comp103804_c0_seq1	L89	76.2821994955231
comp101421_c0_seq1	L7	94.2538485543539	comp125141_c0_seq1	L33	12.9483664611274	comp95787_c0_seq1	L59	33.9708248799141	comp105367_c0_seq1	L89	76.2821994955231
comp102101_c1_seq1	L7	94.2538485543539	comp94361_c0_seq1	L33	12.9483664611274	comp97031_c1_seq1	L59	33.9708248799141	comp105486_c0_seq1	L89	76.2821994955231
comp104605_c2_seq1	L7	94.2538485543539	comp109904_c0_seq1	L33	22.749418655528	comp97095_c0_seq1	L59	33.9708248799141	comp106057_c0_seq1	L89	76.2821994955231
comp105199_c2_seq1	L7	94.2538485543539	comp111023_c0_seq1	L33	22.749418655528	comp101393_c0_seq1	L59	43.7718770743147	comp107695_c0_seq1	L89	76.2821994955231
comp106085_c0_seq2	L7	94.2538485543539	comp130132_c0_seq1	L33	22.749418655528	comp122479_c0_seq1	L59	43.7718770743147	comp108531_c0_seq1	L89	76.2821994955231
comp109739_c2_seq1	L7	94.2538485543539	comp67943_c0_seq1	L33	22.749418655528	comp131373_c2_seq1	L59	43.7718770743147	comp111699_c1_seq3	L89	76.2821994955231
comp110990_c0_seq1	L7	94.2538485543539	comp95506_c0_seq1	L33	22.749418655528	comp115863_c0_seq1	L59	48.6257774353387	comp112192_c0_seq1	L89	76.2821994955231
comp113079_c0_seq1	L7	94.2538485543539	comp68707_c1_seq1	L34	0	comp128769_c0_seq1	L59	48.6257774353387	comp113199_c0_seq1	L89	76.2821994955231
comp116691_c0_seq22	L7	94.2538485543539	comp104278_c0_seq1	L34	1.61346302843928	comp130024_c0_seq1	L59	48.6257774353387	comp113199_c1_seq1	L89	76.2821994955231
comp117363_c0_seq1	L7	94.2538485543539	comp117053_c0_seq1	L34	1.61346302843928	comp133693_c2_seq2	L59	50.2392404637779	comp113379_c0_seq1	L89	76.2821994955231
comp119377_c0_seq1	L7	94.2538485543539	comp117628_c0_seq1	L34	1.61346302843928	comp101319_c0_seq1	L59	53.4695337507781	comp114051_c0_seq1	L89	76.2821994955231
comp125545_c0_seq1	L7	94.2538485543539	comp20424_c0_seq1	L34	1.61346302843928	comp101562_c0_seq1	L59	53.4695337507781	comp114311_c0_seq1	L89	76.2821994955231
comp129667_c2_seq1	L7	94.2538485543539	comp40491_c0_seq1	L34	1.61346302843928	comp104711_c1_seq1	L59	53.4695337507781	comp114311_c2_seq2	L89	76.2821994955231
comp129826_c3_seq5	L7	94.2538485543539	comp73968_c0_seq1	L34	1.61346302843928	comp106166_c0_seq1	L59	53.4695337507781	comp114529_c4_seq1	L89	76.2821994955231
comp131890_c0_seq1	L7	94.2538485543539	comp83951_c1_seq1	L34	1.61346302843928	comp108990_c0_seq1	L59	53.4695337507781	comp115152_c0_seq1	L89	76.2821994955231
comp133061_c1_seq1	L7	94.2538485543539	comp85475_c0_seq1	L34	1.61346302843928	comp112871_c0_seq1	L59	53.4695337507781	comp115808_c0_seq1	L89	76.2821994955231



comp133815_c1_seq1	L7	94.2538485543539	comp85487_c0_seq1	L34	1.61346302843928	comp84502_c1_seq1	L59	53.4695337507781	comp116832_c0_seq1	L89	76.2821994955231
comp53750_c0_seq1	L7	94.2538485543539	comp86834_c0_seq1	L34	1.61346302843928	comp85165_c0_seq1	L59	53.4695337507781	comp117461_c0_seq1	L89	76.2821994955231
comp63640_c0_seq1	L7	94.2538485543539	comp96762_c0_seq1	L34	1.61346302843928	comp93140_c0_seq1	L59	53.4695337507781	comp119177_c1_seq1	L89	76.2821994955231
comp87323_c0_seq1	L7	94.2538485543539	comp99691_c0_seq1	L34	1.61346302843928	comp94455_c0_seq1	L59	53.4695337507781	comp119569_c0_seq1	L89	76.2821994955231
comp87497_c0_seq1	L7	94.2538485543539	comp108772_c0_seq1	L34	3.22692605687856	comp96176_c1_seq1	L59	53.4695337507781	comp120536_c0_seq1	L89	76.2821994955231
comp89145_c0_seq1	L7	94.2538485543539	comp122757_c2_seq1	L34	3.22692605687856	comp100869_c0_seq1	L59	55.0829967792174	comp120755_c0_seq1	L89	76.2821994955231
comp90516_c0_seq1	L7	94.2538485543539	comp122872_c0_seq8	L34	3.22692605687856	comp103244_c0_seq1	L59	55.0829967792174	comp121480_c1_seq1	L89	76.2821994955231
comp91357_c0_seq1	L7	94.2538485543539	comp29127_c0_seq1	L34	3.22692605687856	comp106758_c0_seq1	L59	55.0829967792174	comp121680_c0_seq1	L89	76.2821994955231
comp94088_c0_seq1	L7	94.2538485543539	comp70676_c0_seq1	L34	3.22692605687856	comp107080_c0_seq1	L59	55.0829967792174	comp123956_c0_seq1	L89	76.2821994955231
comp112417_c0_seq1	L8	0	comp7289_c0_seq1	L34	3.22692605687856	comp107129_c0_seq1	L59	55.0829967792174	comp124313_c1_seq1	L89	76.2821994955231
comp124914_c0_seq1	L8	0	comp8696_c0_seq1	L34	3.22692605687856	comp108974_c1_seq1	L59	55.0829967792174	comp124502_c0_seq1	L89	76.2821994955231
comp132585_c0_seq1	L8	0	comp95981_c0_seq1	L34	3.22692605687856	comp109536_c0_seq1	L59	55.0829967792174	comp124835_c0_seq1	L89	76.2821994955231
comp133119_c1_seq1	L8	0	comp102246_c0_seq1	L34	4.84038908531784	comp111194_c2_seq1	L59	55.0829967792174	comp125646_c0_seq2	L89	76.2821994955231
comp126022_c0_seq1	L8	1.61346302843928	comp103195_c0_seq1	L34	4.84038908531784	comp113184_c0_seq1	L59	55.0829967792174	comp125909_c0_seq1	L89	76.2821994955231
comp111640_c0_seq1	L8	3.22692605687856	comp107028_c0_seq1	L34	4.84038908531784	comp113436_c0_seq1	L59	55.0829967792174	comp126603_c0_seq1	L89	76.2821994955231
comp118699_c0_seq2	L8	6.45721934387871	comp108077_c0_seq1	L34	4.84038908531784	comp114262_c0_seq1	L59	55.0829967792174	comp127007_c0_seq1	L89	76.2821994955231
comp97069_c0_seq1	L8	6.45721934387871	comp108437_c0_seq1	L34	4.84038908531784	comp115401_c0_seq5	L59	55.0829967792174	comp127838_c1_seq1	L89	76.2821994955231
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comp111133_c1_seq1	L8	8.07068237231799	comp113140_c0_seq1	L34	4.84038908531784	comp62630_c0_seq1	L59	55.0829967792174	comp26326_c0_seq1	L89	76.2821994955231
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comp115890_c0_seq1	L8	8.07068237231799	comp117057_c0_seq1	L34	4.84038908531784	comp71413_c1_seq1	L59	55.0829967792174	comp45351_c0_seq1	L89	76.2821994955231
comp119221_c0_seq1	L8	8.07068237231799	comp120473_c0_seq1	L34	4.84038908531784	comp72460_c0_seq1	L59	55.0829967792174	comp53694_c0_seq1	L89	76.2821994955231
comp121551_c0_seq1	L8	8.07068237231799	comp120741_c1_seq1	L34	4.84038908531784	comp81014_c0_seq1	L59	55.0829967792174	comp72685_c1_seq2	L89	76.2821994955231
comp70244_c0_seq1	L8	8.07068237231799	comp124171_c0_seq1	L34	4.84038908531784	comp83192_c0_seq1	L59	55.0829967792174	comp72835_c0_seq1	L89	76.2821994955231
comp100699_c0_seq1	L8	9.68414540075727	comp124657_c0_seq1	L34	4.84038908531784	comp86313_c0_seq1	L59	55.0829967792174	comp73026_c0_seq1	L89	76.2821994955231
comp105462_c0_seq2	L8	9.68414540075727	comp127400_c0_seq1	L34	4.84038908531784	comp88389_c0_seq1	L59	55.0829967792174	comp75739_c0_seq1	L89	76.2821994955231
comp10607_c0_seq1	L8	9.68414540075727	comp127962_c0_seq1	L34	4.84038908531784	comp90434_c0_seq1	L59	55.0829967792174	comp81100_c0_seq1	L89	76.2821994955231
comp123298_c1_seq1	L8	9.68414540075727	comp127979_c0_seq1	L34	4.84038908531784	comp96799_c0_seq1	L59	55.0829967792174	comp83319_c0_seq1	L89	76.2821994955231
comp130155_c0_seq1	L8	9.68414540075727	comp128687_c2_seq1	L34	4.84038908531784	comp97192_c0_seq1	L59	55.0829967792174	comp85208_c0_seq1	L89	76.2821994955231

comp115868_c0_seq2	L8	19.4851975951579	comp131715_c1_seq1	L34	4.84038908531784	comp97276_c0_seq1	L59	55.0829967792174	comp85599_c0_seq1	L89	76.2821994955231
comp115905_c0_seq1	L8	19.4851975951579	comp46833_c0_seq1	L34	4.84038908531784	comp98888_c0_seq2	L59	55.0829967792174	comp85900_c0_seq2	L89	76.2821994955231
comp100114_c0_seq1	L8	27.6207576060236	comp72157_c0_seq1	L34	4.84038908531784	comp103361_c0_seq1	L59	58.3132900662175	comp89183_c0_seq1	L89	76.2821994955231
comp113611_c0_seq1	L8	27.6207576060236	comp76229_c0_seq1	L34	4.84038908531784	comp103792_c0_seq1	L59	58.3132900662175	comp89708_c0_seq1	L89	76.2821994955231
comp116446_c0_seq1	L8	27.6207576060236	comp78079_c0_seq1	L34	4.84038908531784	comp127696_c2_seq1	L59	58.3132900662175	comp89834_c0_seq1	L89	76.2821994955231
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comp124723_c0_seq1	L8	27.6207576060236	comp82889_c0_seq1	L34	4.84038908531784	comp68201_c0_seq1	L59	58.3132900662175	comp91688_c0_seq1	L89	76.2821994955231
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comp99008_c0_seq3	L8	27.6207576060236	comp94242_c0_seq1	L34	4.84038908531784	comp90201_c0_seq1	L59	58.3132900662175	comp113161_c0_seq2	L90	4.85390036102393
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comp100025_c0_seq1	L8	35.72200052159	comp130081_c0_seq1	L34	6.45385211375712	comp100584_c0_seq1	L60	0	comp122620_c0_seq3	L90	4.85390036102393
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comp103203_c0_seq4	L8	43.8232434371563	comp105348_c0_seq1	L34	60.343692676383	comp93243_c0_seq1	L60	0	comp131249_c0_seq1	L90	29.2092140307794
comp125255_c0_seq2	L8	43.8232434371563	comp106964_c0_seq1	L34	60.343692676383	comp94119_c0_seq2	L60	0	comp86845_c1_seq1	L90	29.2092140307794
comp128375_c0_seq1	L8	43.8232434371563	comp120272_c0_seq1	L34	60.343692676383	comp96714_c0_seq1	L60	0	comp87300_c0_seq1	L90	29.2092140307794
comp130849_c0_seq2	L8	43.8232434371563	comp123268_c0_seq1	L34	60.343692676383	comp96819_c0_seq1	L60	0	comp91906_c0_seq2	L90	29.2092140307794
comp87645_c0_seq1	L8	43.8232434371563	comp130312_c0_seq1	L34	60.343692676383	comp98631_c0_seq1	L60	0	comp92914_c0_seq1	L90	29.2092140307794
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comp106347_c2_seq2	L8	61.8788295531927	comp124577_c0_seq1	L34	63.5739859633831	comp99828_c0_seq2	L60	3.22692605687856	comp115545_c0_seq1	L90	32.436140087658
comp110248_c0_seq1	L8	61.8788295531927	comp125777_c0_seq1	L34	63.5739859633831	comp115123_c0_seq2	L60	4.84038908531784	comp116392_c0_seq1	L90	32.436140087658
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comp113609_c0_seq1	L8	61.8788295531927	comp126458_c2_seq1	L34	63.5739859633831	comp128366_c1_seq1	L60	4.84038908531784	comp122233_c0_seq1	L90	32.436140087658
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comp117537_c0_seq2	L8	61.8788295531927	comp71489_c0_seq1	L34	63.5739859633831	comp101324_c0_seq2	L60	8.07068237231799	comp127858_c0_seq1	L90	32.436140087658
comp118810_c0_seq1	L8	61.8788295531927	comp75944_c0_seq1	L34	63.5739859633831	comp102636_c0_seq1	L60	8.07068237231799	comp131622_c0_seq1	L90	32.436140087658
comp120727_c0_seq1	L8	61.8788295531927	comp128379_c0_seq1	L34	70.0617658505102	comp103170_c0_seq1	L60	8.07068237231799	comp80057_c0_seq1	L90	32.436140087658
comp121195_c0_seq1	L8	61.8788295531927	comp132818_c0_seq2	L34	70.0617658505102	comp104076_c0_seq1	L60	8.07068237231799	comp82914_c0_seq1	L90	32.436140087658
comp126470_c0_seq1	L8	61.8788295531927	comp133424_c0_seq2	L34	70.0617658505102	comp105095_c0_seq1	L60	8.07068237231799	comp88245_c1_seq1	L90	32.436140087658
comp128700_c0_seq1	L8	61.8788295531927	comp102542_c0_seq1	L34	71.6752288789495	comp108039_c0_seq1	L60	8.07068237231799	comp92614_c0_seq1	L90	32.436140087658
comp129602_c0_seq1	L8	61.8788295531927	comp123876_c0_seq2	L34	71.6752288789495	comp108520_c0_seq1	L60	8.07068237231799	comp96936_c0_seq1	L90	32.436140087658
comp130318_c0_seq2	L8	61.8788295531927	comp124197_c1_seq1	L34	71.6752288789495	comp109026_c0_seq1	L60	8.07068237231799	comp99444_c0_seq1	L90	32.436140087658
comp131408_c0_seq1	L8	61.8788295531927	comp125444_c0_seq1	L34	71.6752288789495	comp118571_c0_seq2	L60	8.07068237231799	comp100976_c0_seq1	L90	37.2900404486819
comp67328_c0_seq1	L8	61.8788295531927	comp88634_c0_seq1	L34	71.6752288789495	comp120203_c2_seq2	L60	8.07068237231799	comp102422_c0_seq1	L90	37.2900404486819
comp67877_c0_seq1	L8	61.8788295531927	comp95699_c0_seq1	L34	71.6752288789495	comp120799_c0_seq1	L60	8.07068237231799	comp103035_c0_seq1	L90	37.2900404486819
comp76563_c0_seq1	L8	61.8788295531927	comp107399_c0_seq1	L34	73.2886919073888	comp122062_c0_seq1	L60	8.07068237231799	comp103568_c0_seq1	L90	37.2900404486819
comp79730_c0_seq1	L8	61.8788295531927	comp100221_c0_seq1	L34	78.1425922684127	comp125959_c0_seq1	L60	8.07068237231799	comp106295_c0_seq1	L90	37.2900404486819
comp80822_c0_seq2	L8	61.8788295531927	comp100221_c1_seq1	L34	78.1425922684127	comp129594_c0_seq1	L60	8.07068237231799	comp106692_c0_seq1	L90	37.2900404486819
comp81967_c0_seq1	L8	61.8788295531927	comp107880_c0_seq1	L34	78.1425922684127	comp129758_c0_seq1	L60	8.07068237231799	comp107608_c0_seq2	L90	37.2900404486819
comp85192_c0_seq1	L8	61.8788295531927	comp112228_c0_seq1	L34	78.1425922684127	comp132202_c0_seq1	L60	8.07068237231799	comp107984_c0_seq4	L90	37.2900404486819
comp89357_c0_seq1	L8	61.8788295531927	comp112809_c0_seq1	L34	78.1425922684127	comp132408_c0_seq1	L60	8.07068237231799	comp109234_c0_seq1	L90	37.2900404486819
comp90027_c0_seq1	L8	61.8788295531927	comp113428_c0_seq2	L34	78.1425922684127	comp67152_c0_seq1	L60	8.07068237231799	comp111084_c0_seq1	L90	37.2900404486819
comp92685_c0_seq1	L8	61.8788295531927	comp114075_c1_seq1	L34	78.1425922684127	comp69806_c0_seq1	L60	8.07068237231799	comp113684_c0_seq1	L90	37.2900404486819
comp45979_c0_seq1	L8	63.492292581632	comp119233_c0_seq1	L34	78.1425922684127	comp90974_c0_seq1	L60	8.07068237231799	comp114259_c0_seq1	L90	37.2900404486819
comp100916_c0_seq1	L8	66.7225858686321	comp119353_c0_seq1	L34	78.1425922684127	comp93527_c0_seq1	L60	8.07068237231799	comp114561_c0_seq1	L90	37.2900404486819
comp104451_c0_seq1	L8	66.7225858686321	comp119353_c1_seq1	L34	78.1425922684127	comp94652_c0_seq3	L60	8.07068237231799	comp116334_c0_seq1	L90	37.2900404486819
comp105718_c0_seq1	L8	66.7225858686321	comp120358_c0_seq1	L34	78.1425922684127	comp116128_c0_seq1	L60	12.9245827333419	comp118118_c0_seq1	L90	37.2900404486819
comp107448_c0_seq1	L8	66.7225858686321	comp122982_c0_seq1	L34	78.1425922684127	comp116128_c1_seq1	L60	12.9245827333419	comp119865_c0_seq1	L90	37.2900404486819
comp112112_c2_seq1	L8	66.7225858686321	comp123749_c0_seq1	L34	78.1425922684127	comp42125_c0_seq1	L60	12.9245827333419	comp120042_c1_seq1	L90	37.2900404486819
comp112896_c0_seq1	L8	66.7225858686321	comp124106_c0_seq2	L34	78.1425922684127	comp64136_c1_seq1	L60	12.9245827333419	comp121044_c0_seq1	L90	37.2900404486819
comp60828_c0_seq2	L8	66.7225858686321	comp127952_c0_seq1	L34	78.1425922684127	comp97790_c0_seq2	L60	12.9245827333419	comp121610_c0_seq1	L90	37.2900404486819

comp103003_c0_seq1	L9	0	comp131096_c0_seq1	L34	78.1425922684127	comp101005_c0_seq1	L60	16.1548760203421	comp121943_c0_seq1	L90	37.2900404486819
comp103819_c0_seq1	L9	0	comp132453_c0_seq2	L34	78.1425922684127	comp121918_c0_seq1	L60	16.1548760203421	comp122925_c0_seq3	L90	37.2900404486819
comp104425_c0_seq1	L9	0	comp132943_c0_seq4	L34	78.1425922684127	comp127604_c0_seq1	L60	16.1548760203421	comp127343_c0_seq1	L90	37.2900404486819
comp106909_c0_seq1	L9	0	comp77719_c1_seq1	L34	78.1425922684127	comp132927_c0_seq1	L60	16.1548760203421	comp127628_c0_seq2	L90	37.2900404486819
comp108433_c0_seq1	L9	0	comp97062_c0_seq1	L34	78.1425922684127	comp121056_c0_seq1	L60	17.7683390487814	comp127651_c1_seq1	L90	37.2900404486819
comp109310_c0_seq1	L9	0	comp102722_c3_seq1	L34	82.9964926294367	comp128722_c0_seq1	L60	17.7683390487814	comp128609_c0_seq1	L90	37.2900404486819
comp109496_c0_seq2	L9	0	comp125183_c0_seq1	L34	82.9964926294367	comp131477_c0_seq2	L60	17.7683390487814	comp128895_c0_seq1	L90	37.2900404486819
comp109531_c0_seq1	L9	0	comp126538_c0_seq1	L34	82.9964926294367	comp112355_c0_seq1	L60	19.3818020772206	comp131204_c0_seq1	L90	37.2900404486819
comp109585_c0_seq1	L9	0	comp131448_c0_seq1	L34	82.9964926294367	comp130502_c0_seq1	L60	19.3818020772206	comp133476_c2_seq1	L90	37.2900404486819
comp110182_c0_seq1	L9	0	comp94446_c1_seq2	L34	82.9964926294367	comp78551_c1_seq1	L60	19.3818020772206	comp40197_c0_seq1	L90	37.2900404486819
comp110453_c0_seq1	L9	0	comp103426_c0_seq1	L34	94.4848008638977	comp82045_c0_seq1	L60	19.3818020772206	comp41308_c0_seq1	L90	37.2900404486819
comp112356_c0_seq1	L9	0	comp107635_c0_seq1	L34	94.4848008638977	comp113024_c0_seq1	L60	20.9952651056599	comp69629_c0_seq1	L90	37.2900404486819
comp114034_c0_seq1	L9	0	comp109042_c0_seq1	L34	94.4848008638977	comp115861_c0_seq1	L60	20.9952651056599	comp74557_c0_seq1	L90	37.2900404486819
comp118800_c0_seq1	L9	0	comp110394_c0_seq1	L34	94.4848008638977	comp117309_c0_seq1	L60	20.9952651056599	comp78338_c0_seq1	L90	37.2900404486819
comp120972_c0_seq1	L9	0	comp127279_c0_seq1	L34	94.4848008638977	comp84519_c3_seq1	L60	20.9952651056599	comp82059_c0_seq2	L90	37.2900404486819
comp121775_c0_seq1	L9	0	comp133967_c1_seq1	L34	94.4848008638977	comp100450_c0_seq1	L60	25.8491654666839	comp82765_c0_seq1	L90	37.2900404486819
comp124592_c0_seq2	L9	0	comp88354_c0_seq1	L34	94.4848008638977	comp106348_c1_seq1	L60	25.8491654666839	comp84074_c0_seq3	L90	37.2900404486819
comp125031_c0_seq1	L9	0	comp102223_c0_seq1	L34	99.3387012249216	comp112497_c0_seq1	L60	25.8491654666839	comp84665_c0_seq1	L90	37.2900404486819
comp125069_c1_seq1	L9	0	comp118680_c0_seq1	L34	99.3387012249216	comp116638_c0_seq1	L60	25.8491654666839	comp86474_c0_seq1	L90	37.2900404486819
comp127982_c0_seq2	L9	0	comp119824_c0_seq1	L34	99.3387012249216	comp132850_c0_seq1	L60	25.8491654666839	comp87268_c0_seq1	L90	37.2900404486819
comp131027_c0_seq1	L9	0	comp125378_c0_seq1	L34	99.3387012249216	comp78794_c0_seq1	L60	25.8491654666839	comp88062_c0_seq1	L90	37.2900404486819
comp27165_c0_seq1	L9	0	comp131465_c0_seq2	L34	99.3387012249216	comp128916_c0_seq1	L60	30.7030658277078	comp90220_c0_seq1	L90	37.2900404486819
comp58203_c0_seq1	L9	0	comp133443_c0_seq1	L34	99.3387012249216	comp120746_c0_seq1	L60	32.3165288561471	comp92102_c0_seq1	L90	37.2900404486819
comp73066_c0_seq1	L9	0	comp133684_c0_seq1	L34	99.3387012249216	comp127818_c0_seq1	L60	32.3165288561471	comp95020_c0_seq1	L90	37.2900404486819
comp75322_c0_seq1	L9	0	comp90218_c0_seq1	L34	99.3387012249216	comp129315_c0_seq1	L60	32.3165288561471	comp95526_c0_seq1	L90	37.2900404486819
comp81714_c0_seq1	L9	0	comp90263_c0_seq1	L34	99.3387012249216	comp99967_c0_seq1	L60	32.3165288561471	comp99865_c0_seq1	L90	37.2900404486819
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comp85813_c0_seq1	L9	0	comp104183_c0_seq1	L34	105.826481112049	comp113252_c0_seq1	L60	35.5468221431472	comp106451_c0_seq1	L90	38.9035034771212
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comp87899_c2_seq1	L9	0	comp115961_c0_seq1	L34	105.826481112049	comp125764_c0_seq2	L60	35.5468221431472	comp121942_c0_seq2	L90	38.9035034771212
comp88832_c0_seq1	L9	0	comp118117_c0_seq1	L34	105.826481112049	comp126667_c0_seq1	L60	35.5468221431472	comp127177_c0_seq1	L90	38.9035034771212
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comp94766_c1_seq1	L9	0	comp126110_c0_seq1	L34	105.826481112049	comp115126_c1_seq1	L60	43.6823821540129	comp92817_c0_seq1	L90	38.9035034771212
comp96674_c0_seq2	L9	0	comp89689_c1_seq1	L34	105.826481112049	comp127653_c0_seq1	L60	43.6823821540129	comp95559_c0_seq1	L90	38.9035034771212
comp99319_c0_seq1	L9	0	comp94891_c0_seq1	L34	105.826481112049	comp132028_c0_seq1	L60	43.6823821540129	comp103049_c0_seq19	L91	0
comp105858_c1_seq1	L9	1.61346302843928	comp99326_c0_seq1	L34	105.826481112049	comp133619_c0_seq1	L60	43.6823821540129	comp28417_c0_seq1	L91	0
comp119701_c0_seq1	L9	1.61346302843928	comp101309_c0_seq1	L34	107.439944140488	comp93053_c0_seq1	L60	43.6823821540129	comp40499_c0_seq1	L91	0
comp95830_c1_seq1	L9	1.61346302843928	comp101782_c0_seq1	L34	107.439944140488	comp129287_c0_seq1	L60	45.2958451824522	comp56374_c0_seq1	L91	0
comp102752_c0_seq1	L9	3.22692605687856	comp103360_c0_seq1	L34	107.439944140488	comp80643_c0_seq1	L60	45.2958451824522	comp76264_c0_seq1	L91	0
comp109421_c1_seq1	L9	3.22692605687856	comp103541_c0_seq1	L34	107.439944140488	comp115530_c0_seq1	L61	0	comp78774_c0_seq1	L91	0
comp112508_c0_seq1	L9	3.22692605687856	comp103969_c0_seq1	L34	107.439944140488	comp117822_c0_seq1	L61	0	comp104108_c0_seq1	L91	1.61346302843928
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comp100892_c0_seq1	L9	4.84038908531784	comp104605_c1_seq9	L34	107.439944140488	comp103597_c0_seq1	L61	1.61346302843928	comp105448_c0_seq1	L91	1.61346302843928
comp129216_c0_seq1	L9	4.84038908531784	comp106479_c0_seq1	L34	107.439944140488	comp103799_c0_seq1	L61	1.61346302843928	comp106215_c1_seq1	L91	1.61346302843928
comp100821_c0_seq1	L9	6.45385211375712	comp107528_c0_seq1	L34	107.439944140488	comp105739_c1_seq1	L61	1.61346302843928	comp108012_c0_seq1	L91	1.61346302843928
comp103245_c0_seq1	L9	6.45385211375712	comp108190_c0_seq1	L34	107.439944140488	comp107788_c0_seq1	L61	1.61346302843928	comp112656_c0_seq1	L91	1.61346302843928
comp104977_c0_seq1	L9	6.45385211375712	comp108302_c0_seq1	L34	107.439944140488	comp109201_c0_seq1	L61	1.61346302843928	comp115668_c0_seq1	L91	1.61346302843928
comp126736_c0_seq1	L9	6.45385211375712	comp108536_c0_seq2	L34	107.439944140488	comp111669_c0_seq1	L61	1.61346302843928	comp118988_c0_seq1	L91	1.61346302843928
comp131020_c1_seq1	L9	6.45385211375712	comp110065_c0_seq1	L34	107.439944140488	comp112660_c0_seq1	L61	1.61346302843928	comp79885_c0_seq1	L91	1.61346302843928
comp41540_c0_seq1	L9	6.45385211375712	comp110497_c0_seq1	L34	107.439944140488	comp116628_c0_seq1	L61	1.61346302843928	comp81125_c0_seq1	L91	1.61346302843928
comp46490_c0_seq1	L9	6.45385211375712	comp110804_c0_seq1	L34	107.439944140488	comp121105_c0_seq2	L61	1.61346302843928	comp85238_c0_seq1	L91	1.61346302843928
comp57375_c0_seq1	L9	6.45385211375712	comp111544_c0_seq1	L34	107.439944140488	comp124383_c0_seq1	L61	1.61346302843928	comp86354_c0_seq1	L91	1.61346302843928
comp84003_c0_seq1	L9	6.45385211375712	comp116498_c0_seq1	L34	107.439944140488	comp129288_c3_seq2	L61	1.61346302843928	comp92341_c0_seq1	L91	1.61346302843928
comp102033_c0_seq1	L9	9.68414540075727	comp116664_c0_seq1	L34	107.439944140488	comp130014_c1_seq1	L61	1.61346302843928	comp115948_c0_seq1	L91	4.84375631543943
comp106780_c0_seq1	L9	9.68414540075727	comp12123_c0_seq1	L34	107.439944140488	comp131588_c0_seq1	L61	1.61346302843928	comp117347_c0_seq1	L91	4.84375631543943
comp120173_c0_seq2	L9	9.68414540075727	comp121605_c0_seq2	L34	107.439944140488	comp72362_c0_seq1	L61	1.61346302843928	comp81480_c0_seq1	L91	4.84375631543943
comp125684_c0_seq1	L9	9.68414540075727	comp121879_c0_seq1	L34	107.439944140488	comp72658_c0_seq1	L61	1.61346302843928	comp81480_c1_seq1	L91	4.84375631543943

comp91484_c0_seq1	L9	16.1719252878844	comp124023_c0_seq2	L34	107.439944140488	comp87655_c0_seq1	L61	1.61346302843928	comp97406_c1_seq1	L91	4.84375631543943
comp105135_c0_seq1	L9	17.7853883163237	comp125204_c0_seq1	L34	107.439944140488	comp90503_c0_seq1	L61	1.61346302843928	comp118575_c0_seq3	L91	6.45721934387871
comp119579_c0_seq1	L9	17.7853883163237	comp125572_c0_seq1	L34	107.439944140488	comp95204_c0_seq1	L61	1.61346302843928	comp134042_c0_seq1	L91	6.45721934387871
comp119579_c1_seq1	L9	17.7853883163237	comp126348_c1_seq1	L34	107.439944140488	comp103790_c0_seq1	L61	4.84375631543943	comp70148_c0_seq1	L91	6.45721934387871
comp122964_c0_seq1	L9	17.7853883163237	comp128205_c0_seq3	L34	107.439944140488	comp112481_c1_seq1	L61	4.84375631543943	comp76133_c1_seq1	L91	6.45721934387871
comp124770_c0_seq1	L9	17.7853883163237	comp128295_c0_seq1	L34	107.439944140488	comp115935_c0_seq1	L61	4.84375631543943	comp87555_c1_seq1	L91	6.45721934387871
comp125594_c0_seq1	L9	17.7853883163237	comp130638_c0_seq1	L34	107.439944140488	comp117452_c0_seq1	L61	4.84375631543943	comp87557_c0_seq1	L91	6.45721934387871
comp128702_c0_seq1	L9	17.7853883163237	comp130956_c0_seq1	L34	107.439944140488	comp91829_c0_seq2	L61	9.69765667646336	comp107451_c0_seq1	L91	11.3111197049026
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comp111532_c0_seq1	L9	19.3988513447629	comp53715_c0_seq1	L34	107.439944140488	comp66769_c0_seq1	L61	11.3111197049026	comp113187_c0_seq1	L91	11.3111197049026
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comp121045_c0_seq1	L9	19.3988513447629	comp70432_c0_seq1	L34	107.439944140488	comp91824_c0_seq1	L61	11.3111197049026	comp117951_c0_seq1	L91	11.3111197049026
comp121875_c0_seq1	L9	19.3988513447629	comp73475_c0_seq1	L34	107.439944140488	comp97124_c0_seq2	L61	11.3111197049026	comp119856_c0_seq1	L91	11.3111197049026
comp123182_c0_seq1	L9	19.3988513447629	comp74363_c0_seq1	L34	107.439944140488	comp102608_c0_seq1	L61	12.9245827333419	comp124556_c0_seq1	L91	11.3111197049026
comp126247_c1_seq1	L9	19.3988513447629	comp78428_c0_seq1	L34	107.439944140488	comp104191_c0_seq1	L61	12.9245827333419	comp127594_c1_seq1	L91	11.3111197049026
comp132043_c1_seq2	L9	19.3988513447629	comp80658_c0_seq1	L34	107.439944140488	comp105045_c0_seq1	L61	12.9245827333419	comp128672_c1_seq1	L91	11.3111197049026
comp80417_c0_seq1	L9	19.3988513447629	comp85027_c0_seq1	L34	107.439944140488	comp107193_c1_seq1	L61	12.9245827333419	comp72857_c0_seq1	L91	11.3111197049026
comp97856_c0_seq1	L9	19.3988513447629	comp85963_c0_seq1	L34	107.439944140488	comp66424_c0_seq1	L61	12.9245827333419	comp76984_c0_seq1	L91	11.3111197049026
comp113302_c0_seq1	L9	21.0123143732022	comp89779_c0_seq1	L34	107.439944140488	comp80648_c0_seq1	L61	12.9245827333419	comp83472_c0_seq1	L91	11.3111197049026
comp122186_c0_seq1	L9	21.0123143732022	comp90913_c0_seq1	L34	107.439944140488	comp92013_c0_seq1	L61	12.9245827333419	comp97172_c0_seq1	L91	11.3111197049026
comp127756_c0_seq4	L9	21.0123143732022	comp90954_c0_seq1	L34	107.439944140488	comp96835_c0_seq2	L61	12.9245827333419	comp107344_c0_seq1	L91	14.5414129919028
comp58337_c0_seq1	L9	21.0123143732022	comp92384_c0_seq1	L34	107.439944140488	comp103051_c0_seq1	L62	0	comp116479_c0_seq1	L91	14.5414129919028
comp113802_c0_seq1	L9	22.6257774016415	comp92784_c0_seq1	L34	107.439944140488	comp104658_c0_seq1	L62	0	comp97212_c0_seq1	L91	14.5414129919028
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comp118818_c0_seq1	L9	32.4268295960421	comp96155_c0_seq2	L34	107.439944140488	comp65252_c0_seq1	L62	0	comp126649_c0_seq2	L91	17.7683390487814
comp119683_c0_seq1	L9	32.4268295960421	comp96241_c0_seq1	L34	107.439944140488	comp74963_c0_seq1	L62	0	comp99699_c0_seq1	L91	17.7683390487814

comp119757_c0_seq2	L9	32.4268295960421	comp96826_c0_seq1	L34	107.439944140488	comp99374_c0_seq1	L62	0	comp100985_c0_seq1	L91	19.3818020772206
comp127485_c0_seq1	L9	32.4268295960421	comp97198_c0_seq1	L34	107.439944140488	comp106553_c0_seq1	L62	3.23029328700015	comp107982_c0_seq1	L91	19.3818020772206
comp131041_c0_seq1	L9	32.4268295960421	comp98537_c0_seq1	L34	107.439944140488	comp128798_c0_seq1	L62	3.23029328700015	comp108298_c0_seq2	L91	19.3818020772206
comp123077_c1_seq1	L9	34.0402926244814	comp101175_c0_seq2	L35	0	comp111972_c0_seq1	L62	4.84375631543943	comp110051_c0_seq1	L91	19.3818020772206
comp113261_c0_seq1	L9	40.5280725116085	comp107820_c0_seq1	L35	0	comp117087_c1_seq1	L62	4.84375631543943	comp111109_c0_seq1	L91	19.3818020772206
comp118639_c0_seq1	L9	40.5280725116085	comp112611_c2_seq1	L35	0	comp130842_c0_seq1	L62	4.84375631543943	comp111775_c0_seq1	L91	19.3818020772206
comp123369_c0_seq1	L9	40.5280725116085	comp114057_c1_seq1	L35	0	comp94939_c0_seq1	L62	4.84375631543943	comp113577_c1_seq2	L91	19.3818020772206
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comp71609_c0_seq1	L9	45.3718288270479	comp118900_c1_seq2	L35	0	comp121729_c0_seq1	L62	6.45721934387871	comp63951_c0_seq1	L91	19.3818020772206
comp84940_c0_seq1	L9	45.3718288270479	comp126798_c0_seq1	L35	0	comp125039_c0_seq1	L62	6.45721934387871	comp90223_c0_seq1	L91	19.3818020772206
comp91952_c0_seq2	L9	45.3718288270479	comp133132_c0_seq2	L35	0	comp129241_c1_seq1	L62	6.45721934387871	comp99203_c0_seq1	L91	19.3818020772206
comp103666_c0_seq1	L9	48.6021221140481	comp32374_c0_seq1	L35	0	comp131122_c0_seq1	L62	6.45721934387871	comp117673_c0_seq1	L91	20.9952651056599
comp107981_c0_seq1	L9	48.6021221140481	comp43963_c0_seq1	L35	0	comp101486_c0_seq1	L62	16.2582715382793	comp121689_c0_seq1	L91	20.9952651056599
comp111635_c1_seq2	L9	48.6021221140481	comp56625_c0_seq1	L35	0	comp102814_c0_seq1	L62	16.2582715382793	comp122661_c0_seq1	L91	20.9952651056599
comp115279_c0_seq1	L9	48.6021221140481	comp68404_c0_seq1	L35	0	comp115397_c0_seq1	L62	16.2582715382793	comp77342_c0_seq1	L91	20.9952651056599
comp78594_c0_seq1	L9	48.6021221140481	comp71995_c0_seq1	L35	0	comp116297_c0_seq1	L62	16.2582715382793	comp101938_c0_seq1	L91	22.6087281340992
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comp109628_c0_seq1	L9	51.8324154010482	comp80650_c0_seq1	L35	0	comp122552_c0_seq1	L62	16.2582715382793	comp119173_c0_seq1	L91	22.6087281340992
comp111408_c0_seq1	L9	51.8324154010482	comp86489_c1_seq1	L35	0	comp123175_c0_seq1	L62	16.2582715382793	comp123905_c0_seq1	L91	22.6087281340992
comp119734_c0_seq1	L9	51.8324154010482	comp88678_c0_seq1	L35	0	comp124016_c0_seq1	L62	16.2582715382793	comp126319_c1_seq4	L91	22.6087281340992
comp121559_c0_seq1	L9	51.8324154010482	comp94314_c0_seq1	L35	0	comp124374_c0_seq1	L62	16.2582715382793	comp109412_c0_seq1	L91	24.2221911625385
comp122368_c0_seq2	L9	51.8324154010482	comp95644_c0_seq1	L35	0	comp124989_c0_seq1	L62	16.2582715382793	comp121990_c0_seq1	L91	24.2221911625385
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comp130510_c0_seq2	L9	51.8324154010482	comp97251_c0_seq1	L35	0	comp130665_c0_seq1	L62	16.2582715382793	comp121461_c0_seq1	L91	25.8356541909778
comp99161_c0_seq2	L9	51.8324154010482	comp99099_c0_seq1	L35	0	comp131282_c0_seq1	L62	16.2582715382793	comp96611_c0_seq1	L91	25.8356541909778
comp99435_c2_seq1	L9	51.8324154010482	comp99275_c0_seq1	L35	0	comp124871_c2_seq1	L62	26.0593237326799	comp127408_c0_seq1	L92	0
comp99435_c3_seq1	L9	51.8324154010482	comp99932_c0_seq1	L35	0	comp129798_c0_seq1	L62	26.0593237326799	comp117093_c0_seq1	L92	1.61346302843928
comp56638_c0_seq1	L9	53.4458784294875	comp100678_c0_seq1	L35	1.61346302843928	comp125033_c0_seq1	L62	30.9132240937038	comp119208_c0_seq1	L92	1.61346302843928
comp130833_c0_seq1	L9	61.5814384403532	comp100718_c0_seq1	L35	1.61346302843928	comp83626_c0_seq1	L62	30.9132240937038	comp125890_c0_seq3	L92	1.61346302843928



comp89045_c0_seq1	L9	61.5814384403532	comp101931_c0_seq1	L35	1.61346302843928	comp46708_c0_seq1	L62	34.143517380704	comp96914_c0_seq1	L92	1.61346302843928
comp120487_c0_seq1	L9	71.3824906347538	comp102149_c0_seq1	L35	1.61346302843928	comp96295_c0_seq1	L62	34.143517380704	comp101003_c0_seq1	L92	14.8151487834517
comp92538_c1_seq1	L9	71.3824906347538	comp104074_c0_seq1	L35	1.61346302843928	comp120531_c0_seq1	L62	42.2790773915697	comp118306_c0_seq1	L92	14.8151487834517
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comp122812_c0_seq1	L9	76.2363909957777	comp108631_c0_seq1	L35	1.61346302843928	comp130749_c0_seq1	L62	42.2790773915697	comp119086_c0_seq1	L92	14.8151487834517
comp131686_c0_seq1	L9	76.2363909957777	comp110712_c0_seq2	L35	1.61346302843928	comp131426_c1_seq2	L62	42.2790773915697	comp119197_c0_seq1	L92	14.8151487834517
comp107841_c0_seq1	L9	77.849854024217	comp112348_c0_seq1	L35	1.61346302843928	comp89868_c0_seq1	L62	43.892540420009	comp122387_c3_seq1	L92	14.8151487834517
comp108673_c0_seq1	L9	77.849854024217	comp113355_c0_seq1	L35	1.61346302843928	comp101527_c0_seq1	L62	45.5060034484482	comp124485_c0_seq1	L92	14.8151487834517
comp114122_c0_seq1	L9	77.849854024217	comp114138_c0_seq2	L35	1.61346302843928	comp115166_c0_seq1	L62	45.5060034484482	comp41420_c0_seq1	L92	14.8151487834517
comp116433_c0_seq2	L9	77.849854024217	comp114414_c2_seq1	L35	1.61346302843928	comp116520_c0_seq1	L62	45.5060034484482	comp85219_c0_seq1	L92	14.8151487834517
comp117046_c2_seq1	L9	77.849854024217	comp115588_c0_seq1	L35	1.61346302843928	comp121828_c0_seq1	L62	45.5060034484482	comp102772_c0_seq2	L92	22.9507087943174
comp121718_c0_seq1	L9	77.849854024217	comp118698_c0_seq1	L35	1.61346302843928	comp127028_c0_seq3	L62	45.5060034484482	comp104755_c0_seq1	L93	0
comp124350_c1_seq2	L9	77.849854024217	comp120547_c0_seq2	L35	1.61346302843928	comp133778_c0_seq1	L62	45.5060034484482	comp105234_c0_seq1	L93	0
comp125144_c1_seq1	L9	77.849854024217	comp120927_c1_seq1	L35	1.61346302843928	comp80248_c0_seq1	L62	45.5060034484482	comp108557_c0_seq1	L93	0
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comp131742_c0_seq1	L9	77.849854024217	comp78053_c0_seq1	L35	1.61346302843928	comp103966_c0_seq1	L62	53.6072463640146	comp85417_c0_seq1	L93	0
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comp98563_c0_seq1	L9	77.849854024217	comp93487_c0_seq1	L35	1.61346302843928	comp112642_c0_seq1	L62	56.8375396510148	comp124635_c2_seq1	L93	1.61346302843928
comp100372_c0_seq1	L9	82.7037543852409	comp95669_c0_seq1	L35	1.61346302843928	comp116437_c0_seq1	L62	56.8375396510148	comp102213_c0_seq1	L93	3.22692605687856
comp101476_c0_seq1	L9	82.7037543852409	comp96135_c0_seq1	L35	1.61346302843928	comp123045_c2_seq1	L62	56.8375396510148	comp108585_c0_seq1	L93	3.22692605687856
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comp109314_c1_seq1	L9	82.7037543852409	comp96541_c0_seq1	L35	4.84375631543943	comp117974_c0_seq1	L62	60.0678329380149	comp124435_c0_seq1	L93	3.22692605687856
comp118534_c0_seq1	L9	82.7037543852409	comp96707_c0_seq1	L35	4.84375631543943	comp119565_c0_seq1	L62	60.0678329380149	comp126024_c0_seq1	L93	3.22692605687856
comp119462_c0_seq1	L9	82.7037543852409	comp101130_c0_seq1	L35	8.07404960243958	comp122599_c0_seq3	L62	61.6812959664542	comp130196_c0_seq1	L93	3.22692605687856
comp121260_c0_seq2	L9	82.7037543852409	comp109246_c0_seq1	L35	8.07404960243958	comp92328_c1_seq1	L62	61.6812959664542	comp58857_c0_seq1	L93	3.22692605687856
comp54124_c0_seq1	L9	82.7037543852409	comp110287_c0_seq1	L35	8.07404960243958	comp94384_c0_seq1	L62	61.6812959664542	comp88118_c0_seq1	L93	3.22692605687856
comp83798_c0_seq1	L9	82.7037543852409	comp110463_c0_seq1	L35	8.07404960243958	comp107089_c0_seq1	L62	63.2947589948935	comp106046_c1_seq1	L93	8.08082641790249
comp94796_c0_seq1	L9	82.7037543852409	comp111131_c0_seq1	L35	8.07404960243958	comp108572_c0_seq1	L62	63.2947589948935	comp126124_c0_seq1	L93	8.08082641790249
comp99929_c0_seq2	L9	82.7037543852409	comp111428_c2_seq1	L35	8.07404960243958	comp118323_c0_seq1	L62	63.2947589948935	comp126074_c0_seq1	L93	9.69428944634177
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comp122751_c0_seq1	L9	87.5475107006804	comp117538_c0_seq1	L35	8.07404960243958	comp122685_c1_seq1	L62	63.2947589948935	comp125332_c0_seq2	L93	12.9245827333419
comp133956_c0_seq1	L9	87.5475107006804	comp117604_c0_seq1	L35	8.07404960243958	comp124709_c0_seq1	L62	63.2947589948935	comp130902_c0_seq1	L93	12.9245827333419
comp120248_c0_seq1	L9	90.7778039876805	comp118024_c0_seq1	L35	8.07404960243958	comp125073_c1_seq3	L62	63.2947589948935	comp85104_c0_seq1	L93	12.9245827333419
comp120248_c1_seq1	L9	90.7778039876805	comp127773_c0_seq1	L35	8.07404960243958	comp125751_c0_seq1	L62	63.2947589948935	comp113471_c0_seq1	L93	16.1548760203421
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comp108365_c0_seq1	L9	94.0047300445591	comp105363_c1_seq1	L35	9.68751263087886	comp100536_c0_seq1	L62	69.7621223843567	comp133211_c0_seq1	L93	25.8626767423899
comp108365_c1_seq1	L9	94.0047300445591	comp107832_c0_seq4	L35	9.68751263087886	comp104393_c0_seq1	L62	69.7621223843567	comp102245_c0_seq1	L93	29.0929700293901
comp108475_c0_seq1	L9	94.0047300445591	comp109607_c0_seq1	L35	9.68751263087886	comp104758_c0_seq1	L62	69.7621223843567	comp109895_c0_seq1	L93	29.0929700293901
comp111274_c0_seq1	L9	94.0047300445591	comp116011_c0_seq1	L35	9.68751263087886	comp109817_c0_seq1	L62	69.7621223843567	comp121413_c0_seq1	L93	29.0929700293901
comp112857_c0_seq1	L9	94.0047300445591	comp124603_c0_seq1	L35	9.68751263087886	comp114009_c0_seq1	L62	69.7621223843567	comp58222_c0_seq1	L93	29.0929700293901
comp117437_c0_seq1	L9	94.0047300445591	comp127157_c1_seq1	L35	9.68751263087886	comp115645_c0_seq1	L62	69.7621223843567	comp110334_c0_seq1	L93	35.5807499165172
comp119013_c0_seq1	L9	94.0047300445591	comp127800_c2_seq1	L35	9.68751263087886	comp118371_c0_seq1	L62	69.7621223843567	comp115746_c2_seq1	L93	35.5807499165172
comp120067_c0_seq2	L9	94.0047300445591	comp129836_c0_seq1	L35	9.68751263087886	comp121959_c0_seq1	L62	69.7621223843567	comp104413_c0_seq1	L93	37.1942129449565
comp121026_c0_seq1	L9	94.0047300445591	comp58526_c0_seq1	L35	9.68751263087886	comp124068_c0_seq2	L62	69.7621223843567	comp108755_c0_seq1	L93	37.1942129449565
comp123161_c0_seq1	L9	94.0047300445591	comp80490_c0_seq1	L35	9.68751263087886	comp126276_c1_seq1	L62	69.7621223843567	comp118696_c1_seq1	L93	37.1942129449565
comp123476_c0_seq1	L9	94.0047300445591	comp104804_c0_seq1	L35	14.5414129919028	comp131168_c1_seq1	L62	69.7621223843567	comp119794_c1_seq1	L93	37.1942129449565

comp124488_c0_seq1	L9	94.0047300445591	comp107835_c0_seq1	L35	14.5414129919028	comp68271_c0_seq1	L62	69.7621223843567	comp82175_c0_seq1	L93	37.1942129449565
comp125576_c0_seq1	L9	94.0047300445591	comp114688_c0_seq1	L35	14.5414129919028	comp84031_c0_seq1	L62	69.7621223843567	comp91657_c0_seq1	L93	37.1942129449565
comp127024_c0_seq1	L9	94.0047300445591	comp115747_c0_seq1	L35	14.5414129919028	comp84834_c0_seq2	L62	69.7621223843567	comp130114_c0_seq2	L93	38.8076759733958
comp129639_c1_seq1	L9	94.0047300445591	comp118685_c0_seq1	L35	14.5414129919028	comp70855_c0_seq1	L62	71.375585412796	comp89784_c0_seq1	L93	38.8076759733958
comp74483_c0_seq1	L9	94.0047300445591	comp125168_c0_seq1	L35	14.5414129919028	comp85017_c0_seq1	L62	71.375585412796	comp113769_c0_seq1	L93	42.0379692603959
comp76606_c0_seq1	L9	94.0047300445591	comp67212_c0_seq1	L35	14.5414129919028	comp85274_c0_seq1	L62	71.375585412796	comp126293_c0_seq1	L93	42.0379692603959
comp79068_c0_seq1	L9	94.0047300445591	comp77269_c0_seq1	L35	14.5414129919028	comp101350_c0_seq1	L62	72.9890484412353	comp121690_c0_seq1	L93	45.2682625473961
comp90190_c0_seq1	L9	94.0047300445591	comp78923_c0_seq1	L35	14.5414129919028	comp107500_c1_seq1	L62	72.9890484412353	comp103192_c1_seq1	L93	46.8817255758353
comp90813_c0_seq1	L9	94.0047300445591	comp82772_c0_seq1	L35	14.5414129919028	comp112594_c0_seq2	L62	72.9890484412353	comp119295_c1_seq1	L93	46.8817255758353
comp91659_c0_seq1	L9	94.0047300445591	comp95598_c0_seq1	L35	14.5414129919028	comp115936_c0_seq2	L62	72.9890484412353	comp119870_c0_seq1	L93	46.8817255758353
comp91821_c0_seq1	L9	94.0047300445591	comp99698_c0_seq1	L35	14.5414129919028	comp118660_c0_seq1	L62	72.9890484412353	comp120321_c0_seq1	L93	46.8817255758353
comp93181_c0_seq1	L9	94.0047300445591	comp118665_c0_seq1	L35	16.1548760203421	comp126939_c0_seq1	L62	72.9890484412353	comp123606_c0_seq1	L93	46.8817255758353
comp93808_c1_seq1	L9	94.0047300445591	comp121291_c0_seq1	L35	16.1548760203421	comp127909_c0_seq1	L62	72.9890484412353	comp127885_c1_seq1	L93	46.8817255758353
comp96096_c0_seq2	L9	94.0047300445591	comp121291_c1_seq1	L35	16.1548760203421	comp129503_c0_seq1	L62	72.9890484412353	comp81860_c0_seq1	L93	46.8817255758353
comp98865_c0_seq1	L9	94.0047300445591	comp123285_c0_seq1	L35	16.1548760203421	comp39997_c0_seq1	L62	72.9890484412353	comp126590_c0_seq1	L93	48.4951886042746
comp99272_c0_seq1	L9	94.0047300445591	comp94726_c0_seq1	L35	16.1548760203421	comp55812_c0_seq1	L62	72.9890484412353	comp133413_c0_seq1	L93	48.4951886042746
comp87946_c0_seq1	L9	97.2350233315592	comp111652_c0_seq1	L35	17.7683390487814	comp66525_c0_seq1	L62	72.9890484412353	comp110372_c0_seq1	L93	54.9829684914017
comp100049_c0_seq1	L9	98.8484863599985	comp117395_c0_seq1	L35	17.7683390487814	comp74236_c0_seq1	L62	72.9890484412353	comp113223_c0_seq1	L93	54.9829684914017
comp102391_c0_seq1	L9	98.8484863599985	comp117776_c0_seq1	L35	17.7683390487814	comp74457_c0_seq1	L62	72.9890484412353	comp119524_c0_seq1	L93	54.9829684914017
comp109832_c0_seq2	L9	98.8484863599985	comp122667_c0_seq1	L35	17.7683390487814	comp76423_c0_seq1	L62	72.9890484412353	comp120446_c0_seq1	L93	54.9829684914017
comp112098_c0_seq1	L9	98.8484863599985	comp122924_c0_seq1	L35	17.7683390487814	comp80317_c0_seq1	L62	72.9890484412353	comp123466_c0_seq2	L93	54.9829684914017
comp116364_c0_seq2	L9	98.8484863599985	comp122924_c2_seq1	L35	17.7683390487814	comp83417_c0_seq1	L62	72.9890484412353	comp126894_c1_seq1	L93	54.9829684914017
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comp59688_c0_seq1	L9	98.8484863599985	comp78257_c0_seq1	L35	17.7683390487814	comp122111_c0_seq1	L62	74.6025114696746	comp131740_c0_seq1	L93	54.9829684914017
comp73092_c0_seq1	L9	98.8484863599985	comp95557_c0_seq1	L35	17.7683390487814	comp87644_c0_seq1	L62	74.6025114696746	comp133225_c0_seq1	L93	54.9829684914017
comp73530_c0_seq1	L9	98.8484863599985	comp11410_c0_seq1	L35	19.3818020772206	comp97705_c0_seq1	L62	74.6025114696746	comp108654_c0_seq1	L93	63.1185285022674
comp75444_c0_seq1	L9	98.8484863599985	comp123403_c0_seq1	L35	19.3818020772206	comp100471_c0_seq1	L62	76.2159744981138	comp109278_c0_seq1	L93	63.1185285022674
comp82534_c0_seq1	L9	98.8484863599985	comp123687_c0_seq1	L35	19.3818020772206	comp102639_c0_seq1	L62	76.2159744981138	comp110794_c0_seq1	L93	63.1185285022674
comp84159_c0_seq1	L9	98.8484863599985	comp129890_c0_seq6	L35	19.3818020772206	comp106224_c0_seq1	L62	76.2159744981138	comp115358_c0_seq1	L93	63.1185285022674

comp93879_c0_seq1	L9	98.8484863599985	comp108175_c0_seq1	L35	22.6120953642208	comp107216_c1_seq1	L62	76.2159744981138	comp116956_c1_seq1	L93	63.1185285022674
comp94150_c0_seq2	L9	98.8484863599985	comp108725_c1_seq1	L35	22.6120953642208	comp108573_c0_seq1	L62	76.2159744981138	comp121355_c0_seq1	L93	63.1185285022674
comp95979_c0_seq1	L9	98.8484863599985	comp122341_c0_seq1	L35	22.6120953642208	comp110317_c0_seq1	L62	76.2159744981138	comp126412_c1_seq1	L93	63.1185285022674
comp104218_c1_seq1	L10	0	comp126264_c0_seq1	L35	22.6120953642208	comp112650_c0_seq1	L62	76.2159744981138	comp128377_c0_seq1	L93	63.1185285022674
comp112083_c0_seq1	L10	0	comp132588_c0_seq2	L35	22.6120953642208	comp117777_c1_seq1	L62	76.2159744981138	comp129760_c0_seq2	L93	63.1185285022674
comp113765_c0_seq1	L10	0	comp118727_c2_seq1	L35	24.2255583926601	comp40132_c0_seq1	L62	76.2159744981138	comp130934_c0_seq1	L93	63.1185285022674
comp22629_c0_seq1	L10	0	comp123361_c0_seq1	L35	24.2255583926601	comp43635_c0_seq1	L62	76.2159744981138	comp133983_c0_seq1	L93	63.1185285022674
comp26027_c0_seq1	L10	0	comp126479_c1_seq1	L35	24.2255583926601	comp67057_c0_seq2	L62	76.2159744981138	comp86540_c0_seq1	L93	63.1185285022674
comp27752_c0_seq1	L10	0	comp127287_c1_seq1	L35	24.2255583926601	comp77895_c0_seq2	L62	76.2159744981138	comp91164_c0_seq1	L93	63.1185285022674
comp59853_c0_seq1	L10	0	comp129772_c0_seq1	L35	24.2255583926601	comp79774_c0_seq1	L62	76.2159744981138	comp94777_c0_seq1	L93	63.1185285022674
comp67345_c0_seq1	L10	0	comp103107_c0_seq1	L35	29.079458753684	comp85222_c0_seq1	L62	76.2159744981138	comp101402_c0_seq1	L93	67.9724288632914
comp72998_c0_seq1	L10	0	comp105940_c0_seq1	L35	29.079458753684	comp86995_c0_seq1	L62	76.2159744981138	comp103009_c0_seq1	L93	67.9724288632914
comp76939_c0_seq1	L10	0	comp106629_c0_seq1	L35	29.079458753684	comp88420_c0_seq1	L62	76.2159744981138	comp103209_c1_seq3	L93	67.9724288632914
comp79357_c0_seq1	L10	0	comp111913_c0_seq1	L35	29.079458753684	comp105537_c0_seq1	L63	0	comp115254_c0_seq1	L93	67.9724288632914
comp79547_c1_seq1	L10	0	comp119835_c0_seq1	L35	29.079458753684	comp107263_c0_seq1	L63	0	comp121288_c1_seq1	L93	67.9724288632914
comp79889_c0_seq2	L10	0	comp121370_c0_seq1	L35	29.079458753684	comp108287_c0_seq1	L63	0	comp121288_c2_seq1	L93	67.9724288632914
comp86818_c0_seq1	L10	0	comp124506_c0_seq1	L35	29.079458753684	comp109015_c0_seq3	L63	0	comp121570_c0_seq1	L93	67.9724288632914
comp87556_c0_seq1	L10	0	comp125422_c0_seq1	L35	29.079458753684	comp111358_c0_seq2	L63	0	comp124507_c0_seq1	L93	67.9724288632914
comp89072_c0_seq1	L10	0	comp132219_c0_seq2	L35	29.079458753684	comp113890_c0_seq1	L63	0	comp127817_c0_seq1	L93	67.9724288632914
comp90343_c0_seq1	L10	0	comp72268_c0_seq1	L35	29.079458753684	comp123215_c0_seq1	L63	0	comp131163_c0_seq1	L93	67.9724288632914
comp90773_c0_seq1	L10	0	comp94103_c0_seq1	L35	29.079458753684	comp123248_c0_seq1	L63	0	comp131704_c0_seq1	L93	67.9724288632914
comp91472_c0_seq1	L10	0	comp113729_c0_seq1	L35	30.6929217821233	comp123812_c0_seq1	L63	0	comp131886_c0_seq1	L93	67.9724288632914
comp92185_c0_seq1	L10	0	comp121273_c1_seq1	L35	30.6929217821233	comp123812_c1_seq1	L63	0	comp120402_c0_seq1	L93	74.4602087504185
comp93184_c0_seq1	L10	0	comp121273_c4_seq1	L35	30.6929217821233	comp124191_c0_seq1	L63	0	comp125644_c0_seq1	L93	74.4602087504185
comp110366_c0_seq1	L10	1.61346302843928	comp121372_c0_seq1	L35	30.6929217821233	comp133719_c1_seq2	L63	0	comp127214_c0_seq1	L93	74.4602087504185
comp123305_c0_seq1	L10	1.61346302843928	comp122504_c0_seq1	L35	30.6929217821233	comp41042_c0_seq1	L63	0	comp107793_c0_seq1	L93	76.0736717788578
comp67811_c0_seq1	L10	1.61346302843928	comp131573_c1_seq1	L35	30.6929217821233	comp52582_c0_seq1	L63	0	comp102714_c0_seq1	L93	77.687134807297
comp96718_c0_seq1	L10	1.61346302843928	comp100230_c0_seq1	L35	32.3063848105626	comp57986_c0_seq1	L63	0	comp115812_c0_seq3	L93	77.687134807297
comp112337_c0_seq1	L10	3.22692605687856	comp111918_c0_seq2	L35	32.3063848105626	comp60747_c0_seq1	L63	0	comp124206_c0_seq1	L93	77.687134807297

comp122430_c0_seq1	L10	3.22692605687856	comp127661_c0_seq2	L35	32.3063848105626	comp61776_c0_seq1	L63	0	comp99398_c0_seq1	L93	77.687134807297
comp127249_c0_seq1	L10	3.22692605687856	comp127919_c0_seq1	L35	32.3063848105626	comp71722_c0_seq1	L63	0	comp107996_c0_seq1	L93	82.541035168321
comp74615_c0_seq1	L10	3.22692605687856	comp128472_c0_seq1	L35	32.3063848105626	comp72377_c0_seq1	L63	0	comp108647_c0_seq2	L93	82.541035168321
comp80735_c0_seq1	L10	3.22692605687856	comp131120_c1_seq1	L35	32.3063848105626	comp75501_c0_seq1	L63	0	comp108953_c0_seq1	L93	82.541035168321
comp93157_c0_seq1	L10	3.22692605687856	comp131714_c0_seq1	L35	32.3063848105626	comp76827_c0_seq2	L63	0	comp109505_c0_seq2	L93	82.541035168321
comp95807_c1_seq1	L10	3.22692605687856	comp41007_c1_seq1	L35	32.3063848105626	comp81456_c0_seq2	L63	0	comp114024_c0_seq1	L93	82.541035168321
comp96658_c0_seq1	L10	3.22692605687856	comp92162_c0_seq1	L35	32.3063848105626	comp81498_c0_seq1	L63	0	comp114407_c0_seq1	L93	82.541035168321
comp96832_c0_seq1	L10	3.22692605687856	comp111798_c0_seq1	L35	42.1074370049632	comp82110_c0_seq1	L63	0	comp115995_c0_seq1	L93	82.541035168321
comp97178_c0_seq2	L10	3.22692605687856	comp112041_c0_seq2	L35	42.1074370049632	comp82659_c0_seq1	L63	0	comp122647_c0_seq1	L93	82.541035168321
comp117657_c1_seq1	L10	9.71470594400567	comp112441_c1_seq1	L35	43.7209000334024	comp83217_c1_seq1	L63	0	comp123684_c0_seq1	L93	82.541035168321
comp83575_c0_seq1	L10	9.71470594400567	comp116759_c1_seq1	L35	43.7209000334024	comp86110_c0_seq2	L63	0	comp75788_c0_seq1	L93	82.541035168321
comp111220_c0_seq1	L10	12.9449992310058	comp96002_c0_seq1	L35	43.7209000334024	comp86795_c0_seq1	L63	0	comp90464_c1_seq1	L93	82.541035168321
comp123030_c1_seq3	L10	12.9449992310058	comp81202_c0_seq1	L35	45.3343630618417	comp87397_c0_seq1	L63	0	comp106951_c1_seq1	L93	84.1544981967603
comp90945_c0_seq1	L10	12.9449992310058	comp101583_c0_seq2	L35	51.8221429489688	comp87742_c0_seq1	L63	0	comp107358_c0_seq1	L93	84.1544981967603
comp92969_c0_seq1	L10	12.9449992310058	comp109005_c0_seq1	L35	51.8221429489688	comp90430_c0_seq1	L63	0	comp97029_c0_seq1	L93	84.1544981967603
comp95913_c0_seq1	L10	12.9449992310058	comp111119_c1_seq1	L35	51.8221429489688	comp91248_c0_seq1	L63	0	comp119770_c1_seq1	L93	92.290058207626
comp97481_c0_seq1	L10	12.9449992310058	comp114072_c0_seq1	L35	51.8221429489688	comp96572_c0_seq1	L63	0	comp120618_c0_seq1	L93	92.290058207626
comp102916_c0_seq1	L10	19.4327791181329	comp116171_c0_seq1	L35	51.8221429489688	comp119447_c0_seq1	L63	3.23029328700015	comp102685_c0_seq1	L93	97.1439585686499
comp103187_c0_seq1	L10	19.4327791181329	comp118840_c0_seq1	L35	51.8221429489688	comp121173_c0_seq1	L63	3.23029328700015	comp106304_c0_seq1	L93	97.1439585686499
comp110818_c0_seq1	L10	19.4327791181329	comp124759_c0_seq1	L35	51.8221429489688	comp121229_c0_seq1	L63	3.23029328700015	comp108299_c1_seq1	L93	97.1439585686499
comp132156_c0_seq3	L10	19.4327791181329	comp132474_c0_seq1	L35	51.8221429489688	comp30886_c0_seq1	L63	3.23029328700015	comp110575_c0_seq1	L93	97.1439585686499
comp107998_c0_seq1	L10	22.6630724051331	comp133178_c0_seq2	L35	51.8221429489688	comp31609_c0_seq1	L63	3.23029328700015	comp112974_c0_seq1	L93	97.1439585686499
comp120511_c0_seq1	L10	27.516972766157	comp133978_c0_seq1	L35	51.8221429489688	comp59101_c0_seq1	L63	3.23029328700015	comp116429_c0_seq1	L93	97.1439585686499
comp26519_c0_seq1	L10	27.516972766157	comp46435_c0_seq1	L35	51.8221429489688	comp67119_c0_seq1	L63	3.23029328700015	comp119318_c0_seq1	L93	97.1439585686499
comp70535_c0_seq1	L10	27.516972766157	comp59414_c0_seq1	L35	51.8221429489688	comp95821_c0_seq1	L63	3.23029328700015	comp122324_c0_seq1	L93	97.1439585686499
comp85118_c0_seq1	L10	27.516972766157	comp63609_c0_seq1	L35	51.8221429489688	comp113276_c0_seq1	L63	4.84375631543943	comp124140_c0_seq1	L93	97.1439585686499
comp89278_c0_seq1	L10	27.516972766157	comp81762_c0_seq1	L35	51.8221429489688	comp113322_c0_seq2	L63	4.84375631543943	comp124695_c0_seq1	L93	97.1439585686499
comp99110_c0_seq1	L10	27.516972766157	comp92388_c1_seq1	L35	51.8221429489688	comp122655_c1_seq1	L63	4.84375631543943	comp131855_c0_seq1	L93	97.1439585686499
comp106429_c0_seq1	L10	39.005281000618	comp103282_c0_seq1	L36	0	comp124438_c0_seq1	L63	4.84375631543943	comp59091_c0_seq1	L93	97.1439585686499

comp92514_c0_seq1	L10	39.005281000618	comp116258_c0_seq1	L36	0	comp127119_c1_seq1	L63	4.84375631543943	comp101017_c0_seq1	L93	101.997858929674
comp99728_c0_seq1	L10	39.005281000618	comp131695_c1_seq1	L36	0	comp128219_c1_seq1	L63	4.84375631543943	comp101979_c0_seq1	L93	101.997858929674
comp108318_c0_seq1	L10	43.859181361642	comp130053_c0_seq1	L36	4.85390036102393	comp133232_c0_seq1	L63	4.84375631543943	comp102697_c0_seq1	L93	101.997858929674
comp108464_c0_seq2	L10	43.859181361642	comp87667_c0_seq1	L36	4.85390036102393	comp65107_c0_seq1	L63	4.84375631543943	comp106131_c0_seq1	L93	101.997858929674
comp123947_c1_seq2	L10	43.859181361642	comp122604_c0_seq1	L36	8.08419364802409	comp85755_c0_seq1	L63	4.84375631543943	comp106392_c0_seq1	L93	101.997858929674
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comp98160_c0_seq1	L10	43.859181361642	comp109368_c0_seq1	L36	14.5719735351512	comp93249_c0_seq1	L63	4.84375631543943	comp107723_c0_seq1	L93	101.997858929674
comp114689_c0_seq1	L10	45.4726443900812	comp120024_c0_seq1	L36	14.5719735351512	comp104483_c0_seq1	L63	6.45721934387871	comp110179_c0_seq1	L93	101.997858929674
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comp115394_c2_seq1	L10	56.8041805926478	comp123018_c3_seq1	L36	14.5719735351512	comp117113_c0_seq1	L63	6.45721934387871	comp114937_c0_seq1	L93	101.997858929674
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comp109682_c0_seq1	L10	58.4176436210871	comp131393_c0_seq1	L36	14.5719735351512	comp87546_c0_seq1	L63	6.45721934387871	comp116409_c1_seq1	L93	101.997858929674
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comp100358_c0_seq1	L10	66.5532036319528	comp133279_c1_seq1	L36	14.5719735351512	comp97286_c1_seq1	L63	6.45721934387871	comp118855_c0_seq1	L93	101.997858929674
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comp109103_c0_seq1	L10	73.020567021416	comp128980_c0_seq2	L36	27.4965562684931	comp133799_c0_seq1	L63	30.8599662660971	comp74244_c0_seq1	L93	101.997858929674
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comp127862_c0_seq1	L10	73.020567021416	comp108479_c0_seq1	L36	32.3504566295171	comp114559_c0_seq2	L63	35.7138666271211	comp76818_c0_seq1	L93	101.997858929674
comp132367_c0_seq1	L10	73.020567021416	comp121928_c0_seq1	L36	32.3504566295171	comp115932_c0_seq1	L63	35.7138666271211	comp77164_c0_seq1	L93	101.997858929674
comp71727_c0_seq1	L10	73.020567021416	comp122454_c0_seq1	L36	32.3504566295171	comp99553_c0_seq1	L63	40.567766988145	comp77764_c0_seq1	L93	101.997858929674
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comp101157_c0_seq1	L10	82.769590060721	comp131924_c0_seq1	L36	32.3504566295171	comp107524_c0_seq1	L63	53.5572273600346	comp81964_c0_seq1	L93	101.997858929674
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comp120585_c1_seq1	L10	82.769590060721	comp120044_c0_seq1	L36	40.4516995450835	comp102620_c0_seq1	L63	55.1706903884739	comp90466_c0_seq1	L93	101.997858929674
comp124629_c1_seq1	L10	82.769590060721	comp120044_c2_seq1	L36	40.4516995450835	comp103268_c0_seq1	L63	55.1706903884739	comp90965_c0_seq1	L93	101.997858929674
comp126969_c1_seq1	L10	82.769590060721	comp120543_c1_seq1	L36	40.4516995450835	comp106480_c0_seq1	L63	55.1706903884739	comp91246_c0_seq1	L93	101.997858929674
comp128667_c0_seq1	L10	82.769590060721	comp121705_c0_seq1	L36	40.4516995450835	comp111409_c0_seq1	L63	55.1706903884739	comp93387_c0_seq1	L93	101.997858929674

comp41467_c0_seq1	L10	82.769590060721	comp123493_c0_seq2	L36	40.4516995450835	comp112688_c0_seq1	L63	55.1706903884739	comp96104_c0_seq1	L93	101.997858929674
comp46474_c0_seq1	L10	82.769590060721	comp124291_c0_seq1	L36	40.4516995450835	comp112850_c0_seq1	L63	55.1706903884739	comp96157_c0_seq1	L93	101.997858929674
comp73725_c0_seq1	L10	82.769590060721	comp131915_c2_seq1	L36	40.4516995450835	comp112900_c1_seq1	L63	55.1706903884739	comp96612_c0_seq1	L93	101.997858929674
comp74521_c0_seq1	L10	82.769590060721	comp42646_c0_seq1	L36	40.4516995450835	comp113292_c0_seq5	L63	55.1706903884739	comp98500_c0_seq1	L93	101.997858929674
comp79411_c0_seq1	L10	82.769590060721	comp43241_c0_seq1	L36	40.4516995450835	comp113941_c0_seq1	L63	55.1706903884739	comp98511_c0_seq1	L93	101.997858929674
comp87449_c0_seq1	L10	82.769590060721	comp91493_c0_seq1	L36	40.4516995450835	comp115742_c1_seq1	L63	55.1706903884739	comp102008_c0_seq1	L94	0
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comp106000_c0_seq1	L10	84.3830530891602	comp127915_c0_seq1	L36	43.678625601962	comp124354_c1_seq1	L63	55.1706903884739	comp130865_c0_seq1	L94	6.48777988712711
comp106997_c0_seq3	L10	84.3830530891602	comp132697_c0_seq1	L36	43.678625601962	comp128491_c0_seq1	L63	55.1706903884739	comp106743_c0_seq1	L94	11.341680248151
comp108263_c0_seq3	L10	84.3830530891602	comp132959_c0_seq3	L36	43.678625601962	comp129112_c0_seq1	L63	55.1706903884739	comp111613_c0_seq1	L94	11.341680248151
comp119740_c0_seq2	L10	84.3830530891602	comp106376_c0_seq4	L36	48.5325259629859	comp130919_c0_seq1	L63	55.1706903884739	comp120131_c0_seq1	L94	11.341680248151
comp125160_c0_seq1	L10	84.3830530891602	comp110193_c0_seq1	L36	48.5325259629859	comp132399_c0_seq1	L63	55.1706903884739	comp121040_c0_seq1	L94	11.341680248151
comp71783_c1_seq1	L10	84.3830530891602	comp121910_c0_seq1	L36	48.5325259629859	comp133144_c0_seq1	L63	55.1706903884739	comp119075_c0_seq1	L94	12.9551432765903
comp73169_c0_seq1	L10	84.3830530891602	comp122677_c0_seq1	L36	48.5325259629859	comp31725_c0_seq1	L63	55.1706903884739	comp99604_c0_seq1	L94	16.1854365635905
comp96640_c0_seq1	L10	84.3830530891602	comp125007_c0_seq2	L36	48.5325259629859	comp69262_c0_seq1	L63	55.1706903884739	comp102379_c0_seq2	L94	17.7988995920298
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comp114381_c0_seq1	L10	87.6133463761604	comp130637_c0_seq1	L36	48.5325259629859	comp87420_c0_seq1	L63	55.1706903884739	comp114304_c2_seq2	L94	17.7988995920298
comp119572_c0_seq1	L10	87.6133463761604	comp132900_c0_seq1	L36	48.5325259629859	comp92681_c0_seq1	L63	55.1706903884739	comp121491_c0_seq1	L94	17.7988995920298
comp89151_c0_seq1	L10	87.6133463761604	comp132900_c1_seq1	L36	48.5325259629859	comp95413_c0_seq1	L63	55.1706903884739	comp123180_c0_seq1	L94	17.7988995920298
comp100067_c0_seq1	L10	92.4672467371843	comp133470_c0_seq1	L36	48.5325259629859	comp96078_c1_seq1	L63	55.1706903884739	comp125047_c0_seq3	L94	17.7988995920298
comp103584_c0_seq1	L10	92.4672467371843	comp64527_c0_seq1	L36	48.5325259629859	comp96689_c0_seq1	L63	55.1706903884739	comp130266_c0_seq2	L94	17.7988995920298
comp105796_c0_seq1	L10	92.4672467371843	comp73632_c0_seq1	L36	48.5325259629859	comp99124_c0_seq1	L63	55.1706903884739	comp57538_c0_seq1	L94	17.7988995920298
comp108141_c0_seq2	L10	92.4672467371843	comp87619_c0_seq1	L36	48.5325259629859	comp104463_c0_seq1	L63	56.7841534169132	comp94907_c0_seq1	L94	17.7988995920298
comp109063_c0_seq1	L10	92.4672467371843	comp101560_c1_seq1	L36	50.1459889914252	comp110152_c0_seq1	L63	56.7841534169132	comp97533_c0_seq1	L94	17.7988995920298
comp109248_c0_seq1	L10	92.4672467371843	comp101621_c0_seq1	L36	50.1459889914252	comp126520_c0_seq1	L63	56.7841534169132	comp104264_c0_seq1	L94	19.412362620469



comp111423_c0_seq1	L10	92.4672467371843	comp103988_c0_seq1	L36	50.1459889914252	comp109166_c1_seq1	L63	69.9858391719256	comp93973_c0_seq1	L94	19.412362620469
comp112451_c0_seq1	L10	92.4672467371843	comp104098_c1_seq1	L36	50.1459889914252	comp109576_c0_seq1	L63	69.9858391719256	comp107682_c0_seq1	L94	24.266262981493
comp118689_c0_seq1	L10	92.4672467371843	comp106199_c0_seq1	L36	50.1459889914252	comp115909_c0_seq1	L63	78.1213991827913	comp119813_c0_seq1	L94	24.266262981493
comp123349_c0_seq3	L10	92.4672467371843	comp107534_c0_seq3	L36	50.1459889914252	comp115984_c1_seq1	L63	78.1213991827913	comp130895_c1_seq1	L94	24.266262981493
comp124246_c0_seq1	L10	92.4672467371843	comp107681_c0_seq1	L36	50.1459889914252	comp121438_c0_seq1	L63	78.1213991827913	comp130943_c0_seq1	L94	24.266262981493
comp126718_c0_seq2	L10	92.4672467371843	comp111636_c1_seq2	L36	50.1459889914252	comp123001_c0_seq2	L63	78.1213991827913	comp114300_c0_seq1	L94	25.8797260099323
comp126860_c0_seq1	L10	92.4672467371843	comp114227_c0_seq1	L36	50.1459889914252	comp127114_c0_seq1	L63	78.1213991827913	comp101077_c0_seq3	L94	30.7336263709562
comp134185_c0_seq1	L10	92.4672467371843	comp114555_c1_seq1	L36	50.1459889914252	comp129600_c0_seq1	L63	78.1213991827913	comp105667_c0_seq1	L94	30.7336263709562
comp25418_c0_seq1	L10	92.4672467371843	comp123706_c0_seq2	L36	50.1459889914252	comp100493_c0_seq1	L63	81.3516924697915	comp106181_c0_seq1	L94	30.7336263709562
comp27761_c0_seq1	L10	92.4672467371843	comp128280_c0_seq1	L36	50.1459889914252	comp109309_c0_seq1	L63	81.3516924697915	comp106783_c2_seq1	L94	30.7336263709562
comp52323_c0_seq1	L10	92.4672467371843	comp129443_c1_seq2	L36	50.1459889914252	comp101634_c0_seq1	L63	82.9651554982307	comp106859_c0_seq8	L94	30.7336263709562
comp55434_c0_seq2	L10	92.4672467371843	comp77037_c0_seq1	L36	50.1459889914252	comp125421_c0_seq1	L63	82.9651554982307	comp108469_c0_seq1	L94	30.7336263709562
comp62303_c0_seq2	L10	92.4672467371843	comp77505_c0_seq1	L36	50.1459889914252	comp126494_c2_seq1	L63	82.9651554982307	comp108469_c1_seq1	L94	30.7336263709562
comp68977_c0_seq2	L10	92.4672467371843	comp85548_c0_seq1	L36	50.1459889914252	comp128523_c1_seq1	L63	82.9651554982307	comp109096_c0_seq1	L94	30.7336263709562
comp69382_c0_seq1	L10	92.4672467371843	comp101062_c0_seq1	L36	54.9998893524491	comp129921_c1_seq1	L63	82.9651554982307	comp110493_c0_seq1	L94	30.7336263709562
comp71676_c0_seq1	L10	92.4672467371843	comp105743_c0_seq1	L36	54.9998893524491	comp133045_c0_seq1	L63	82.9651554982307	comp110964_c0_seq1	L94	30.7336263709562
comp73185_c0_seq1	L10	92.4672467371843	comp107402_c0_seq1	L36	54.9998893524491	comp95693_c0_seq1	L63	82.9651554982307	comp111878_c0_seq1	L94	30.7336263709562
comp73949_c0_seq1	L10	92.4672467371843	comp109532_c0_seq1	L36	54.9998893524491	comp97433_c0_seq2	L63	82.9651554982307	comp112566_c0_seq1	L94	30.7336263709562
comp76034_c0_seq1	L10	92.4672467371843	comp119274_c2_seq1	L36	54.9998893524491	comp103955_c1_seq1	L63	84.57861852667	comp114468_c0_seq1	L94	30.7336263709562
comp76611_c0_seq1	L10	92.4672467371843	comp120221_c0_seq1	L36	54.9998893524491	comp123059_c0_seq1	L63	84.57861852667	comp116929_c0_seq1	L94	30.7336263709562
comp81896_c0_seq2	L10	92.4672467371843	comp120324_c0_seq1	L36	54.9998893524491	comp123137_c0_seq1	L63	84.57861852667	comp118647_c0_seq1	L94	30.7336263709562
comp83890_c0_seq1	L10	92.4672467371843	comp121449_c0_seq1	L36	54.9998893524491	comp130867_c2_seq1	L63	84.57861852667	comp119896_c0_seq1	L94	30.7336263709562
comp88687_c0_seq1	L10	92.4672467371843	comp127658_c0_seq1	L36	54.9998893524491	comp88744_c1_seq2	L63	84.57861852667	comp119955_c0_seq1	L94	30.7336263709562
comp91273_c0_seq1	L10	92.4672467371843	comp133632_c0_seq1	L36	54.9998893524491	comp89896_c0_seq1	L63	84.57861852667	comp120056_c0_seq1	L94	30.7336263709562
comp94785_c0_seq1	L10	92.4672467371843	comp64882_c0_seq1	L36	54.9998893524491	comp95357_c0_seq1	L63	84.57861852667	comp120962_c1_seq1	L94	30.7336263709562
comp95619_c0_seq3	L10	92.4672467371843	comp86102_c0_seq1	L36	54.9998893524491	comp109235_c0_seq1	L63	86.1920815551093	comp124090_c0_seq1	L94	30.7336263709562
comp96620_c0_seq1	L10	92.4672467371843	comp94420_c0_seq1	L36	54.9998893524491	comp111333_c1_seq1	L63	86.1920815551093	comp126356_c3_seq1	L94	30.7336263709562
comp101772_c0_seq1	L11	0	comp102578_c0_seq1	L36	56.6133523808884	comp122265_c0_seq1	L63	86.1920815551093	comp127781_c0_seq2	L94	30.7336263709562
comp106476_c1_seq1	L11	0	comp103564_c1_seq2	L36	56.6133523808884	comp49424_c0_seq1	L63	86.1920815551093	comp128443_c0_seq1	L94	30.7336263709562

comp110156_c0_seq1	L11	0	comp104831_c0_seq1	L36	56.6133523808884	comp63182_c0_seq1	L63	86.1920815551093	comp128907_c0_seq1	L94	30.7336263709562
comp110254_c0_seq1	L11	0	comp105383_c1_seq1	L36	56.6133523808884	comp102753_c0_seq1	L63	89.4223748421095	comp129308_c1_seq1	L94	30.7336263709562
comp112393_c0_seq2	L11	0	comp108227_c0_seq2	L36	56.6133523808884	comp125340_c0_seq3	L63	89.4223748421095	comp129606_c1_seq1	L94	30.7336263709562
comp116849_c0_seq1	L11	0	comp119943_c0_seq1	L36	56.6133523808884	comp129111_c0_seq2	L63	89.4223748421095	comp130076_c0_seq1	L94	30.7336263709562
comp118611_c0_seq1	L11	0	comp120192_c0_seq1	L36	56.6133523808884	comp98528_c1_seq1	L63	89.4223748421095	comp130279_c1_seq1	L94	30.7336263709562
comp119399_c0_seq1	L11	0	comp121327_c0_seq1	L36	56.6133523808884	comp101295_c0_seq1	L63	92.6526681291096	comp131539_c1_seq1	L94	30.7336263709562
comp120462_c0_seq1	L11	0	comp133103_c0_seq1	L36	56.6133523808884	comp103596_c0_seq1	L63	92.6526681291096	comp131907_c1_seq1	L94	30.7336263709562
comp122638_c1_seq1	L11	0	comp56793_c0_seq1	L36	56.6133523808884	comp107957_c0_seq1	L63	92.6526681291096	comp41139_c0_seq1	L94	30.7336263709562
comp123373_c1_seq2	L11	0	comp66080_c0_seq1	L36	56.6133523808884	comp108814_c0_seq1	L63	92.6526681291096	comp41535_c0_seq1	L94	30.7336263709562
comp133150_c0_seq2	L11	0	comp80824_c0_seq1	L36	56.6133523808884	comp109868_c0_seq1	L63	92.6526681291096	comp44055_c0_seq1	L94	30.7336263709562
comp45632_c0_seq1	L11	0	comp80866_c0_seq1	L36	56.6133523808884	comp113232_c0_seq1	L63	92.6526681291096	comp44933_c0_seq1	L94	30.7336263709562
comp74765_c0_seq1	L11	0	comp81218_c0_seq1	L36	56.6133523808884	comp114098_c0_seq1	L63	92.6526681291096	comp5367_c0_seq1	L94	30.7336263709562
comp76844_c0_seq1	L11	0	comp82431_c0_seq1	L36	56.6133523808884	comp115153_c0_seq1	L63	92.6526681291096	comp61314_c0_seq1	L94	30.7336263709562
comp80986_c0_seq1	L11	0	comp83982_c0_seq1	L36	56.6133523808884	comp115876_c0_seq2	L63	92.6526681291096	comp63511_c1_seq1	L94	30.7336263709562
comp82397_c0_seq1	L11	0	comp87604_c0_seq1	L36	56.6133523808884	comp116500_c0_seq1	L63	92.6526681291096	comp70894_c0_seq1	L94	30.7336263709562
comp89281_c1_seq1	L11	0	comp91617_c0_seq1	L36	56.6133523808884	comp117196_c0_seq1	L63	92.6526681291096	comp71743_c1_seq1	L94	30.7336263709562
comp89553_c0_seq1	L11	0	comp92025_c0_seq1	L36	56.6133523808884	comp117600_c2_seq1	L63	92.6526681291096	comp73913_c0_seq1	L94	30.7336263709562
comp95252_c0_seq1	L11	0	comp92453_c0_seq1	L36	56.6133523808884	comp121583_c0_seq1	L63	92.6526681291096	comp86386_c0_seq1	L94	30.7336263709562
comp115476_c0_seq1	L11	1.61346302843928	comp96772_c0_seq1	L36	56.6133523808884	comp121589_c0_seq1	L63	92.6526681291096	comp86483_c0_seq1	L94	30.7336263709562
comp118614_c0_seq1	L11	1.61346302843928	comp96921_c0_seq1	L36	56.6133523808884	comp124570_c0_seq1	L63	92.6526681291096	comp86483_c1_seq1	L94	30.7336263709562
comp122013_c0_seq1	L11	1.61346302843928	comp96979_c0_seq1	L36	56.6133523808884	comp127087_c0_seq1	L63	92.6526681291096	comp86835_c0_seq1	L94	30.7336263709562
comp124879_c0_seq1	L11	1.61346302843928	comp100385_c1_seq1	L37	0	comp128386_c0_seq1	L63	92.6526681291096	comp88529_c0_seq1	L94	30.7336263709562
comp130125_c0_seq1	L11	1.61346302843928	comp103776_c0_seq1	L37	0	comp132499_c0_seq1	L63	92.6526681291096	comp90957_c0_seq1	L94	30.7336263709562
comp131932_c0_seq1	L11	1.61346302843928	comp103867_c0_seq1	L37	0	comp44281_c0_seq1	L63	92.6526681291096	comp91498_c0_seq1	L94	30.7336263709562
comp62793_c0_seq1	L11	1.61346302843928	comp104156_c0_seq1	L37	0	comp57443_c0_seq1	L63	92.6526681291096	comp93871_c0_seq1	L94	30.7336263709562
comp65610_c0_seq1	L11	1.61346302843928	comp108784_c0_seq1	L37	0	comp87387_c0_seq1	L63	92.6526681291096	comp94658_c0_seq1	L94	30.7336263709562
comp83330_c0_seq1	L11	1.61346302843928	comp27759_c0_seq1	L37	0	comp88017_c0_seq1	L63	92.6526681291096	comp99472_c0_seq1	L94	30.7336263709562
comp94948_c0_seq2	L11	1.61346302843928	comp28187_c0_seq1	L37	0	comp89850_c0_seq1	L63	92.6526681291096	comp107122_c1_seq1	L95	0
comp103303_c0_seq1	L11	6.46736338946321	comp30653_c0_seq1	L37	0	comp91869_c0_seq1	L63	92.6526681291096	comp110644_c0_seq1	L95	0

comp106528_c0_seq1	L11	6.46736338946321	comp31808_c0_seq1	L37	0	comp92034_c0_seq1	L63	92.6526681291096	comp115950_c0_seq2	L95	0
comp110792_c0_seq1	L11	6.46736338946321	comp39739_c0_seq1	L37	0	comp93657_c2_seq1	L63	92.6526681291096	comp122504_c4_seq1	L95	0
comp124658_c1_seq1	L11	6.46736338946321	comp43117_c0_seq1	L37	0	comp95479_c0_seq1	L63	92.6526681291096	comp123871_c0_seq1	L95	0
comp126940_c0_seq5	L11	6.46736338946321	comp52156_c0_seq1	L37	0	comp96039_c0_seq1	L63	92.6526681291096	comp127568_c0_seq1	L95	0
comp128302_c0_seq1	L11	6.46736338946321	comp55728_c0_seq1	L37	0	comp133641_c0_seq2	L64	0	comp128812_c0_seq1	L95	0
comp131728_c0_seq1	L11	6.46736338946321	comp65858_c0_seq1	L37	0	comp103357_c0_seq1	L64	1.61346302843928	comp132584_c0_seq1	L95	0
comp27463_c0_seq1	L11	6.46736338946321	comp74106_c0_seq1	L37	0	comp114256_c0_seq1	L64	1.61346302843928	comp84023_c1_seq1	L95	0
comp57174_c1_seq1	L11	6.46736338946321	comp74360_c0_seq2	L37	0	comp127384_c0_seq1	L64	1.61346302843928	comp113961_c0_seq1	L95	6.48777988712711
comp99579_c0_seq1	L11	6.46736338946321	comp84607_c0_seq1	L37	0	comp129292_c0_seq1	L64	1.61346302843928	comp121501_c0_seq1	L95	6.48777988712711
comp113437_c0_seq1	L11	11.3212637504871	comp95950_c0_seq1	L37	0	comp102035_c0_seq2	L64	4.84375631543943	comp122388_c0_seq1	L95	6.48777988712711
comp113725_c0_seq1	L11	11.3212637504871	comp9663_c0_seq1	L37	0	comp105179_c0_seq1	L64	4.84375631543943	comp123395_c0_seq1	L95	6.48777988712711
comp122400_c0_seq1	L11	11.3212637504871	comp99829_c0_seq1	L37	0	comp105179_c1_seq1	L64	4.84375631543943	comp133647_c0_seq1	L95	6.48777988712711
comp91848_c0_seq1	L11	11.3212637504871	comp117090_c0_seq1	L37	1.61346302843928	comp110646_c0_seq1	L64	4.84375631543943	comp101676_c0_seq1	L95	11.341680248151
comp101459_c0_seq1	L11	12.9347267789264	comp126642_c0_seq1	L37	1.61346302843928	comp120649_c1_seq1	L64	4.84375631543943	comp102130_c0_seq1	L95	11.341680248151
comp123764_c0_seq1	L11	12.9347267789264	comp127320_c1_seq1	L37	1.61346302843928	comp122342_c0_seq1	L64	4.84375631543943	comp108065_c0_seq1	L95	11.341680248151
comp125677_c1_seq1	L11	12.9347267789264	comp67777_c0_seq1	L37	1.61346302843928	comp122726_c0_seq1	L64	4.84375631543943	comp109432_c0_seq2	L95	11.341680248151
comp44961_c0_seq1	L11	12.9347267789264	comp70964_c0_seq1	L37	1.61346302843928	comp123585_c0_seq3	L64	4.84375631543943	comp109696_c0_seq4	L95	11.341680248151
comp92910_c0_seq1	L11	12.9347267789264	comp82755_c0_seq1	L37	1.61346302843928	comp131048_c0_seq1	L64	4.84375631543943	comp117318_c0_seq1	L95	11.341680248151
comp96884_c0_seq1	L11	12.9347267789264	comp93096_c0_seq1	L37	1.61346302843928	comp111704_c0_seq1	L64	8.07404960243958	comp124615_c0_seq1	L95	11.341680248151
comp129719_c0_seq1	L11	17.7886271399504	comp98038_c0_seq2	L37	1.61346302843928	comp115523_c0_seq1	L64	8.07404960243958	comp128354_c0_seq2	L95	11.341680248151
comp117823_c0_seq1	L11	19.4020901683896	comp98830_c1_seq1	L37	1.61346302843928	comp116642_c0_seq2	L64	8.07404960243958	comp128644_c1_seq2	L95	11.341680248151
comp125527_c3_seq3	L11	19.4020901683896	comp69512_c0_seq1	L37	11.4145152228399	comp117708_c0_seq2	L64	8.07404960243958	comp129588_c0_seq2	L95	11.341680248151
comp131739_c0_seq1	L11	19.4020901683896	comp101837_c1_seq1	L37	13.0279782512792	comp117986_c0_seq1	L64	8.07404960243958	comp112050_c0_seq1	L95	14.5719735351512
comp56397_c0_seq1	L11	19.4020901683896	comp104809_c0_seq1	L37	13.0279782512792	comp120656_c0_seq1	L64	8.07404960243958	comp117388_c0_seq1	L95	14.5719735351512
comp103448_c1_seq1	L11	29.2031423627902	comp106929_c0_seq1	L37	13.0279782512792	comp131943_c0_seq2	L64	8.07404960243958	comp126668_c0_seq1	L95	17.8022668221513
comp129961_c0_seq1	L11	29.2031423627902	comp107618_c0_seq1	L37	13.0279782512792	comp86990_c0_seq1	L64	8.07404960243958	comp109579_c1_seq1	L95	21.0325601091515
comp89602_c0_seq1	L11	29.2031423627902	comp111222_c0_seq1	L37	13.0279782512792	comp97898_c1_seq1	L64	8.07404960243958	comp115278_c1_seq1	L95	21.0325601091515
comp96756_c0_seq1	L11	29.2031423627902	comp114092_c0_seq1	L37	13.0279782512792	comp104059_c1_seq1	L64	17.8751017968402	comp129687_c0_seq1	L95	27.5203399962786
comp97256_c0_seq1	L11	29.2031423627902	comp115894_c1_seq1	L37	13.0279782512792	comp126241_c2_seq1	L64	17.8751017968402	comp129838_c0_seq1	L95	27.5203399962786

comp107003_c0_seq1	L11	34.0570427238142	comp116041_c0_seq1	L37	13.0279782512792	comp127640_c0_seq1	L64	17.8751017968402	comp104520_c0_seq1	L95	35.6559000071443
comp108205_c0_seq1	L11	34.0570427238142	comp116295_c0_seq1	L37	13.0279782512792	comp132916_c0_seq1	L64	17.8751017968402	comp106183_c0_seq2	L95	35.6559000071443
comp119574_c0_seq1	L11	34.0570427238142	comp118013_c0_seq1	L37	13.0279782512792	comp78358_c0_seq1	L64	17.8751017968402	comp112609_c0_seq1	L95	35.6559000071443
comp123463_c0_seq1	L11	34.0570427238142	comp118013_c1_seq1	L37	13.0279782512792	comp88571_c0_seq1	L64	17.8751017968402	comp112894_c0_seq1	L95	35.6559000071443
comp129822_c0_seq1	L11	34.0570427238142	comp123916_c0_seq4	L37	13.0279782512792	comp97987_c0_seq4	L64	17.8751017968402	comp120980_c1_seq1	L95	35.6559000071443
comp75350_c0_seq1	L11	34.0570427238142	comp124311_c1_seq1	L37	13.0279782512792	comp117491_c0_seq1	L64	29.3634100313012	comp73214_c0_seq1	L95	35.6559000071443
comp75350_c1_seq1	L11	34.0570427238142	comp54489_c0_seq1	L37	13.0279782512792	comp103041_c0_seq1	L64	32.5937033183013	comp84482_c0_seq1	L95	35.6559000071443
comp99963_c0_seq1	L11	34.0570427238142	comp87660_c0_seq1	L37	13.0279782512792	comp94850_c0_seq1	L64	32.5937033183013	comp109938_c0_seq1	L95	37.2693630355836
comp123097_c0_seq1	L11	47.2587284788266	comp88883_c0_seq1	L37	13.0279782512792	comp103797_c0_seq1	L64	34.2071663467406	comp60698_c0_seq1	L95	37.2693630355836
comp128983_c0_seq1	L11	47.2587284788266	comp88975_c0_seq1	L37	13.0279782512792	comp118631_c0_seq1	L64	34.2071663467406	comp95834_c0_seq1	L95	37.2693630355836
comp91894_c0_seq1	L11	47.2587284788266	comp93714_c0_seq1	L37	13.0279782512792	comp128940_c0_seq1	L64	34.2071663467406	comp96768_c0_seq1	L95	37.2693630355836
comp101932_c0_seq1	L11	50.4890217658267	comp94739_c1_seq1	L37	13.0279782512792	comp131330_c0_seq1	L64	34.2071663467406	comp97134_c0_seq1	L95	37.2693630355836
comp107293_c1_seq1	L11	52.102484794266	comp94739_c2_seq4	L37	13.0279782512792	comp117826_c0_seq1	L64	37.4374596337408	comp124691_c0_seq1	L95	38.8828260640229
comp108905_c0_seq1	L11	52.102484794266	comp98807_c0_seq1	L37	13.0279782512792	comp126434_c0_seq1	L64	37.4374596337408	comp117656_c0_seq1	L95	52.0845118190353
comp114360_c0_seq1	L11	52.102484794266	comp99437_c0_seq1	L37	13.0279782512792	comp93694_c0_seq1	L64	37.4374596337408	comp71705_c0_seq1	L95	52.0845118190353
comp115472_c0_seq1	L11	52.102484794266	comp103722_c0_seq1	L37	14.6414412797184	comp96185_c0_seq1	L64	37.4374596337408	comp101981_c0_seq1	L95	56.9384121800592
comp119823_c0_seq1	L11	52.102484794266	comp113130_c0_seq1	L37	14.6414412797184	comp101671_c0_seq2	L64	39.05092266218	comp110047_c1_seq1	L95	56.9384121800592
comp121674_c0_seq1	L11	52.102484794266	comp91919_c0_seq2	L37	14.6414412797184	comp105354_c0_seq1	L64	39.05092266218	comp117511_c1_seq1	L95	56.9384121800592
comp128129_c0_seq1	L11	52.102484794266	comp103218_c0_seq1	L37	17.8717345667186	comp110843_c0_seq1	L64	39.05092266218	comp101089_c0_seq1	L95	63.4261920671863
comp128608_c0_seq1	L11	52.102484794266	comp109738_c1_seq2	L37	17.8717345667186	comp112133_c0_seq1	L64	39.05092266218	comp102053_c0_seq1	L95	63.4261920671863
comp133946_c0_seq1	L11	52.102484794266	comp112608_c0_seq1	L37	17.8717345667186	comp115182_c0_seq1	L64	39.05092266218	comp110197_c0_seq1	L95	63.4261920671863
comp90474_c0_seq1	L11	52.102484794266	comp114897_c0_seq1	L37	17.8717345667186	comp120233_c0_seq1	L64	39.05092266218	comp115253_c0_seq4	L95	63.4261920671863
comp122475_c0_seq1	L11	55.3327780812662	comp126255_c1_seq1	L37	17.8717345667186	comp121006_c0_seq2	L64	39.05092266218	comp118380_c0_seq1	L95	63.4261920671863
comp115418_c0_seq1	L11	61.8205579683933	comp130131_c0_seq1	L37	17.8717345667186	comp121006_c1_seq1	L64	39.05092266218	comp119195_c0_seq1	L95	63.4261920671863
comp122144_c0_seq1	L11	61.8205579683933	comp59447_c0_seq1	L37	17.8717345667186	comp78232_c0_seq1	L64	39.05092266218	comp124139_c0_seq1	L95	63.4261920671863
comp128188_c0_seq1	L11	61.8205579683933	comp62983_c0_seq1	L37	17.8717345667186	comp96886_c0_seq1	L64	39.05092266218	comp131923_c0_seq1	L95	63.4261920671863
comp116851_c0_seq1	L11	63.4340209968326	comp72789_c0_seq2	L37	17.8717345667186	comp46193_c0_seq1	L64	43.904823023204	comp133054_c0_seq1	L95	63.4261920671863
comp125329_c0_seq1	L11	71.5695810076983	comp96704_c0_seq1	L37	17.8717345667186	comp106422_c0_seq1	L64	47.1351163102041	comp63461_c0_seq1	L95	63.4261920671863
comp125874_c0_seq1	L11	71.5695810076983	comp84919_c0_seq1	L37	19.4851975951579	comp109633_c0_seq1	L64	47.1351163102041	comp66331_c0_seq1	L95	63.4261920671863

comp112633_c1_seq1	L11	74.7998742946984	comp111920_c0_seq1	L37	21.0986606235971	comp105054_c0_seq5	L64	48.7485793386434	comp72356_c0_seq1	L95	63.4261920671863
comp116009_c0_seq1	L11	74.7998742946984	comp112282_c0_seq1	L37	21.0986606235971	comp111482_c0_seq1	L64	48.7485793386434	comp74346_c0_seq2	L95	63.4261920671863
comp124188_c0_seq2	L11	74.7998742946984	comp76718_c0_seq1	L37	21.0986606235971	comp115327_c0_seq1	L64	48.7485793386434	comp79283_c0_seq1	L95	63.4261920671863
comp131074_c0_seq2	L11	74.7998742946984	comp54904_c0_seq1	L37	27.5864405107243	comp116253_c0_seq1	L64	48.7485793386434	comp80308_c0_seq1	L95	63.4261920671863
comp121284_c0_seq1	L11	78.0301675816986	comp98786_c1_seq4	L37	27.5864405107243	comp118879_c0_seq2	L64	48.7485793386434	comp82717_c0_seq1	L95	63.4261920671863
comp104165_c0_seq1	L11	79.6436306101378	comp58643_c0_seq1	L37	30.8167337977244	comp124196_c0_seq1	L64	48.7485793386434	comp83137_c0_seq1	L95	63.4261920671863
comp109673_c0_seq1	L11	79.6436306101378	comp73310_c0_seq1	L37	30.8167337977244	comp128610_c0_seq1	L64	48.7485793386434	comp85244_c0_seq1	L95	63.4261920671863
comp110114_c0_seq1	L11	79.6436306101378	comp112500_c0_seq1	L37	35.6706341587483	comp84411_c0_seq1	L64	48.7485793386434	comp85665_c0_seq1	L95	63.4261920671863
comp112774_c1_seq2	L11	79.6436306101378	comp133898_c0_seq1	L37	35.6706341587483	comp92449_c0_seq1	L64	48.7485793386434	comp86938_c0_seq1	L95	63.4261920671863
comp113889_c0_seq1	L11	79.6436306101378	comp85895_c0_seq1	L37	35.6706341587483	comp96591_c2_seq1	L64	48.7485793386434	comp88064_c0_seq1	L95	63.4261920671863
comp115601_c0_seq1	L11	79.6436306101378	comp97159_c0_seq1	L37	35.6706341587483	comp98735_c0_seq1	L64	48.7485793386434	comp89747_c0_seq1	L95	63.4261920671863
comp115801_c0_seq1	L11	79.6436306101378	comp116881_c0_seq1	L37	43.806194169614	comp101192_c0_seq1	L64	50.3620423670827	comp90351_c0_seq2	L95	63.4261920671863
comp118739_c2_seq1	L11	79.6436306101378	comp102770_c1_seq1	L37	48.660094530638	comp99735_c0_seq1	L64	50.3620423670827	comp91876_c0_seq1	L95	63.4261920671863
comp123583_c1_seq2	L11	79.6436306101378	comp126422_c0_seq1	L37	48.660094530638	comp86319_c0_seq1	L64	51.975505395522	comp92374_c0_seq1	L95	63.4261920671863
comp123754_c0_seq16	L11	79.6436306101378	comp130083_c0_seq1	L37	48.660094530638	comp100535_c0_seq1	L64	53.5889684239612	comp92942_c0_seq1	L95	63.4261920671863
comp127344_c0_seq1	L11	79.6436306101378	comp120279_c0_seq1	L37	50.2735575590773	comp100641_c0_seq1	L64	53.5889684239612	comp99461_c0_seq1	L95	63.4261920671863
comp131551_c0_seq2	L11	79.6436306101378	comp100247_c0_seq1	L37	51.8870205875165	comp101602_c0_seq1	L64	53.5889684239612	comp30199_c0_seq1	L95	65.0396550956256
comp78573_c0_seq1	L11	79.6436306101378	comp105746_c0_seq1	L37	51.8870205875165	comp102129_c0_seq1	L64	53.5889684239612	comp41543_c0_seq1	L95	65.0396550956256
comp88548_c0_seq1	L11	79.6436306101378	comp111094_c0_seq1	L37	51.8870205875165	comp103662_c0_seq3	L64	53.5889684239612	comp43702_c0_seq1	L95	65.0396550956256
comp96763_c0_seq1	L11	79.6436306101378	comp113593_c0_seq1	L37	51.8870205875165	comp106627_c0_seq1	L64	53.5889684239612	comp57263_c0_seq1	L95	65.0396550956256
comp118537_c0_seq1	L11	86.131410497265	comp122650_c0_seq1	L37	51.8870205875165	comp106917_c0_seq1	L64	53.5889684239612	comp57317_c0_seq1	L95	65.0396550956256
comp84249_c0_seq1	L11	86.131410497265	comp123008_c0_seq1	L37	51.8870205875165	comp108389_c0_seq1	L64	53.5889684239612	comp58224_c0_seq2	L95	65.0396550956256
comp96600_c0_seq1	L11	89.3617037842651	comp123008_c1_seq1	L37	51.8870205875165	comp108824_c0_seq1	L64	53.5889684239612	comp59002_c0_seq4	L95	65.0396550956256
comp90829_c0_seq1	L11	94.215604145289	comp125568_c0_seq1	L37	51.8870205875165	comp110409_c0_seq1	L64	53.5889684239612	comp59785_c0_seq1	L95	65.0396550956256
comp108219_c1_seq1	L11	95.8290671737283	comp80631_c0_seq1	L37	51.8870205875165	comp111260_c1_seq1	L64	53.5889684239612	comp61105_c0_seq1	L95	65.0396550956256
comp112905_c0_seq1	L11	95.8290671737283	comp88633_c0_seq2	L37	51.8870205875165	comp111296_c0_seq1	L64	53.5889684239612	comp62269_c0_seq1	L95	65.0396550956256
comp130417_c1_seq1	L11	95.8290671737283	comp90734_c0_seq2	L37	51.8870205875165	comp113205_c1_seq1	L64	53.5889684239612	comp68167_c0_seq1	L95	65.0396550956256
comp73302_c0_seq1	L11	95.8290671737283	comp96660_c0_seq2	L37	51.8870205875165	comp113960_c1_seq1	L64	53.5889684239612	comp74774_c0_seq1	L95	65.0396550956256
comp100079_c0_seq1	L11	100.682967534752	comp99936_c0_seq1	L37	56.7409209485405	comp115565_c0_seq3	L64	53.5889684239612	comp76762_c0_seq1	L95	65.0396550956256

comp115413_c1_seq1	L11	100.682967534752	comp107048_c0_seq3	L37	61.5948213095644	comp116494_c0_seq1	L64	53.5889684239612	comp83871_c0_seq1	L95	65.0396550956256
comp32795_c0_seq1	L11	100.682967534752	comp110306_c0_seq1	L37	61.5948213095644	comp119846_c0_seq1	L64	53.5889684239612	comp87951_c1_seq2	L95	65.0396550956256
comp63322_c0_seq1	L11	100.682967534752	comp117012_c0_seq1	L37	61.5948213095644	comp121639_c0_seq1	L64	53.5889684239612	comp90349_c0_seq1	L95	65.0396550956256
comp64408_c0_seq1	L11	100.682967534752	comp123341_c0_seq1	L37	61.5948213095644	comp128038_c0_seq1	L64	53.5889684239612	comp115732_c0_seq1	L96	0
comp69902_c0_seq1	L11	100.682967534752	comp124212_c0_seq1	L37	61.5948213095644	comp130350_c1_seq1	L64	53.5889684239612	comp119445_c3_seq1	L96	0
comp78508_c0_seq2	L11	100.682967534752	comp124541_c0_seq1	L37	61.5948213095644	comp130684_c3_seq1	L64	53.5889684239612	comp54617_c0_seq1	L96	0
comp84276_c0_seq1	L11	100.682967534752	comp44675_c0_seq1	L37	61.5948213095644	comp133615_c2_seq1	L64	53.5889684239612	comp115786_c0_seq1	L96	4.85390036102393
comp95078_c0_seq1	L11	100.682967534752	comp101068_c0_seq1	L37	66.4487216705883	comp13619_c0_seq1	L64	53.5889684239612	comp121598_c0_seq1	L96	4.85390036102393
comp95547_c0_seq1	L11	100.682967534752	comp105608_c1_seq1	L37	66.4487216705883	comp18974_c0_seq1	L64	53.5889684239612	comp79925_c0_seq1	L96	4.85390036102393
comp95835_c0_seq1	L11	100.682967534752	comp109056_c0_seq1	L37	66.4487216705883	comp20662_c0_seq1	L64	53.5889684239612	comp80193_c2_seq1	L96	4.85390036102393
comp17559_c0_seq1	L11	105.536867895776	comp121296_c1_seq1	L37	66.4487216705883	comp27569_c0_seq1	L64	53.5889684239612	comp83597_c0_seq1	L96	4.85390036102393
comp100675_c0_seq4	L11	113.672427906642	comp121333_c0_seq2	L37	66.4487216705883	comp28101_c0_seq1	L64	53.5889684239612	comp93204_c0_seq1	L96	4.85390036102393
comp110736_c0_seq1	L12	0	comp121662_c0_seq1	L37	66.4487216705883	comp30469_c0_seq1	L64	53.5889684239612	comp94604_c1_seq1	L96	4.85390036102393
comp121277_c0_seq1	L12	9.8010521944006	comp123607_c0_seq1	L37	66.4487216705883	comp30636_c0_seq1	L64	53.5889684239612	comp97176_c0_seq1	L96	4.85390036102393
comp87664_c0_seq1	L12	19.6021043888012	comp57942_c0_seq1	L37	66.4487216705883	comp31764_c0_seq1	L64	53.5889684239612	comp102693_c0_seq1	L96	8.08419364802409
comp92659_c0_seq1	L12	19.6021043888012	comp90862_c0_seq1	L37	66.4487216705883	comp41822_c0_seq1	L64	53.5889684239612	comp110126_c0_seq3	L96	8.08419364802409
comp89858_c0_seq1	L12	22.8323976758013	comp94235_c0_seq1	L37	66.4487216705883	comp44775_c0_seq1	L64	53.5889684239612	comp112867_c0_seq1	L96	8.08419364802409
comp99157_c0_seq1	L12	22.8323976758013	comp96897_c0_seq1	L37	66.4487216705883	comp46118_c0_seq1	L64	53.5889684239612	comp91492_c0_seq1	L96	8.08419364802409
comp119502_c0_seq5	L12	27.6862980368253	comp109609_c0_seq1	L37	71.3026220316123	comp46352_c0_seq1	L64	53.5889684239612	comp101204_c0_seq1	L96	11.3144869350242
comp105927_c0_seq1	L12	37.4873502312259	comp119028_c0_seq1	L37	71.3026220316123	comp46409_c0_seq1	L64	53.5889684239612	comp105443_c0_seq1	L96	11.3144869350242
comp106041_c0_seq1	L12	37.4873502312259	comp73790_c0_seq1	L37	71.3026220316123	comp48390_c0_seq1	L64	53.5889684239612	comp105609_c0_seq1	L96	11.3144869350242
comp116333_c0_seq1	L12	37.4873502312259	comp81198_c0_seq1	L37	71.3026220316123	comp55053_c0_seq1	L64	53.5889684239612	comp108969_c0_seq1	L96	11.3144869350242
comp91909_c0_seq1	L12	37.4873502312259	comp104047_c0_seq1	L37	72.9160850600515	comp57143_c0_seq1	L64	53.5889684239612	comp110911_c0_seq1	L96	11.3144869350242
comp100845_c1_seq1	L12	39.1008132596652	comp106313_c0_seq1	L37	72.9160850600515	comp58871_c0_seq1	L64	53.5889684239612	comp113677_c0_seq1	L96	11.3144869350242
comp102127_c0_seq1	L12	39.1008132596652	comp116559_c0_seq1	L37	72.9160850600515	comp59705_c0_seq1	L64	53.5889684239612	comp121287_c0_seq1	L96	11.3144869350242
comp104199_c0_seq1	L12	39.1008132596652	comp118764_c0_seq1	L37	72.9160850600515	comp62614_c0_seq1	L64	53.5889684239612	comp121848_c0_seq1	L96	11.3144869350242
comp106007_c1_seq1	L12	39.1008132596652	comp121597_c0_seq1	L37	72.9160850600515	comp63268_c0_seq1	L64	53.5889684239612	comp124904_c0_seq3	L96	11.3144869350242
comp106529_c0_seq1	L12	39.1008132596652	comp127010_c1_seq1	L37	72.9160850600515	comp66223_c0_seq1	L64	53.5889684239612	comp126601_c0_seq1	L96	11.3144869350242
comp106969_c0_seq2	L12	39.1008132596652	comp69041_c0_seq1	L37	72.9160850600515	comp66350_c0_seq1	L64	53.5889684239612	comp128413_c1_seq1	L96	11.3144869350242

comp114408_c0_seq1	L12	39.1008132596652	comp72274_c0_seq1	L37	72.9160850600515	comp67867_c0_seq1	L64	53.5889684239612	comp131854_c0_seq1	L96	11.3144869350242
comp114587_c0_seq9	L12	39.1008132596652	comp78648_c0_seq1	L37	72.9160850600515	comp69858_c0_seq1	L64	53.5889684239612	comp133664_c0_seq1	L96	11.3144869350242
comp118593_c1_seq1	L12	39.1008132596652	comp90979_c0_seq1	L37	72.9160850600515	comp71548_c0_seq1	L64	53.5889684239612	comp105649_c0_seq1	L96	12.9279499634635
comp74491_c0_seq1	L12	39.1008132596652	comp97121_c0_seq5	L37	72.9160850600515	comp72678_c0_seq1	L64	53.5889684239612	comp129191_c0_seq1	L96	12.9279499634635
comp86465_c0_seq1	L12	39.1008132596652	comp110120_c0_seq1	L37	74.5295480884908	comp72772_c0_seq1	L64	53.5889684239612	comp130235_c0_seq1	L96	12.9279499634635
comp96855_c1_seq1	L12	39.1008132596652	comp91546_c0_seq1	L37	74.5295480884908	comp72936_c0_seq1	L64	53.5889684239612	comp106599_c0_seq1	L96	16.1582432504637
comp101390_c0_seq1	L12	40.7142762881044	comp115981_c0_seq1	L37	76.1430111169301	comp73371_c0_seq2	L64	53.5889684239612	comp94864_c0_seq1	L96	16.1582432504637
comp104079_c0_seq1	L12	40.7142762881044	comp105081_c1_seq8	L37	77.7564741453694	comp73386_c0_seq3	L64	53.5889684239612	comp107882_c0_seq3	L96	17.771706278903
comp108477_c0_seq1	L12	40.7142762881044	comp107755_c1_seq1	L37	77.7564741453694	comp75641_c0_seq1	L64	53.5889684239612	comp122783_c0_seq1	L96	17.771706278903
comp115114_c0_seq1	L12	40.7142762881044	comp111443_c0_seq1	L37	77.7564741453694	comp76534_c0_seq1	L64	53.5889684239612	comp122945_c0_seq2	L96	17.771706278903
comp48522_c0_seq1	L12	40.7142762881044	comp115411_c0_seq2	L37	77.7564741453694	comp77184_c1_seq1	L64	53.5889684239612	comp126106_c0_seq2	L96	17.771706278903
comp53615_c0_seq1	L12	40.7142762881044	comp117628_c1_seq1	L37	77.7564741453694	comp79797_c0_seq1	L64	53.5889684239612	comp127585_c1_seq2	L96	17.771706278903
comp65265_c0_seq1	L12	40.7142762881044	comp119308_c1_seq1	L37	77.7564741453694	comp82705_c0_seq1	L64	53.5889684239612	comp104147_c0_seq2	L96	19.3851693073422
comp78983_c0_seq2	L12	40.7142762881044	comp23520_c0_seq1	L37	77.7564741453694	comp82921_c1_seq1	L64	53.5889684239612	comp117122_c0_seq1	L96	19.3851693073422
comp82581_c0_seq1	L12	40.7142762881044	comp39723_c0_seq1	L37	77.7564741453694	comp83013_c0_seq1	L64	53.5889684239612	comp117231_c0_seq2	L96	19.3851693073422
comp88114_c0_seq1	L12	40.7142762881044	comp69327_c0_seq1	L37	77.7564741453694	comp83831_c0_seq1	L64	53.5889684239612	comp118427_c0_seq1	L96	19.3851693073422
comp93995_c0_seq1	L12	40.7142762881044	comp70568_c0_seq1	L37	77.7564741453694	comp84992_c0_seq1	L64	53.5889684239612	comp121569_c2_seq1	L96	19.3851693073422
comp95000_c0_seq2	L12	40.7142762881044	comp72296_c0_seq1	L37	77.7564741453694	comp85834_c0_seq1	L64	53.5889684239612	comp123455_c0_seq1	L96	19.3851693073422
comp95685_c0_seq1	L12	40.7142762881044	comp78777_c0_seq1	L37	77.7564741453694	comp86951_c0_seq2	L64	53.5889684239612	comp123455_c1_seq1	L96	19.3851693073422
comp98580_c0_seq1	L12	40.7142762881044	comp79188_c0_seq1	L37	77.7564741453694	comp87985_c0_seq1	L64	53.5889684239612	comp127929_c0_seq2	L96	19.3851693073422
comp100331_c0_seq1	L12	47.2020561752315	comp84525_c0_seq1	L37	77.7564741453694	comp88327_c0_seq1	L64	53.5889684239612	comp88485_c0_seq1	L96	19.3851693073422
comp103404_c0_seq1	L12	47.2020561752315	comp88625_c0_seq1	L37	77.7564741453694	comp88749_c0_seq1	L64	53.5889684239612	comp103459_c0_seq1	L96	22.6154625943424
comp107020_c0_seq1	L12	47.2020561752315	comp90685_c3_seq1	L37	77.7564741453694	comp88882_c0_seq1	L64	53.5889684239612	comp117828_c0_seq1	L96	22.6154625943424
comp109247_c0_seq1	L12	47.2020561752315	comp90879_c0_seq1	L37	77.7564741453694	comp89210_c0_seq1	L64	53.5889684239612	comp125294_c0_seq1	L96	22.6154625943424
comp121165_c0_seq1	L12	47.2020561752315	comp94514_c0_seq1	L37	77.7564741453694	comp89865_c0_seq1	L64	53.5889684239612	comp69881_c0_seq1	L96	22.6154625943424
comp122064_c0_seq1	L12	47.2020561752315	comp96168_c0_seq1	L37	77.7564741453694	comp91398_c0_seq1	L64	53.5889684239612	comp104838_c0_seq1	L96	24.2289256227817
comp69998_c0_seq1	L12	47.2020561752315	comp97121_c2_seq1	L37	77.7564741453694	comp91457_c0_seq1	L64	53.5889684239612	comp133013_c1_seq6	L96	24.2289256227817
comp78626_c0_seq1	L12	47.2020561752315	comp99944_c1_seq1	L37	77.7564741453694	comp92510_c0_seq1	L64	53.5889684239612	comp23050_c0_seq1	L96	24.2289256227817
comp81434_c0_seq1	L12	47.2020561752315	comp105343_c0_seq1	L38	0	comp94417_c1_seq1	L64	53.5889684239612	comp26544_c0_seq1	L96	24.2289256227817

comp83679_c0_seq1	L12	47.2020561752315	comp114421_c0_seq1	L38	0	comp95537_c0_seq1	L64	53.5889684239612	comp104531_c0_seq1	L97	0
comp96101_c0_seq1	L12	47.2020561752315	comp133161_c0_seq1	L38	0	comp96625_c0_seq1	L64	53.5889684239612	comp106894_c0_seq1	L97	0
comp97280_c0_seq1	L12	47.2020561752315	comp123529_c0_seq1	L38	1.61346302843928	comp96746_c0_seq1	L64	53.5889684239612	comp109333_c1_seq1	L97	0
comp118485_c0_seq1	L12	50.4323494622317	comp101704_c0_seq1	L38	13.1017712629003	comp99484_c0_seq1	L64	53.5889684239612	comp110316_c0_seq1	L97	0
comp119126_c0_seq2	L12	50.4323494622317	comp102651_c0_seq1	L38	13.1017712629003	comp102890_c0_seq1	L65	0	comp112961_c0_seq1	L97	0
comp124197_c2_seq1	L12	50.4323494622317	comp111645_c0_seq1	L38	13.1017712629003	comp118703_c0_seq1	L65	0	comp115746_c1_seq4	L97	0
comp31010_c0_seq1	L12	50.4323494622317	comp118593_c0_seq1	L38	13.1017712629003	comp123254_c0_seq1	L65	0	comp115831_c1_seq1	L97	0
comp100082_c0_seq1	L12	52.045812490671	comp123776_c0_seq1	L38	13.1017712629003	comp79958_c0_seq1	L65	0	comp116801_c0_seq1	L97	0
comp102341_c0_seq1	L12	52.045812490671	comp126039_c0_seq1	L38	13.1017712629003	comp109062_c0_seq1	L65	1.61346302843928	comp122880_c0_seq2	L97	0
comp103336_c0_seq1	L12	52.045812490671	comp127047_c2_seq1	L38	13.1017712629003	comp117456_c0_seq1	L65	1.61346302843928	comp124470_c0_seq1	L97	0
comp104403_c0_seq1	L12	52.045812490671	comp128973_c0_seq1	L38	13.1017712629003	comp119827_c0_seq1	L65	1.61346302843928	comp125017_c1_seq1	L97	0
comp105215_c1_seq1	L12	52.045812490671	comp130002_c0_seq1	L38	13.1017712629003	comp124054_c0_seq1	L65	1.61346302843928	comp126166_c1_seq1	L97	0
comp108348_c0_seq1	L12	52.045812490671	comp133491_c0_seq1	L38	13.1017712629003	comp130974_c0_seq1	L65	1.61346302843928	comp128976_c0_seq1	L97	0
comp109120_c0_seq1	L12	52.045812490671	comp71836_c0_seq1	L38	13.1017712629003	comp131231_c0_seq1	L65	1.61346302843928	comp129710_c0_seq2	L97	0
comp109997_c0_seq2	L12	52.045812490671	comp85840_c1_seq1	L38	13.1017712629003	comp56362_c0_seq1	L65	1.61346302843928	comp131345_c0_seq1	L97	0
comp110360_c0_seq1	L12	52.045812490671	comp95199_c1_seq1	L38	13.1017712629003	comp123790_c0_seq1	L65	3.22692605687856	comp132114_c1_seq1	L97	0
comp113216_c1_seq1	L12	52.045812490671	comp96951_c0_seq1	L38	13.1017712629003	comp131746_c0_seq1	L65	3.22692605687856	comp58624_c0_seq1	L97	0
comp114154_c0_seq1	L12	52.045812490671	comp103217_c0_seq1	L38	14.7152342913396	comp103290_c0_seq1	L65	4.84038908531784	comp62337_c0_seq1	L97	0
comp115413_c0_seq1	L12	52.045812490671	comp111311_c0_seq1	L38	14.7152342913396	comp103414_c0_seq1	L65	4.84038908531784	comp80509_c0_seq1	L97	0
comp121112_c0_seq1	L12	52.045812490671	comp130829_c0_seq1	L38	14.7152342913396	comp104026_c0_seq1	L65	4.84038908531784	comp87531_c0_seq1	L97	0
comp125428_c0_seq1	L12	52.045812490671	comp132467_c0_seq1	L38	14.7152342913396	comp105864_c0_seq2	L65	4.84038908531784	comp89933_c0_seq1	L97	0
comp129783_c0_seq1	L12	52.045812490671	comp109946_c0_seq1	L38	16.3286973197788	comp105895_c0_seq1	L65	4.84038908531784	comp93301_c0_seq1	L97	0
comp41187_c0_seq1	L12	52.045812490671	comp125585_c0_seq1	L38	16.3286973197788	comp106739_c0_seq1	L65	4.84038908531784	comp105676_c1_seq1	L97	1.61346302843928
comp48545_c0_seq1	L12	52.045812490671	comp127125_c0_seq1	L38	16.3286973197788	comp106739_c1_seq1	L65	4.84038908531784	comp116174_c0_seq1	L97	1.61346302843928
comp54908_c0_seq1	L12	52.045812490671	comp131202_c1_seq1	L38	16.3286973197788	comp107161_c0_seq1	L65	4.84038908531784	comp120597_c0_seq2	L97	1.61346302843928
comp57423_c0_seq1	L12	52.045812490671	comp132481_c0_seq1	L38	16.3286973197788	comp110015_c1_seq1	L65	4.84038908531784	comp125718_c0_seq1	L97	1.61346302843928
comp60740_c0_seq1	L12	52.045812490671	comp56860_c0_seq1	L38	16.3286973197788	comp110277_c0_seq2	L65	4.84038908531784	comp127248_c0_seq1	L97	1.61346302843928
comp63655_c0_seq1	L12	52.045812490671	comp100250_c0_seq1	L38	21.1825976808028	comp111054_c0_seq1	L65	4.84038908531784	comp101233_c0_seq1	L97	4.84375631543943
comp64956_c0_seq1	L12	52.045812490671	comp105124_c0_seq1	L38	21.1825976808028	comp112075_c0_seq1	L65	4.84038908531784	comp103036_c0_seq1	L97	4.84375631543943



comp66500_c0_seq1	L12	52.045812490671	comp105584_c0_seq1	L38	21.1825976808028	comp114200_c0_seq1	L65	4.84038908531784	comp103525_c0_seq1	L97	4.84375631543943
comp67226_c0_seq1	L12	52.045812490671	comp106225_c0_seq1	L38	21.1825976808028	comp116033_c0_seq1	L65	4.84038908531784	comp103798_c0_seq1	L97	4.84375631543943
comp69304_c0_seq1	L12	52.045812490671	comp106249_c0_seq1	L38	21.1825976808028	comp116117_c0_seq1	L65	4.84038908531784	comp108010_c0_seq1	L97	4.84375631543943
comp75734_c0_seq2	L12	52.045812490671	comp106366_c0_seq1	L38	21.1825976808028	comp116790_c0_seq2	L65	4.84038908531784	comp108713_c0_seq2	L97	4.84375631543943
comp76234_c0_seq1	L12	52.045812490671	comp109051_c0_seq1	L38	21.1825976808028	comp117349_c0_seq1	L65	4.84038908531784	comp109649_c1_seq1	L97	4.84375631543943
comp82106_c0_seq1	L12	52.045812490671	comp112450_c0_seq1	L38	21.1825976808028	comp118171_c0_seq1	L65	4.84038908531784	comp110078_c1_seq1	L97	4.84375631543943
comp85249_c0_seq1	L12	52.045812490671	comp114439_c0_seq1	L38	21.1825976808028	comp120628_c1_seq1	L65	4.84038908531784	comp110209_c0_seq1	L97	4.84375631543943
comp91384_c0_seq1	L12	52.045812490671	comp114464_c0_seq1	L38	21.1825976808028	comp126964_c0_seq1	L65	4.84038908531784	comp110599_c0_seq1	L97	4.84375631543943
comp93414_c0_seq1	L12	52.045812490671	comp116398_c0_seq1	L38	21.1825976808028	comp127603_c0_seq1	L65	4.84038908531784	comp110939_c0_seq1	L97	4.84375631543943
comp95259_c0_seq1	L12	52.045812490671	comp116896_c0_seq1	L38	21.1825976808028	comp129770_c0_seq1	L65	4.84038908531784	comp111264_c0_seq1	L97	4.84375631543943
comp96682_c0_seq1	L12	52.045812490671	comp117411_c0_seq1	L38	21.1825976808028	comp131733_c1_seq1	L65	4.84038908531784	comp115381_c1_seq1	L97	4.84375631543943
comp96871_c0_seq1	L12	52.045812490671	comp117777_c0_seq4	L38	21.1825976808028	comp132234_c0_seq1	L65	4.84038908531784	comp115615_c0_seq1	L97	4.84375631543943
comp97805_c0_seq1	L12	52.045812490671	comp119590_c0_seq1	L38	21.1825976808028	comp132338_c1_seq1	L65	4.84038908531784	comp115762_c0_seq1	L97	4.84375631543943
comp98714_c0_seq1	L13	0	comp119874_c0_seq1	L38	21.1825976808028	comp54040_c0_seq1	L65	4.84038908531784	comp115872_c0_seq1	L97	4.84375631543943
comp109142_c0_seq1	L13	3.23029328700015	comp119947_c0_seq1	L38	21.1825976808028	comp69612_c0_seq1	L65	4.84038908531784	comp120461_c0_seq1	L97	4.84375631543943
comp100671_c0_seq1	L13	4.84375631543943	comp120780_c0_seq2	L38	21.1825976808028	comp73247_c0_seq1	L65	4.84038908531784	comp121609_c0_seq1	L97	4.84375631543943
comp123319_c1_seq1	L13	4.84375631543943	comp122660_c0_seq1	L38	21.1825976808028	comp79787_c0_seq1	L65	4.84038908531784	comp124369_c0_seq1	L97	4.84375631543943
comp73994_c0_seq1	L13	4.84375631543943	comp122771_c0_seq1	L38	21.1825976808028	comp84211_c0_seq1	L65	4.84038908531784	comp126023_c1_seq2	L97	4.84375631543943
comp87733_c0_seq1	L13	4.84375631543943	comp123168_c0_seq1	L38	21.1825976808028	comp84649_c0_seq1	L65	4.84038908531784	comp127303_c0_seq2	L97	4.84375631543943
comp89862_c0_seq1	L13	4.84375631543943	comp123413_c0_seq2	L38	21.1825976808028	comp88542_c0_seq1	L65	4.84038908531784	comp128133_c0_seq1	L97	4.84375631543943
comp120885_c0_seq1	L13	6.45721934387871	comp123562_c0_seq1	L38	21.1825976808028	comp96654_c0_seq1	L65	4.84038908531784	comp130226_c0_seq1	L97	4.84375631543943
comp72910_c0_seq1	L13	6.45721934387871	comp124177_c0_seq1	L38	21.1825976808028	comp99079_c0_seq1	L65	4.84038908531784	comp130567_c0_seq1	L97	4.84375631543943
comp115579_c1_seq1	L13	11.3111197049026	comp124393_c0_seq1	L38	21.1825976808028	comp101146_c1_seq2	L65	12.9759490961835	comp133972_c0_seq1	L97	4.84375631543943
comp124394_c0_seq1	L13	11.3111197049026	comp125053_c0_seq1	L38	21.1825976808028	comp102682_c0_seq1	L65	12.9759490961835	comp134054_c0_seq1	L97	4.84375631543943
comp100084_c0_seq3	L13	16.1650200659266	comp125499_c0_seq1	L38	21.1825976808028	comp110397_c0_seq1	L65	12.9759490961835	comp28653_c0_seq1	L97	4.84375631543943
comp104443_c0_seq1	L13	16.1650200659266	comp126582_c0_seq1	L38	21.1825976808028	comp124688_c0_seq1	L65	12.9759490961835	comp61305_c0_seq1	L97	4.84375631543943
comp107093_c0_seq1	L13	16.1650200659266	comp126779_c0_seq1	L38	21.1825976808028	comp126836_c2_seq2	L65	12.9759490961835	comp74481_c0_seq1	L97	4.84375631543943
comp109203_c0_seq2	L13	16.1650200659266	comp127164_c0_seq1	L38	21.1825976808028	comp129188_c0_seq1	L65	12.9759490961835	comp79027_c0_seq1	L97	4.84375631543943
comp119426_c0_seq1	L13	16.1650200659266	comp129069_c0_seq1	L38	21.1825976808028	comp129329_c0_seq1	L65	12.9759490961835	comp85657_c0_seq1	L97	4.84375631543943

comp119437_c0_seq1	L13	16.1650200659266	comp129573_c0_seq1	L38	21.1825976808028	comp131019_c0_seq1	L65	12.9759490961835	comp89719_c0_seq1	L97	4.84375631543943
comp119732_c1_seq1	L13	16.1650200659266	comp131022_c0_seq1	L38	21.1825976808028	comp133520_c0_seq1	L65	12.9759490961835	comp94112_c0_seq1	L97	4.84375631543943
comp127154_c1_seq1	L13	16.1650200659266	comp131080_c0_seq1	L38	21.1825976808028	comp133669_c0_seq1	L65	12.9759490961835	comp94302_c0_seq1	L97	4.84375631543943
comp97165_c0_seq2	L13	16.1650200659266	comp131507_c1_seq1	L38	21.1825976808028	comp133669_c1_seq1	L65	12.9759490961835	comp95749_c0_seq1	L97	4.84375631543943
comp54156_c0_seq1	L13	21.0189204269505	comp132774_c0_seq1	L38	21.1825976808028	comp100762_c0_seq1	L65	17.8298494572075	comp97140_c0_seq1	L97	4.84375631543943
comp69296_c0_seq1	L13	21.0189204269505	comp133224_c0_seq1	L38	21.1825976808028	comp102404_c0_seq1	L65	17.8298494572075	comp98626_c0_seq1	L97	4.84375631543943
comp82265_c1_seq1	L13	21.0189204269505	comp134025_c0_seq1	L38	21.1825976808028	comp102638_c0_seq1	L65	17.8298494572075	comp103901_c0_seq1	L97	6.45721934387871
comp85794_c1_seq1	L13	21.0189204269505	comp74473_c0_seq1	L38	21.1825976808028	comp104748_c0_seq1	L65	17.8298494572075	comp104262_c0_seq1	L97	6.45721934387871
comp100103_c0_seq1	L13	22.6323834553898	comp77520_c0_seq1	L38	21.1825976808028	comp107433_c2_seq1	L65	17.8298494572075	comp108083_c0_seq1	L97	6.45721934387871
comp100226_c0_seq1	L13	22.6323834553898	comp90199_c0_seq1	L38	21.1825976808028	comp110090_c1_seq5	L65	17.8298494572075	comp112023_c0_seq1	L97	6.45721934387871
comp102122_c0_seq1	L13	22.6323834553898	comp90199_c1_seq2	L38	21.1825976808028	comp113456_c0_seq1	L65	17.8298494572075	comp115189_c0_seq2	L97	6.45721934387871
comp102889_c0_seq1	L13	22.6323834553898	comp94552_c0_seq1	L38	21.1825976808028	comp114701_c0_seq1	L65	17.8298494572075	comp117949_c0_seq1	L97	6.45721934387871
comp103032_c0_seq1	L13	22.6323834553898	comp96748_c0_seq1	L38	21.1825976808028	comp118161_c0_seq1	L65	17.8298494572075	comp128409_c1_seq2	L97	6.45721934387871
comp103116_c0_seq1	L13	22.6323834553898	comp96748_c1_seq1	L38	21.1825976808028	comp119593_c0_seq1	L65	17.8298494572075	comp129953_c1_seq4	L97	6.45721934387871
comp104216_c0_seq1	L13	22.6323834553898	comp125525_c1_seq1	L38	22.7960607092421	comp121276_c0_seq1	L65	17.8298494572075	comp135241_c0_seq1	L97	6.45721934387871
comp104344_c0_seq1	L13	22.6323834553898	comp100688_c1_seq1	L38	24.4095237376813	comp123416_c1_seq1	L65	17.8298494572075	comp31967_c0_seq1	L97	6.45721934387871
comp104649_c0_seq1	L13	22.6323834553898	comp102499_c0_seq1	L38	24.4095237376813	comp125889_c0_seq1	L65	17.8298494572075	comp45113_c0_seq1	L97	6.45721934387871
comp106218_c0_seq1	L13	22.6323834553898	comp102895_c0_seq1	L38	24.4095237376813	comp96948_c0_seq2	L65	17.8298494572075	comp46809_c0_seq1	L97	6.45721934387871
comp108081_c0_seq1	L13	22.6323834553898	comp106519_c0_seq1	L38	24.4095237376813	comp120615_c0_seq1	L65	19.4433124856468	comp50988_c0_seq1	L97	6.45721934387871
comp109517_c0_seq1	L13	22.6323834553898	comp108554_c0_seq1	L38	24.4095237376813	comp129678_c0_seq1	L65	19.4433124856468	comp5345_c0_seq1	L97	6.45721934387871
comp109595_c0_seq1	L13	22.6323834553898	comp109300_c0_seq1	L38	24.4095237376813	comp116933_c1_seq2	L65	22.6736057726469	comp60854_c0_seq1	L97	6.45721934387871
comp111198_c0_seq2	L13	22.6323834553898	comp112455_c0_seq2	L38	24.4095237376813	comp117723_c1_seq1	L65	22.6736057726469	comp66265_c0_seq1	L97	6.45721934387871
comp111761_c0_seq2	L13	22.6323834553898	comp114068_c0_seq2	L38	24.4095237376813	comp101285_c0_seq1	L65	30.8091657835126	comp71061_c0_seq1	L97	6.45721934387871
comp112388_c0_seq1	L13	22.6323834553898	comp118481_c0_seq1	L38	24.4095237376813	comp115424_c0_seq1	L65	30.8091657835126	comp71362_c0_seq1	L97	6.45721934387871
comp113187_c1_seq1	L13	22.6323834553898	comp119936_c0_seq1	L38	24.4095237376813	comp119251_c0_seq2	L65	30.8091657835126	comp72790_c0_seq1	L97	6.45721934387871
comp113578_c0_seq1	L13	22.6323834553898	comp121239_c0_seq1	L38	24.4095237376813	comp119997_c0_seq1	L65	30.8091657835126	comp72946_c0_seq1	L97	6.45721934387871
comp114317_c0_seq1	L13	22.6323834553898	comp123073_c1_seq1	L38	24.4095237376813	comp127339_c2_seq1	L65	30.8091657835126	comp75323_c0_seq1	L97	6.45721934387871
comp116280_c0_seq1	L13	22.6323834553898	comp124148_c0_seq1	L38	24.4095237376813	comp127645_c0_seq2	L65	30.8091657835126	comp82392_c0_seq1	L97	6.45721934387871
comp116894_c0_seq1	L13	22.6323834553898	comp124372_c0_seq1	L38	24.4095237376813	comp128347_c0_seq1	L65	30.8091657835126	comp92243_c0_seq1	L97	6.45721934387871

comp116935_c0_seq1	L13	22.6323834553898	comp125360_c0_seq1	L38	24.4095237376813	comp75232_c1_seq1	L65	30.8091657835126	comp94009_c0_seq1	L97	6.45721934387871
comp118899_c0_seq1	L13	22.6323834553898	comp128328_c0_seq1	L38	24.4095237376813	comp95511_c0_seq1	L65	30.8091657835126	comp95014_c0_seq1	L97	6.45721934387871
comp119119_c0_seq1	L13	22.6323834553898	comp131870_c0_seq1	L38	24.4095237376813	comp72456_c0_seq3	L65	35.6630661445365	comp96126_c0_seq1	L97	6.45721934387871
comp119243_c0_seq1	L13	22.6323834553898	comp40352_c0_seq1	L38	24.4095237376813	comp108376_c0_seq1	L65	42.1508460316636	comp98885_c0_seq1	L97	6.45721934387871
comp122196_c1_seq1	L13	22.6323834553898	comp57217_c0_seq1	L38	24.4095237376813	comp118634_c0_seq1	L65	42.1508460316636	comp127561_c1_seq1	L98	0
comp122835_c0_seq1	L13	22.6323834553898	comp87481_c0_seq2	L38	24.4095237376813	comp125805_c0_seq1	L65	42.1508460316636	comp95445_c0_seq1	L98	0
comp123120_c0_seq1	L13	22.6323834553898	comp88873_c0_seq1	L38	24.4095237376813	comp69005_c0_seq1	L65	42.1508460316636	comp113497_c0_seq2	L98	3.23029328700015
comp123181_c0_seq1	L13	22.6323834553898	comp93748_c0_seq1	L38	24.4095237376813	comp132722_c1_seq1	L65	43.7643090601029	comp75937_c0_seq1	L98	3.23029328700015
comp124616_c0_seq1	L13	22.6323834553898	comp99834_c0_seq1	L38	24.4095237376813	comp116596_c0_seq1	L65	48.6182094211269	comp92206_c0_seq1	L98	3.23029328700015
comp125238_c0_seq1	L13	22.6323834553898	comp100476_c0_seq1	L38	26.0229867661206	comp99749_c0_seq1	L65	48.6182094211269	comp129401_c0_seq1	L98	13.0313454814007
comp126323_c0_seq1	L13	22.6323834553898	comp100738_c1_seq1	L38	26.0229867661206	comp109835_c0_seq1	L65	51.848502708127	comp112781_c0_seq1	L98	14.64480850984
comp130205_c0_seq1	L13	22.6323834553898	comp106095_c0_seq1	L38	26.0229867661206	comp117094_c0_seq1	L65	51.848502708127	comp121608_c0_seq1	L98	14.64480850984
comp131253_c0_seq1	L13	22.6323834553898	comp111310_c2_seq1	L38	26.0229867661206	comp123968_c0_seq1	L65	51.848502708127	comp124526_c0_seq1	L98	14.64480850984
comp133728_c0_seq5	L13	22.6323834553898	comp115666_c0_seq2	L38	26.0229867661206	comp124326_c0_seq1	L65	51.848502708127	comp125149_c0_seq1	L98	14.64480850984
comp29670_c0_seq1	L13	22.6323834553898	comp117818_c0_seq2	L38	26.0229867661206	comp126008_c0_seq1	L65	51.848502708127	comp128449_c0_seq1	L98	14.64480850984
comp32078_c0_seq1	L13	22.6323834553898	comp118192_c0_seq1	L38	26.0229867661206	comp130429_c2_seq1	L65	51.848502708127	comp129577_c0_seq1	L98	14.64480850984
comp41200_c0_seq1	L13	22.6323834553898	comp127390_c1_seq1	L38	26.0229867661206	comp113189_c0_seq1	L65	55.0787959951272	comp132213_c0_seq1	L98	14.64480850984
comp42237_c0_seq1	L13	22.6323834553898	comp134271_c0_seq1	L38	26.0229867661206	comp116800_c0_seq1	L65	55.0787959951272	comp133856_c1_seq1	L98	14.64480850984
comp43901_c0_seq1	L13	22.6323834553898	comp25093_c0_seq1	L38	26.0229867661206	comp121686_c0_seq2	L65	55.0787959951272	comp108737_c0_seq1	L98	26.133116744301
comp45549_c0_seq1	L13	22.6323834553898	comp31172_c0_seq1	L38	26.0229867661206	comp124097_c0_seq1	L65	55.0787959951272	comp107284_c0_seq1	L98	27.7465797727403
comp46757_c0_seq1	L13	22.6323834553898	comp53932_c0_seq1	L38	26.0229867661206	comp126481_c1_seq1	L65	55.0787959951272	comp112163_c1_seq1	L98	27.7465797727403
comp52466_c0_seq1	L13	22.6323834553898	comp61165_c0_seq1	L38	26.0229867661206	comp81582_c0_seq1	L65	55.0787959951272	comp119398_c0_seq2	L98	27.7465797727403
comp58118_c0_seq1	L13	22.6323834553898	comp68427_c0_seq1	L38	26.0229867661206	comp117887_c0_seq1	L65	56.6922590235664	comp123056_c0_seq1	L98	27.7465797727403
comp58413_c0_seq1	L13	22.6323834553898	comp70210_c0_seq1	L38	26.0229867661206	comp126136_c0_seq1	L65	56.6922590235664	comp130798_c0_seq3	L98	27.7465797727403
comp67064_c0_seq1	L13	22.6323834553898	comp70635_c0_seq1	L38	26.0229867661206	comp129744_c0_seq1	L65	56.6922590235664	comp131350_c1_seq2	L98	27.7465797727403
comp68428_c0_seq1	L13	22.6323834553898	comp71420_c0_seq1	L38	26.0229867661206	comp130978_c0_seq1	L65	56.6922590235664	comp94857_c0_seq1	L98	27.7465797727403
comp68870_c0_seq1	L13	22.6323834553898	comp7308_c0_seq1	L38	26.0229867661206	comp133878_c0_seq1	L65	56.6922590235664	comp99568_c0_seq1	L98	27.7465797727403
comp72800_c0_seq1	L13	22.6323834553898	comp76518_c0_seq1	L38	26.0229867661206	comp60977_c0_seq1	L65	56.6922590235664	comp110508_c1_seq1	L98	30.9768730597405
comp7864_c0_seq1	L13	22.6323834553898	comp78259_c0_seq1	L38	26.0229867661206	comp121016_c0_seq1	L65	58.3057220520057	comp122594_c0_seq1	L98	30.9768730597405

comp78646_c0_seq1	L13	22.6323834553898	comp79231_c0_seq1	L38	26.0229867661206	comp121067_c1_seq1	L65	58.3057220520057	comp125694_c0_seq1	L98	30.9768730597405
comp81770_c0_seq1	L13	22.6323834553898	comp80763_c0_seq1	L38	26.0229867661206	comp129520_c0_seq1	L65	58.3057220520057	comp130075_c0_seq1	L98	30.9768730597405
comp81912_c1_seq1	L13	22.6323834553898	comp84711_c0_seq1	L38	26.0229867661206	comp74730_c0_seq1	L65	58.3057220520057	comp131810_c0_seq4	L98	30.9768730597405
comp83537_c0_seq1	L13	22.6323834553898	comp86064_c0_seq1	L38	26.0229867661206	comp95251_c0_seq1	L65	58.3057220520057	comp106795_c0_seq1	L98	35.8307734207644
comp83954_c0_seq1	L13	22.6323834553898	comp87643_c0_seq1	L38	26.0229867661206	comp95882_c0_seq1	L65	63.1596224130296	comp127480_c0_seq1	L98	35.8307734207644
comp84900_c0_seq1	L13	22.6323834553898	comp91133_c0_seq1	L38	26.0229867661206	comp119853_c0_seq1	L65	71.2951824238953	comp103714_c0_seq1	L98	43.9663334316301
comp85332_c0_seq1	L13	22.6323834553898	comp91536_c0_seq1	L38	26.0229867661206	comp114480_c0_seq1	L65	72.9086454523346	comp116205_c0_seq1	L98	43.9663334316301
comp85561_c0_seq1	L13	22.6323834553898	comp96181_c0_seq1	L38	26.0229867661206	comp91062_c0_seq1	L65	72.9086454523346	comp130411_c0_seq1	L98	43.9663334316301
comp85904_c0_seq1	L13	22.6323834553898	comp97302_c0_seq1	L38	26.0229867661206	comp91902_c0_seq1	L65	72.9086454523346	comp103043_c0_seq1	L98	48.820233792654
comp88146_c0_seq1	L13	22.6323834553898	comp106356_c0_seq1	L39	0	comp114040_c1_seq1	L65	79.3964253394617	comp103615_c1_seq1	L98	48.820233792654
comp88818_c0_seq1	L13	22.6323834553898	comp108495_c0_seq1	L39	0	comp125343_c0_seq1	L65	79.3964253394617	comp108115_c0_seq1	L98	48.820233792654
comp90976_c0_seq2	L13	22.6323834553898	comp110654_c0_seq1	L39	0	comp99020_c0_seq1	L65	79.3964253394617	comp108705_c0_seq1	L98	48.820233792654
comp92306_c0_seq1	L13	22.6323834553898	comp111132_c0_seq1	L39	0	comp104660_c0_seq1	L65	81.009888367901	comp108751_c0_seq1	L98	48.820233792654
comp92352_c0_seq1	L13	22.6323834553898	comp111585_c0_seq1	L39	0	comp105198_c0_seq1	L65	81.009888367901	comp109353_c0_seq1	L98	48.820233792654
comp92699_c0_seq1	L13	22.6323834553898	comp112051_c0_seq1	L39	0	comp130542_c1_seq1	L65	81.009888367901	comp110476_c0_seq1	L98	48.820233792654
comp93741_c0_seq1	L13	22.6323834553898	comp118070_c0_seq1	L39	0	comp66027_c0_seq1	L65	81.009888367901	comp114402_c0_seq1	L98	48.820233792654
comp94217_c0_seq1	L13	22.6323834553898	comp120881_c0_seq1	L39	0	comp75511_c0_seq1	L65	81.009888367901	comp114791_c0_seq1	L98	48.820233792654
comp94330_c0_seq1	L13	22.6323834553898	comp130303_c1_seq1	L39	0	comp78925_c0_seq1	L65	81.009888367901	comp120020_c1_seq7	L98	48.820233792654
comp94453_c0_seq1	L13	22.6323834553898	comp131344_c0_seq1	L39	0	comp92182_c0_seq1	L65	81.009888367901	comp120965_c0_seq1	L98	48.820233792654
comp94646_c0_seq1	L13	22.6323834553898	comp53254_c0_seq1	L39	0	comp93852_c0_seq1	L65	81.009888367901	comp122220_c0_seq1	L98	48.820233792654
comp94963_c0_seq1	L13	22.6323834553898	comp72846_c0_seq1	L39	0	comp100537_c0_seq1	L65	82.6233513963403	comp123434_c0_seq1	L98	48.820233792654
comp96671_c0_seq2	L13	22.6323834553898	comp98620_c0_seq1	L39	0	comp100823_c0_seq1	L65	82.6233513963403	comp123758_c0_seq1	L98	48.820233792654
comp96892_c0_seq1	L13	22.6323834553898	comp98765_c0_seq1	L39	0	comp101112_c0_seq1	L65	82.6233513963403	comp128278_c0_seq1	L98	48.820233792654
comp97117_c0_seq1	L13	22.6323834553898	comp106826_c0_seq1	L39	1.61346302843928	comp103319_c0_seq1	L65	82.6233513963403	comp130910_c0_seq1	L98	48.820233792654
comp100804_c0_seq1	L14	0	comp108823_c0_seq1	L39	1.61346302843928	comp104452_c1_seq1	L65	82.6233513963403	comp132280_c0_seq2	L98	48.820233792654
comp112251_c0_seq2	L14	0	comp109116_c0_seq1	L39	1.61346302843928	comp105202_c0_seq1	L65	82.6233513963403	comp49329_c0_seq1	L98	48.820233792654
comp114252_c0_seq1	L14	0	comp130610_c0_seq1	L39	1.61346302843928	comp106430_c0_seq2	L65	82.6233513963403	comp57394_c0_seq1	L98	48.820233792654
comp114448_c0_seq1	L14	0	comp73620_c0_seq1	L39	1.61346302843928	comp107973_c0_seq1	L65	82.6233513963403	comp80257_c0_seq1	L98	48.820233792654
comp116573_c0_seq1	L14	0	comp100253_c0_seq1	L39	3.22692605687856	comp108431_c0_seq1	L65	82.6233513963403	comp87739_c0_seq1	L98	48.820233792654

comp128829_c0_seq1	L14	0	comp101478_c0_seq1	L39	3.22692605687856	comp109515_c1_seq1	L65	82.6233513963403	comp90011_c0_seq1	L98	48.820233792654
comp129130_c0_seq3	L14	0	comp104066_c0_seq1	L39	3.22692605687856	comp112320_c1_seq1	L65	82.6233513963403	comp92133_c0_seq1	L98	48.820233792654
comp90393_c0_seq1	L14	0	comp104494_c0_seq3	L39	3.22692605687856	comp118186_c0_seq1	L65	82.6233513963403	comp92347_c0_seq1	L98	48.820233792654
comp93726_c0_seq2	L14	0	comp105478_c0_seq1	L39	3.22692605687856	comp118814_c0_seq4	L65	82.6233513963403	comp96312_c0_seq1	L98	48.820233792654
comp96816_c0_seq1	L14	0	comp105716_c0_seq1	L39	3.22692605687856	comp123498_c0_seq1	L65	82.6233513963403	comp116469_c0_seq2	L98	50.4336968210933
comp107760_c0_seq1	L14	1.61346302843928	comp107994_c0_seq1	L39	3.22692605687856	comp63369_c0_seq1	L65	82.6233513963403	comp118064_c0_seq1	L98	50.4336968210933
comp111962_c0_seq4	L14	1.61346302843928	comp111200_c1_seq1	L39	3.22692605687856	comp64189_c0_seq1	L65	82.6233513963403	comp119588_c0_seq1	L98	50.4336968210933
comp119743_c1_seq3	L14	1.61346302843928	comp111233_c0_seq1	L39	3.22692605687856	comp71689_c0_seq1	L65	82.6233513963403	comp121479_c0_seq1	L98	50.4336968210933
comp120909_c0_seq1	L14	1.61346302843928	comp111555_c0_seq1	L39	3.22692605687856	comp72504_c0_seq1	L65	82.6233513963403	comp124581_c0_seq5	L98	50.4336968210933
comp125207_c1_seq1	L14	1.61346302843928	comp112262_c0_seq1	L39	3.22692605687856	comp79810_c0_seq1	L65	82.6233513963403	comp132477_c1_seq1	L98	50.4336968210933
comp127705_c0_seq1	L14	1.61346302843928	comp112859_c0_seq1	L39	3.22692605687856	comp89198_c0_seq1	L65	82.6233513963403	comp115566_c0_seq1	L98	52.0471598495326
comp129252_c0_seq1	L14	1.61346302843928	comp113033_c0_seq1	L39	3.22692605687856	comp89555_c0_seq1	L65	82.6233513963403	comp119664_c0_seq1	L98	52.0471598495326
comp133492_c0_seq1	L14	8.10124291556639	comp113819_c0_seq4	L39	3.22692605687856	comp93319_c0_seq1	L65	82.6233513963403	comp133330_c0_seq1	L98	52.0471598495326
comp116689_c0_seq2	L14	9.71470594400567	comp113932_c0_seq2	L39	3.22692605687856	comp94768_c0_seq1	L65	82.6233513963403	comp57178_c0_seq1	L98	52.0471598495326
comp118525_c1_seq1	L14	9.71470594400567	comp115508_c0_seq1	L39	3.22692605687856	comp95919_c0_seq1	L65	82.6233513963403	comp93118_c0_seq1	L98	52.0471598495326
comp129232_c0_seq1	L14	9.71470594400567	comp116558_c0_seq1	L39	3.22692605687856	comp96710_c0_seq2	L65	82.6233513963403	comp117380_c0_seq1	L98	53.6606228779719
comp91042_c0_seq1	L14	9.71470594400567	comp117314_c0_seq1	L39	3.22692605687856	comp96774_c0_seq1	L65	82.6233513963403	comp103700_c2_seq1	L98	56.890916164972
comp96761_c0_seq1	L14	9.71470594400567	comp117816_c0_seq1	L39	3.22692605687856	comp96900_c0_seq1	L65	82.6233513963403	comp103700_c4_seq1	L98	56.890916164972
comp113466_c1_seq2	L14	12.9449992310058	comp118288_c0_seq2	L39	3.22692605687856	comp97037_c0_seq1	L65	82.6233513963403	comp113774_c0_seq1	L98	56.890916164972
comp118135_c0_seq2	L14	12.9449992310058	comp119868_c0_seq1	L39	3.22692605687856	comp125377_c0_seq1	L66	0	comp117241_c0_seq1	L98	56.890916164972
comp122119_c0_seq1	L14	12.9449992310058	comp120148_c0_seq1	L39	3.22692605687856	comp17202_c0_seq1	L66	0	comp128324_c0_seq1	L98	56.890916164972
comp126386_c0_seq1	L14	12.9449992310058	comp120546_c0_seq1	L39	3.22692605687856	comp112681_c0_seq1	L66	6.48777988712711	comp133906_c0_seq1	L98	56.890916164972
comp128461_c0_seq1	L14	12.9449992310058	comp121368_c0_seq2	L39	3.22692605687856	comp113370_c0_seq1	L66	6.48777988712711	comp91573_c0_seq1	L98	56.890916164972
comp129510_c0_seq1	L14	12.9449992310058	comp124661_c0_seq5	L39	3.22692605687856	comp117108_c0_seq3	L66	6.48777988712711	comp103758_c0_seq1	L98	61.7448165259959
comp58810_c0_seq1	L14	12.9449992310058	comp124936_c0_seq2	L39	3.22692605687856	comp123158_c0_seq2	L66	6.48777988712711	comp105828_c0_seq1	L98	61.7448165259959
comp73506_c0_seq1	L14	12.9449992310058	comp125226_c0_seq3	L39	3.22692605687856	comp123597_c0_seq1	L66	6.48777988712711	comp108476_c0_seq1	L98	61.7448165259959
comp100088_c0_seq1	L14	14.5584622594451	comp126191_c1_seq3	L39	3.22692605687856	comp129316_c0_seq1	L66	6.48777988712711	comp111081_c0_seq1	L98	61.7448165259959
comp108748_c0_seq1	L14	14.5584622594451	comp126199_c0_seq1	L39	3.22692605687856	comp133460_c1_seq1	L66	6.48777988712711	comp112162_c0_seq1	L98	61.7448165259959
comp113507_c0_seq1	L14	14.5584622594451	comp126523_c0_seq6	L39	3.22692605687856	comp104610_c0_seq1	L66	16.2888320815277	comp120447_c0_seq1	L98	61.7448165259959

comp113971_c0_seq1	L14	14.5584622594451	comp126523_c1_seq1	L39	3.22692605687856	comp104908_c0_seq1	L66	17.902295109967	comp127141_c0_seq1	L98	61.7448165259959
comp117115_c0_seq1	L14	14.5584622594451	comp130373_c0_seq1	L39	3.22692605687856	comp111839_c0_seq1	L66	17.902295109967	comp42377_c0_seq1	L98	61.7448165259959
comp121226_c0_seq1	L14	14.5584622594451	comp131089_c0_seq1	L39	3.22692605687856	comp123817_c0_seq1	L66	17.902295109967	comp49053_c0_seq1	L98	61.7448165259959
comp125670_c0_seq1	L14	14.5584622594451	comp131089_c1_seq1	L39	3.22692605687856	comp119146_c1_seq1	L66	21.1325883969671	comp62298_c0_seq1	L98	61.7448165259959
comp129915_c0_seq1	L14	14.5584622594451	comp131379_c0_seq1	L39	3.22692605687856	comp121977_c0_seq1	L66	21.1325883969671	comp73369_c0_seq1	L98	61.7448165259959
comp130562_c1_seq3	L14	14.5584622594451	comp131819_c0_seq2	L39	3.22692605687856	comp124243_c0_seq1	L66	21.1325883969671	comp87272_c0_seq1	L98	61.7448165259959
comp46575_c0_seq1	L14	14.5584622594451	comp133709_c1_seq1	L39	3.22692605687856	comp104940_c0_seq1	L66	22.7460514254064	comp88896_c0_seq1	L98	61.7448165259959
comp58241_c0_seq1	L14	14.5584622594451	comp26283_c0_seq1	L39	3.22692605687856	comp121407_c0_seq1	L66	22.7460514254064	comp90521_c1_seq1	L98	61.7448165259959
comp66491_c0_seq1	L14	14.5584622594451	comp50029_c0_seq1	L39	3.22692605687856	comp131021_c0_seq1	L66	22.7460514254064	comp90993_c0_seq1	L98	61.7448165259959
comp71412_c0_seq1	L14	14.5584622594451	comp52601_c0_seq1	L39	3.22692605687856	comp131530_c0_seq1	L66	22.7460514254064	comp101234_c0_seq1	L98	63.3582795544352
comp81390_c0_seq1	L14	14.5584622594451	comp62270_c0_seq1	L39	3.22692605687856	comp132426_c0_seq1	L66	22.7460514254064	comp101405_c0_seq1	L98	63.3582795544352
comp96401_c0_seq1	L14	14.5584622594451	comp65587_c0_seq1	L39	3.22692605687856	comp133056_c0_seq1	L66	22.7460514254064	comp102991_c0_seq1	L98	63.3582795544352
comp96401_c1_seq1	L14	14.5584622594451	comp70621_c0_seq1	L39	3.22692605687856	comp64571_c0_seq1	L66	22.7460514254064	comp108424_c0_seq1	L98	63.3582795544352
comp100214_c0_seq1	L14	17.7887555464453	comp74865_c0_seq1	L39	3.22692605687856	comp66920_c0_seq1	L66	22.7460514254064	comp108424_c1_seq1	L98	63.3582795544352
comp108833_c0_seq1	L14	17.7887555464453	comp81299_c0_seq1	L39	3.22692605687856	comp110436_c1_seq1	L66	24.3595144538457	comp115941_c0_seq1	L98	63.3582795544352
comp116503_c0_seq1	L14	17.7887555464453	comp83775_c0_seq1	L39	3.22692605687856	comp115865_c0_seq1	L66	24.3595144538457	comp122498_c0_seq1	L98	63.3582795544352
comp72090_c0_seq1	L14	17.7887555464453	comp83816_c0_seq1	L39	3.22692605687856	comp122371_c0_seq1	L66	24.3595144538457	comp129372_c2_seq1	L98	63.3582795544352
comp89274_c0_seq1	L14	17.7887555464453	comp84141_c0_seq1	L39	3.22692605687856	comp130883_c0_seq1	L66	24.3595144538457	comp133887_c0_seq1	L98	63.3582795544352
comp101794_c0_seq1	L14	21.0190488334454	comp84950_c0_seq1	L39	3.22692605687856	comp130930_c0_seq1	L66	24.3595144538457	comp23587_c0_seq1	L98	63.3582795544352
comp106651_c0_seq1	L14	21.0190488334454	comp89125_c0_seq1	L39	3.22692605687856	comp132568_c0_seq1	L66	24.3595144538457	comp32687_c0_seq1	L98	63.3582795544352
comp110340_c0_seq1	L14	21.0190488334454	comp89861_c0_seq1	L39	3.22692605687856	comp132692_c0_seq2	L66	24.3595144538457	comp59007_c0_seq1	L98	63.3582795544352
comp118375_c0_seq2	L14	21.0190488334454	comp92140_c0_seq1	L39	3.22692605687856	comp133396_c0_seq1	L66	24.3595144538457	comp68989_c0_seq1	L98	63.3582795544352
comp119406_c0_seq1	L14	21.0190488334454	comp92651_c0_seq1	L39	3.22692605687856	comp82512_c0_seq1	L66	24.3595144538457	comp69092_c0_seq1	L98	63.3582795544352
comp123411_c0_seq3	L14	21.0190488334454	comp95042_c0_seq1	L39	3.22692605687856	comp87976_c0_seq1	L66	24.3595144538457	comp69376_c0_seq1	L98	63.3582795544352
comp125618_c1_seq2	L14	21.0190488334454	comp96533_c1_seq1	L39	3.22692605687856	comp92432_c1_seq1	L66	25.972977482285	comp75468_c0_seq1	L98	63.3582795544352
comp125693_c1_seq1	L14	21.0190488334454	comp97092_c0_seq1	L39	3.22692605687856	comp110824_c0_seq1	L66	27.5864405107243	comp77228_c0_seq1	L98	63.3582795544352
comp127363_c0_seq1	L14	21.0190488334454	comp98833_c0_seq1	L39	3.22692605687856	comp114585_c0_seq2	L66	27.5864405107243	comp77444_c0_seq1	L98	63.3582795544352
comp132087_c2_seq4	L14	21.0190488334454	comp99002_c0_seq1	L39	3.22692605687856	comp114585_c1_seq1	L66	27.5864405107243	comp78426_c1_seq1	L98	63.3582795544352
comp24529_c0_seq1	L14	21.0190488334454	comp99206_c0_seq1	L39	3.22692605687856	comp115162_c0_seq3	L66	27.5864405107243	comp80737_c0_seq1	L98	63.3582795544352

comp41461_c0_seq1	L14	21.0190488334454	comp99872_c0_seq1	L39	3.22692605687856	comp115895_c0_seq1	L66	27.5864405107243	comp84693_c0_seq1	L98	63.3582795544352
comp41569_c0_seq1	L14	21.0190488334454	comp103455_c0_seq1	L40	0	comp119594_c0_seq1	L66	27.5864405107243	comp84801_c0_seq1	L98	63.3582795544352
comp47376_c0_seq1	L14	21.0190488334454	comp113000_c0_seq2	L40	0	comp120120_c1_seq1	L66	27.5864405107243	comp85153_c0_seq1	L98	63.3582795544352
comp55242_c0_seq1	L14	21.0190488334454	comp131602_c1_seq1	L40	0	comp127145_c0_seq1	L66	27.5864405107243	comp93510_c0_seq1	L98	63.3582795544352
comp55633_c0_seq1	L14	21.0190488334454	comp81974_c0_seq2	L40	0	comp127756_c1_seq1	L66	27.5864405107243	comp96685_c1_seq1	L98	63.3582795544352
comp63524_c0_seq1	L14	21.0190488334454	comp103553_c0_seq2	L40	1.61346302843928	comp132441_c0_seq1	L66	27.5864405107243	comp96876_c0_seq2	L98	63.3582795544352
comp65483_c0_seq1	L14	21.0190488334454	comp125427_c0_seq1	L40	1.61346302843928	comp64431_c0_seq1	L66	27.5864405107243	comp96959_c0_seq1	L98	63.3582795544352
comp73218_c0_seq1	L14	21.0190488334454	comp128810_c1_seq2	L40	1.61346302843928	comp66268_c0_seq1	L66	27.5864405107243	comp99572_c0_seq1	L98	63.3582795544352
comp77366_c0_seq1	L14	21.0190488334454	comp131916_c0_seq1	L40	1.61346302843928	comp108922_c3_seq1	L66	29.1999035391635	comp101581_c0_seq1	L99	0
comp78051_c0_seq1	L14	21.0190488334454	comp103934_c0_seq1	L40	11.4145152228399	comp110729_c0_seq1	L66	29.1999035391635	comp105688_c0_seq1	L99	0
comp79385_c0_seq1	L14	21.0190488334454	comp105276_c0_seq1	L40	11.4145152228399	comp118544_c0_seq1	L66	29.1999035391635	comp109143_c0_seq1	L99	0
comp83564_c0_seq1	L14	21.0190488334454	comp121603_c0_seq1	L40	11.4145152228399	comp119336_c0_seq1	L66	29.1999035391635	comp111476_c0_seq1	L99	0
comp84646_c0_seq1	L14	21.0190488334454	comp125939_c0_seq1	L40	11.4145152228399	comp123887_c0_seq1	L66	29.1999035391635	comp117010_c0_seq1	L99	0
comp84727_c0_seq1	L14	21.0190488334454	comp128448_c0_seq1	L40	11.4145152228399	comp124724_c0_seq1	L66	29.1999035391635	comp121018_c0_seq1	L99	0
comp84727_c1_seq2	L14	21.0190488334454	comp102316_c0_seq1	L40	16.2684155838638	comp127014_c0_seq1	L66	29.1999035391635	comp55631_c0_seq1	L99	0
comp85076_c1_seq1	L14	21.0190488334454	comp102316_c1_seq1	L40	16.2684155838638	comp128858_c1_seq1	L66	29.1999035391635	comp67287_c0_seq1	L99	0
comp93396_c0_seq1	L14	21.0190488334454	comp102511_c0_seq1	L40	16.2684155838638	comp130793_c0_seq1	L66	29.1999035391635	comp80105_c0_seq1	L99	0
comp93647_c0_seq2	L14	21.0190488334454	comp106217_c0_seq1	L40	16.2684155838638	comp131698_c0_seq1	L66	29.1999035391635	comp83048_c0_seq2	L99	0
comp94140_c0_seq1	L14	21.0190488334454	comp118726_c0_seq1	L40	16.2684155838638	comp72013_c0_seq2	L66	29.1999035391635	comp105349_c0_seq1	L99	1.61346302843928
comp97086_c2_seq1	L14	21.0190488334454	comp122979_c0_seq1	L40	16.2684155838638	comp100548_c0_seq1	L66	30.8133665676028	comp105630_c0_seq2	L99	1.61346302843928
comp101391_c0_seq1	L15	0	comp124498_c0_seq1	L40	16.2684155838638	comp105076_c0_seq1	L66	30.8133665676028	comp108792_c0_seq1	L99	1.61346302843928
comp115242_c1_seq10	L15	0	comp26173_c0_seq1	L40	16.2684155838638	comp107435_c0_seq1	L66	30.8133665676028	comp110529_c0_seq1	L99	1.61346302843928
comp132768_c1_seq1	L15	0	comp72018_c1_seq1	L40	16.2684155838638	comp109298_c0_seq1	L66	30.8133665676028	comp110635_c1_seq1	L99	1.61346302843928
comp32093_c0_seq1	L15	0	comp75459_c0_seq1	L40	16.2684155838638	comp111536_c0_seq3	L66	30.8133665676028	comp111583_c0_seq5	L99	1.61346302843928
comp45520_c0_seq1	L15	0	comp87256_c0_seq1	L40	16.2684155838638	comp113753_c0_seq1	L66	30.8133665676028	comp113874_c0_seq1	L99	1.61346302843928
comp67803_c0_seq1	L15	0	comp96837_c2_seq3	L40	16.2684155838638	comp129709_c2_seq2	L66	30.8133665676028	comp118548_c0_seq2	L99	1.61346302843928
comp71340_c0_seq1	L15	0	comp100256_c1_seq1	L40	19.498708870864	comp130279_c3_seq1	L66	30.8133665676028	comp119532_c0_seq1	L99	1.61346302843928
comp82509_c0_seq1	L15	0	comp102847_c0_seq1	L40	19.498708870864	comp133347_c0_seq1	L66	30.8133665676028	comp120621_c1_seq1	L99	1.61346302843928
comp84271_c0_seq1	L15	0	comp105167_c0_seq1	L40	19.498708870864	comp53324_c0_seq1	L66	30.8133665676028	comp121175_c0_seq1	L99	1.61346302843928

comp85528_c1_seq1	L15	0	comp106538_c0_seq1	L40	19.498708870864	comp90264_c0_seq2	L66	30.8133665676028	comp129424_c0_seq2	L99	1.61346302843928
comp95608_c0_seq1	L15	0	comp109111_c0_seq1	L40	19.498708870864	comp95104_c0_seq1	L66	30.8133665676028	comp84189_c0_seq1	L99	1.61346302843928
comp97097_c0_seq1	L15	0	comp114352_c0_seq2	L40	19.498708870864	comp100733_c0_seq1	L66	32.4268295960421	comp88792_c0_seq1	L99	1.61346302843928
comp97885_c0_seq1	L15	0	comp116188_c0_seq1	L40	19.498708870864	comp102841_c0_seq1	L66	32.4268295960421	comp92195_c0_seq1	L99	1.61346302843928
comp104887_c0_seq1	L15	1.61346302843928	comp117021_c3_seq1	L40	19.498708870864	comp104384_c0_seq1	L66	32.4268295960421	comp93810_c0_seq1	L99	1.61346302843928
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comp54931_c0_seq1	L15	1.61346302843928	comp89110_c0_seq1	L40	19.498708870864	comp113564_c0_seq1	L66	32.4268295960421	comp95825_c0_seq1	L99	4.84375631543943
comp90265_c0_seq1	L15	1.61346302843928	comp98021_c0_seq1	L40	19.498708870864	comp115244_c0_seq1	L66	32.4268295960421	comp110087_c0_seq1	L99	8.07404960243958
comp96549_c0_seq1	L15	1.61346302843928	comp100959_c0_seq2	L40	21.1121718993032	comp118507_c0_seq1	L66	32.4268295960421	comp112601_c0_seq1	L99	8.07404960243958
comp92169_c0_seq1	L15	4.84375631543943	comp103865_c0_seq1	L40	21.1121718993032	comp131920_c0_seq1	L66	32.4268295960421	comp133155_c0_seq1	L99	8.07404960243958
comp118913_c0_seq1	L15	6.45721934387871	comp104762_c1_seq2	L40	21.1121718993032	comp31779_c0_seq1	L66	32.4268295960421	comp107850_c0_seq1	L99	16.2096096133053
comp119070_c0_seq1	L15	6.45721934387871	comp107828_c0_seq1	L40	21.1121718993032	comp41267_c0_seq1	L66	32.4268295960421	comp111756_c0_seq1	L99	16.2096096133053
comp125132_c0_seq1	L15	6.45721934387871	comp107962_c0_seq1	L40	21.1121718993032	comp63712_c0_seq1	L66	32.4268295960421	comp118382_c0_seq1	L99	16.2096096133053
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comp109560_c0_seq1	L15	8.07068237231799	comp29923_c0_seq1	L40	21.1121718993032	comp97157_c0_seq1	L66	32.4268295960421	comp134014_c0_seq1	L99	25.924315557311
comp110618_c0_seq1	L15	8.07068237231799	comp58756_c0_seq1	L40	21.1121718993032	comp101489_c0_seq1	L66	34.0402926244814	comp114185_c0_seq1	L99	29.1546088443111
comp112549_c0_seq1	L15	8.07068237231799	comp94460_c0_seq1	L40	21.1121718993032	comp108853_c0_seq1	L66	34.0402926244814	comp116078_c0_seq2	L99	29.1546088443111
comp120227_c0_seq1	L15	8.07068237231799	comp95166_c2_seq1	L40	21.1121718993032	comp109382_c0_seq1	L66	34.0402926244814	comp120773_c0_seq1	L99	29.1546088443111
comp133842_c1_seq1	L15	8.07068237231799	comp112188_c0_seq1	L40	22.7256349277425	comp112915_c0_seq1	L66	34.0402926244814	comp122376_c0_seq1	L99	29.1546088443111
comp70866_c0_seq1	L15	8.07068237231799	comp117021_c2_seq2	L40	22.7256349277425	comp119192_c0_seq1	L66	34.0402926244814	comp125430_c0_seq3	L99	29.1546088443111
comp98361_c0_seq1	L15	8.07068237231799	comp56045_c0_seq1	L40	22.7256349277425	comp120578_c0_seq1	L66	34.0402926244814	comp131727_c0_seq1	L99	29.1546088443111
comp115363_c0_seq1	L15	16.2062423831837	comp96981_c0_seq2	L40	22.7256349277425	comp121161_c3_seq1	L66	34.0402926244814	comp132148_c0_seq1	L99	29.1546088443111
comp75707_c0_seq1	L15	16.2062423831837	comp107642_c0_seq2	L40	25.9559282147427	comp126683_c0_seq1	L66	34.0402926244814	comp104666_c0_seq1	L99	34.008509205335
comp103124_c0_seq1	L15	17.819705411623	comp102189_c0_seq1	L40	30.8098285757666	comp66950_c0_seq1	L66	34.0402926244814	comp122681_c0_seq1	L99	34.008509205335
comp104435_c0_seq1	L15	17.819705411623	comp109076_c0_seq2	L40	30.8098285757666	comp78277_c0_seq1	L66	34.0402926244814	comp108119_c0_seq1	L99	42.1440692162007



comp107805_c0_seq1	L15	17.819705411623	comp110169_c0_seq2	L40	30.8098285757666	comp8517_c0_seq1	L66	34.0402926244814	comp114270_c0_seq1	L99	42.1440692162007
comp110299_c0_seq1	L15	17.819705411623	comp113584_c0_seq1	L40	30.8098285757666	comp87417_c0_seq1	L66	34.0402926244814	comp118399_c1_seq1	L99	42.1440692162007
comp115992_c0_seq1	L15	17.819705411623	comp113955_c0_seq1	L40	30.8098285757666	comp88177_c0_seq2	L66	34.0402926244814	comp74967_c0_seq1	L99	42.1440692162007
comp120768_c0_seq2	L15	17.819705411623	comp116373_c0_seq1	L40	30.8098285757666	comp89737_c0_seq1	L66	34.0402926244814	comp99641_c0_seq1	L99	42.1440692162007
comp121147_c0_seq1	L15	17.819705411623	comp116754_c0_seq1	L40	30.8098285757666	comp90554_c0_seq1	L66	34.0402926244814	comp101260_c0_seq1	L99	53.6323774506617
comp121214_c0_seq1	L15	17.819705411623	comp119662_c0_seq1	L40	30.8098285757666	comp92484_c0_seq1	L66	34.0402926244814	comp102899_c0_seq1	L99	53.6323774506617
comp123252_c0_seq1	L15	17.819705411623	comp120960_c0_seq2	L40	30.8098285757666	comp92749_c0_seq1	L66	34.0402926244814	comp105118_c0_seq1	L99	53.6323774506617
comp127265_c1_seq1	L15	17.819705411623	comp125465_c0_seq1	L40	30.8098285757666	comp93176_c0_seq1	L66	34.0402926244814	comp121873_c0_seq1	L99	53.6323774506617
comp128026_c0_seq1	L15	17.819705411623	comp125786_c0_seq1	L40	30.8098285757666	comp95617_c0_seq1	L66	34.0402926244814	comp124205_c0_seq2	L99	53.6323774506617
comp133646_c0_seq1	L15	17.819705411623	comp129177_c0_seq1	L40	30.8098285757666	comp96618_c0_seq1	L66	34.0402926244814	comp124549_c0_seq2	L99	53.6323774506617
comp73202_c0_seq1	L15	17.819705411623	comp130447_c1_seq1	L40	30.8098285757666	comp96623_c0_seq1	L66	34.0402926244814	comp126652_c0_seq1	L99	53.6323774506617
comp78290_c0_seq1	L15	17.819705411623	comp131309_c0_seq1	L40	30.8098285757666	comp96945_c0_seq1	L66	34.0402926244814	comp130365_c0_seq1	L99	53.6323774506617
comp84601_c0_seq1	L15	17.819705411623	comp85155_c0_seq1	L40	30.8098285757666	comp131286_c0_seq1	L67	0	comp132274_c0_seq1	L99	53.6323774506617
comp92627_c0_seq1	L15	17.819705411623	comp92045_c0_seq1	L40	30.8098285757666	comp85995_c0_seq1	L67	0	comp132901_c0_seq1	L99	53.6323774506617
comp97052_c0_seq1	L15	17.819705411623	comp93045_c0_seq1	L40	30.8098285757666	comp88773_c0_seq1	L67	1.61346302843928	comp58502_c0_seq1	L99	53.6323774506617
comp97531_c0_seq1	L15	17.819705411623	comp93958_c0_seq1	L40	30.8098285757666	comp96982_c0_seq1	L67	1.61346302843928	comp82228_c0_seq1	L99	53.6323774506617
comp99102_c0_seq1	L15	17.819705411623	comp97008_c0_seq1	L40	30.8098285757666	comp103274_c0_seq1	L67	13.1017712629003	comp121653_c3_seq2	L99	56.8626707376619
comp99205_c0_seq1	L15	17.819705411623	comp103101_c0_seq1	L41	0	comp86163_c0_seq1	L67	13.1017712629003	comp107888_c0_seq1	L99	63.350450624789
comp109418_c0_seq1	L15	19.4331684400622	comp104385_c2_seq1	L41	0	comp90125_c0_seq2	L67	13.1017712629003	comp111516_c0_seq1	L99	63.350450624789
comp110331_c0_seq1	L15	19.4331684400622	comp105073_c1_seq2	L41	0	comp90717_c0_seq2	L67	13.1017712629003	comp113378_c0_seq1	L99	63.350450624789
comp116426_c0_seq1	L15	19.4331684400622	comp106792_c0_seq1	L41	0	comp93099_c0_seq1	L67	13.1017712629003	comp132064_c1_seq1	L99	63.350450624789
comp133751_c0_seq2	L15	19.4331684400622	comp109937_c1_seq1	L41	0	comp106586_c0_seq1	L67	17.9556716239242	comp91673_c0_seq1	L99	63.350450624789
comp133914_c0_seq1	L15	19.4331684400622	comp19150_c1_seq1	L41	0	comp121530_c1_seq2	L67	17.9556716239242	comp107993_c0_seq1	L99	64.9639136532283
comp120545_c0_seq1	L15	22.6634617270624	comp30928_c0_seq1	L41	0	comp119043_c0_seq1	L67	19.5691346523635	comp121190_c0_seq1	L99	64.9639136532283
comp121234_c0_seq1	L15	22.6634617270624	comp39835_c0_seq1	L41	0	comp131290_c1_seq1	L67	19.5691346523635	comp84206_c0_seq1	L99	64.9639136532283
comp104991_c0_seq1	L15	27.5173620880863	comp44538_c0_seq1	L41	0	comp95753_c0_seq1	L67	19.5691346523635	comp103777_c0_seq1	L99	68.1942069402284
comp106002_c0_seq1	L15	27.5173620880863	comp55572_c0_seq1	L41	0	comp104474_c0_seq2	L67	22.7994279393636	comp104959_c0_seq5	L99	68.1942069402284
comp113925_c1_seq1	L15	27.5173620880863	comp58900_c0_seq1	L41	0	comp115843_c0_seq1	L67	22.7994279393636	comp110227_c0_seq1	L99	68.1942069402284
comp116422_c0_seq1	L15	27.5173620880863	comp60042_c1_seq1	L41	0	comp73307_c0_seq1	L67	22.7994279393636	comp92604_c0_seq1	L99	68.1942069402284

comp118012_c2_seq1	L15	27.5173620880863	comp61778_c0_seq1	L41	0	comp84018_c0_seq1	L67	22.7994279393636	comp96136_c0_seq1	L99	68.1942069402284
comp127259_c0_seq1	L15	27.5173620880863	comp67713_c0_seq1	L41	0	comp84018_c1_seq1	L67	22.7994279393636	comp102612_c0_seq1	L100	0
comp129944_c0_seq1	L15	27.5173620880863	comp69234_c0_seq1	L41	0	comp97244_c0_seq1	L67	22.7994279393636	comp103752_c0_seq1	L100	0
comp131049_c1_seq1	L15	27.5173620880863	comp71284_c0_seq1	L41	0	comp111350_c0_seq1	L67	24.4128909678029	comp106873_c0_seq2	L100	0
comp61405_c0_seq1	L15	27.5173620880863	comp72889_c0_seq2	L41	0	comp112510_c0_seq1	L67	24.4128909678029	comp107482_c0_seq1	L100	0
comp71932_c1_seq2	L15	27.5173620880863	comp74046_c0_seq1	L41	0	comp43086_c0_seq1	L67	24.4128909678029	comp110505_c0_seq2	L100	0
comp79728_c0_seq1	L15	27.5173620880863	comp78153_c0_seq1	L41	0	comp55885_c1_seq1	L67	24.4128909678029	comp111478_c0_seq1	L100	0
comp82391_c0_seq5	L15	27.5173620880863	comp83821_c0_seq1	L41	0	comp65678_c0_seq1	L67	24.4128909678029	comp111559_c0_seq1	L100	0
comp89015_c0_seq2	L15	27.5173620880863	comp85983_c0_seq1	L41	0	comp75552_c0_seq1	L67	24.4128909678029	comp111572_c1_seq1	L100	0
comp92403_c0_seq1	L15	27.5173620880863	comp86153_c0_seq1	L41	0	comp76835_c0_seq1	L67	24.4128909678029	comp114380_c0_seq1	L100	0
comp93520_c0_seq1	L15	27.5173620880863	comp89724_c0_seq1	L41	0	comp97238_c0_seq1	L67	24.4128909678029	comp115877_c0_seq1	L100	0
comp99344_c0_seq1	L15	27.5173620880863	comp90402_c0_seq1	L41	0	comp102580_c0_seq1	L67	26.0263539962422	comp117465_c0_seq1	L100	0
comp99721_c2_seq1	L15	27.5173620880863	comp92009_c0_seq1	L41	0	comp106005_c0_seq1	L67	26.0263539962422	comp122066_c1_seq2	L100	0
comp116179_c0_seq1	L15	37.3184142824869	comp93377_c0_seq2	L41	0	comp106005_c2_seq1	L67	26.0263539962422	comp122502_c0_seq1	L100	0
comp119084_c0_seq2	L15	37.3184142824869	comp95279_c0_seq1	L41	0	comp108258_c0_seq1	L67	26.0263539962422	comp133668_c0_seq2	L100	0
comp128398_c0_seq8	L15	37.3184142824869	comp95358_c0_seq1	L41	0	comp115750_c0_seq1	L67	26.0263539962422	comp134179_c0_seq1	L100	0
comp129405_c0_seq1	L15	37.3184142824869	comp95908_c0_seq1	L41	0	comp117118_c0_seq1	L67	26.0263539962422	comp26729_c0_seq1	L100	0
comp40991_c0_seq1	L15	37.3184142824869	comp96036_c0_seq1	L41	0	comp127314_c0_seq1	L67	26.0263539962422	comp40678_c0_seq1	L100	0
comp117439_c0_seq1	L15	50.5201000374993	comp96187_c0_seq1	L41	0	comp32820_c0_seq1	L67	26.0263539962422	comp42269_c0_seq1	L100	0
comp119144_c0_seq1	L15	50.5201000374993	comp96760_c0_seq1	L41	0	comp54879_c0_seq1	L67	26.0263539962422	comp65059_c0_seq1	L100	0
comp122247_c0_seq3	L15	50.5201000374993	comp97119_c0_seq1	L41	0	comp67048_c0_seq1	L67	26.0263539962422	comp66644_c0_seq1	L100	0
comp122843_c0_seq1	L15	50.5201000374993	comp97704_c0_seq2	L41	0	comp67636_c0_seq1	L67	26.0263539962422	comp77790_c0_seq1	L100	0
comp123767_c0_seq1	L15	50.5201000374993	comp105629_c0_seq1	L41	1.61346302843928	comp83298_c0_seq1	L67	26.0263539962422	comp80086_c0_seq1	L100	0
comp123767_c1_seq1	L15	50.5201000374993	comp107152_c0_seq1	L41	1.61346302843928	comp93895_c0_seq1	L67	26.0263539962422	comp81162_c0_seq2	L100	0
comp123973_c0_seq2	L15	50.5201000374993	comp109530_c0_seq1	L41	1.61346302843928	comp94937_c0_seq1	L67	26.0263539962422	comp82030_c0_seq1	L100	0
comp124026_c0_seq1	L15	50.5201000374993	comp111278_c0_seq1	L41	1.61346302843928	comp96854_c0_seq1	L67	26.0263539962422	comp87960_c0_seq1	L100	0
comp127159_c0_seq1	L15	50.5201000374993	comp112011_c0_seq1	L41	1.61346302843928	comp64644_c0_seq1	L67	32.5141338833693	comp91437_c0_seq1	L100	0
comp28081_c0_seq1	L15	50.5201000374993	comp113353_c0_seq1	L41	1.61346302843928	comp110584_c1_seq1	L67	35.7444271703695	comp92236_c0_seq1	L100	0
comp81025_c0_seq1	L15	50.5201000374993	comp115256_c0_seq1	L41	1.61346302843928	comp112242_c0_seq1	L67	35.7444271703695	comp93460_c1_seq2	L100	0

comp94425_c0_seq1	L15	50.5201000374993	comp115261_c1_seq1	L41	1.61346302843928	comp44568_c0_seq1	L67	42.2322070574966	comp93575_c0_seq1	L100	0
comp117635_c0_seq2	L15	53.7503933244995	comp117785_c0_seq1	L41	1.61346302843928	comp84551_c0_seq1	L67	42.2322070574966	comp95495_c0_seq1	L100	0
comp119859_c0_seq1	L15	53.7503933244995	comp119255_c0_seq1	L41	1.61346302843928	comp102295_c0_seq1	L67	50.3677670683623	comp95501_c0_seq1	L100	0
comp100102_c0_seq1	L15	55.3638563529388	comp119513_c0_seq1	L41	1.61346302843928	comp105539_c0_seq1	L67	50.3677670683623	comp96680_c0_seq1	L100	0
comp109834_c0_seq1	L15	55.3638563529388	comp120653_c1_seq1	L41	1.61346302843928	comp113550_c0_seq1	L67	50.3677670683623	comp96994_c0_seq1	L100	0
comp116530_c0_seq1	L15	56.9773193813781	comp123435_c0_seq1	L41	1.61346302843928	comp113584_c1_seq1	L67	50.3677670683623	comp97057_c0_seq1	L100	0
comp109408_c0_seq1	L15	61.831219742402	comp127176_c0_seq1	L41	1.61346302843928	comp114372_c0_seq1	L67	50.3677670683623	comp99790_c0_seq1	L100	0
comp120638_c1_seq1	L15	61.831219742402	comp127514_c0_seq1	L41	1.61346302843928	comp114442_c0_seq1	L67	50.3677670683623	comp107815_c0_seq1	L100	1.61346302843928
comp118328_c0_seq1	L16	0	comp132705_c0_seq1	L41	1.61346302843928	comp117642_c0_seq1	L67	50.3677670683623	comp109951_c0_seq1	L100	1.61346302843928
comp103527_c0_seq1	L16	8.1355600108657	comp39849_c0_seq1	L41	1.61346302843928	comp120434_c0_seq1	L67	50.3677670683623	comp118781_c0_seq1	L100	1.61346302843928
comp128896_c0_seq2	L16	8.1355600108657	comp83464_c0_seq1	L41	1.61346302843928	comp123427_c0_seq3	L67	50.3677670683623	comp118892_c0_seq1	L100	1.61346302843928
comp133735_c1_seq1	L16	8.1355600108657	comp91597_c0_seq1	L41	1.61346302843928	comp29469_c0_seq1	L67	50.3677670683623	comp120300_c0_seq1	L100	1.61346302843928
comp78566_c0_seq1	L16	8.1355600108657	comp93422_c0_seq1	L41	1.61346302843928	comp70416_c0_seq1	L67	50.3677670683623	comp120832_c0_seq1	L100	1.61346302843928
comp122900_c0_seq1	L16	19.6238682453267	comp94196_c0_seq1	L41	1.61346302843928	comp78011_c0_seq1	L67	50.3677670683623	comp120849_c0_seq1	L100	1.61346302843928
comp133110_c0_seq1	L16	19.6238682453267	comp100668_c0_seq1	L41	3.22692605687856	comp80478_c0_seq1	L67	50.3677670683623	comp122587_c0_seq2	L100	1.61346302843928
comp96006_c0_seq2	L16	19.6238682453267	comp98961_c0_seq1	L41	3.22692605687856	comp84398_c3_seq1	L67	50.3677670683623	comp124392_c0_seq1	L100	1.61346302843928
comp111187_c0_seq1	L16	24.4777686063506	comp116375_c0_seq1	L41	4.84038908531784	comp86316_c0_seq1	L67	50.3677670683623	comp124409_c0_seq1	L100	1.61346302843928
comp114390_c0_seq1	L16	24.4777686063506	comp101577_c0_seq1	L41	6.45385211375712	comp88330_c0_seq1	L67	50.3677670683623	comp125940_c0_seq1	L100	1.61346302843928
comp100105_c0_seq1	L16	26.0912316347899	comp110173_c0_seq1	L41	6.45385211375712	comp88572_c0_seq1	L67	50.3677670683623	comp126566_c0_seq2	L100	1.61346302843928
comp103468_c0_seq1	L16	26.0912316347899	comp119704_c1_seq1	L41	6.45385211375712	comp95211_c0_seq1	L67	50.3677670683623	comp127597_c0_seq1	L100	1.61346302843928
comp108235_c0_seq1	L16	26.0912316347899	comp46209_c0_seq1	L41	6.45385211375712	comp95504_c1_seq1	L67	50.3677670683623	comp128151_c0_seq1	L100	1.61346302843928
comp110481_c1_seq3	L16	26.0912316347899	comp79755_c0_seq1	L41	6.45385211375712	comp95723_c0_seq1	L67	50.3677670683623	comp128908_c0_seq1	L100	1.61346302843928
comp113226_c0_seq1	L16	26.0912316347899	comp103292_c0_seq1	L41	17.9421603482181	comp95873_c0_seq1	L67	50.3677670683623	comp130717_c1_seq1	L100	1.61346302843928
comp118891_c0_seq1	L16	26.0912316347899	comp106846_c0_seq3	L41	17.9421603482181	comp100567_c0_seq2	L67	51.9812300968016	comp133579_c0_seq1	L100	1.61346302843928
comp122360_c0_seq1	L16	26.0912316347899	comp109266_c1_seq1	L41	17.9421603482181	comp45762_c2_seq1	L67	51.9812300968016	comp68948_c0_seq1	L100	1.61346302843928
comp127179_c0_seq1	L16	26.0912316347899	comp112659_c0_seq1	L41	17.9421603482181	comp25711_c0_seq1	L67	53.5946931252408	comp77822_c0_seq1	L100	1.61346302843928
comp52145_c0_seq1	L16	26.0912316347899	comp114497_c0_seq2	L41	17.9421603482181	comp39641_c0_seq1	L67	53.5946931252408	comp85771_c0_seq1	L100	1.61346302843928
comp97150_c0_seq1	L16	26.0912316347899	comp120252_c0_seq1	L41	17.9421603482181	comp97058_c2_seq1	L67	53.5946931252408	comp91173_c0_seq1	L100	1.61346302843928
comp101312_c2_seq2	L16	29.3215249217901	comp124359_c0_seq1	L41	17.9421603482181	comp106756_c0_seq1	L68	0	comp92675_c1_seq1	L100	1.61346302843928

comp103421_c0_seq1	L16	29.3215249217901	comp126164_c0_seq1	L41	17.9421603482181	comp114893_c0_seq1	L68	0	comp93866_c0_seq1	L100	1.61346302843928
comp105487_c0_seq1	L16	29.3215249217901	comp96940_c0_seq1	L41	17.9421603482181	comp115636_c0_seq1	L68	0	comp97597_c0_seq1	L100	1.61346302843928
comp106548_c0_seq2	L16	29.3215249217901	comp124416_c0_seq1	L41	19.5556233766574	comp116673_c0_seq1	L68	0	comp123673_c0_seq1	L100	4.84375631543943
comp106952_c0_seq1	L16	29.3215249217901	comp125553_c0_seq1	L41	19.5556233766574	comp126160_c0_seq1	L68	0	comp123839_c0_seq1	L100	4.84375631543943
comp107182_c0_seq2	L16	29.3215249217901	comp131290_c0_seq1	L41	19.5556233766574	comp129669_c1_seq1	L68	0	comp124365_c0_seq1	L100	4.84375631543943
comp108972_c0_seq1	L16	29.3215249217901	comp131721_c0_seq1	L41	19.5556233766574	comp130321_c0_seq1	L68	0	comp126586_c0_seq1	L100	4.84375631543943
comp109273_c0_seq1	L16	29.3215249217901	comp62597_c1_seq1	L41	19.5556233766574	comp133998_c0_seq1	L68	0	comp127195_c0_seq1	L100	4.84375631543943
comp109654_c0_seq1	L16	29.3215249217901	comp111564_c0_seq1	L41	21.1690864050967	comp57306_c0_seq1	L68	0	comp127195_c1_seq1	L100	4.84375631543943
comp110496_c0_seq1	L16	29.3215249217901	comp123171_c1_seq2	L41	21.1690864050967	comp77960_c0_seq1	L68	0	comp115335_c0_seq1	L100	12.9793163263051
comp111600_c0_seq1	L16	29.3215249217901	comp83097_c0_seq1	L41	24.3993796920968	comp85012_c0_seq2	L68	0	comp122898_c0_seq2	L100	12.9793163263051
comp111865_c0_seq2	L16	29.3215249217901	comp103755_c0_seq1	L41	29.2532800531208	comp96007_c0_seq1	L68	0	comp125276_c0_seq1	L100	12.9793163263051
comp114495_c1_seq1	L16	29.3215249217901	comp113206_c0_seq1	L41	29.2532800531208	comp119282_c0_seq1	L68	1.61346302843928	comp127689_c0_seq1	L100	12.9793163263051
comp114510_c0_seq1	L16	29.3215249217901	comp125336_c0_seq1	L41	29.2532800531208	comp132189_c0_seq1	L68	1.61346302843928	comp128795_c0_seq2	L100	12.9793163263051
comp116066_c0_seq1	L16	29.3215249217901	comp56726_c1_seq1	L41	29.2532800531208	comp90846_c0_seq1	L68	1.61346302843928	comp128795_c2_seq1	L100	12.9793163263051
comp116836_c0_seq1	L16	29.3215249217901	comp99209_c0_seq1	L41	29.2532800531208	comp121664_c0_seq2	L68	3.22692605687856	comp90640_c0_seq1	L100	12.9793163263051
comp117257_c0_seq1	L16	29.3215249217901	comp118989_c0_seq1	L41	34.1071804141447	comp133141_c0_seq1	L68	3.22692605687856	comp90640_c1_seq1	L100	12.9793163263051
comp117512_c0_seq1	L16	29.3215249217901	comp111724_c0_seq1	L41	35.720643442584	comp101953_c0_seq1	L68	4.84038908531784	comp91729_c0_seq1	L100	12.9793163263051
comp117946_c1_seq1	L16	29.3215249217901	comp105221_c0_seq2	L41	38.9509367295841	comp113727_c0_seq2	L68	4.84038908531784	comp120048_c0_seq1	L100	16.2096096133053
comp120129_c0_seq1	L16	29.3215249217901	comp131471_c0_seq1	L41	38.9509367295841	comp125375_c0_seq1	L68	4.84038908531784	comp123514_c1_seq1	L100	16.2096096133053
comp121149_c1_seq1	L16	29.3215249217901	comp105137_c0_seq1	L41	40.5643997580234	comp112354_c0_seq2	L68	8.07068237231799	comp130238_c1_seq1	L100	16.2096096133053
comp121912_c0_seq1	L16	29.3215249217901	comp107241_c0_seq1	L41	40.5643997580234	comp116138_c0_seq1	L68	8.07068237231799	comp97823_c1_seq1	L100	16.2096096133053
comp121953_c0_seq1	L16	29.3215249217901	comp107424_c1_seq1	L41	40.5643997580234	comp80024_c0_seq1	L68	8.07068237231799	comp101342_c0_seq1	L100	17.8230726417446
comp123459_c0_seq1	L16	29.3215249217901	comp121011_c0_seq1	L41	40.5643997580234	comp125195_c0_seq1	L68	11.3009756593181	comp107782_c0_seq1	L100	19.4365356701838
comp124492_c0_seq1	L16	29.3215249217901	comp124841_c0_seq1	L41	40.5643997580234	comp127997_c0_seq1	L68	11.3009756593181	comp112072_c0_seq1	L100	19.4365356701838
comp125762_c0_seq2	L16	29.3215249217901	comp129465_c0_seq1	L41	40.5643997580234	comp92350_c0_seq1	L68	11.3009756593181	comp130182_c0_seq1	L100	19.4365356701838
comp127075_c0_seq1	L16	29.3215249217901	comp130393_c0_seq2	L41	40.5643997580234	comp97123_c0_seq1	L68	11.3009756593181	comp114562_c1_seq1	L100	22.666828957184
comp128528_c1_seq1	L16	29.3215249217901	comp57855_c0_seq1	L41	40.5643997580234	comp111415_c0_seq1	L68	22.7892838937791	comp108467_c0_seq1	L100	27.5207293182079
comp130338_c0_seq1	L16	29.3215249217901	comp69186_c0_seq1	L41	40.5643997580234	comp130561_c0_seq1	L68	22.7892838937791	comp114579_c0_seq1	L100	27.5207293182079
comp130435_c0_seq2	L16	29.3215249217901	comp121084_c0_seq1	L41	43.7946930450236	comp73397_c0_seq1	L68	22.7892838937791	comp120595_c0_seq1	L100	27.5207293182079

comp130528_c0_seq2	L16	29.3215249217901	comp127975_c0_seq1	L41	43.7946930450236	comp86355_c0_seq1	L68	22.7892838937791	comp133037_c0_seq1	L100	27.5207293182079
comp132378_c0_seq1	L16	29.3215249217901	comp133041_c0_seq1	L41	43.7946930450236	comp100579_c0_seq1	L68	24.4027469222184	comp66534_c0_seq1	L100	27.5207293182079
comp132606_c0_seq1	L16	29.3215249217901	comp84142_c0_seq1	L41	43.7946930450236	comp103769_c0_seq1	L68	24.4027469222184	comp81247_c0_seq1	L100	27.5207293182079
comp133809_c1_seq1	L16	29.3215249217901	comp86203_c0_seq1	L41	43.7946930450236	comp105526_c2_seq2	L68	24.4027469222184	comp87879_c0_seq1	L100	27.5207293182079
comp41416_c0_seq1	L16	29.3215249217901	comp115862_c0_seq1	L41	56.996378800036	comp107898_c0_seq1	L68	24.4027469222184	comp101558_c0_seq1	L100	29.1341923466472
comp43196_c0_seq1	L16	29.3215249217901	comp130094_c0_seq1	L41	60.2266720870361	comp109113_c0_seq1	L68	24.4027469222184	comp104257_c0_seq1	L100	29.1341923466472
comp68051_c0_seq1	L16	29.3215249217901	comp124630_c0_seq1	L41	61.8401351154754	comp109937_c2_seq1	L68	24.4027469222184	comp107168_c1_seq1	L100	29.1341923466472
comp72907_c0_seq1	L16	29.3215249217901	comp115687_c0_seq1	L41	63.4535981439147	comp111203_c0_seq1	L68	24.4027469222184	comp108680_c0_seq1	L100	29.1341923466472
comp73387_c0_seq1	L16	29.3215249217901	comp118898_c0_seq1	L41	63.4535981439147	comp115000_c1_seq1	L68	24.4027469222184	comp124500_c0_seq2	L100	29.1341923466472
comp73783_c2_seq1	L16	29.3215249217901	comp127161_c0_seq1	L41	63.4535981439147	comp118658_c0_seq1	L68	24.4027469222184	comp131461_c0_seq2	L100	29.1341923466472
comp77359_c0_seq1	L16	29.3215249217901	comp133353_c0_seq1	L41	63.4535981439147	comp119739_c0_seq1	L68	24.4027469222184	comp92463_c0_seq1	L100	29.1341923466472
comp78031_c0_seq1	L16	29.3215249217901	comp90591_c0_seq1	L41	63.4535981439147	comp119930_c0_seq1	L68	24.4027469222184	comp99297_c0_seq1	L100	29.1341923466472
comp79574_c0_seq1	L16	29.3215249217901	comp109663_c1_seq1	L41	65.067061172354	comp120337_c0_seq1	L68	24.4027469222184	comp101269_c0_seq1	L100	37.2697523575129
comp79936_c0_seq1	L16	29.3215249217901	comp110514_c0_seq1	L41	65.067061172354	comp124423_c1_seq1	L68	24.4027469222184	comp108246_c0_seq1	L100	37.2697523575129
comp81519_c1_seq1	L16	29.3215249217901	comp118619_c0_seq1	L41	65.067061172354	comp127169_c0_seq1	L68	24.4027469222184	comp110396_c0_seq1	L100	37.2697523575129
comp81801_c0_seq1	L16	29.3215249217901	comp119060_c0_seq1	L41	65.067061172354	comp129447_c0_seq1	L68	24.4027469222184	comp112286_c1_seq2	L100	37.2697523575129
comp87657_c0_seq1	L16	29.3215249217901	comp120087_c0_seq1	L41	65.067061172354	comp130657_c2_seq1	L68	24.4027469222184	comp117160_c0_seq1	L100	37.2697523575129
comp88720_c0_seq1	L16	29.3215249217901	comp122285_c0_seq1	L41	65.067061172354	comp130753_c0_seq1	L68	24.4027469222184	comp119932_c0_seq1	L100	37.2697523575129
comp89800_c0_seq1	L16	29.3215249217901	comp126256_c0_seq1	L41	65.067061172354	comp130900_c0_seq1	L68	24.4027469222184	comp126487_c1_seq1	L100	37.2697523575129
comp89816_c0_seq1	L16	29.3215249217901	comp126432_c0_seq1	L41	65.067061172354	comp131174_c0_seq1	L68	24.4027469222184	comp130619_c0_seq2	L100	37.2697523575129
comp93651_c0_seq1	L16	29.3215249217901	comp130168_c0_seq1	L41	65.067061172354	comp133529_c1_seq1	L68	24.4027469222184	comp49188_c0_seq1	L100	37.2697523575129
comp93945_c0_seq1	L16	29.3215249217901	comp132086_c0_seq1	L41	65.067061172354	comp28012_c0_seq1	L68	24.4027469222184	comp54958_c0_seq1	L100	37.2697523575129
comp94615_c0_seq1	L16	29.3215249217901	comp132086_c1_seq1	L41	65.067061172354	comp90127_c0_seq1	L68	24.4027469222184	comp56048_c0_seq1	L100	37.2697523575129
comp96407_c1_seq2	L16	29.3215249217901	comp132999_c0_seq1	L41	65.067061172354	comp97732_c0_seq1	L68	24.4027469222184	comp60804_c0_seq1	L100	37.2697523575129
comp96741_c0_seq1	L16	29.3215249217901	comp133729_c0_seq1	L41	65.067061172354	comp101924_c0_seq1	L68	29.2566472832424	comp64747_c1_seq1	L100	37.2697523575129
comp97912_c0_seq1	L16	29.3215249217901	comp133729_c1_seq1	L41	65.067061172354	comp125781_c0_seq1	L68	29.2566472832424	comp79626_c0_seq1	L100	37.2697523575129
comp103964_c0_seq1	L16	30.9349879502294	comp66900_c0_seq1	L41	65.067061172354	comp110881_c1_seq1	L68	30.8701103116816	comp90175_c0_seq2	L100	37.2697523575129
comp106447_c0_seq2	L16	30.9349879502294	comp90902_c0_seq2	L41	65.067061172354	comp114149_c0_seq1	L68	30.8701103116816	comp91820_c0_seq1	L100	37.2697523575129
comp108741_c0_seq1	L16	30.9349879502294	comp99561_c1_seq1	L41	65.067061172354	comp116495_c0_seq2	L68	30.8701103116816	comp112921_c1_seq1	L100	38.8832153859522

comp109760_c0_seq1	L16	30.9349879502294	comp106801_c2_seq1	L41	78.2687469273664	comp116725_c0_seq1	L68	30.8701103116816	comp65231_c0_seq1	L100	38.8832153859522
comp111502_c0_seq1	L16	30.9349879502294	comp123591_c0_seq2	L41	78.2687469273664	comp132921_c0_seq2	L68	30.8701103116816	comp101619_c0_seq1	L100	43.7371157469761
comp111816_c0_seq1	L16	30.9349879502294	comp126021_c0_seq1	L41	78.2687469273664	comp126292_c0_seq1	L68	32.4835733401209	comp111800_c0_seq1	L100	43.7371157469761
comp121319_c1_seq1	L16	30.9349879502294	comp129975_c0_seq2	L41	78.2687469273664	comp132047_c0_seq2	L68	32.4835733401209	comp112040_c1_seq1	L100	43.7371157469761
comp127263_c1_seq1	L16	30.9349879502294	comp107281_c0_seq1	L41	83.1226472883903	comp123406_c0_seq1	L68	35.7138666271211	comp112443_c0_seq1	L100	43.7371157469761
comp129588_c1_seq1	L16	30.9349879502294	comp108408_c0_seq1	L41	83.1226472883903	comp125502_c0_seq1	L68	35.7138666271211	comp119952_c0_seq1	L100	43.7371157469761
comp70808_c0_seq1	L16	30.9349879502294	comp117944_c0_seq1	L41	83.1226472883903	comp130853_c0_seq1	L68	35.7138666271211	comp122671_c0_seq1	L100	43.7371157469761
comp82340_c0_seq1	L16	30.9349879502294	comp120809_c0_seq1	L41	83.1226472883903	comp41135_c0_seq1	L68	35.7138666271211	comp127191_c1_seq1	L100	43.7371157469761
comp128473_c0_seq1	L16	32.5484509786686	comp85947_c0_seq1	L41	83.1226472883903	comp123069_c0_seq1	L68	40.567766988145	comp131656_c0_seq1	L100	43.7371157469761
comp19890_c0_seq1	L16	32.5484509786686	comp90037_c0_seq1	L41	83.1226472883903	comp130397_c0_seq1	L68	40.567766988145	comp132932_c0_seq1	L100	43.7371157469761
comp26845_c0_seq1	L16	32.5484509786686	comp113235_c0_seq1	L41	84.7361103168296	comp99629_c0_seq1	L68	40.567766988145	comp77832_c0_seq1	L100	43.7371157469761
comp73206_c0_seq1	L16	32.5484509786686	comp127133_c0_seq2	L41	84.7361103168296	comp105872_c0_seq1	L68	42.1812300165843	comp93478_c0_seq1	L100	43.7371157469761
comp90657_c0_seq1	L16	32.5484509786686	comp27707_c0_seq1	L41	84.7361103168296	comp109013_c0_seq1	L68	42.1812300165843	comp93478_c1_seq1	L100	43.7371157469761
comp120847_c0_seq1	L17	0	comp108525_c0_seq1	L41	87.9664036038297	comp122276_c1_seq1	L68	42.1812300165843	comp96347_c0_seq1	L100	43.7371157469761
comp122641_c0_seq2	L17	0	comp108846_c1_seq1	L41	87.9664036038297	comp123856_c0_seq1	L68	42.1812300165843	comp96406_c0_seq1	L100	43.7371157469761
comp125307_c0_seq1	L17	0	comp125807_c0_seq1	L41	87.9664036038297	comp126850_c0_seq1	L68	42.1812300165843	comp97358_c0_seq1	L100	43.7371157469761
comp126098_c0_seq1	L17	0	comp127045_c1_seq1	L41	87.9664036038297	comp127010_c0_seq1	L68	42.1812300165843	comp134326_c0_seq1	L100	45.3505787754154
comp126991_c1_seq1	L17	0	comp131138_c1_seq1	L41	87.9664036038297	comp128859_c0_seq1	L68	42.1812300165843	comp73490_c0_seq1	L100	45.3505787754154
comp111849_c0_seq1	L17	1.61346302843928	comp75261_c0_seq1	L41	87.9664036038297	comp96797_c0_seq1	L68	42.1812300165843	comp78332_c0_seq1	L100	45.3505787754154
comp100706_c0_seq1	L17	4.84375631543943	comp90774_c0_seq2	L41	87.9664036038297	comp97167_c0_seq1	L68	42.1812300165843	comp96851_c0_seq1	L100	45.3505787754154
comp123882_c0_seq1	L17	4.84375631543943	comp92758_c0_seq1	L41	87.9664036038297	comp101286_c0_seq1	L68	43.7946930450236	comp102518_c0_seq1	L100	48.5808720624156
comp125701_c0_seq1	L17	4.84375631543943	comp96877_c0_seq1	L41	87.9664036038297	comp105787_c0_seq2	L68	43.7946930450236	comp99909_c0_seq1	L100	48.5808720624156
comp127894_c1_seq1	L17	4.84375631543943	comp107562_c0_seq1	L41	89.579866632269	comp108776_c0_seq1	L68	43.7946930450236	comp101859_c0_seq1	L101	0
comp100389_c0_seq2	L17	9.69765667646336	comp127243_c0_seq3	L41	89.579866632269	comp110026_c0_seq1	L68	43.7946930450236	comp106237_c0_seq2	L101	0
comp101416_c0_seq2	L17	9.69765667646336	comp86139_c0_seq1	L41	89.579866632269	comp115622_c0_seq1	L68	43.7946930450236	comp107039_c0_seq1	L101	0
comp101927_c0_seq1	L17	9.69765667646336	comp97187_c0_seq1	L41	89.579866632269	comp118697_c0_seq1	L68	43.7946930450236	comp108614_c0_seq1	L101	0
comp102742_c0_seq2	L17	9.69765667646336	comp79364_c0_seq1	L41	91.1933296607083	comp122829_c0_seq2	L68	43.7946930450236	comp108878_c0_seq1	L101	0
comp103636_c0_seq1	L17	9.69765667646336	comp106532_c0_seq1	L41	92.8067926891476	comp132904_c1_seq1	L68	43.7946930450236	comp108975_c0_seq1	L101	0
comp106403_c0_seq1	L17	9.69765667646336	comp110788_c0_seq2	L41	92.8067926891476	comp75142_c0_seq1	L68	43.7946930450236	comp108988_c0_seq1	L101	0

comp10802_c1_seq1	L17	9.69765667646336	comp123396_c0_seq1	L41	92.8067926891476	comp84066_c0_seq1	L68	43.7946930450236	comp112257_c0_seq1	L101	0
comp110780_c0_seq1	L17	9.69765667646336	comp130771_c3_seq1	L41	92.8067926891476	comp88640_c0_seq1	L68	43.7946930450236	comp115730_c0_seq1	L101	0
comp111615_c0_seq2	L17	9.69765667646336	comp131009_c0_seq1	L41	92.8067926891476	comp105520_c0_seq2	L68	45.4081560734628	comp117052_c0_seq1	L101	0
comp111679_c0_seq1	L17	9.69765667646336	comp77653_c0_seq1	L41	92.8067926891476	comp120994_c0_seq1	L68	45.4081560734628	comp11929_c0_seq1	L101	0
comp113342_c0_seq1	L17	9.69765667646336	comp95814_c0_seq1	L41	92.8067926891476	comp123103_c0_seq1	L68	45.4081560734628	comp121383_c0_seq1	L101	0
comp113801_c0_seq2	L17	9.69765667646336	comp100265_c1_seq1	L41	94.4202557175869	comp123489_c2_seq1	L68	45.4081560734628	comp127372_c0_seq1	L101	0
comp114486_c0_seq1	L17	9.69765667646336	comp101588_c0_seq1	L41	94.4202557175869	comp123489_c3_seq1	L68	45.4081560734628	comp127754_c0_seq1	L101	0
comp117534_c0_seq1	L17	9.69765667646336	comp102158_c0_seq1	L41	94.4202557175869	comp129773_c0_seq1	L68	45.4081560734628	comp128987_c0_seq6	L101	0
comp117705_c1_seq2	L17	9.69765667646336	comp105703_c0_seq1	L41	94.4202557175869	comp69108_c0_seq1	L68	45.4081560734628	comp64623_c0_seq1	L101	0
comp118213_c1_seq1	L17	9.69765667646336	comp105952_c0_seq1	L41	94.4202557175869	comp101991_c1_seq1	L68	47.0216191019021	comp65439_c0_seq1	L101	0
comp118483_c1_seq1	L17	9.69765667646336	comp106151_c2_seq1	L41	94.4202557175869	comp102261_c0_seq1	L68	47.0216191019021	comp78663_c0_seq1	L101	0
comp121203_c0_seq1	L17	9.69765667646336	comp109192_c0_seq1	L41	94.4202557175869	comp103583_c0_seq1	L68	47.0216191019021	comp83109_c0_seq1	L101	0
comp123114_c0_seq1	L17	9.69765667646336	comp110548_c0_seq1	L41	94.4202557175869	comp113183_c0_seq1	L68	47.0216191019021	comp87990_c0_seq1	L101	0
comp123931_c0_seq1	L17	9.69765667646336	comp110700_c0_seq1	L41	94.4202557175869	comp131807_c0_seq1	L68	47.0216191019021	comp91310_c0_seq1	L101	0
comp123992_c0_seq1	L17	9.69765667646336	comp110840_c0_seq1	L41	94.4202557175869	comp45920_c0_seq1	L68	47.0216191019021	comp93274_c0_seq1	L101	0
comp124727_c0_seq1	L17	9.69765667646336	comp113216_c3_seq1	L41	94.4202557175869	comp61659_c0_seq1	L68	47.0216191019021	comp96740_c0_seq1	L101	0
comp126076_c0_seq2	L17	9.69765667646336	comp113632_c0_seq2	L41	94.4202557175869	comp71561_c0_seq1	L68	47.0216191019021	comp102423_c0_seq1	L101	1.61346302843928
comp126141_c0_seq1	L17	9.69765667646336	comp114297_c0_seq2	L41	94.4202557175869	comp82185_c0_seq1	L68	47.0216191019021	comp103923_c0_seq1	L101	1.61346302843928
comp127336_c0_seq1	L17	9.69765667646336	comp117059_c0_seq1	L41	94.4202557175869	comp86079_c0_seq1	L68	47.0216191019021	comp107622_c0_seq1	L101	1.61346302843928
comp127397_c0_seq1	L17	9.69765667646336	comp120434_c1_seq3	L41	94.4202557175869	comp88549_c0_seq1	L68	47.0216191019021	comp110073_c0_seq1	L101	1.61346302843928
comp128543_c0_seq1	L17	9.69765667646336	comp121851_c1_seq1	L41	94.4202557175869	comp92193_c0_seq1	L68	47.0216191019021	comp111593_c0_seq1	L101	1.61346302843928
comp129561_c0_seq2	L17	9.69765667646336	comp122048_c0_seq1	L41	94.4202557175869	comp93007_c0_seq2	L68	47.0216191019021	comp111974_c0_seq3	L101	1.61346302843928
comp129974_c0_seq1	L17	9.69765667646336	comp122332_c0_seq1	L41	94.4202557175869	comp93241_c0_seq1	L68	47.0216191019021	comp113654_c0_seq1	L101	1.61346302843928
comp130591_c0_seq1	L17	9.69765667646336	comp123150_c0_seq1	L41	94.4202557175869	comp94716_c0_seq1	L68	47.0216191019021	comp117650_c0_seq1	L101	1.61346302843928
comp51610_c0_seq1	L17	9.69765667646336	comp126143_c0_seq1	L41	94.4202557175869	comp96354_c0_seq2	L68	47.0216191019021	comp119779_c0_seq1	L101	1.61346302843928
comp89754_c0_seq1	L17	9.69765667646336	comp128804_c0_seq1	L41	94.4202557175869	comp96451_c0_seq1	L68	47.0216191019021	comp121457_c0_seq1	L101	1.61346302843928
comp91244_c0_seq1	L17	9.69765667646336	comp130714_c1_seq1	L41	94.4202557175869	comp99264_c0_seq1	L68	47.0216191019021	comp122464_c1_seq1	L101	1.61346302843928
comp93379_c0_seq1	L17	9.69765667646336	comp131153_c0_seq1	L41	94.4202557175869	comp102082_c0_seq1	L69	0	comp124463_c0_seq1	L101	1.61346302843928
comp95722_c0_seq1	L17	9.69765667646336	comp131829_c0_seq1	L41	94.4202557175869	comp103363_c0_seq1	L69	0	comp127310_c0_seq1	L101	1.61346302843928

comp97048_c0_seq1	L17	9.69765667646336	comp133055_c0_seq1	L41	94.4202557175869	comp108921_c0_seq1	L69	0	comp129675_c0_seq1	L101	1.61346302843928
comp97137_c0_seq1	L17	9.69765667646336	comp133325_c0_seq1	L41	94.4202557175869	comp109739_c3_seq1	L69	0	comp132191_c1_seq1	L101	1.61346302843928
comp98787_c0_seq1	L17	9.69765667646336	comp133512_c0_seq2	L41	94.4202557175869	comp110143_c0_seq1	L69	0	comp132565_c0_seq1	L101	1.61346302843928
comp99914_c0_seq1	L17	9.69765667646336	comp133583_c0_seq1	L41	94.4202557175869	comp110158_c0_seq1	L69	0	comp133408_c1_seq1	L101	1.61346302843928
comp100116_c0_seq1	L17	11.3111197049026	comp25907_c0_seq1	L41	94.4202557175869	comp110239_c0_seq1	L69	0	comp80328_c0_seq1	L101	1.61346302843928
comp101056_c0_seq1	L17	11.3111197049026	comp27405_c0_seq1	L41	94.4202557175869	comp113077_c0_seq1	L69	0	comp92021_c0_seq1	L101	1.61346302843928
comp101056_c1_seq1	L17	11.3111197049026	comp42066_c0_seq1	L41	94.4202557175869	comp116443_c0_seq1	L69	0	comp96735_c0_seq1	L101	1.61346302843928
comp101329_c1_seq1	L17	11.3111197049026	comp44669_c0_seq1	L41	94.4202557175869	comp116874_c2_seq2	L69	0	comp97197_c0_seq1	L101	1.61346302843928
comp101731_c0_seq1	L17	11.3111197049026	comp59566_c0_seq1	L41	94.4202557175869	comp121500_c0_seq1	L69	0	comp98730_c0_seq1	L101	1.61346302843928
comp102054_c0_seq1	L17	11.3111197049026	comp65605_c0_seq1	L41	94.4202557175869	comp123217_c1_seq1	L69	0	comp101299_c0_seq1	L101	3.22692605687856
comp102589_c0_seq1	L17	11.3111197049026	comp76983_c0_seq1	L41	94.4202557175869	comp124482_c0_seq2	L69	0	comp104558_c0_seq1	L101	3.22692605687856
comp102726_c0_seq1	L17	11.3111197049026	comp7776_c0_seq1	L41	94.4202557175869	comp128012_c1_seq1	L69	0	comp120654_c0_seq1	L101	3.22692605687856
comp103458_c0_seq1	L17	11.3111197049026	comp80452_c0_seq1	L41	94.4202557175869	comp129629_c0_seq1	L69	0	comp121485_c0_seq1	L101	3.22692605687856
comp105084_c0_seq1	L17	11.3111197049026	comp88611_c0_seq1	L41	94.4202557175869	comp130332_c3_seq1	L69	0	comp122562_c0_seq1	L101	3.22692605687856
comp105374_c0_seq1	L17	11.3111197049026	comp89827_c0_seq1	L41	94.4202557175869	comp18024_c0_seq1	L69	0	comp130253_c1_seq1	L101	3.22692605687856
comp105613_c0_seq1	L17	11.3111197049026	comp92049_c0_seq1	L41	94.4202557175869	comp29983_c0_seq1	L69	0	comp131443_c0_seq1	L101	3.22692605687856
comp106716_c0_seq1	L17	11.3111197049026	comp93004_c0_seq1	L41	94.4202557175869	comp44507_c0_seq1	L69	0	comp64321_c0_seq1	L101	3.22692605687856
comp106884_c0_seq1	L17	11.3111197049026	comp93837_c0_seq2	L41	94.4202557175869	comp52342_c0_seq1	L69	0	comp80725_c0_seq1	L101	3.22692605687856
comp107766_c0_seq1	L17	11.3111197049026	comp94261_c0_seq1	L41	94.4202557175869	comp54747_c0_seq1	L69	0	comp101874_c0_seq2	L102	0
comp109215_c0_seq1	L17	11.3111197049026	comp94504_c0_seq1	L41	94.4202557175869	comp59672_c0_seq1	L69	0	comp102941_c0_seq1	L102	0
comp109575_c0_seq1	L17	11.3111197049026	comp94920_c0_seq1	L41	94.4202557175869	comp60892_c0_seq1	L69	0	comp111011_c0_seq1	L102	0
comp112174_c0_seq1	L17	11.3111197049026	comp95299_c0_seq1	L41	94.4202557175869	comp67275_c0_seq1	L69	0	comp97919_c0_seq1	L102	0
comp112444_c0_seq1	L17	11.3111197049026	comp95376_c0_seq1	L41	94.4202557175869	comp69519_c0_seq1	L69	0	comp111189_c0_seq1	L102	8.1355600108657
comp112711_c0_seq1	L17	11.3111197049026	comp96520_c0_seq1	L41	94.4202557175869	comp79292_c0_seq1	L69	0	comp119354_c0_seq1	L102	8.1355600108657
comp113379_c1_seq1	L17	11.3111197049026	comp96675_c0_seq1	L41	94.4202557175869	comp81363_c0_seq1	L69	0	comp123586_c1_seq1	L102	9.74902303930498
comp114379_c0_seq1	L17	11.3111197049026	comp97013_c0_seq1	L41	94.4202557175869	comp85997_c0_seq1	L69	0	comp72792_c0_seq1	L102	9.74902303930498
comp115453_c0_seq1	L17	11.3111197049026	comp97035_c0_seq1	L41	94.4202557175869	comp89564_c0_seq1	L69	0	comp76861_c0_seq1	L102	9.74902303930498
comp116477_c0_seq1	L17	11.3111197049026	comp126793_c1_seq1	L42	0	comp90212_c0_seq1	L69	0	comp101744_c0_seq1	L102	11.3624860677443
comp117646_c0_seq1	L17	11.3111197049026	comp127384_c1_seq1	L42	0	comp90886_c0_seq1	L69	0	comp103175_c0_seq1	L102	11.3624860677443



comp117702_c0_seq3	L17	11.3111197049026	comp133881_c0_seq1	L42	0	comp91532_c0_seq1	L69	0	comp104311_c0_seq1	L102	11.3624860677443
comp117726_c0_seq1	L17	11.3111197049026	comp130503_c2_seq1	L42	1.61346302843928	comp92031_c0_seq1	L69	0	comp106531_c0_seq1	L102	11.3624860677443
comp117994_c0_seq1	L17	11.3111197049026	comp88122_c0_seq1	L42	1.61346302843928	comp93213_c0_seq1	L69	0	comp111089_c0_seq1	L102	11.3624860677443
comp118123_c0_seq1	L17	11.3111197049026	comp88860_c0_seq1	L42	1.61346302843928	comp94972_c0_seq1	L69	0	comp61440_c0_seq1	L102	11.3624860677443
comp119381_c0_seq1	L17	11.3111197049026	comp99218_c1_seq1	L42	1.61346302843928	comp95228_c0_seq1	L69	0	comp68424_c0_seq1	L102	11.3624860677443
comp119788_c0_seq1	L17	11.3111197049026	comp120282_c2_seq1	L42	13.1017712629003	comp95523_c0_seq1	L69	0	comp81492_c0_seq1	L102	11.3624860677443
comp120916_c0_seq1	L17	11.3111197049026	comp124608_c0_seq1	L42	13.1017712629003	comp96742_c0_seq1	L69	0	comp83005_c0_seq1	L102	11.3624860677443
comp12218_c0_seq1	L17	11.3111197049026	comp70572_c0_seq1	L42	13.1017712629003	comp98832_c1_seq1	L69	0	comp9604_c0_seq1	L102	11.3624860677443
comp123431_c0_seq1	L17	11.3111197049026	comp114036_c0_seq1	L42	16.3320645499004	comp99582_c0_seq1	L69	0	comp88173_c0_seq1	L102	17.8502659548714
comp123505_c0_seq1	L17	11.3111197049026	comp121782_c0_seq1	L42	16.3320645499004	comp109147_c0_seq1	L69	1.61346302843928	comp94467_c0_seq1	L102	17.8502659548714
comp125383_c0_seq1	L17	11.3111197049026	comp124648_c0_seq1	L42	16.3320645499004	comp110981_c0_seq1	L69	1.61346302843928	comp101340_c0_seq1	L102	22.7041663158953
comp126890_c0_seq1	L17	11.3111197049026	comp125835_c0_seq2	L42	16.3320645499004	comp120333_c0_seq1	L69	1.61346302843928	comp102291_c0_seq1	L102	22.7041663158953
comp127205_c0_seq1	L17	11.3111197049026	comp129088_c0_seq2	L42	16.3320645499004	comp125196_c1_seq3	L69	1.61346302843928	comp104972_c0_seq1	L102	22.7041663158953
comp129955_c0_seq2	L17	11.3111197049026	comp129435_c0_seq1	L42	16.3320645499004	comp91851_c0_seq2	L69	1.61346302843928	comp106308_c0_seq1	L102	22.7041663158953
comp130009_c0_seq1	L17	11.3111197049026	comp131614_c0_seq1	L42	22.8198444370275	comp114765_c0_seq1	L69	6.46736338946321	comp106966_c0_seq1	L102	22.7041663158953
comp131915_c1_seq1	L17	11.3111197049026	comp132852_c0_seq4	L42	22.8198444370275	comp120051_c0_seq1	L69	6.46736338946321	comp114447_c0_seq2	L102	22.7041663158953
comp133291_c1_seq2	L17	11.3111197049026	comp101173_c0_seq1	L42	26.0501377240277	comp120228_c0_seq1	L69	6.46736338946321	comp115763_c0_seq1	L102	22.7041663158953
comp13354_c0_seq1	L17	11.3111197049026	comp112770_c0_seq1	L42	26.0501377240277	comp120682_c0_seq1	L69	6.46736338946321	comp130702_c0_seq1	L102	22.7041663158953
comp26332_c0_seq2	L17	11.3111197049026	comp121208_c0_seq1	L42	26.0501377240277	comp120537_c0_seq1	L69	11.3212637504871	comp49641_c0_seq1	L102	22.7041663158953
comp32447_c0_seq1	L17	11.3111197049026	comp121448_c0_seq1	L42	26.0501377240277	comp107476_c0_seq1	L69	16.1751641115111	comp63910_c0_seq1	L102	22.7041663158953
comp42987_c0_seq1	L17	11.3111197049026	comp123130_c0_seq1	L42	26.0501377240277	comp111765_c0_seq1	L69	16.1751641115111	comp72427_c0_seq1	L102	22.7041663158953
comp55629_c0_seq1	L17	11.3111197049026	comp125239_c2_seq1	L42	26.0501377240277	comp133305_c0_seq1	L69	16.1751641115111	comp73801_c0_seq1	L102	22.7041663158953
comp59128_c1_seq1	L17	11.3111197049026	comp111786_c1_seq1	L42	29.2804310110279	comp75804_c0_seq1	L69	16.1751641115111	comp80666_c0_seq1	L102	22.7041663158953
comp63385_c0_seq1	L17	11.3111197049026	comp119916_c0_seq1	L42	29.2804310110279	comp80480_c0_seq2	L69	16.1751641115111	comp82461_c0_seq1	L102	22.7041663158953
comp63415_c0_seq1	L17	11.3111197049026	comp128297_c0_seq1	L42	29.2804310110279	comp97133_c0_seq1	L69	16.1751641115111	comp87751_c0_seq1	L102	22.7041663158953
comp67548_c1_seq1	L17	11.3111197049026	comp93673_c0_seq1	L42	29.2804310110279	comp100849_c0_seq1	L69	17.7886271399504	comp88192_c0_seq1	L102	22.7041663158953
comp67694_c0_seq1	L17	11.3111197049026	comp103411_c0_seq1	L42	34.1343313720518	comp105429_c0_seq1	L69	17.7886271399504	comp91500_c0_seq2	L102	22.7041663158953
comp71858_c0_seq1	L17	11.3111197049026	comp88532_c0_seq1	L42	34.1343313720518	comp105984_c0_seq1	L69	17.7886271399504	comp88120_c0_seq1	L102	34.1924745503563
comp74974_c0_seq1	L17	11.3111197049026	comp108026_c1_seq1	L42	38.9882317330757	comp107836_c0_seq1	L69	17.7886271399504	comp103324_c0_seq1	L102	35.8059375787956

comp75325_c0_seq1	L17	11.3111197049026	comp109252_c0_seq1	L42	38.9882317330757	comp108278_c0_seq1	L69	17.7886271399504	comp106231_c2_seq1	L102	35.8059375787956
comp79132_c0_seq1	L17	11.3111197049026	comp113031_c0_seq1	L42	38.9882317330757	comp110590_c0_seq1	L69	17.7886271399504	comp108147_c0_seq1	L102	35.8059375787956
comp80187_c0_seq1	L17	11.3111197049026	comp116165_c0_seq1	L42	38.9882317330757	comp110961_c0_seq1	L69	17.7886271399504	comp108237_c0_seq1	L102	35.8059375787956
comp80290_c0_seq1	L17	11.3111197049026	comp122895_c0_seq1	L42	38.9882317330757	comp112736_c1_seq1	L69	17.7886271399504	comp111098_c0_seq2	L102	35.8059375787956
comp83221_c0_seq1	L17	11.3111197049026	comp123998_c0_seq1	L42	38.9882317330757	comp114079_c3_seq1	L69	17.7886271399504	comp114058_c1_seq1	L102	35.8059375787956
comp83274_c0_seq1	L17	11.3111197049026	comp124214_c0_seq1	L42	38.9882317330757	comp116394_c0_seq1	L69	17.7886271399504	comp115081_c3_seq1	L102	35.8059375787956
comp83853_c0_seq1	L17	11.3111197049026	comp87283_c0_seq1	L42	38.9882317330757	comp117172_c0_seq1	L69	17.7886271399504	comp117629_c0_seq1	L102	35.8059375787956
comp83997_c0_seq1	L17	11.3111197049026	comp96818_c0_seq1	L42	38.9882317330757	comp118676_c0_seq1	L69	17.7886271399504	comp130668_c0_seq1	L102	35.8059375787956
comp86327_c0_seq1	L17	11.3111197049026	comp98872_c0_seq1	L42	38.9882317330757	comp125257_c0_seq1	L69	17.7886271399504	comp31702_c0_seq1	L102	35.8059375787956
comp86508_c0_seq1	L17	11.3111197049026	comp99776_c0_seq1	L42	38.9882317330757	comp127200_c0_seq1	L69	17.7886271399504	comp39841_c0_seq1	L102	35.8059375787956
comp90425_c0_seq1	L17	11.3111197049026	comp119363_c3_seq1	L42	40.601694761515	comp129655_c0_seq1	L69	17.7886271399504	comp43057_c0_seq1	L102	35.8059375787956
comp90610_c0_seq1	L17	11.3111197049026	comp124977_c0_seq1	L42	40.601694761515	comp130449_c1_seq1	L69	17.7886271399504	comp54453_c0_seq1	L102	35.8059375787956
comp90768_c0_seq1	L17	11.3111197049026	comp107262_c0_seq1	L42	43.8319880485151	comp130817_c0_seq1	L69	17.7886271399504	comp54760_c0_seq1	L102	35.8059375787956
comp91026_c0_seq1	L17	11.3111197049026	comp115990_c0_seq4	L42	43.8319880485151	comp135035_c0_seq1	L69	17.7886271399504	comp57667_c0_seq1	L102	35.8059375787956
comp91103_c0_seq1	L17	11.3111197049026	comp123576_c0_seq1	L42	43.8319880485151	comp68838_c0_seq1	L69	17.7886271399504	comp61287_c0_seq1	L102	35.8059375787956
comp91170_c0_seq1	L17	11.3111197049026	comp130445_c0_seq1	L42	43.8319880485151	comp77616_c0_seq1	L69	17.7886271399504	comp77221_c0_seq1	L102	35.8059375787956
comp91278_c0_seq1	L17	11.3111197049026	comp79156_c0_seq1	L42	43.8319880485151	comp8412_c0_seq1	L69	17.7886271399504	comp79816_c0_seq1	L102	35.8059375787956
comp92058_c0_seq1	L17	11.3111197049026	comp106103_c1_seq1	L42	50.3197679356423	comp93731_c0_seq1	L69	17.7886271399504	comp81032_c0_seq1	L102	35.8059375787956
comp93745_c1_seq1	L17	11.3111197049026	comp108001_c0_seq1	L42	50.3197679356423	comp96862_c0_seq1	L69	17.7886271399504	comp87594_c0_seq1	L102	35.8059375787956
comp96000_c0_seq1	L17	11.3111197049026	comp109971_c2_seq1	L42	50.3197679356423	comp104261_c0_seq1	L69	22.6425275009743	comp92212_c0_seq1	L102	35.8059375787956
comp96057_c0_seq1	L17	11.3111197049026	comp117791_c0_seq1	L42	50.3197679356423	comp104390_c0_seq1	L69	22.6425275009743	comp95637_c0_seq4	L102	35.8059375787956
comp96212_c0_seq1	L17	11.3111197049026	comp124375_c0_seq1	L42	50.3197679356423	comp120872_c0_seq1	L69	22.6425275009743	comp96341_c1_seq2	L102	35.8059375787956
comp96435_c0_seq2	L17	11.3111197049026	comp124734_c0_seq1	L42	50.3197679356423	comp122687_c0_seq1	L69	22.6425275009743	comp99692_c3_seq1	L102	35.8059375787956
comp96848_c0_seq1	L17	11.3111197049026	comp124887_c0_seq1	L42	50.3197679356423	comp127467_c0_seq1	L69	22.6425275009743	comp114463_c0_seq1	L103	0
comp97834_c0_seq1	L17	11.3111197049026	comp132316_c1_seq2	L42	50.3197679356423	comp127766_c0_seq1	L69	32.4435796953749	comp75785_c0_seq1	L103	0
comp97834_c1_seq1	L17	11.3111197049026	comp80062_c0_seq1	L42	50.3197679356423	comp129848_c0_seq1	L69	32.4435796953749	comp96644_c0_seq1	L103	0
comp99875_c0_seq1	L17	11.3111197049026	comp123782_c0_seq1	L42	51.9332309640815	comp104197_c0_seq1	L69	34.0570427238142	comp104949_c0_seq1	L103	1.61346302843928
comp103556_c0_seq1	L18	0	comp134026_c1_seq1	L42	51.9332309640815	comp126592_c0_seq1	L69	34.0570427238142	comp125099_c0_seq1	L103	1.61346302843928
comp114148_c0_seq1	L18	0	comp103691_c1_seq1	L42	58.4210108512086	comp70059_c0_seq1	L69	34.0570427238142	comp92259_c0_seq1	L103	1.61346302843928

comp120355_c0_seq1	L18	0	comp105848_c0_seq1	L42	58.4210108512086	comp96422_c0_seq1	L69	34.0570427238142	comp98022_c0_seq1	L103	1.61346302843928
comp91640_c0_seq1	L18	0	comp113523_c0_seq1	L42	58.4210108512086	comp97629_c0_seq1	L69	34.0570427238142	comp132733_c0_seq1	L103	3.22692605687856
comp99341_c0_seq2	L18	0	comp74009_c0_seq1	L42	58.4210108512086	comp103779_c0_seq2	L69	43.8580949182148	comp111093_c1_seq1	L103	8.08082641790249
comp99901_c0_seq1	L18	0	comp100799_c0_seq1	L42	63.2749112122326	comp105471_c0_seq1	L69	43.8580949182148	comp129049_c0_seq1	L103	9.69428944634177
comp108265_c4_seq1	L18	1.61346302843928	comp105816_c0_seq2	L42	63.2749112122326	comp109996_c0_seq1	L69	43.8580949182148	comp66843_c0_seq1	L103	9.69428944634177
comp108883_c0_seq1	L18	1.61346302843928	comp109668_c0_seq1	L42	66.5052044992327	comp110732_c0_seq1	L69	43.8580949182148	comp84180_c0_seq1	L103	9.69428944634177
comp111684_c0_seq1	L18	1.61346302843928	comp100291_c1_seq1	L42	68.118667527672	comp117151_c1_seq1	L69	43.8580949182148	comp103625_c0_seq1	L103	21.1825976808028
comp114434_c3_seq1	L18	1.61346302843928	comp100577_c1_seq1	L42	68.118667527672	comp121050_c0_seq1	L69	43.8580949182148	comp113453_c0_seq3	L103	21.1825976808028
comp118301_c0_seq2	L18	1.61346302843928	comp100694_c0_seq1	L42	68.118667527672	comp122488_c1_seq1	L69	43.8580949182148	comp123211_c0_seq1	L103	21.1825976808028
comp121048_c0_seq1	L18	1.61346302843928	comp102909_c0_seq1	L42	68.118667527672	comp125570_c0_seq1	L69	43.8580949182148	comp117952_c0_seq4	L103	22.7960607092421
comp132428_c0_seq1	L18	1.61346302843928	comp103518_c0_seq1	L42	68.118667527672	comp126389_c0_seq1	L69	43.8580949182148	comp127370_c0_seq1	L103	22.7960607092421
comp132539_c0_seq1	L18	1.61346302843928	comp104739_c0_seq1	L42	68.118667527672	comp127302_c0_seq1	L69	43.8580949182148	comp122810_c2_seq1	L103	24.4095237376813
comp103137_c0_seq1	L18	8.10124291556639	comp104810_c0_seq1	L42	68.118667527672	comp129683_c0_seq1	L69	43.8580949182148	comp89762_c1_seq1	L103	24.4095237376813
comp112536_c0_seq2	L18	8.10124291556639	comp105842_c0_seq1	L42	68.118667527672	comp132035_c1_seq1	L69	43.8580949182148	comp126678_c0_seq1	L103	27.6398170246815
comp114415_c0_seq1	L18	8.10124291556639	comp107017_c0_seq1	L42	68.118667527672	comp133028_c1_seq1	L69	43.8580949182148	comp130547_c0_seq1	L103	27.6398170246815
comp115443_c1_seq1	L18	8.10124291556639	comp109538_c0_seq3	L42	68.118667527672	comp51602_c0_seq1	L69	43.8580949182148	comp101343_c0_seq1	L103	29.2532800531208
comp124184_c0_seq2	L18	8.10124291556639	comp112292_c0_seq1	L42	68.118667527672	comp53086_c0_seq1	L69	43.8580949182148	comp102369_c0_seq1	L103	29.2532800531208
comp124353_c0_seq1	L18	8.10124291556639	comp112881_c0_seq1	L42	68.118667527672	comp84019_c0_seq1	L69	43.8580949182148	comp105619_c0_seq1	L103	29.2532800531208
comp124697_c0_seq1	L18	8.10124291556639	comp113004_c0_seq1	L42	68.118667527672	comp106590_c0_seq1	L69	47.0883882052149	comp110886_c0_seq1	L103	29.2532800531208
comp127120_c0_seq1	L18	8.10124291556639	comp113864_c0_seq2	L42	68.118667527672	comp108942_c0_seq1	L69	50.3186814922151	comp115562_c0_seq1	L103	29.2532800531208
comp128991_c0_seq1	L18	8.10124291556639	comp114296_c1_seq2	L42	68.118667527672	comp109409_c0_seq1	L69	50.3186814922151	comp115792_c0_seq1	L103	29.2532800531208
comp133258_c0_seq1	L18	8.10124291556639	comp114754_c0_seq1	L42	68.118667527672	comp109498_c0_seq1	L69	50.3186814922151	comp116842_c0_seq1	L103	29.2532800531208
comp133598_c0_seq1	L18	8.10124291556639	comp114870_c0_seq1	L42	68.118667527672	comp111714_c0_seq1	L69	50.3186814922151	comp119196_c0_seq1	L103	29.2532800531208
comp74095_c0_seq1	L18	8.10124291556639	comp116339_c0_seq1	L42	68.118667527672	comp112022_c0_seq1	L69	50.3186814922151	comp122648_c0_seq2	L103	29.2532800531208
comp83822_c0_seq1	L18	8.10124291556639	comp117712_c0_seq2	L42	68.118667527672	comp118060_c0_seq1	L69	50.3186814922151	comp122722_c0_seq1	L103	29.2532800531208
comp95917_c0_seq1	L18	8.10124291556639	comp119749_c0_seq1	L42	68.118667527672	comp119958_c0_seq1	L69	50.3186814922151	comp122739_c0_seq1	L103	29.2532800531208
comp109601_c5_seq1	L18	9.71470594400567	comp119889_c0_seq1	L42	68.118667527672	comp121025_c0_seq1	L69	50.3186814922151	comp52385_c0_seq1	L103	29.2532800531208
comp109726_c1_seq2	L18	9.71470594400567	comp120237_c0_seq1	L42	68.118667527672	comp126977_c0_seq1	L69	50.3186814922151	comp82972_c0_seq1	L103	29.2532800531208
comp111070_c0_seq1	L18	9.71470594400567	comp121140_c1_seq1	L42	68.118667527672	comp128272_c0_seq1	L69	50.3186814922151	comp92726_c0_seq1	L103	29.2532800531208

comp113719_c1_seq1	L18	9.71470594400567	comp123225_c0_seq1	L42	68.118667527672	comp131671_c0_seq3	L69	50.3186814922151	comp96907_c0_seq1	L103	29.2532800531208
comp126378_c0_seq1	L18	9.71470594400567	comp125886_c1_seq1	L42	68.118667527672	comp68914_c0_seq1	L69	50.3186814922151	comp107013_c0_seq1	L104	0
comp131276_c0_seq1	L18	9.71470594400567	comp126268_c1_seq1	L42	68.118667527672	comp73078_c1_seq1	L69	50.3186814922151	comp117601_c0_seq1	L104	0
comp59050_c0_seq1	L18	9.71470594400567	comp127682_c0_seq2	L42	68.118667527672	comp75306_c0_seq1	L69	50.3186814922151	comp127985_c1_seq1	L104	0
comp59583_c0_seq1	L18	22.9163916990181	comp127977_c0_seq1	L42	68.118667527672	comp88609_c0_seq1	L69	50.3186814922151	comp131317_c0_seq1	L104	0
comp106242_c0_seq1	L18	31.0519517098838	comp128259_c0_seq2	L42	68.118667527672	comp90015_c0_seq2	L69	50.3186814922151	comp84536_c0_seq1	L104	0
comp115867_c0_seq1	L18	31.0519517098838	comp128477_c1_seq1	L42	68.118667527672	comp95553_c0_seq1	L69	50.3186814922151	comp112349_c0_seq1	L104	1.61346302843928
comp93255_c0_seq1	L18	31.0519517098838	comp129759_c0_seq1	L42	68.118667527672	comp96518_c0_seq1	L69	50.3186814922151	comp118042_c0_seq1	L104	1.61346302843928
comp106365_c0_seq2	L18	35.9058520709077	comp130873_c0_seq1	L42	68.118667527672	comp96932_c0_seq1	L69	50.3186814922151	comp128454_c0_seq1	L104	1.61346302843928
comp108274_c0_seq1	L18	35.9058520709077	comp131303_c0_seq2	L42	68.118667527672	comp104071_c0_seq1	L69	63.5203672472275	comp129977_c0_seq1	L104	1.61346302843928
comp117327_c0_seq1	L18	35.9058520709077	comp131437_c0_seq1	L42	68.118667527672	comp119985_c0_seq1	L69	63.5203672472275	comp117308_c0_seq2	L104	6.46736338946321
comp121683_c0_seq1	L18	35.9058520709077	comp132019_c0_seq1	L42	68.118667527672	comp108096_c0_seq1	L69	65.1338302756668	comp124207_c1_seq1	L104	6.46736338946321
comp68867_c0_seq1	L18	35.9058520709077	comp133656_c0_seq1	L42	68.118667527672	comp129800_c0_seq1	L69	65.1338302756668	comp99710_c0_seq1	L104	6.46736338946321
comp99041_c0_seq1	L18	35.9058520709077	comp32380_c0_seq1	L42	68.118667527672	comp130675_c0_seq2	L69	65.1338302756668	comp101359_c0_seq1	L104	9.69765667646336
comp42810_c0_seq1	L18	37.519315099347	comp44608_c0_seq1	L42	68.118667527672	comp105652_c0_seq1	L69	69.9877306366907	comp118644_c0_seq1	L104	16.1854365635905
comp57420_c0_seq1	L18	37.519315099347	comp60635_c0_seq1	L42	68.118667527672	comp109170_c0_seq1	L69	69.9877306366907	comp75203_c0_seq1	L104	16.1854365635905
comp65768_c0_seq1	L18	37.519315099347	comp64809_c0_seq1	L42	68.118667527672	comp87390_c1_seq1	L69	69.9877306366907	comp105968_c0_seq1	L104	17.7988995920298
comp72810_c0_seq1	L18	37.519315099347	comp67972_c0_seq1	L42	68.118667527672	comp91129_c0_seq1	L69	69.9877306366907	comp106490_c0_seq1	L104	17.7988995920298
comp87712_c0_seq1	L18	37.519315099347	comp68930_c0_seq1	L42	68.118667527672	comp106956_c0_seq1	L69	73.2180239236909	comp110604_c0_seq1	L104	17.7988995920298
comp104677_c0_seq1	L18	39.1327781277863	comp70945_c0_seq1	L42	68.118667527672	comp112250_c0_seq1	L69	73.2180239236909	comp112425_c0_seq1	L104	17.7988995920298
comp115894_c0_seq1	L18	39.1327781277863	comp72246_c0_seq1	L42	68.118667527672	comp111511_c0_seq1	L69	81.3535839345566	comp113516_c0_seq1	L104	17.7988995920298
comp117038_c0_seq1	L18	39.1327781277863	comp82334_c0_seq1	L42	68.118667527672	comp115280_c1_seq2	L69	81.3535839345566	comp116852_c1_seq1	L104	17.7988995920298
comp126651_c0_seq1	L18	39.1327781277863	comp88143_c0_seq1	L42	68.118667527672	comp115743_c0_seq1	L69	94.555269689569	comp120213_c0_seq1	L104	17.7988995920298
comp126651_c1_seq1	L18	39.1327781277863	comp90569_c0_seq1	L42	68.118667527672	comp122272_c0_seq1	L69	94.555269689569	comp124176_c0_seq1	L104	17.7988995920298
comp89245_c0_seq1	L18	39.1327781277863	comp91226_c0_seq1	L42	68.118667527672	comp127562_c0_seq1	L69	94.555269689569	comp124978_c0_seq2	L104	17.7988995920298
comp100118_c0_seq2	L18	47.268338138652	comp93449_c0_seq1	L42	68.118667527672	comp129180_c0_seq1	L69	94.555269689569	comp56624_c0_seq1	L104	17.7988995920298
comp103394_c0_seq1	L18	47.268338138652	comp96806_c0_seq2	L42	68.118667527672	comp130194_c0_seq1	L69	94.555269689569	comp81636_c0_seq7	L104	17.7988995920298
comp103753_c0_seq1	L18	47.268338138652	comp99977_c0_seq1	L42	68.118667527672	comp68416_c0_seq1	L69	94.555269689569	comp90805_c0_seq1	L104	17.7988995920298
comp105287_c0_seq1	L18	47.268338138652	comp101050_c0_seq1	L43	0	comp84611_c0_seq1	L69	94.555269689569	comp95663_c0_seq1	L104	17.7988995920298

comp107188_c0_seq1	L18	47.268338138652	comp101969_c0_seq1	L43	0	comp97384_c0_seq1	L69	94.555269689569	comp102989_c0_seq1	L104	21.0291928790299
comp115410_c1_seq1	L18	47.268338138652	comp102294_c0_seq1	L43	0	comp106815_c1_seq1	L69	102.690829700435	comp121399_c0_seq1	L104	21.0291928790299
comp117134_c0_seq1	L18	47.268338138652	comp102995_c0_seq1	L43	0	comp129338_c0_seq1	L69	102.690829700435	comp99460_c0_seq1	L105	0
comp122595_c0_seq1	L18	47.268338138652	comp104303_c0_seq1	L43	0	comp130245_c0_seq1	L69	102.690829700435	comp83850_c0_seq1	L105	1.61346302843928
comp125960_c0_seq1	L18	47.268338138652	comp105060_c0_seq1	L43	0	comp102984_c0_seq1	L69	104.304292728874	comp99488_c0_seq1	L105	6.46736338946321
comp132247_c0_seq1	L18	47.268338138652	comp105153_c0_seq2	L43	0	comp103438_c0_seq1	L69	104.304292728874	comp101415_c0_seq1	L105	11.3212637504871
comp42613_c0_seq1	L18	47.268338138652	comp107693_c0_seq2	L43	0	comp120128_c1_seq1	L69	104.304292728874	comp129313_c0_seq1	L105	11.3212637504871
comp44567_c0_seq1	L18	47.268338138652	comp108564_c0_seq5	L43	0	comp124737_c0_seq4	L69	104.304292728874	comp79961_c0_seq1	L105	11.3212637504871
comp63269_c0_seq1	L18	47.268338138652	comp108602_c0_seq1	L43	0	comp131523_c0_seq1	L69	104.304292728874	comp107758_c0_seq1	L106	0
comp68541_c0_seq1	L18	47.268338138652	comp108911_c0_seq1	L43	0	comp111329_c0_seq1	L69	105.917755757313	comp75034_c0_seq1	L106	0
comp73379_c0_seq1	L18	47.268338138652	comp109941_c0_seq1	L43	0	comp118453_c0_seq1	L69	105.917755757313	comp89138_c0_seq1	L106	0
comp85175_c0_seq1	L18	47.268338138652	comp110423_c0_seq1	L43	0	comp120883_c0_seq1	L69	105.917755757313	comp93781_c0_seq1	L106	0
comp85691_c0_seq1	L18	47.268338138652	comp111685_c0_seq3	L43	0	comp126226_c0_seq1	L69	112.40553564444	comp103445_c0_seq1	L106	3.23029328700015
comp85805_c0_seq1	L18	47.268338138652	comp112157_c0_seq1	L43	0	comp100777_c0_seq2	L69	114.01899867288	comp106662_c0_seq1	L106	3.23029328700015
comp86133_c0_seq1	L18	47.268338138652	comp112687_c0_seq1	L43	0	comp103022_c0_seq1	L69	114.01899867288	comp113052_c0_seq1	L106	3.23029328700015
comp90499_c0_seq1	L18	47.268338138652	comp112911_c0_seq1	L43	0	comp112614_c0_seq1	L69	114.01899867288	comp115442_c0_seq1	L106	3.23029328700015
comp90609_c0_seq1	L18	47.268338138652	comp113049_c0_seq1	L43	0	comp59118_c0_seq1	L69	114.01899867288	comp122703_c0_seq2	L106	3.23029328700015
comp92059_c0_seq1	L18	47.268338138652	comp113526_c0_seq1	L43	0	comp81994_c0_seq1	L69	114.01899867288	comp127074_c0_seq1	L106	3.23029328700015
comp94725_c0_seq1	L18	47.268338138652	comp114763_c0_seq1	L43	0	comp87176_c0_seq1	L69	114.01899867288	comp132414_c0_seq1	L106	3.23029328700015
comp94846_c0_seq2	L18	47.268338138652	comp114930_c0_seq3	L43	0	comp90780_c0_seq2	L69	114.01899867288	comp83712_c0_seq1	L106	3.23029328700015
comp96937_c0_seq1	L18	47.268338138652	comp115359_c0_seq4	L43	0	comp97485_c0_seq1	L69	114.01899867288	comp103198_c0_seq1	L106	4.84375631543943
comp97081_c0_seq1	L18	47.268338138652	comp115724_c0_seq1	L43	0	comp110271_c0_seq1	L69	115.632461701319	comp103922_c0_seq1	L106	4.84375631543943
comp99726_c0_seq1	L18	47.268338138652	comp117369_c0_seq1	L43	0	comp112865_c0_seq1	L69	115.632461701319	comp108848_c0_seq1	L106	4.84375631543943
comp107891_c0_seq1	L18	48.8818011670912	comp118352_c0_seq1	L43	0	comp122088_c0_seq1	L69	115.632461701319	comp110753_c2_seq1	L106	4.84375631543943
comp109223_c1_seq1	L18	48.8818011670912	comp119511_c1_seq2	L43	0	comp122471_c0_seq1	L69	115.632461701319	comp111177_c0_seq1	L106	4.84375631543943
comp117690_c1_seq1	L18	48.8818011670912	comp119967_c1_seq3	L43	0	comp124073_c0_seq1	L69	115.632461701319	comp115251_c0_seq1	L106	4.84375631543943
comp119285_c0_seq1	L18	48.8818011670912	comp120725_c1_seq2	L43	0	comp126395_c0_seq1	L69	115.632461701319	comp127657_c1_seq1	L106	4.84375631543943
comp125677_c0_seq2	L18	48.8818011670912	comp122944_c0_seq1	L43	0	comp129347_c0_seq1	L69	115.632461701319	comp130101_c0_seq1	L106	4.84375631543943
comp29265_c0_seq1	L18	48.8818011670912	comp126201_c0_seq1	L43	0	comp131229_c0_seq1	L69	115.632461701319	comp78184_c0_seq1	L106	4.84375631543943

comp63465_c0_seq1	L18	48.8818011670912	comp127127_c0_seq1	L43	0	comp70841_c0_seq1	L69	115.632461701319	comp87459_c0_seq1	L106	4.84375631543943
comp63617_c0_seq1	L18	48.8818011670912	comp129475_c0_seq1	L43	0	comp80069_c0_seq1	L69	115.632461701319	comp90706_c0_seq1	L106	4.84375631543943
comp68038_c0_seq1	L18	48.8818011670912	comp129703_c0_seq1	L43	0	comp95176_c1_seq1	L69	115.632461701319	comp99091_c0_seq1	L106	4.84375631543943
comp76995_c0_seq1	L18	48.8818011670912	comp131885_c0_seq1	L43	0	comp107837_c0_seq1	L69	118.862754988319	comp104639_c0_seq1	L106	6.45721934387871
comp77524_c1_seq1	L18	48.8818011670912	comp132449_c0_seq2	L43	0	comp109652_c0_seq1	L69	118.862754988319	comp106665_c0_seq1	L106	6.45721934387871
comp7994_c0_seq1	L18	48.8818011670912	comp40263_c0_seq1	L43	0	comp111221_c1_seq1	L69	118.862754988319	comp107941_c0_seq1	L106	6.45721934387871
comp84870_c0_seq2	L18	48.8818011670912	comp46985_c0_seq1	L43	0	comp111606_c0_seq1	L69	118.862754988319	comp118471_c0_seq1	L106	6.45721934387871
comp91147_c0_seq1	L18	48.8818011670912	comp57231_c0_seq1	L43	0	comp112416_c0_seq2	L69	118.862754988319	comp118754_c1_seq1	L106	6.45721934387871
comp91958_c0_seq1	L18	48.8818011670912	comp58151_c0_seq1	L43	0	comp115353_c0_seq2	L69	118.862754988319	comp122169_c1_seq2	L106	6.45721934387871
comp92508_c1_seq1	L18	48.8818011670912	comp60723_c0_seq1	L43	0	comp116215_c0_seq1	L69	118.862754988319	comp128150_c0_seq1	L106	6.45721934387871
comp95751_c0_seq1	L18	48.8818011670912	comp68784_c0_seq1	L43	0	comp118241_c0_seq1	L69	118.862754988319	comp88223_c0_seq1	L106	6.45721934387871
comp96958_c0_seq1	L18	48.8818011670912	comp72768_c0_seq1	L43	0	comp129033_c0_seq1	L69	118.862754988319	comp93354_c0_seq1	L106	6.45721934387871
comp100182_c0_seq1	L19	0	comp75773_c0_seq1	L43	0	comp133601_c0_seq1	L69	118.862754988319	comp99592_c0_seq2	L106	6.45721934387871
comp100327_c0_seq1	L19	0	comp80755_c0_seq1	L43	0	comp69057_c0_seq1	L69	118.862754988319	comp104648_c0_seq1	L106	9.68751263087886
comp100900_c1_seq1	L19	0	comp82740_c0_seq1	L43	0	comp82559_c0_seq1	L69	118.862754988319	comp118856_c0_seq2	L106	9.68751263087886
comp101674_c0_seq1	L19	0	comp85464_c0_seq1	L43	0	comp83619_c0_seq1	L69	118.862754988319	comp119561_c0_seq1	L106	9.68751263087886
comp101710_c0_seq1	L19	0	comp87620_c0_seq1	L43	0	comp93491_c0_seq1	L69	118.862754988319	comp120178_c3_seq1	L106	9.68751263087886
comp103770_c0_seq1	L19	0	comp88376_c0_seq1	L43	0	comp97689_c0_seq1	L69	118.862754988319	comp126645_c0_seq1	L106	9.68751263087886
comp103938_c0_seq1	L19	0	comp89147_c0_seq1	L43	0	comp98026_c0_seq1	L69	118.862754988319	comp127597_c1_seq1	L106	9.68751263087886
comp105430_c0_seq1	L19	0	comp89556_c0_seq1	L43	0	comp100621_c0_seq1	L69	122.093048275319	comp127597_c2_seq1	L106	9.68751263087886
comp105562_c0_seq1	L19	0	comp92776_c0_seq1	L43	0	comp101218_c0_seq1	L69	122.093048275319	comp66611_c0_seq1	L106	9.68751263087886
comp105795_c0_seq1	L19	0	comp93816_c0_seq1	L43	0	comp102099_c0_seq1	L69	122.093048275319	comp73691_c0_seq1	L106	9.68751263087886
comp105823_c0_seq1	L19	0	comp94029_c0_seq1	L43	0	comp102176_c1_seq1	L69	122.093048275319	comp93442_c0_seq1	L106	9.68751263087886
comp107386_c0_seq1	L19	0	comp94877_c0_seq1	L43	0	comp108625_c0_seq1	L69	122.093048275319	comp96021_c1_seq1	L106	9.68751263087886
comp108100_c3_seq1	L19	0	comp100300_c0_seq1	L43	4.85390036102393	comp108719_c0_seq1	L69	122.093048275319	comp112205_c0_seq1	L106	22.8891983858913
comp108215_c0_seq1	L19	0	comp106323_c0_seq1	L43	4.85390036102393	comp108732_c0_seq1	L69	122.093048275319	comp112628_c0_seq1	L106	22.8891983858913
comp109455_c0_seq1	L19	0	comp118355_c0_seq1	L43	4.85390036102393	comp109943_c0_seq1	L69	122.093048275319	comp113229_c0_seq2	L106	22.8891983858913
comp109510_c0_seq1	L19	0	comp122442_c0_seq1	L43	4.85390036102393	comp110079_c0_seq1	L69	122.093048275319	comp113664_c1_seq2	L106	22.8891983858913
comp109699_c0_seq1	L19	0	comp123727_c0_seq1	L43	4.85390036102393	comp110842_c0_seq1	L69	122.093048275319	comp115901_c1_seq1	L106	22.8891983858913

comp109823_c0_seq1	L19	0	comp126560_c0_seq1	L43	4.85390036102393	comp113086_c0_seq1	L69	122.093048275319	comp133362_c0_seq1	L106	22.8891983858913
comp110001_c0_seq1	L19	0	comp87744_c1_seq1	L43	4.85390036102393	comp120154_c2_seq1	L69	122.093048275319	comp105269_c0_seq1	L106	26.1194916728914
comp110191_c0_seq1	L19	0	comp93693_c0_seq1	L43	4.85390036102393	comp120318_c0_seq1	L69	122.093048275319	comp114843_c0_seq1	L106	26.1194916728914
comp112339_c0_seq1	L19	0	comp101184_c0_seq1	L44	0	comp123176_c0_seq1	L69	122.093048275319	comp119626_c0_seq1	L106	26.1194916728914
comp112483_c0_seq1	L19	0	comp101184_c1_seq1	L44	0	comp123618_c0_seq2	L69	122.093048275319	comp122704_c0_seq1	L106	26.1194916728914
comp112788_c0_seq2	L19	0	comp101802_c0_seq1	L44	0	comp123970_c0_seq1	L69	122.093048275319	comp127501_c0_seq7	L106	26.1194916728914
comp113549_c0_seq1	L19	0	comp102205_c0_seq1	L44	0	comp127990_c0_seq2	L69	122.093048275319	comp63516_c0_seq1	L106	26.1194916728914
comp114322_c0_seq1	L19	0	comp104950_c0_seq1	L44	0	comp130683_c0_seq1	L69	122.093048275319	comp82018_c0_seq1	L106	26.1194916728914
comp116757_c0_seq1	L19	0	comp106539_c1_seq1	L44	0	comp29043_c0_seq1	L69	122.093048275319	comp95273_c0_seq1	L106	26.1194916728914
comp116996_c0_seq1	L19	0	comp107444_c0_seq1	L44	0	comp32189_c0_seq1	L69	122.093048275319	comp97208_c1_seq1	L106	26.1194916728914
comp117608_c0_seq1	L19	0	comp107749_c1_seq1	L44	0	comp61742_c0_seq1	L69	122.093048275319	comp101475_c1_seq1	L106	29.3497849598916
comp117938_c0_seq1	L19	0	comp107845_c0_seq1	L44	0	comp65501_c0_seq1	L69	122.093048275319	comp107597_c0_seq1	L106	29.3497849598916
comp118218_c0_seq1	L19	0	comp108306_c0_seq1	L44	0	comp72194_c0_seq1	L69	122.093048275319	comp109902_c0_seq1	L106	29.3497849598916
comp119688_c0_seq1	L19	0	comp110149_c0_seq1	L44	0	comp75153_c0_seq1	L69	122.093048275319	comp120124_c0_seq1	L106	29.3497849598916
comp120472_c0_seq1	L19	0	comp110255_c0_seq1	L44	0	comp81047_c0_seq1	L69	122.093048275319	comp124327_c3_seq1	L106	29.3497849598916
comp120500_c0_seq1	L19	0	comp112241_c0_seq2	L44	0	comp84658_c0_seq1	L69	122.093048275319	comp124327_c4_seq1	L106	29.3497849598916
comp120611_c1_seq1	L19	0	comp112471_c0_seq1	L44	0	comp88407_c1_seq1	L69	122.093048275319	comp59612_c0_seq1	L106	29.3497849598916
comp122400_c1_seq1	L19	0	comp113237_c0_seq1	L44	0	comp91572_c0_seq1	L69	122.093048275319	comp86987_c0_seq1	L106	30.9632479883309
comp124442_c0_seq1	L19	0	comp113250_c0_seq1	L44	0	comp91757_c0_seq1	L69	122.093048275319	comp96050_c0_seq1	L106	30.9632479883309
comp124952_c0_seq1	L19	0	comp113905_c0_seq1	L44	0	comp92108_c0_seq1	L69	122.093048275319	comp96830_c0_seq1	L106	30.9632479883309
comp125171_c0_seq1	L19	0	comp114207_c0_seq1	L44	0	comp93805_c0_seq1	L69	122.093048275319	comp102706_c0_seq1	L106	32.5767110167701
comp125601_c0_seq1	L19	0	comp115432_c0_seq1	L44	0	comp95616_c0_seq1	L69	122.093048275319	comp109443_c0_seq1	L106	32.5767110167701
comp125656_c0_seq2	L19	0	comp116958_c1_seq1	L44	0	comp96613_c0_seq1	L69	122.093048275319	comp109443_c1_seq1	L106	32.5767110167701
comp125697_c0_seq1	L19	0	comp117226_c0_seq1	L44	0	comp104442_c0_seq1	L70	0	comp116156_c0_seq1	L106	32.5767110167701
comp126178_c1_seq5	L19	0	comp118055_c0_seq2	L44	0	comp54150_c0_seq1	L70	0	comp118026_c0_seq1	L106	32.5767110167701
comp126671_c0_seq1	L19	0	comp118737_c0_seq1	L44	0	comp65317_c0_seq1	L70	0	comp121395_c1_seq1	L106	32.5767110167701
comp127070_c1_seq1	L19	0	comp118846_c0_seq1	L44	0	comp65372_c0_seq1	L70	0	comp121395_c2_seq1	L106	32.5767110167701
comp128311_c1_seq1	L19	0	comp121052_c0_seq1	L44	0	comp76588_c0_seq1	L70	0	comp127590_c0_seq1	L106	32.5767110167701
comp128410_c0_seq1	L19	0	comp121120_c2_seq1	L44	0	comp83071_c0_seq1	L70	0	comp115170_c0_seq1	L106	35.8070043037703

comp128755_c0_seq1	L19	0	comp121336_c0_seq1	L44	0	comp86407_c0_seq1	L70	0	comp118263_c0_seq1	L106	35.8070043037703
comp20602_c0_seq1	L19	0	comp121659_c0_seq1	L44	0	comp92266_c0_seq1	L70	0	comp121495_c0_seq1	L106	35.8070043037703
comp29545_c0_seq1	L19	0	comp122190_c0_seq1	L44	0	comp107085_c2_seq1	L70	1.61346302843928	comp122207_c0_seq6	L106	35.8070043037703
comp30507_c0_seq1	L19	0	comp122280_c0_seq1	L44	0	comp84064_c0_seq1	L70	1.61346302843928	comp123807_c0_seq1	L106	35.8070043037703
comp42788_c0_seq1	L19	0	comp123017_c1_seq1	L44	0	comp87460_c0_seq1	L70	1.61346302843928	comp126805_c1_seq1	L106	35.8070043037703
comp43252_c0_seq1	L19	0	comp123051_c1_seq1	L44	0	comp89085_c0_seq1	L70	1.61346302843928	comp129105_c0_seq1	L106	35.8070043037703
comp53119_c0_seq1	L19	0	comp125146_c1_seq1	L44	0	comp93364_c0_seq2	L70	1.61346302843928	comp129220_c0_seq1	L106	35.8070043037703
comp57017_c0_seq1	L19	0	comp125379_c0_seq1	L44	0	comp109474_c0_seq1	L70	3.22692605687856	comp132644_c1_seq1	L106	35.8070043037703
comp62942_c0_seq1	L19	0	comp125478_c1_seq1	L44	0	comp97785_c0_seq1	L70	3.22692605687856	comp120374_c0_seq1	L106	39.0372975907704
comp65525_c0_seq1	L19	0	comp126910_c0_seq1	L44	0	comp100631_c0_seq1	L70	4.84038908531784	comp120423_c0_seq1	L106	39.0372975907704
comp65720_c0_seq1	L19	0	comp129389_c0_seq1	L44	0	comp115962_c0_seq1	L70	4.84038908531784	comp121548_c0_seq1	L106	39.0372975907704
comp66410_c0_seq1	L19	0	comp130474_c3_seq1	L44	0	comp97869_c0_seq1	L70	4.84038908531784	comp62878_c0_seq1	L106	39.0372975907704
comp70318_c0_seq1	L19	0	comp131583_c0_seq1	L44	0	comp100947_c0_seq1	L70	6.45385211375712	comp103286_c0_seq1	L106	40.6507606192097
comp70778_c0_seq1	L19	0	comp132541_c1_seq1	L44	0	comp103339_c0_seq1	L70	6.45385211375712	comp107326_c0_seq1	L106	40.6507606192097
comp73708_c0_seq1	L19	0	comp23606_c0_seq1	L44	0	comp104673_c0_seq1	L70	6.45385211375712	comp112252_c0_seq1	L106	40.6507606192097
comp73734_c0_seq1	L19	0	comp28930_c0_seq1	L44	0	comp106325_c0_seq1	L70	6.45385211375712	comp112320_c0_seq1	L106	40.6507606192097
comp75082_c0_seq1	L19	0	comp45287_c0_seq1	L44	0	comp109007_c0_seq1	L70	6.45385211375712	comp115777_c0_seq1	L106	40.6507606192097
comp75643_c0_seq1	L19	0	comp47528_c0_seq1	L44	0	comp111246_c0_seq1	L70	6.45385211375712	comp119778_c0_seq1	L106	40.6507606192097
comp79194_c0_seq1	L19	0	comp53711_c0_seq1	L44	0	comp120548_c1_seq1	L70	6.45385211375712	comp120405_c0_seq1	L106	40.6507606192097
comp79256_c0_seq1	L19	0	comp55429_c0_seq1	L44	0	comp90150_c0_seq1	L70	6.45385211375712	comp120759_c0_seq1	L106	40.6507606192097
comp79354_c0_seq1	L19	0	comp67793_c0_seq1	L44	0	comp119576_c0_seq1	L70	9.68414540075727	comp120985_c0_seq2	L106	40.6507606192097
comp82950_c0_seq1	L19	0	comp68748_c0_seq1	L44	0	comp128729_c0_seq2	L70	9.68414540075727	comp121076_c0_seq1	L106	40.6507606192097
comp87471_c0_seq1	L19	0	comp71368_c0_seq2	L44	0	comp71901_c0_seq1	L70	9.68414540075727	comp121199_c0_seq1	L106	40.6507606192097
comp90130_c0_seq2	L19	0	comp74426_c0_seq1	L44	0	comp102811_c0_seq1	L70	12.9144386877574	comp122068_c0_seq1	L106	40.6507606192097
comp93856_c0_seq1	L19	0	comp78404_c1_seq3	L44	0	comp103316_c0_seq1	L70	12.9144386877574	comp123636_c1_seq1	L106	40.6507606192097
comp94627_c0_seq1	L19	0	comp79675_c0_seq1	L44	0	comp107559_c0_seq1	L70	12.9144386877574	comp124783_c0_seq2	L106	40.6507606192097
comp95001_c0_seq1	L19	0	comp79796_c0_seq1	L44	0	comp109277_c0_seq1	L70	12.9144386877574	comp125929_c0_seq1	L106	40.6507606192097
comp95398_c0_seq1	L19	0	comp83713_c0_seq1	L44	0	comp110642_c0_seq1	L70	12.9144386877574	comp127787_c0_seq1	L106	40.6507606192097
comp95613_c0_seq1	L19	0	comp85054_c0_seq1	L44	0	comp117745_c0_seq1	L70	12.9144386877574	comp130031_c0_seq1	L106	40.6507606192097



comp96821_c0_seq1	L19	0	comp85673_c0_seq1	L44	0	comp118276_c0_seq1	L70	12.9144386877574	comp130129_c0_seq1	L106	40.6507606192097
comp96953_c0_seq1	L19	0	comp87057_c0_seq1	L44	0	comp126237_c0_seq1	L70	12.9144386877574	comp130485_c0_seq1	L106	40.6507606192097
comp97855_c0_seq1	L19	0	comp87956_c0_seq1	L44	0	comp127378_c0_seq1	L70	12.9144386877574	comp132896_c0_seq1	L106	40.6507606192097
comp98894_c0_seq1	L19	0	comp90921_c0_seq1	L44	0	comp128803_c2_seq1	L70	12.9144386877574	comp84404_c0_seq1	L106	40.6507606192097
comp99893_c0_seq1	L19	0	comp91875_c0_seq2	L44	0	comp129048_c0_seq2	L70	12.9144386877574	comp102466_c0_seq1	L106	42.264223647649
comp105259_c0_seq1	L19	4.85390036102393	comp92549_c0_seq1	L44	0	comp130148_c0_seq2	L70	12.9144386877574	comp104056_c0_seq1	L106	42.264223647649
comp117101_c0_seq1	L19	4.85390036102393	comp93534_c0_seq1	L44	0	comp131927_c1_seq1	L70	12.9144386877574	comp108344_c0_seq1	L106	42.264223647649
comp97217_c0_seq1	L19	4.85390036102393	comp93857_c0_seq1	L44	0	comp84363_c0_seq1	L70	12.9144386877574	comp122631_c0_seq1	L106	42.264223647649
comp114489_c0_seq1	L19	9.70780072204787	comp93918_c0_seq1	L44	0	comp84652_c0_seq1	L70	12.9144386877574	comp129095_c0_seq1	L106	42.264223647649
comp130385_c0_seq1	L19	9.70780072204787	comp94683_c0_seq1	L44	0	comp88748_c0_seq1	L70	12.9144386877574	comp28413_c0_seq1	L106	42.264223647649
comp131149_c0_seq1	L19	9.70780072204787	comp96599_c1_seq1	L44	0	comp97278_c0_seq1	L70	12.9144386877574	comp86998_c0_seq1	L106	42.264223647649
comp86963_c0_seq1	L19	9.70780072204787	comp97214_c0_seq2	L44	0	comp100883_c0_seq1	L71	0	comp112799_c0_seq1	L106	43.8776866760883
comp104662_c0_seq1	L19	11.3212637504871	comp97243_c0_seq2	L44	0	comp101141_c0_seq1	L71	0	comp117968_c1_seq1	L106	43.8776866760883
comp106223_c0_seq2	L19	11.3212637504871	comp99351_c0_seq1	L44	0	comp101469_c0_seq2	L71	0	comp111096_c0_seq1	L106	45.4911497045276
comp108357_c0_seq1	L19	11.3212637504871	comp99358_c0_seq1	L44	0	comp107634_c0_seq1	L71	0	comp114385_c0_seq1	L106	45.4911497045276
comp112092_c0_seq1	L19	11.3212637504871	comp28328_c0_seq1	L44	1.61346302843928	comp116758_c0_seq1	L71	0	comp115617_c0_seq1	L106	45.4911497045276
comp116372_c0_seq1	L19	11.3212637504871	comp114240_c1_seq1	L44	4.84375631543943	comp128380_c0_seq2	L71	0	comp116560_c0_seq1	L106	45.4911497045276
comp121085_c0_seq4	L19	11.3212637504871	comp113587_c0_seq1	L44	6.45721934387871	comp27964_c0_seq1	L71	0	comp120527_c0_seq1	L106	45.4911497045276
comp121867_c0_seq1	L19	11.3212637504871	comp40479_c0_seq1	L44	6.45721934387871	comp32436_c0_seq1	L71	0	comp121620_c0_seq1	L106	45.4911497045276
comp113304_c0_seq1	L19	12.9347267789264	comp59689_c0_seq1	L44	6.45721934387871	comp39923_c0_seq1	L71	0	comp123318_c1_seq1	L106	45.4911497045276
comp113304_c1_seq1	L19	12.9347267789264	comp60688_c0_seq1	L44	6.45721934387871	comp43463_c0_seq1	L71	0	comp127748_c0_seq1	L106	45.4911497045276
comp130150_c0_seq1	L19	12.9347267789264	comp87653_c0_seq1	L44	6.45721934387871	comp44584_c0_seq1	L71	0	comp130786_c0_seq3	L106	45.4911497045276
comp131241_c1_seq2	L19	12.9347267789264	comp90980_c0_seq1	L44	6.45721934387871	comp46785_c0_seq1	L71	0	comp133177_c0_seq1	L106	45.4911497045276
comp131281_c0_seq1	L19	12.9347267789264	comp96864_c0_seq1	L44	6.45721934387871	comp66454_c0_seq1	L71	0	comp133188_c0_seq1	L106	45.4911497045276
comp132810_c0_seq1	L19	12.9347267789264	comp100647_c0_seq1	L44	8.07068237231799	comp67960_c0_seq1	L71	0	comp133356_c0_seq1	L106	45.4911497045276
comp84893_c0_seq1	L19	12.9347267789264	comp106572_c0_seq1	L44	8.07068237231799	comp75438_c0_seq1	L71	0	comp99389_c0_seq1	L106	45.4911497045276
comp87362_c0_seq1	L19	12.9347267789264	comp116420_c0_seq1	L44	8.07068237231799	comp79268_c0_seq1	L71	0	comp99407_c0_seq1	L106	45.4911497045276
comp93256_c0_seq1	L19	12.9347267789264	comp117644_c0_seq1	L44	8.07068237231799	comp80002_c0_seq1	L71	0	comp99543_c0_seq1	L106	45.4911497045276
comp107076_c0_seq1	L19	14.5481898073657	comp54569_c0_seq1	L44	8.07068237231799	comp80826_c0_seq1	L71	0	comp112129_c0_seq1	L107	0

comp108040_c0_seq1	L19	14.5481898073657	comp96530_c0_seq1	L44	8.07068237231799	comp86202_c0_seq1	L71	0	comp124542_c0_seq1	L107	0
comp109956_c0_seq1	L19	14.5481898073657	comp97188_c0_seq1	L44	8.07068237231799	comp88990_c0_seq1	L71	0	comp131528_c0_seq1	L107	0
comp111373_c0_seq1	L19	14.5481898073657	comp105254_c0_seq1	L44	12.9245827333419	comp90377_c0_seq1	L71	0	comp69798_c0_seq1	L107	0
comp111449_c0_seq1	L19	14.5481898073657	comp111474_c0_seq1	L44	12.9245827333419	comp95343_c0_seq2	L71	0	comp101689_c0_seq1	L107	4.85390036102393
comp112140_c0_seq1	L19	14.5481898073657	comp114425_c0_seq1	L44	12.9245827333419	comp98023_c0_seq1	L71	0	comp102869_c0_seq1	L107	4.85390036102393
comp123536_c0_seq1	L19	14.5481898073657	comp115276_c0_seq1	L44	12.9245827333419	comp105394_c0_seq1	L71	1.61346302843928	comp105736_c0_seq1	L107	4.85390036102393
comp125174_c0_seq1	L19	14.5481898073657	comp116990_c1_seq1	L44	12.9245827333419	comp105394_c1_seq1	L71	1.61346302843928	comp105962_c0_seq1	L107	4.85390036102393
comp129071_c0_seq2	L19	14.5481898073657	comp124341_c0_seq1	L44	12.9245827333419	comp110776_c1_seq2	L71	1.61346302843928	comp106880_c0_seq1	L107	4.85390036102393
comp91591_c0_seq2	L19	14.5481898073657	comp126616_c0_seq1	L44	12.9245827333419	comp117729_c0_seq1	L71	1.61346302843928	comp106938_c0_seq1	L107	4.85390036102393
comp115526_c0_seq1	L19	17.7784830943659	comp74574_c0_seq1	L44	12.9245827333419	comp118327_c0_seq1	L71	1.61346302843928	comp107520_c0_seq1	L107	4.85390036102393
comp95435_c0_seq1	L19	17.7784830943659	comp97304_c0_seq1	L44	12.9245827333419	comp118635_c0_seq1	L71	1.61346302843928	comp108579_c0_seq1	L107	4.85390036102393
comp109563_c0_seq2	L19	30.9801688493783	comp99015_c1_seq1	L44	12.9245827333419	comp91771_c0_seq1	L71	1.61346302843928	comp109546_c1_seq2	L107	4.85390036102393
comp111470_c0_seq1	L19	30.9801688493783	comp99863_c0_seq3	L44	12.9245827333419	comp92980_c1_seq1	L71	1.61346302843928	comp112606_c0_seq1	L107	4.85390036102393
comp124994_c0_seq1	L19	30.9801688493783	comp105990_c0_seq2	L44	14.5380457617812	comp94578_c0_seq1	L71	1.61346302843928	comp119714_c0_seq1	L107	4.85390036102393
comp127068_c0_seq1	L19	30.9801688493783	comp109665_c0_seq1	L44	14.5380457617812	comp95116_c0_seq1	L71	1.61346302843928	comp119982_c0_seq2	L107	4.85390036102393
comp130421_c1_seq1	L19	30.9801688493783	comp110321_c0_seq1	L44	14.5380457617812	comp98613_c0_seq1	L71	1.61346302843928	comp119995_c0_seq1	L107	4.85390036102393
comp132138_c0_seq1	L19	30.9801688493783	comp112087_c0_seq1	L44	14.5380457617812	comp119642_c0_seq1	L71	3.22692605687856	comp121493_c0_seq2	L107	4.85390036102393
comp106901_c0_seq1	L19	34.2104621363784	comp118577_c0_seq2	L44	14.5380457617812	comp126902_c0_seq1	L71	3.22692605687856	comp122148_c0_seq1	L107	4.85390036102393
comp109075_c0_seq1	L19	34.2104621363784	comp118924_c0_seq2	L44	14.5380457617812	comp102476_c0_seq1	L71	6.45721934387871	comp125368_c0_seq1	L107	4.85390036102393
comp110344_c0_seq1	L19	34.2104621363784	comp124399_c0_seq1	L44	14.5380457617812	comp103389_c0_seq1	L71	6.45721934387871	comp125426_c2_seq1	L107	4.85390036102393
comp110344_c1_seq1	L19	34.2104621363784	comp125797_c0_seq1	L44	14.5380457617812	comp104966_c1_seq1	L71	6.45721934387871	comp125666_c3_seq1	L107	4.85390036102393
comp100123_c1_seq1	L19	37.4407554233786	comp127492_c0_seq1	L44	14.5380457617812	comp106941_c0_seq1	L71	6.45721934387871	comp126242_c0_seq1	L107	4.85390036102393
comp101525_c0_seq1	L19	37.4407554233786	comp78589_c0_seq1	L44	14.5380457617812	comp110133_c0_seq1	L71	6.45721934387871	comp127465_c0_seq1	L107	4.85390036102393
comp108385_c0_seq3	L19	37.4407554233786	comp90645_c0_seq1	L44	14.5380457617812	comp113356_c0_seq1	L71	6.45721934387871	comp127836_c0_seq1	L107	4.85390036102393
comp133174_c0_seq2	L19	37.4407554233786	comp92077_c0_seq1	L44	14.5380457617812	comp120220_c0_seq1	L71	6.45721934387871	comp130384_c0_seq1	L107	4.85390036102393
comp79467_c0_seq1	L19	37.4407554233786	comp92225_c0_seq1	L44	14.5380457617812	comp122915_c0_seq1	L71	6.45721934387871	comp132521_c0_seq1	L107	4.85390036102393
comp80580_c0_seq1	L19	37.4407554233786	comp108363_c2_seq1	L44	16.1515087902205	comp123994_c0_seq1	L71	6.45721934387871	comp132859_c0_seq1	L107	4.85390036102393
comp83808_c0_seq1	L19	37.4407554233786	comp127035_c2_seq2	L44	16.1515087902205	comp124113_c0_seq1	L71	6.45721934387871	comp134761_c0_seq1	L107	4.85390036102393
comp100355_c0_seq1	L20	0	comp58448_c0_seq1	L44	16.1515087902205	comp124930_c0_seq1	L71	6.45721934387871	comp25763_c0_seq1	L107	4.85390036102393

comp100955_c0_seq2	L20	0	comp60669_c0_seq1	L44	16.1515087902205	comp125324_c0_seq3	L71	6.45721934387871	comp46517_c0_seq1	L107	4.85390036102393
comp105914_c0_seq1	L20	0	comp91878_c1_seq1	L44	16.1515087902205	comp131687_c0_seq1	L71	6.45721934387871	comp50450_c0_seq1	L107	4.85390036102393
comp107556_c0_seq1	L20	0	comp101059_c0_seq1	L44	27.6398170246815	comp42485_c0_seq1	L71	6.45721934387871	comp58672_c0_seq1	L107	4.85390036102393
comp109608_c0_seq1	L20	0	comp106484_c0_seq1	L44	27.6398170246815	comp63156_c0_seq1	L71	6.45721934387871	comp64741_c0_seq1	L107	4.85390036102393
comp111592_c0_seq2	L20	0	comp113894_c0_seq1	L44	27.6398170246815	comp82952_c0_seq1	L71	6.45721934387871	comp70776_c0_seq1	L107	4.85390036102393
comp111641_c0_seq1	L20	0	comp119278_c1_seq1	L44	27.6398170246815	comp86909_c0_seq1	L71	6.45721934387871	comp74497_c0_seq1	L107	4.85390036102393
comp112572_c0_seq1	L20	0	comp126207_c0_seq1	L44	27.6398170246815	comp87708_c0_seq1	L71	6.45721934387871	comp78849_c0_seq1	L107	4.85390036102393
comp113030_c0_seq1	L20	0	comp96094_c0_seq1	L44	27.6398170246815	comp90072_c0_seq1	L71	6.45721934387871	comp81105_c0_seq1	L107	4.85390036102393
comp113230_c2_seq1	L20	0	comp97074_c0_seq1	L44	27.6398170246815	comp91733_c0_seq1	L71	6.45721934387871	comp83542_c0_seq1	L107	4.85390036102393
comp113572_c1_seq1	L20	0	comp111801_c0_seq1	L44	40.8415027796939	comp96615_c0_seq1	L71	6.45721934387871	comp84043_c1_seq1	L107	4.85390036102393
comp116077_c0_seq1	L20	0	comp102632_c0_seq1	L44	42.4549658081332	comp108050_c0_seq1	L71	16.2582715382793	comp84407_c0_seq1	L107	4.85390036102393
comp117548_c0_seq1	L20	0	comp104554_c0_seq2	L44	42.4549658081332	comp108213_c0_seq2	L71	16.2582715382793	comp87038_c1_seq1	L107	4.85390036102393
comp117567_c0_seq1	L20	0	comp104980_c0_seq1	L44	42.4549658081332	comp112223_c0_seq1	L71	16.2582715382793	comp87475_c0_seq1	L107	4.85390036102393
comp118115_c1_seq1	L20	0	comp109035_c0_seq1	L44	42.4549658081332	comp133172_c0_seq1	L71	16.2582715382793	comp88371_c0_seq1	L107	4.85390036102393
comp118309_c2_seq12	L20	0	comp109998_c0_seq3	L44	42.4549658081332	comp42173_c0_seq1	L71	16.2582715382793	comp93290_c0_seq1	L107	4.85390036102393
comp118564_c0_seq1	L20	0	comp111949_c0_seq1	L44	42.4549658081332	comp84572_c0_seq1	L71	16.2582715382793	comp94007_c0_seq1	L107	4.85390036102393
comp119843_c0_seq1	L20	0	comp117670_c0_seq1	L44	42.4549658081332	comp97182_c0_seq1	L71	16.2582715382793	comp94295_c0_seq2	L107	4.85390036102393
comp120408_c0_seq1	L20	0	comp117801_c1_seq1	L44	42.4549658081332	comp102362_c0_seq1	L71	17.8717345667186	comp97047_c0_seq1	L107	4.85390036102393
comp121271_c1_seq1	L20	0	comp119604_c0_seq1	L44	42.4549658081332	comp104339_c0_seq2	L71	17.8717345667186	comp97851_c0_seq1	L107	4.85390036102393
comp121944_c1_seq1	L20	0	comp120030_c0_seq1	L44	42.4549658081332	comp110223_c0_seq1	L71	17.8717345667186	comp105961_c0_seq1	L108	0
comp121975_c0_seq2	L20	0	comp121375_c0_seq1	L44	42.4549658081332	comp111711_c0_seq1	L71	17.8717345667186	comp112107_c0_seq1	L108	0
comp122356_c0_seq1	L20	0	comp121766_c1_seq1	L44	42.4549658081332	comp112692_c0_seq1	L71	17.8717345667186	comp112611_c1_seq2	L108	0
comp123987_c0_seq1	L20	0	comp123256_c0_seq1	L44	42.4549658081332	comp115507_c1_seq1	L71	17.8717345667186	comp119892_c0_seq1	L108	0
comp126751_c0_seq1	L20	0	comp125581_c0_seq1	L44	42.4549658081332	comp123371_c0_seq1	L71	17.8717345667186	comp121475_c0_seq1	L108	0
comp127348_c2_seq1	L20	0	comp133079_c0_seq1	L44	42.4549658081332	comp127680_c1_seq10	L71	17.8717345667186	comp126031_c2_seq1	L108	0
comp60846_c0_seq1	L20	0	comp77783_c0_seq1	L44	42.4549658081332	comp128731_c0_seq1	L71	17.8717345667186	comp128470_c0_seq1	L108	0
comp64959_c0_seq1	L20	0	comp78254_c0_seq1	L44	42.4549658081332	comp132127_c1_seq1	L71	17.8717345667186	comp76222_c0_seq1	L108	0
comp70029_c0_seq1	L20	0	comp90721_c0_seq2	L44	42.4549658081332	comp132127_c2_seq1	L71	17.8717345667186	comp105911_c0_seq1	L108	1.61346302843928
comp72365_c0_seq1	L20	0	comp107356_c0_seq1	L44	45.6852590951333	comp132298_c0_seq2	L71	17.8717345667186	comp112983_c0_seq3	L108	1.61346302843928

comp77814_c0_seq1	L20	0	comp121946_c1_seq1	L44	45.6852590951333	comp108076_c0_seq1	L71	21.1020278537187	comp115707_c0_seq1	L108	1.61346302843928
comp78126_c0_seq1	L20	0	comp122627_c0_seq1	L44	45.6852590951333	comp112624_c0_seq1	L71	21.1020278537187	comp115931_c0_seq1	L108	1.61346302843928
comp78946_c0_seq2	L20	0	comp126313_c0_seq2	L44	45.6852590951333	comp120729_c0_seq1	L71	21.1020278537187	comp116088_c0_seq1	L108	1.61346302843928
comp86635_c0_seq1	L20	0	comp128861_c0_seq1	L44	45.6852590951333	comp121325_c0_seq1	L71	21.1020278537187	comp101730_c0_seq1	L108	11.4145152228399
comp87148_c0_seq1	L20	0	comp80485_c0_seq1	L44	45.6852590951333	comp125103_c0_seq1	L71	21.1020278537187	comp102732_c0_seq1	L108	11.4145152228399
comp87278_c0_seq1	L20	0	comp91501_c0_seq1	L44	45.6852590951333	comp130728_c0_seq2	L71	21.1020278537187	comp104365_c0_seq1	L108	11.4145152228399
comp88950_c1_seq3	L20	0	comp123351_c0_seq10	L44	47.2987221235726	comp131726_c0_seq1	L71	21.1020278537187	comp104416_c0_seq1	L108	11.4145152228399
comp89005_c0_seq2	L20	0	comp124015_c0_seq1	L44	47.2987221235726	comp132987_c0_seq3	L71	21.1020278537187	comp104714_c0_seq1	L108	11.4145152228399
comp91045_c0_seq1	L20	0	comp41702_c0_seq1	L44	47.2987221235726	comp40945_c0_seq1	L71	21.1020278537187	comp104987_c0_seq1	L108	11.4145152228399
comp91098_c0_seq2	L20	0	comp116962_c0_seq1	L44	48.9121851520119	comp46369_c0_seq1	L71	21.1020278537187	comp106782_c0_seq1	L108	11.4145152228399
comp92489_c0_seq1	L20	0	comp86006_c1_seq1	L44	48.9121851520119	comp84413_c0_seq1	L71	21.1020278537187	comp107593_c0_seq1	L108	11.4145152228399
comp94845_c0_seq1	L20	0	comp115849_c0_seq1	L44	50.5256481804512	comp113855_c0_seq1	L71	24.3323211407189	comp107746_c0_seq1	L108	11.4145152228399
comp96743_c0_seq1	L20	0	comp116335_c1_seq1	L44	50.5256481804512	comp124798_c0_seq1	L71	24.3323211407189	comp109261_c1_seq1	L108	11.4145152228399
comp96754_c0_seq1	L20	0	comp118271_c0_seq1	L44	50.5256481804512	comp127619_c0_seq1	L71	24.3323211407189	comp110996_c1_seq1	L108	11.4145152228399
comp97190_c0_seq4	L20	0	comp120005_c0_seq1	L44	50.5256481804512	comp76594_c0_seq1	L71	24.3323211407189	comp111174_c0_seq1	L108	11.4145152228399
comp99494_c0_seq1	L20	0	comp130501_c0_seq1	L44	52.1391112088904	comp118103_c1_seq1	L71	25.9457841691582	comp111206_c0_seq1	L108	11.4145152228399
comp99662_c0_seq1	L20	0	comp106416_c0_seq1	L44	63.6274194433514	comp118307_c0_seq1	L71	25.9457841691582	comp116302_c0_seq1	L108	11.4145152228399
comp107324_c0_seq1	L20	1.61346302843928	comp116988_c0_seq6	L44	63.6274194433514	comp121403_c0_seq1	L71	25.9457841691582	comp120309_c0_seq3	L108	11.4145152228399
comp117731_c0_seq1	L20	1.61346302843928	comp125645_c0_seq1	L44	63.6274194433514	comp44424_c0_seq1	L71	25.9457841691582	comp120754_c0_seq2	L108	11.4145152228399
comp122509_c0_seq1	L20	1.61346302843928	comp69842_c0_seq1	L44	63.6274194433514	comp63827_c0_seq1	L71	25.9457841691582	comp121549_c1_seq1	L108	11.4145152228399
comp124876_c0_seq1	L20	1.61346302843928	comp91495_c0_seq1	L44	63.6274194433514	comp91477_c0_seq1	L71	25.9457841691582	comp122537_c0_seq1	L108	11.4145152228399
comp130490_c0_seq1	L20	1.61346302843928	comp94424_c0_seq1	L44	63.6274194433514	comp110362_c0_seq1	L71	27.5592471975974	comp122822_c0_seq1	L108	11.4145152228399
comp75161_c0_seq1	L20	1.61346302843928	comp121127_c0_seq1	L44	65.2408824717907	comp115219_c0_seq1	L71	27.5592471975974	comp123830_c1_seq1	L108	11.4145152228399
comp95973_c0_seq1	L20	1.61346302843928	comp127250_c0_seq1	L44	65.2408824717907	comp118450_c0_seq2	L71	27.5592471975974	comp123864_c0_seq1	L108	11.4145152228399
comp113883_c1_seq1	L20	3.22692605687856	comp130462_c0_seq1	L44	65.2408824717907	comp122784_c0_seq1	L71	27.5592471975974	comp125010_c0_seq1	L108	11.4145152228399
comp115983_c0_seq1	L20	3.22692605687856	comp112491_c0_seq1	L44	66.85434550023	comp123083_c0_seq1	L71	27.5592471975974	comp125382_c0_seq1	L108	11.4145152228399
comp123989_c0_seq1	L20	3.22692605687856	comp125325_c0_seq1	L44	66.85434550023	comp133500_c2_seq1	L71	27.5592471975974	comp126377_c2_seq1	L108	11.4145152228399
comp102309_c0_seq1	L20	6.45721934387871	comp131215_c0_seq2	L44	66.85434550023	comp102716_c0_seq1	L71	32.4131475586214	comp126784_c0_seq1	L108	11.4145152228399
comp104328_c0_seq1	L20	6.45721934387871	comp131469_c0_seq1	L44	66.85434550023	comp111895_c0_seq1	L71	38.9009274457485	comp126994_c0_seq1	L108	11.4145152228399

comp105801_c0_seq1	L20	6.45721934387871	comp133496_c0_seq1	L44	66.85434550023	comp115943_c0_seq1	L71	38.9009274457485	comp128884_c0_seq1	L108	11.4145152228399
comp110198_c0_seq1	L20	6.45721934387871	comp47122_c0_seq1	L44	66.85434550023	comp117686_c0_seq2	L71	38.9009274457485	comp130744_c0_seq1	L108	11.4145152228399
comp113831_c0_seq1	L20	6.45721934387871	comp113933_c0_seq2	L44	70.0846387872302	comp89733_c0_seq1	L71	38.9009274457485	comp131047_c0_seq1	L108	11.4145152228399
comp115471_c0_seq1	L20	6.45721934387871	comp104952_c0_seq1	L44	71.6981018156694	comp109216_c0_seq1	L71	42.1312207327486	comp131513_c1_seq2	L108	11.4145152228399
comp117493_c0_seq1	L20	6.45721934387871	comp113960_c0_seq1	L44	71.6981018156694	comp111013_c0_seq1	L71	42.1312207327486	comp132544_c0_seq1	L108	11.4145152228399
comp118405_c0_seq1	L20	6.45721934387871	comp115136_c0_seq1	L44	71.6981018156694	comp118729_c0_seq1	L71	42.1312207327486	comp132891_c0_seq1	L108	11.4145152228399
comp127223_c0_seq1	L20	6.45721934387871	comp115782_c1_seq1	L44	71.6981018156694	comp125275_c0_seq2	L71	42.1312207327486	comp133313_c0_seq1	L108	11.4145152228399
comp133106_c0_seq2	L20	6.45721934387871	comp115782_c2_seq1	L44	71.6981018156694	comp128823_c0_seq1	L71	42.1312207327486	comp61495_c0_seq1	L108	11.4145152228399
comp54839_c0_seq1	L20	6.45721934387871	comp116668_c1_seq1	L44	71.6981018156694	comp79381_c0_seq1	L71	42.1312207327486	comp67819_c0_seq1	L108	11.4145152228399
comp84669_c0_seq1	L20	6.45721934387871	comp117056_c1_seq1	L44	71.6981018156694	comp100881_c0_seq1	L71	45.3615140197488	comp72174_c0_seq1	L108	11.4145152228399
comp86778_c0_seq1	L20	6.45721934387871	comp119371_c0_seq1	L44	71.6981018156694	comp103048_c0_seq1	L71	45.3615140197488	comp74003_c0_seq1	L108	11.4145152228399
comp89963_c0_seq1	L20	6.45721934387871	comp120108_c0_seq1	L44	71.6981018156694	comp122734_c1_seq1	L71	45.3615140197488	comp83795_c0_seq1	L108	11.4145152228399
comp92188_c0_seq1	L20	6.45721934387871	comp122395_c0_seq1	L44	71.6981018156694	comp123889_c0_seq1	L71	45.3615140197488	comp87203_c0_seq1	L108	11.4145152228399
comp96885_c0_seq1	L20	6.45721934387871	comp122851_c0_seq1	L44	71.6981018156694	comp129203_c0_seq2	L71	45.3615140197488	comp90158_c0_seq1	L108	11.4145152228399
comp102516_c0_seq1	L20	8.07068237231799	comp124452_c0_seq1	L44	71.6981018156694	comp132239_c0_seq1	L71	45.3615140197488	comp92751_c0_seq1	L108	11.4145152228399
comp114073_c0_seq1	L20	8.07068237231799	comp125690_c2_seq1	L44	71.6981018156694	comp132958_c0_seq2	L71	45.3615140197488	comp93207_c0_seq1	L108	11.4145152228399
comp115940_c0_seq1	L20	8.07068237231799	comp125975_c0_seq4	L44	71.6981018156694	comp96855_c0_seq1	L71	45.3615140197488	comp94042_c0_seq1	L108	11.4145152228399
comp124479_c0_seq1	L20	8.07068237231799	comp126102_c0_seq1	L44	71.6981018156694	comp108829_c0_seq1	L71	46.9749770481881	comp94058_c0_seq1	L108	11.4145152228399
comp130874_c0_seq1	L20	8.07068237231799	comp127162_c0_seq1	L44	71.6981018156694	comp115959_c0_seq1	L71	46.9749770481881	comp103056_c0_seq1	L108	14.64480850984
comp131581_c0_seq1	L20	8.07068237231799	comp133763_c1_seq1	L44	71.6981018156694	comp119470_c0_seq1	L71	46.9749770481881	comp104282_c0_seq1	L108	14.64480850984
comp92316_c0_seq2	L20	8.07068237231799	comp91367_c0_seq1	L44	71.6981018156694	comp124650_c0_seq1	L71	46.9749770481881	comp105208_c0_seq1	L108	14.64480850984
comp116802_c0_seq1	L20	11.3009756593181	comp103113_c1_seq2	L44	74.9283951026696	comp130376_c0_seq1	L71	46.9749770481881	comp105754_c0_seq1	L108	14.64480850984
comp119501_c0_seq1	L20	11.3009756593181	comp104703_c0_seq1	L44	74.9283951026696	comp131662_c0_seq1	L71	46.9749770481881	comp109875_c1_seq1	L108	14.64480850984
comp120698_c0_seq1	L20	11.3009756593181	comp110610_c1_seq1	L44	74.9283951026696	comp113835_c0_seq1	L71	53.4627569353152	comp25965_c0_seq1	L108	14.64480850984
comp126728_c0_seq1	L20	11.3009756593181	comp113171_c0_seq1	L44	74.9283951026696	comp125632_c1_seq1	L71	53.4627569353152	comp57809_c0_seq1	L108	14.64480850984
comp104858_c0_seq1	L20	14.5312689463183	comp113918_c0_seq1	L44	74.9283951026696	comp108610_c0_seq1	L71	56.6930502223153	comp58392_c0_seq1	L108	14.64480850984
comp106920_c0_seq1	L20	14.5312689463183	comp114631_c0_seq1	L44	74.9283951026696	comp117431_c0_seq4	L71	56.6930502223153	comp67237_c0_seq1	L108	14.64480850984
comp107599_c0_seq1	L20	14.5312689463183	comp115096_c0_seq1	L44	74.9283951026696	comp126865_c0_seq1	L71	56.6930502223153	comp75211_c0_seq1	L108	14.64480850984
comp116902_c0_seq1	L20	14.5312689463183	comp115803_c0_seq1	L44	74.9283951026696	comp131908_c0_seq2	L71	56.6930502223153	comp82043_c0_seq1	L108	14.64480850984

comp119019_c1_seq1	L20	14.5312689463183	comp116460_c0_seq1	L44	74.9283951026696	comp92124_c0_seq1	L71	56.6930502223153	comp84143_c0_seq1	L108	14.64480850984
comp122478_c1_seq2	L20	14.5312689463183	comp120411_c0_seq1	L44	74.9283951026696	comp117856_c0_seq1	L71	63.1808301094424	comp87280_c2_seq1	L108	14.64480850984
comp123718_c0_seq2	L20	14.5312689463183	comp121958_c0_seq1	L44	74.9283951026696	comp133128_c0_seq2	L71	63.1808301094424	comp87357_c0_seq1	L108	14.64480850984
comp130139_c1_seq2	L20	14.5312689463183	comp122458_c0_seq1	L44	74.9283951026696	comp87196_c1_seq1	L71	63.1808301094424	comp88783_c0_seq1	L108	14.64480850984
comp89376_c0_seq1	L20	14.5312689463183	comp126738_c2_seq1	L44	74.9283951026696	comp110948_c0_seq1	L71	71.3163901203081	comp91726_c0_seq1	L108	14.64480850984
comp102028_c0_seq1	L20	16.1447319747576	comp26850_c0_seq1	L44	74.9283951026696	comp126569_c2_seq1	L71	79.4519501311738	comp25981_c0_seq1	L109	0
comp102654_c0_seq1	L20	16.1447319747576	comp101580_c0_seq1	L44	79.7822954636935	comp134028_c0_seq1	L71	79.4519501311738	comp43269_c0_seq1	L109	0
comp108721_c0_seq1	L20	16.1447319747576	comp101666_c0_seq1	L44	79.7822954636935	comp95756_c0_seq2	L71	79.4519501311738	comp67894_c0_seq1	L109	0
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comp120363_c1_seq1	L20	16.1447319747576	comp103729_c0_seq1	L44	79.7822954636935	comp110005_c0_seq1	L71	87.5875101420395	comp101946_c0_seq1	L109	1.61346302843928
comp125788_c0_seq1	L20	16.1447319747576	comp108941_c0_seq1	L44	79.7822954636935	comp118780_c0_seq1	L71	87.5875101420395	comp105110_c0_seq1	L109	1.61346302843928
comp127804_c0_seq1	L20	16.1447319747576	comp113065_c0_seq2	L44	79.7822954636935	comp131549_c1_seq1	L71	87.5875101420395	comp105624_c0_seq1	L109	1.61346302843928
comp129290_c0_seq1	L20	16.1447319747576	comp113275_c0_seq1	L44	79.7822954636935	comp83956_c0_seq1	L71	87.5875101420395	comp105727_c0_seq1	L109	1.61346302843928
comp132598_c0_seq1	L20	16.1447319747576	comp114551_c0_seq1	L44	79.7822954636935	comp101515_c0_seq1	L71	100.789195897052	comp106107_c0_seq1	L109	1.61346302843928
comp86426_c0_seq1	L20	16.1447319747576	comp119304_c0_seq1	L44	79.7822954636935	comp107034_c0_seq1	L71	100.789195897052	comp106368_c0_seq1	L109	1.61346302843928
comp108698_c0_seq1	L20	17.7581950031968	comp121233_c0_seq1	L44	79.7822954636935	comp107490_c0_seq1	L71	100.789195897052	comp108019_c0_seq1	L109	1.61346302843928
comp121507_c1_seq1	L20	17.7581950031968	comp121507_c2_seq2	L44	79.7822954636935	comp109838_c0_seq2	L71	100.789195897052	comp108789_c0_seq1	L109	1.61346302843928
comp125244_c0_seq1	L20	17.7581950031968	comp123086_c0_seq1	L44	79.7822954636935	comp112064_c0_seq1	L71	100.789195897052	comp110442_c0_seq1	L109	1.61346302843928
comp127354_c0_seq1	L20	17.7581950031968	comp125919_c0_seq1	L44	79.7822954636935	comp114762_c0_seq1	L71	100.789195897052	comp110673_c0_seq1	L109	1.61346302843928
comp130162_c0_seq1	L20	17.7581950031968	comp126892_c0_seq1	L44	79.7822954636935	comp118709_c0_seq1	L71	100.789195897052	comp112091_c0_seq1	L109	1.61346302843928
comp132642_c0_seq1	L20	17.7581950031968	comp127663_c2_seq2	L44	79.7822954636935	comp119768_c1_seq1	L71	100.789195897052	comp112582_c0_seq1	L109	1.61346302843928
comp69895_c0_seq1	L20	17.7581950031968	comp127880_c0_seq2	L44	79.7822954636935	comp120180_c0_seq2	L71	100.789195897052	comp112751_c0_seq1	L109	1.61346302843928
comp85280_c0_seq1	L20	17.7581950031968	comp128513_c0_seq1	L44	79.7822954636935	comp121706_c0_seq1	L71	100.789195897052	comp112999_c0_seq1	L109	1.61346302843928
comp94378_c0_seq1	L20	17.7581950031968	comp130198_c0_seq1	L44	79.7822954636935	comp121874_c0_seq1	L71	100.789195897052	comp113329_c0_seq1	L109	1.61346302843928
comp99301_c0_seq1	L20	17.7581950031968	comp131369_c0_seq1	L44	79.7822954636935	comp124450_c0_seq1	L71	100.789195897052	comp115859_c0_seq1	L109	1.61346302843928
comp109490_c0_seq1	L20	19.3716580316361	comp83348_c0_seq1	L44	79.7822954636935	comp125407_c0_seq2	L71	100.789195897052	comp115951_c0_seq1	L109	1.61346302843928
comp115403_c0_seq1	L20	19.3716580316361	comp89234_c0_seq1	L44	79.7822954636935	comp125847_c0_seq1	L71	100.789195897052	comp116445_c0_seq1	L109	1.61346302843928
comp116091_c0_seq1	L20	19.3716580316361	comp108250_c1_seq1	L44	81.3957584921328	comp127234_c0_seq1	L71	100.789195897052	comp116449_c0_seq1	L109	1.61346302843928
comp123547_c0_seq1	L20	19.3716580316361	comp131115_c0_seq1	L44	81.3957584921328	comp127413_c2_seq1	L71	100.789195897052	comp117128_c0_seq1	L109	1.61346302843928

comp128701_c0_seq1	L20	19.3716580316361	comp91694_c0_seq1	L44	81.3957584921328	comp129907_c0_seq2	L71	100.789195897052	comp117780_c0_seq1	L109	1.61346302843928
comp36979_c0_seq1	L20	19.3716580316361	comp101878_c0_seq1	L44	83.0092215205721	comp129949_c0_seq1	L71	100.789195897052	comp121374_c0_seq1	L109	1.61346302843928
comp64960_c0_seq1	L20	19.3716580316361	comp110534_c0_seq1	L44	83.0092215205721	comp133035_c0_seq1	L71	100.789195897052	comp121947_c0_seq1	L109	1.61346302843928
comp65157_c0_seq1	L20	19.3716580316361	comp116566_c0_seq1	L44	83.0092215205721	comp79506_c0_seq1	L71	100.789195897052	comp122573_c0_seq2	L109	1.61346302843928
comp100133_c0_seq1	L20	24.2255583926601	comp121742_c0_seq1	L44	83.0092215205721	comp131532_c2_seq1	L71	102.402658925491	comp123663_c1_seq1	L109	1.61346302843928
comp116175_c0_seq2	L20	24.2255583926601	comp131639_c0_seq1	L44	83.0092215205721	comp100636_c1_seq1	L71	104.016121953931	comp126813_c1_seq1	L109	1.61346302843928
comp131376_c0_seq2	L20	24.2255583926601	comp102830_c0_seq1	L44	87.863121881596	comp109107_c0_seq1	L71	104.016121953931	comp127256_c0_seq1	L109	1.61346302843928
comp133703_c0_seq1	L20	24.2255583926601	comp117762_c0_seq1	L44	87.863121881596	comp116216_c0_seq1	L71	104.016121953931	comp128136_c0_seq2	L109	1.61346302843928
comp116785_c0_seq1	L20	25.8390214210993	comp32838_c0_seq1	L44	87.863121881596	comp119079_c0_seq1	L71	104.016121953931	comp130641_c0_seq2	L109	1.61346302843928
comp122796_c0_seq1	L20	25.8390214210993	comp74217_c0_seq1	L44	87.863121881596	comp122776_c0_seq1	L71	104.016121953931	comp130701_c0_seq1	L109	1.61346302843928
comp127772_c0_seq1	L20	25.8390214210993	comp100778_c0_seq8	L44	89.4765849100353	comp112154_c0_seq1	L71	107.246415240931	comp130896_c1_seq1	L109	1.61346302843928
comp128802_c0_seq1	L20	25.8390214210993	comp102024_c0_seq1	L44	89.4765849100353	comp125819_c0_seq1	L71	107.246415240931	comp131078_c0_seq1	L109	1.61346302843928
comp131676_c0_seq1	L20	25.8390214210993	comp106257_c0_seq1	L44	89.4765849100353	comp101507_c0_seq1	L71	108.85987826937	comp133713_c0_seq1	L109	1.61346302843928
comp128327_c0_seq1	L20	32.3268013082265	comp108825_c0_seq1	L44	89.4765849100353	comp109313_c0_seq1	L71	108.85987826937	comp41600_c0_seq1	L109	1.61346302843928
comp72957_c0_seq1	L20	32.3268013082265	comp112806_c0_seq1	L44	89.4765849100353	comp109931_c0_seq1	L71	108.85987826937	comp71483_c0_seq1	L109	1.61346302843928
comp77508_c0_seq1	L20	32.3268013082265	comp113841_c0_seq1	L44	89.4765849100353	comp114685_c2_seq1	L71	108.85987826937	comp79749_c0_seq1	L109	1.61346302843928
comp116892_c0_seq1	L21	0	comp115589_c0_seq1	L44	89.4765849100353	comp116866_c0_seq1	L71	108.85987826937	comp81148_c0_seq1	L109	1.61346302843928
comp119540_c1_seq1	L21	0	comp117336_c0_seq4	L44	89.4765849100353	comp120792_c0_seq1	L71	108.85987826937	comp82448_c0_seq1	L109	1.61346302843928
comp127792_c0_seq1	L21	0	comp117899_c0_seq1	L44	89.4765849100353	comp121302_c0_seq1	L71	108.85987826937	comp82666_c0_seq1	L109	1.61346302843928
comp128757_c0_seq1	L21	0	comp120101_c0_seq1	L44	89.4765849100353	comp123330_c0_seq1	L71	108.85987826937	comp83932_c0_seq2	L109	1.61346302843928
comp130045_c0_seq1	L21	0	comp124185_c0_seq1	L44	89.4765849100353	comp124290_c0_seq1	L71	108.85987826937	comp84988_c0_seq1	L109	1.61346302843928
comp133364_c0_seq1	L21	1.61346302843928	comp61261_c0_seq1	L44	89.4765849100353	comp128312_c2_seq2	L71	108.85987826937	comp85211_c0_seq1	L109	1.61346302843928
comp101768_c0_seq1	L21	3.22692605687856	comp64950_c0_seq1	L44	89.4765849100353	comp131977_c1_seq1	L71	108.85987826937	comp85565_c0_seq1	L109	1.61346302843928
comp133150_c1_seq1	L21	3.22692605687856	comp66101_c0_seq1	L44	89.4765849100353	comp65447_c0_seq1	L71	108.85987826937	comp87104_c0_seq1	L109	1.61346302843928
comp87788_c0_seq1	L21	3.22692605687856	comp70173_c0_seq1	L44	89.4765849100353	comp80675_c2_seq1	L71	108.85987826937	comp88853_c0_seq3	L109	1.61346302843928
comp116399_c0_seq1	L21	8.08082641790249	comp74670_c0_seq1	L44	89.4765849100353	comp93882_c0_seq1	L71	108.85987826937	comp91879_c0_seq1	L109	1.61346302843928
comp124075_c0_seq1	L21	8.08082641790249	comp80937_c0_seq1	L44	89.4765849100353	comp95292_c0_seq1	L71	108.85987826937	comp93921_c0_seq1	L109	1.61346302843928
comp126552_c0_seq1	L21	8.08082641790249	comp82438_c0_seq1	L44	89.4765849100353	comp99862_c0_seq1	L71	108.85987826937	comp94929_c0_seq1	L109	1.61346302843928
comp127513_c0_seq1	L21	8.08082641790249	comp85424_c0_seq1	L44	89.4765849100353	comp104020_c0_seq1	L71	110.473341297809	comp96217_c0_seq1	L109	1.61346302843928

comp115705_c0_seq1	L21	9.69428944634177	comp86870_c0_seq1	L44	89.4765849100353	comp104366_c0_seq1	L71	110.473341297809	comp96844_c1_seq1	L109	1.61346302843928
comp102030_c0_seq1	L21	19.4953416407424	comp90441_c0_seq1	L44	89.4765849100353	comp105262_c0_seq1	L71	110.473341297809	comp96882_c0_seq1	L109	1.61346302843928
comp119961_c0_seq1	L21	19.4953416407424	comp91859_c0_seq1	L44	89.4765849100353	comp108276_c0_seq1	L71	110.473341297809	comp97196_c0_seq3	L109	1.61346302843928
comp120837_c0_seq1	L21	19.4953416407424	comp99125_c0_seq1	L44	89.4765849100353	comp109693_c0_seq1	L71	110.473341297809	comp98165_c0_seq3	L109	1.61346302843928
comp122132_c0_seq2	L21	19.4953416407424	comp99125_c1_seq1	L44	89.4765849100353	comp109773_c0_seq1	L71	110.473341297809	comp98755_c0_seq1	L109	1.61346302843928
comp126394_c0_seq2	L21	19.4953416407424	comp99125_c3_seq2	L44	89.4765849100353	comp112746_c0_seq1	L71	110.473341297809	comp99921_c0_seq1	L109	1.61346302843928
comp126889_c0_seq1	L21	19.4953416407424	comp100309_c1_seq1	L44	91.0900479384746	comp114604_c0_seq2	L71	110.473341297809	comp99921_c1_seq1	L109	1.61346302843928
comp127176_c1_seq1	L21	19.4953416407424	comp102399_c0_seq1	L44	91.0900479384746	comp116556_c1_seq5	L71	110.473341297809	comp99972_c0_seq2	L109	1.61346302843928
comp128248_c0_seq1	L21	19.4953416407424	comp109329_c0_seq1	L44	91.0900479384746	comp124280_c0_seq1	L71	110.473341297809	comp104200_c0_seq1	L109	6.46736338946321
comp131133_c0_seq2	L21	19.4953416407424	comp114067_c0_seq1	L44	91.0900479384746	comp125785_c0_seq1	L71	110.473341297809	comp109952_c0_seq1	L109	6.46736338946321
comp32430_c0_seq1	L21	19.4953416407424	comp128856_c1_seq1	L44	91.0900479384746	comp128225_c0_seq1	L71	110.473341297809	comp110995_c0_seq1	L109	6.46736338946321
comp71477_c0_seq1	L21	19.4953416407424	comp41873_c0_seq1	L44	91.0900479384746	comp128962_c0_seq1	L71	110.473341297809	comp115638_c0_seq1	L109	6.46736338946321
comp86824_c0_seq1	L21	19.4953416407424	comp51714_c0_seq1	L44	91.0900479384746	comp130358_c0_seq1	L71	110.473341297809	comp118096_c0_seq1	L109	6.46736338946321
comp95564_c0_seq1	L21	19.4953416407424	comp69510_c0_seq1	L44	91.0900479384746	comp70659_c0_seq1	L71	110.473341297809	comp118970_c0_seq1	L109	6.46736338946321
comp107673_c0_seq1	L21	21.1088046691816	comp93939_c0_seq1	L44	91.0900479384746	comp73406_c0_seq1	L71	110.473341297809	comp120897_c0_seq1	L109	6.46736338946321
comp108885_c1_seq1	L21	21.1088046691816	comp95706_c0_seq1	L44	91.0900479384746	comp74720_c0_seq1	L71	110.473341297809	comp122450_c0_seq1	L109	6.46736338946321
comp116256_c0_seq1	L21	21.1088046691816	comp99013_c0_seq1	L44	91.0900479384746	comp75781_c0_seq1	L71	110.473341297809	comp44949_c0_seq1	L109	6.46736338946321
comp116675_c0_seq1	L21	21.1088046691816	comp111528_c0_seq1	L45	0	comp83157_c0_seq1	L71	110.473341297809	comp72344_c0_seq1	L109	6.46736338946321
comp118252_c0_seq1	L21	21.1088046691816	comp113372_c0_seq1	L45	0	comp91554_c0_seq1	L71	110.473341297809	comp74375_c0_seq1	L109	6.46736338946321
comp121831_c0_seq1	L21	21.1088046691816	comp114396_c0_seq1	L45	0	comp92658_c0_seq1	L71	110.473341297809	comp89440_c0_seq1	L109	6.46736338946321
comp124349_c0_seq1	L21	21.1088046691816	comp115896_c0_seq1	L45	0	comp94942_c0_seq1	L71	110.473341297809	comp91075_c0_seq1	L109	6.46736338946321
comp125705_c0_seq2	L21	21.1088046691816	comp117236_c0_seq1	L45	0	comp107789_c0_seq2	L71	112.086804326249	comp92230_c0_seq1	L109	6.46736338946321
comp127458_c0_seq1	L21	21.1088046691816	comp119527_c0_seq1	L45	0	comp109667_c0_seq1	L71	112.086804326249	comp109299_c0_seq1	L110	0
comp128316_c0_seq1	L21	21.1088046691816	comp121590_c1_seq2	L45	0	comp112215_c0_seq1	L71	112.086804326249	comp115591_c0_seq1	L110	0
comp129472_c0_seq1	L21	21.1088046691816	comp128619_c0_seq1	L45	0	comp90069_c0_seq1	L71	112.086804326249	comp127612_c0_seq4	L110	0
comp131092_c0_seq2	L21	21.1088046691816	comp129172_c1_seq1	L45	0	comp94547_c0_seq1	L71	112.086804326249	comp133244_c0_seq1	L110	0
comp131873_c0_seq2	L21	21.1088046691816	comp133513_c0_seq1	L45	0	comp95886_c1_seq1	L71	112.086804326249	comp113182_c0_seq1	L110	8.1355600108657
comp27789_c0_seq1	L21	21.1088046691816	comp73224_c0_seq1	L45	0	comp96893_c0_seq1	L71	112.086804326249	comp117590_c0_seq1	L110	8.1355600108657
comp96823_c0_seq1	L21	21.1088046691816	comp82831_c1_seq1	L45	0	comp101383_c0_seq1	L72	0	comp118608_c0_seq1	L110	8.1355600108657



comp99694_c0_seq1	L21	21.1088046691816	comp96814_c0_seq1	L45	0	comp102151_c0_seq1	L72	0	comp123901_c0_seq1	L110	8.1355600108657
comp125826_c0_seq1	L21	25.9627050302056	comp107308_c0_seq1	L45	4.85390036102393	comp107213_c0_seq1	L72	0	comp93648_c0_seq1	L110	8.1355600108657
comp126935_c0_seq1	L21	25.9627050302056	comp116478_c0_seq1	L45	4.85390036102393	comp107802_c0_seq1	L72	0	comp110666_c0_seq1	L110	9.74902303930498
comp132186_c0_seq1	L21	25.9627050302056	comp124827_c0_seq1	L45	4.85390036102393	comp124129_c0_seq1	L72	0	comp120952_c0_seq1	L110	9.74902303930498
comp132186_c1_seq1	L21	25.9627050302056	comp126828_c0_seq2	L45	4.85390036102393	comp124478_c0_seq1	L72	0	comp125081_c0_seq1	L110	9.74902303930498
comp96255_c0_seq1	L21	25.9627050302056	comp109939_c0_seq4	L45	12.9894603718896	comp130822_c0_seq1	L72	0	comp103543_c0_seq1	L110	12.9793163263051
comp102584_c0_seq1	L21	27.5761680586449	comp113591_c0_seq1	L45	12.9894603718896	comp86693_c0_seq1	L72	0	comp108994_c0_seq1	L110	12.9793163263051
comp102831_c0_seq2	L21	27.5761680586449	comp117285_c0_seq1	L45	12.9894603718896	comp93821_c0_seq1	L72	0	comp111114_c0_seq1	L110	12.9793163263051
comp107094_c0_seq1	L21	27.5761680586449	comp117285_c1_seq1	L45	12.9894603718896	comp96397_c1_seq1	L72	0	comp119178_c0_seq3	L110	12.9793163263051
comp107431_c0_seq1	L21	27.5761680586449	comp122666_c0_seq1	L45	12.9894603718896	comp97305_c0_seq1	L72	0	comp122748_c0_seq1	L110	12.9793163263051
comp112912_c0_seq1	L21	27.5761680586449	comp123567_c0_seq1	L45	12.9894603718896	comp104392_c1_seq1	L72	1.61346302843928	comp126999_c0_seq1	L110	12.9793163263051
comp116527_c0_seq1	L21	27.5761680586449	comp124868_c0_seq1	L45	12.9894603718896	comp106301_c1_seq1	L72	1.61346302843928	comp134008_c0_seq1	L110	12.9793163263051
comp117406_c0_seq1	L21	27.5761680586449	comp129340_c0_seq1	L45	12.9894603718896	comp107186_c0_seq1	L72	1.61346302843928	comp91382_c0_seq3	L110	12.9793163263051
comp120277_c0_seq1	L21	27.5761680586449	comp53382_c0_seq1	L45	12.9894603718896	comp107887_c0_seq1	L72	1.61346302843928	comp101993_c0_seq1	L110	14.5927793547444
comp122613_c0_seq1	L21	27.5761680586449	comp82609_c0_seq1	L45	12.9894603718896	comp107979_c0_seq1	L72	1.61346302843928	comp101993_c1_seq1	L110	14.5927793547444
comp122830_c0_seq1	L21	27.5761680586449	comp95218_c0_seq2	L45	12.9894603718896	comp109436_c0_seq1	L72	1.61346302843928	comp117947_c2_seq5	L110	14.5927793547444
comp123553_c0_seq1	L21	27.5761680586449	comp99619_c2_seq5	L45	12.9894603718896	comp117060_c0_seq1	L72	1.61346302843928	comp126981_c0_seq2	L110	14.5927793547444
comp123667_c0_seq1	L21	27.5761680586449	comp110184_c0_seq1	L45	24.4777686063506	comp117773_c0_seq1	L72	1.61346302843928	comp129217_c0_seq1	L110	14.5927793547444
comp124796_c0_seq1	L21	27.5761680586449	comp115648_c0_seq1	L45	24.4777686063506	comp118219_c0_seq1	L72	1.61346302843928	comp88823_c0_seq1	L110	14.5927793547444
comp127762_c0_seq1	L21	27.5761680586449	comp120239_c0_seq1	L45	24.4777686063506	comp120838_c0_seq1	L72	1.61346302843928	comp128604_c0_seq1	L110	16.2062423831837
comp127797_c0_seq3	L21	27.5761680586449	comp124112_c0_seq1	L45	24.4777686063506	comp121027_c1_seq2	L72	1.61346302843928	comp130511_c0_seq1	L110	16.2062423831837
comp127968_c0_seq1	L21	27.5761680586449	comp84561_c0_seq1	L45	24.4777686063506	comp124661_c1_seq1	L72	1.61346302843928	comp108203_c1_seq2	L111	0
comp129314_c0_seq1	L21	27.5761680586449	comp90024_c0_seq1	L45	24.4777686063506	comp125346_c0_seq6	L72	1.61346302843928	comp111414_c0_seq1	L111	0
comp129466_c0_seq1	L21	27.5761680586449	comp122541_c0_seq1	L45	26.0912316347899	comp127277_c0_seq1	L72	1.61346302843928	comp112683_c0_seq1	L111	0
comp131357_c0_seq1	L21	27.5761680586449	comp111541_c0_seq1	L45	27.7046946632292	comp131853_c0_seq1	L72	1.61346302843928	comp115246_c0_seq1	L111	0
comp131736_c1_seq2	L21	27.5761680586449	comp112420_c0_seq1	L45	27.7046946632292	comp132122_c0_seq1	L72	1.61346302843928	comp122730_c0_seq2	L111	0
comp73321_c0_seq1	L21	27.5761680586449	comp116912_c0_seq1	L45	27.7046946632292	comp133419_c0_seq1	L72	1.61346302843928	comp128111_c0_seq1	L111	0
comp86830_c0_seq2	L21	27.5761680586449	comp131338_c0_seq1	L45	29.3181576916685	comp63959_c0_seq1	L72	1.61346302843928	comp133389_c0_seq1	L111	0
comp100137_c3_seq1	L21	29.1896310870841	comp93767_c0_seq1	L45	32.5484509786686	comp70060_c0_seq2	L72	1.61346302843928	comp134125_c0_seq1	L111	0

comp105123_c0_seq1	L21	29.1896310870841	comp103634_c0_seq1	L45	34.1619140071079	comp71596_c0_seq2	L72	1.61346302843928	comp14373_c0_seq1	L111	0
comp107059_c0_seq1	L21	29.1896310870841	comp103896_c0_seq1	L45	34.1619140071079	comp83963_c0_seq1	L72	1.61346302843928	comp16778_c0_seq1	L111	0
comp107646_c1_seq1	L21	29.1896310870841	comp106206_c0_seq1	L45	34.1619140071079	comp95515_c0_seq1	L72	1.61346302843928	comp78255_c0_seq1	L111	0
comp110349_c0_seq1	L21	29.1896310870841	comp110093_c0_seq1	L45	34.1619140071079	comp99197_c0_seq1	L72	1.61346302843928	comp90143_c0_seq3	L111	0
comp110435_c0_seq1	L21	29.1896310870841	comp112833_c0_seq2	L45	34.1619140071079	comp99303_c0_seq1	L72	1.61346302843928	comp102953_c0_seq1	L111	1.61346302843928
comp112844_c0_seq1	L21	29.1896310870841	comp113447_c0_seq1	L45	34.1619140071079	comp100643_c0_seq1	L72	3.22692605687856	comp104372_c0_seq1	L111	1.61346302843928
comp116604_c0_seq1	L21	29.1896310870841	comp115243_c0_seq1	L45	34.1619140071079	comp101101_c0_seq1	L72	3.22692605687856	comp116873_c0_seq1	L111	1.61346302843928
comp117611_c1_seq1	L21	29.1896310870841	comp117837_c0_seq1	L45	34.1619140071079	comp101610_c0_seq1	L72	3.22692605687856	comp122439_c0_seq2	L111	1.61346302843928
comp123575_c1_seq2	L21	29.1896310870841	comp120451_c0_seq1	L45	34.1619140071079	comp103711_c1_seq1	L72	3.22692605687856	comp123017_c0_seq1	L111	1.61346302843928
comp124013_c1_seq1	L21	29.1896310870841	comp120664_c1_seq1	L45	34.1619140071079	comp106642_c0_seq1	L72	3.22692605687856	comp123209_c0_seq1	L111	1.61346302843928
comp124681_c0_seq1	L21	29.1896310870841	comp121477_c0_seq1	L45	34.1619140071079	comp116087_c0_seq1	L72	3.22692605687856	comp123392_c0_seq1	L111	1.61346302843928
comp125042_c0_seq1	L21	29.1896310870841	comp122608_c1_seq1	L45	34.1619140071079	comp121713_c0_seq1	L72	3.22692605687856	comp126144_c0_seq3	L111	1.61346302843928
comp130304_c0_seq1	L21	29.1896310870841	comp123251_c0_seq1	L45	34.1619140071079	comp124210_c1_seq1	L72	3.22692605687856	comp126955_c2_seq3	L111	1.61346302843928
comp130304_c1_seq1	L21	29.1896310870841	comp124651_c0_seq1	L45	34.1619140071079	comp63707_c0_seq1	L72	3.22692605687856	comp132789_c0_seq1	L111	1.61346302843928
comp31718_c0_seq1	L21	29.1896310870841	comp124749_c0_seq1	L45	34.1619140071079	comp66054_c0_seq1	L72	3.22692605687856	comp25569_c0_seq1	L111	1.61346302843928
comp51964_c1_seq1	L21	29.1896310870841	comp124877_c0_seq1	L45	34.1619140071079	comp80266_c0_seq1	L72	3.22692605687856	comp77300_c0_seq1	L111	1.61346302843928
comp57971_c0_seq1	L21	29.1896310870841	comp125084_c0_seq1	L45	34.1619140071079	comp92098_c0_seq1	L72	3.22692605687856	comp108460_c0_seq1	L111	9.74902303930498
comp61929_c0_seq1	L21	29.1896310870841	comp129761_c0_seq1	L45	34.1619140071079	comp97078_c0_seq2	L72	3.22692605687856	comp112370_c0_seq1	L111	9.74902303930498
comp68722_c0_seq1	L21	29.1896310870841	comp130067_c0_seq1	L45	34.1619140071079	comp123148_c0_seq2	L73	0	comp118005_c0_seq1	L111	9.74902303930498
comp70400_c0_seq1	L21	29.1896310870841	comp130457_c0_seq1	L45	34.1619140071079	comp89018_c0_seq1	L73	1.61346302843928	comp125660_c0_seq2	L111	9.74902303930498
comp72798_c0_seq1	L21	29.1896310870841	comp131394_c0_seq1	L45	34.1619140071079	comp104546_c0_seq1	L73	8.10124291556639	comp132789_c1_seq1	L111	9.74902303930498
comp77320_c0_seq2	L21	29.1896310870841	comp131724_c1_seq1	L45	34.1619140071079	comp120362_c0_seq2	L73	8.10124291556639	comp97099_c0_seq1	L111	9.74902303930498
comp77664_c1_seq1	L21	29.1896310870841	comp132635_c0_seq1	L45	34.1619140071079	comp125528_c1_seq1	L73	8.10124291556639	comp98399_c2_seq1	L111	9.74902303930498
comp80011_c0_seq1	L21	29.1896310870841	comp46875_c0_seq1	L45	34.1619140071079	comp93981_c0_seq1	L73	8.10124291556639	comp110186_c0_seq1	L111	11.3624860677443
comp85795_c0_seq1	L21	29.1896310870841	comp61551_c0_seq1	L45	34.1619140071079	comp107997_c0_seq1	L73	12.9551432765903	comp110705_c0_seq1	L111	11.3624860677443
comp88234_c0_seq1	L21	29.1896310870841	comp86231_c0_seq1	L45	34.1619140071079	comp108233_c0_seq1	L73	12.9551432765903	comp113103_c0_seq3	L111	11.3624860677443
comp91131_c0_seq1	L21	29.1896310870841	comp99847_c0_seq1	L45	34.1619140071079	comp100659_c0_seq1	L73	19.4429231637174	comp113459_c0_seq1	L111	11.3624860677443
comp91425_c0_seq1	L21	29.1896310870841	comp100434_c0_seq1	L45	37.3922072941081	comp104084_c0_seq2	L73	19.4429231637174	comp113778_c0_seq1	L111	11.3624860677443
comp91703_c0_seq1	L21	29.1896310870841	comp124050_c0_seq1	L45	37.3922072941081	comp64000_c0_seq1	L73	19.4429231637174	comp120600_c0_seq1	L111	11.3624860677443

comp94307_c0_seq2	L21	29.1896310870841	comp129381_c3_seq1	L45	37.3922072941081	comp103038_c0_seq1	L73	21.0563861921567	comp121217_c0_seq1	L111	11.3624860677443
comp96254_c0_seq1	L21	29.1896310870841	comp83314_c0_seq1	L45	37.3922072941081	comp109346_c0_seq1	L73	21.0563861921567	comp122063_c1_seq1	L111	11.3624860677443
comp96459_c0_seq1	L21	29.1896310870841	comp113546_c0_seq1	L45	42.246107655132	comp117184_c0_seq1	L73	21.0563861921567	comp123029_c2_seq1	L111	11.3624860677443
comp99633_c1_seq1	L21	29.1896310870841	comp121651_c0_seq1	L45	42.246107655132	comp126893_c0_seq1	L73	21.0563861921567	comp123657_c3_seq1	L111	11.3624860677443
comp100177_c0_seq1	L22	0	comp103136_c0_seq1	L45	45.4764009421321	comp87668_c0_seq1	L73	21.0563861921567	comp127291_c0_seq1	L111	11.3624860677443
comp112934_c2_seq1	L22	0	comp108501_c0_seq1	L45	45.4764009421321	comp103602_c2_seq1	L74	0	comp129050_c0_seq4	L111	11.3624860677443
comp112934_c4_seq1	L22	0	comp110538_c0_seq1	L45	45.4764009421321	comp103958_c0_seq1	L74	0	comp129466_c1_seq1	L111	11.3624860677443
comp116621_c0_seq1	L22	0	comp110598_c0_seq2	L45	45.4764009421321	comp105793_c0_seq1	L74	0	comp45488_c0_seq1	L111	11.3624860677443
comp126755_c0_seq2	L22	0	comp112699_c0_seq4	L45	45.4764009421321	comp116763_c0_seq1	L74	0	comp55019_c0_seq1	L111	11.3624860677443
comp125158_c0_seq1	L22	8.1355600108657	comp113870_c0_seq1	L45	45.4764009421321	comp116763_c1_seq1	L74	0	comp56804_c0_seq1	L111	11.3624860677443
comp125703_c0_seq1	L22	11.3658532978659	comp115665_c0_seq2	L45	45.4764009421321	comp121806_c0_seq1	L74	0	comp63429_c0_seq1	L111	11.3624860677443
comp130828_c0_seq1	L22	11.3658532978659	comp117441_c0_seq1	L45	45.4764009421321	comp123312_c0_seq1	L74	0	comp120987_c0_seq1	L111	16.2163864287682
comp118679_c1_seq1	L22	16.2197536588898	comp120037_c0_seq1	L45	45.4764009421321	comp124729_c0_seq1	L74	0	comp108139_c0_seq2	L111	17.8298494572075
comp130278_c0_seq1	L22	16.2197536588898	comp123170_c0_seq1	L45	45.4764009421321	comp62353_c0_seq1	L74	0	comp109301_c0_seq1	L111	17.8298494572075
comp116788_c0_seq1	L22	17.8332166873291	comp126321_c0_seq1	L45	45.4764009421321	comp74913_c0_seq1	L74	0	comp109954_c0_seq1	L111	17.8298494572075
comp104091_c0_seq2	L22	22.687117048353	comp127793_c0_seq1	L45	45.4764009421321	comp78249_c0_seq1	L74	0	comp111608_c0_seq1	L111	17.8298494572075
comp123821_c0_seq1	L22	22.687117048353	comp28110_c0_seq1	L45	45.4764009421321	comp89815_c0_seq1	L74	0	comp113804_c0_seq1	L111	17.8298494572075
comp93947_c0_seq1	L22	22.687117048353	comp58194_c0_seq1	L45	45.4764009421321	comp91022_c0_seq1	L74	0	comp115891_c0_seq1	L111	17.8298494572075
comp109744_c0_seq1	L22	27.5410174093769	comp73456_c0_seq1	L45	45.4764009421321	comp97694_c0_seq1	L74	0	comp116456_c0_seq1	L111	17.8298494572075
comp125992_c0_seq1	L22	27.5410174093769	comp73843_c0_seq1	L45	45.4764009421321	comp125185_c0_seq1	L74	1.61346302843928	comp118081_c1_seq1	L111	17.8298494572075
comp125992_c1_seq1	L22	27.5410174093769	comp83075_c0_seq1	L45	45.4764009421321	comp126157_c0_seq1	L74	3.22692605687856	comp123034_c0_seq1	L111	17.8298494572075
comp130060_c0_seq1	L22	27.5410174093769	comp86379_c0_seq1	L45	45.4764009421321	comp101492_c0_seq1	L74	4.84038908531784	comp26827_c0_seq1	L111	17.8298494572075
comp130821_c0_seq1	L22	27.5410174093769	comp98980_c0_seq2	L45	45.4764009421321	comp103047_c4_seq1	L74	4.84038908531784	comp93928_c0_seq1	L111	17.8298494572075
comp80332_c0_seq1	L22	27.5410174093769	comp99577_c0_seq1	L45	45.4764009421321	comp106393_c0_seq1	L74	4.84038908531784	comp93928_c2_seq1	L111	17.8298494572075
comp91302_c0_seq1	L22	27.5410174093769	comp99693_c0_seq1	L45	45.4764009421321	comp106393_c1_seq1	L74	4.84038908531784	comp97862_c0_seq1	L111	17.8298494572075
comp105955_c1_seq1	L22	35.6765774202426	comp103212_c0_seq1	L45	47.0898639705714	comp106988_c0_seq1	L74	4.84038908531784	comp98876_c0_seq1	L111	17.8298494572075
comp109036_c0_seq1	L22	38.9068707072428	comp110159_c0_seq2	L45	47.0898639705714	comp110552_c0_seq1	L74	4.84038908531784	comp102023_c0_seq1	L111	21.0601427442076
comp110074_c0_seq1	L22	38.9068707072428	comp111917_c0_seq1	L45	47.0898639705714	comp126695_c0_seq1	L74	4.84038908531784	comp102435_c0_seq1	L111	21.0601427442076
comp111581_c0_seq1	L22	38.9068707072428	comp113035_c0_seq1	L45	47.0898639705714	comp127241_c1_seq1	L74	4.84038908531784	comp120898_c0_seq1	L111	21.0601427442076

comp111981_c0_seq1	L22	38.9068707072428	comp113821_c0_seq1	L45	47.0898639705714	comp128020_c0_seq1	L74	4.84038908531784	comp127497_c0_seq1	L111	21.0601427442076
comp129584_c0_seq6	L22	38.9068707072428	comp120215_c0_seq1	L45	47.0898639705714	comp133275_c0_seq1	L74	4.84038908531784	comp82341_c0_seq1	L111	21.0601427442076
comp100139_c0_seq1	L22	40.5203337356821	comp121532_c0_seq2	L45	47.0898639705714	comp45255_c0_seq1	L74	4.84038908531784	comp82341_c1_seq1	L111	21.0601427442076
comp126301_c0_seq1	L22	40.5203337356821	comp123250_c0_seq1	L45	47.0898639705714	comp70127_c0_seq1	L74	4.84038908531784	comp84826_c0_seq1	L111	21.0601427442076
comp109661_c0_seq2	L22	42.1337967641213	comp124423_c0_seq1	L45	47.0898639705714	comp93952_c0_seq1	L74	4.84038908531784	comp106382_c0_seq1	L111	22.6736057726469
comp117871_c0_seq2	L22	42.1337967641213	comp63633_c0_seq1	L45	47.0898639705714	comp93995_c1_seq1	L74	4.84038908531784	comp106604_c0_seq1	L111	22.6736057726469
comp121901_c0_seq1	L22	42.1337967641213	comp72600_c0_seq1	L45	47.0898639705714	comp111872_c0_seq1	L74	6.45385211375712	comp115718_c1_seq6	L111	22.6736057726469
comp125816_c0_seq1	L22	42.1337967641213	comp76277_c0_seq1	L45	47.0898639705714	comp119176_c1_seq6	L74	6.45385211375712	comp56136_c0_seq1	L111	22.6736057726469
comp128073_c0_seq2	L22	42.1337967641213	comp81085_c0_seq1	L45	47.0898639705714	comp122033_c0_seq1	L74	6.45385211375712	comp60404_c0_seq1	L111	22.6736057726469
comp130531_c0_seq1	L22	42.1337967641213	comp83849_c0_seq1	L45	47.0898639705714	comp104457_c0_seq1	L74	12.9416320008842	comp65409_c0_seq1	L111	22.6736057726469
comp47458_c0_seq1	L22	42.1337967641213	comp84067_c0_seq1	L45	47.0898639705714	comp108929_c0_seq2	L74	12.9416320008842	comp81923_c0_seq1	L111	22.6736057726469
comp92166_c0_seq1	L22	42.1337967641213	comp84685_c0_seq1	L45	47.0898639705714	comp110332_c1_seq1	L74	12.9416320008842	comp83647_c0_seq1	L111	22.6736057726469
comp96455_c0_seq1	L22	42.1337967641213	comp85221_c0_seq1	L45	47.0898639705714	comp114386_c0_seq1	L74	12.9416320008842	comp84152_c0_seq1	L111	22.6736057726469
comp105722_c1_seq1	L22	43.7472597925606	comp94272_c2_seq1	L45	47.0898639705714	comp114386_c1_seq1	L74	12.9416320008842	comp94052_c0_seq1	L111	22.6736057726469
comp105722_c2_seq1	L22	43.7472597925606	comp96283_c0_seq1	L45	47.0898639705714	comp116168_c0_seq1	L74	12.9416320008842	comp96711_c0_seq1	L111	22.6736057726469
comp110768_c0_seq1	L22	43.7472597925606	comp96827_c0_seq1	L45	47.0898639705714	comp117186_c0_seq1	L74	12.9416320008842	comp99654_c0_seq1	L111	22.6736057726469
comp110921_c1_seq1	L22	43.7472597925606	comp97586_c0_seq1	L45	47.0898639705714	comp118298_c0_seq1	L74	12.9416320008842	comp117244_c0_seq1	L112	0
comp111717_c0_seq1	L22	43.7472597925606	comp100313_c0_seq1	L45	48.7033269990107	comp119817_c0_seq1	L74	12.9416320008842	comp87476_c0_seq1	L112	0
comp119826_c0_seq1	L22	43.7472597925606	comp100812_c0_seq1	L45	48.7033269990107	comp122496_c0_seq1	L74	12.9416320008842	comp108226_c0_seq1	L112	1.61346302843928
comp125263_c0_seq2	L22	43.7472597925606	comp102393_c0_seq1	L45	48.7033269990107	comp77760_c1_seq1	L74	12.9416320008842	comp108400_c0_seq1	L112	1.61346302843928
comp126149_c1_seq1	L22	43.7472597925606	comp103347_c0_seq1	L45	48.7033269990107	comp81750_c0_seq1	L74	12.9416320008842	comp91002_c0_seq1	L112	1.61346302843928
comp85395_c0_seq1	L22	43.7472597925606	comp103430_c0_seq1	L45	48.7033269990107	comp97240_c0_seq1	L74	12.9416320008842	comp99848_c0_seq1	L112	1.61346302843928
comp103709_c0_seq1	L22	45.3607228209999	comp105665_c0_seq1	L45	48.7033269990107	comp119506_c1_seq3	L74	14.5550950293235	comp102217_c0_seq1	L112	9.74902303930498
comp104539_c0_seq1	L22	45.3607228209999	comp107224_c0_seq1	L45	48.7033269990107	comp121521_c0_seq1	L74	14.5550950293235	comp103387_c0_seq1	L112	9.74902303930498
comp116995_c0_seq1	L22	45.3607228209999	comp107860_c0_seq1	L45	48.7033269990107	comp131975_c0_seq1	L74	14.5550950293235	comp104572_c0_seq1	L112	9.74902303930498
comp117095_c0_seq1	L22	45.3607228209999	comp108599_c0_seq1	L45	48.7033269990107	comp57733_c0_seq1	L74	14.5550950293235	comp104646_c1_seq1	L112	9.74902303930498
comp117636_c0_seq1	L22	45.3607228209999	comp109097_c0_seq1	L45	48.7033269990107	comp86527_c0_seq1	L74	14.5550950293235	comp105751_c0_seq1	L112	9.74902303930498
comp117805_c0_seq1	L22	45.3607228209999	comp109176_c0_seq1	L45	48.7033269990107	comp95286_c0_seq1	L74	14.5550950293235	comp105970_c0_seq1	L112	9.74902303930498
comp118424_c0_seq1	L22	45.3607228209999	comp109648_c0_seq1	L45	48.7033269990107	comp95951_c1_seq1	L74	14.5550950293235	comp106288_c0_seq2	L112	9.74902303930498

comp119310_c0_seq1	L22	45.3607228209999	comp111145_c0_seq3	L45	48.7033269990107	comp97077_c0_seq1	L74	14.5550950293235	comp108127_c0_seq1	L112	9.74902303930498
comp126573_c3_seq1	L22	45.3607228209999	comp116085_c1_seq1	L45	48.7033269990107	comp98514_c0_seq1	L74	14.5550950293235	comp108754_c0_seq1	L112	9.74902303930498
comp127807_c0_seq2	L22	45.3607228209999	comp116106_c0_seq1	L45	48.7033269990107	comp113872_c0_seq1	L74	19.4089953903474	comp109892_c0_seq1	L112	9.74902303930498
comp42641_c0_seq1	L22	45.3607228209999	comp117159_c0_seq1	L45	48.7033269990107	comp129265_c0_seq1	L74	19.4089953903474	comp111957_c0_seq1	L112	9.74902303930498
comp82274_c0_seq1	L22	45.3607228209999	comp117782_c0_seq1	L45	48.7033269990107	comp102779_c0_seq1	L74	24.2628957513714	comp113784_c0_seq1	L112	9.74902303930498
comp90889_c0_seq1	L22	45.3607228209999	comp119374_c0_seq1	L45	48.7033269990107	comp112006_c0_seq1	L74	24.2628957513714	comp116377_c0_seq3	L112	9.74902303930498
comp92629_c0_seq1	L22	45.3607228209999	comp121078_c0_seq1	L45	48.7033269990107	comp113127_c0_seq1	L74	24.2628957513714	comp116463_c0_seq1	L112	9.74902303930498
comp104747_c0_seq1	L22	46.9741858494392	comp125529_c0_seq1	L45	48.7033269990107	comp114666_c0_seq1	L74	24.2628957513714	comp116886_c0_seq1	L112	9.74902303930498
comp107130_c0_seq1	L22	46.9741858494392	comp127267_c0_seq1	L45	48.7033269990107	comp117148_c0_seq1	L74	24.2628957513714	comp116887_c0_seq1	L112	9.74902303930498
comp110608_c0_seq1	L22	46.9741858494392	comp63581_c0_seq1	L45	48.7033269990107	comp117587_c0_seq2	L74	24.2628957513714	comp120720_c0_seq1	L112	9.74902303930498
comp116915_c0_seq1	L22	46.9741858494392	comp71737_c0_seq1	L45	48.7033269990107	comp130224_c0_seq1	L74	24.2628957513714	comp122396_c0_seq1	L112	9.74902303930498
comp32874_c0_seq1	L22	46.9741858494392	comp74685_c0_seq1	L45	48.7033269990107	comp39036_c0_seq1	L74	24.2628957513714	comp123093_c1_seq1	L112	9.74902303930498
comp42060_c0_seq1	L22	46.9741858494392	comp82884_c0_seq1	L45	48.7033269990107	comp50853_c0_seq1	L74	24.2628957513714	comp125978_c0_seq1	L112	9.74902303930498
comp55484_c0_seq1	L22	46.9741858494392	comp83608_c0_seq1	L45	48.7033269990107	comp80073_c0_seq1	L74	24.2628957513714	comp126550_c0_seq1	L112	9.74902303930498
comp62327_c0_seq1	L22	46.9741858494392	comp95332_c0_seq1	L45	48.7033269990107	comp96812_c0_seq1	L74	24.2628957513714	comp128933_c1_seq1	L112	9.74902303930498
comp72128_c0_seq1	L22	46.9741858494392	comp99491_c1_seq1	L45	48.7033269990107	comp98683_c0_seq1	L74	24.2628957513714	comp128933_c2_seq1	L112	9.74902303930498
comp79592_c0_seq1	L22	46.9741858494392	comp129942_c0_seq1	L45	50.31679002745	comp99489_c0_seq1	L74	24.2628957513714	comp130953_c0_seq1	L112	9.74902303930498
comp89709_c0_seq5	L22	46.9741858494392	comp103145_c0_seq2	L45	56.8045699145771	comp99489_c1_seq1	L74	24.2628957513714	comp133399_c0_seq1	L112	9.74902303930498
comp91671_c0_seq1	L22	46.9741858494392	comp104354_c0_seq1	L45	56.8045699145771	comp116491_c0_seq1	L74	34.063947945772	comp41023_c0_seq1	L112	9.74902303930498
comp93653_c0_seq1	L22	46.9741858494392	comp106603_c0_seq1	L45	56.8045699145771	comp120730_c0_seq1	L74	34.063947945772	comp59801_c0_seq1	L112	9.74902303930498
comp95109_c0_seq1	L22	46.9741858494392	comp106749_c0_seq1	L45	56.8045699145771	comp123055_c0_seq1	L74	34.063947945772	comp66327_c0_seq1	L112	9.74902303930498
comp97906_c1_seq1	L22	46.9741858494392	comp109733_c0_seq1	L45	56.8045699145771	comp123820_c1_seq1	L74	34.063947945772	comp69362_c0_seq1	L112	9.74902303930498
comp91911_c0_seq1	L23	0	comp115272_c0_seq1	L45	56.8045699145771	comp42776_c0_seq1	L74	34.063947945772	comp71720_c0_seq1	L112	9.74902303930498
comp103987_c0_seq1	L23	1.61346302843928	comp120428_c0_seq1	L45	56.8045699145771	comp99980_c0_seq1	L74	34.063947945772	comp72294_c0_seq1	L112	9.74902303930498
comp106437_c0_seq2	L23	1.61346302843928	comp121743_c2_seq1	L45	56.8045699145771	comp122312_c0_seq1	L74	35.6774109742112	comp73539_c0_seq1	L112	9.74902303930498
comp118731_c0_seq1	L23	1.61346302843928	comp122551_c0_seq1	L45	56.8045699145771	comp127445_c0_seq1	L74	35.6774109742112	comp78931_c0_seq1	L112	9.74902303930498
comp41047_c0_seq1	L23	1.61346302843928	comp129245_c1_seq1	L45	56.8045699145771	comp109981_c0_seq1	L74	37.2908740026505	comp82766_c0_seq1	L112	9.74902303930498
comp74415_c0_seq1	L23	1.61346302843928	comp133528_c1_seq3	L45	56.8045699145771	comp114128_c0_seq1	L74	37.2908740026505	comp87922_c0_seq1	L112	9.74902303930498
comp88359_c0_seq1	L23	1.61346302843928	comp52198_c0_seq1	L45	56.8045699145771	comp115643_c0_seq1	L74	37.2908740026505	comp88117_c0_seq1	L112	9.74902303930498

comp101083_c0_seq1	L23	6.46736338946321	comp53279_c0_seq1	L45	56.8045699145771	comp117874_c0_seq1	L74	37.2908740026505	comp88284_c0_seq1	L112	9.74902303930498
comp105540_c0_seq1	L23	6.46736338946321	comp71980_c0_seq1	L45	56.8045699145771	comp122384_c0_seq1	L74	37.2908740026505	comp88356_c0_seq1	L112	9.74902303930498
comp109750_c0_seq1	L23	6.46736338946321	comp81682_c0_seq1	L45	56.8045699145771	comp122752_c0_seq1	L74	37.2908740026505	comp88356_c1_seq1	L112	9.74902303930498
comp111458_c0_seq1	L23	6.46736338946321	comp92555_c0_seq1	L45	56.8045699145771	comp124172_c0_seq10	L74	37.2908740026505	comp90007_c0_seq1	L112	9.74902303930498
comp113701_c0_seq1	L23	6.46736338946321	comp93999_c0_seq1	L45	56.8045699145771	comp126118_c0_seq1	L74	37.2908740026505	comp92707_c0_seq1	L112	9.74902303930498
comp114694_c0_seq1	L23	6.46736338946321	comp96634_c0_seq1	L45	56.8045699145771	comp132849_c0_seq1	L74	37.2908740026505	comp92921_c0_seq1	L112	9.74902303930498
comp115816_c0_seq1	L23	6.46736338946321	comp96727_c0_seq1	L45	56.8045699145771	comp29784_c0_seq1	L74	37.2908740026505	comp94827_c0_seq1	L112	9.74902303930498
comp123674_c0_seq1	L23	6.46736338946321	comp97054_c0_seq1	L45	56.8045699145771	comp65230_c0_seq1	L74	42.1447743636745	comp135265_c0_seq1	L113	0
comp129198_c0_seq1	L23	6.46736338946321	comp102539_c0_seq1	L45	58.4180329430164	comp112086_c0_seq1	L74	43.7582373921137	comp61717_c0_seq1	L113	0
comp77405_c0_seq1	L23	6.46736338946321	comp103033_c1_seq1	L45	58.4180329430164	comp86548_c0_seq1	L74	45.371700420553	comp68151_c0_seq1	L113	0
comp83085_c0_seq1	L23	6.46736338946321	comp104253_c0_seq3	L45	58.4180329430164	comp102086_c0_seq1	L74	46.9851634489923	comp79853_c0_seq1	L113	0
comp86719_c0_seq1	L23	6.46736338946321	comp104277_c0_seq1	L45	58.4180329430164	comp104176_c0_seq1	L74	46.9851634489923	comp79853_c1_seq1	L113	0
comp90253_c0_seq1	L23	6.46736338946321	comp104566_c0_seq1	L45	58.4180329430164	comp112391_c0_seq1	L74	46.9851634489923	comp91415_c0_seq1	L113	0
comp90253_c1_seq1	L23	6.46736338946321	comp104604_c0_seq4	L45	58.4180329430164	comp119553_c0_seq1	L74	46.9851634489923	comp97015_c0_seq1	L113	0
comp90630_c0_seq1	L23	6.46736338946321	comp104604_c1_seq1	L45	58.4180329430164	comp126356_c4_seq1	L74	46.9851634489923	comp99012_c0_seq1	L113	0
comp91329_c0_seq1	L23	6.46736338946321	comp104611_c0_seq1	L45	58.4180329430164	comp126637_c0_seq1	L74	46.9851634489923	comp107102_c0_seq1	L113	1.61346302843928
comp91769_c0_seq1	L23	6.46736338946321	comp105192_c0_seq1	L45	58.4180329430164	comp127615_c0_seq1	L74	46.9851634489923	comp112750_c0_seq1	L113	1.61346302843928
comp92096_c0_seq1	L23	6.46736338946321	comp106903_c0_seq1	L45	58.4180329430164	comp79313_c1_seq1	L74	46.9851634489923	comp43813_c0_seq1	L113	1.61346302843928
comp93771_c0_seq1	L23	6.46736338946321	comp108932_c0_seq1	L45	58.4180329430164	comp79976_c0_seq1	L74	46.9851634489923	comp66423_c0_seq1	L113	1.61346302843928
comp94376_c0_seq1	L23	6.46736338946321	comp109175_c0_seq1	L45	58.4180329430164	comp88541_c0_seq1	L74	46.9851634489923	comp70550_c0_seq1	L113	1.61346302843928
comp94479_c0_seq2	L23	6.46736338946321	comp110560_c1_seq1	L45	58.4180329430164	comp90399_c0_seq1	L74	46.9851634489923	comp79515_c0_seq1	L113	1.61346302843928
comp99679_c0_seq1	L23	6.46736338946321	comp111527_c0_seq2	L45	58.4180329430164	comp90463_c0_seq1	L74	46.9851634489923	comp89329_c0_seq1	L113	1.61346302843928
comp102168_c0_seq6	L23	12.9551432765903	comp112462_c0_seq1	L45	58.4180329430164	comp91528_c0_seq1	L74	46.9851634489923	comp98710_c0_seq1	L113	1.61346302843928
comp118845_c0_seq1	L23	12.9551432765903	comp113193_c0_seq1	L45	58.4180329430164	comp91995_c0_seq1	L74	46.9851634489923	comp108458_c0_seq1	L113	3.22692605687856
comp119140_c2_seq1	L23	12.9551432765903	comp113380_c0_seq1	L45	58.4180329430164	comp96990_c0_seq1	L74	46.9851634489923	comp119223_c0_seq4	L113	3.22692605687856
comp120144_c0_seq2	L23	12.9551432765903	comp113825_c0_seq1	L45	58.4180329430164	comp97255_c0_seq2	L74	46.9851634489923	comp122841_c0_seq1	L113	3.22692605687856
comp124076_c1_seq1	L23	12.9551432765903	comp114301_c0_seq1	L45	58.4180329430164	comp108726_c0_seq1	L74	48.5986264774316	comp126635_c0_seq1	L113	3.22692605687856
comp126450_c0_seq1	L23	12.9551432765903	comp114554_c0_seq1	L45	58.4180329430164	comp113376_c0_seq1	L74	48.5986264774316	comp48278_c0_seq1	L113	3.22692605687856
comp130443_c0_seq1	L23	12.9551432765903	comp115563_c0_seq1	L45	58.4180329430164	comp117267_c1_seq1	L74	48.5986264774316	comp70118_c0_seq1	L113	3.22692605687856

comp89540_c0_seq1	L23	12.9551432765903	comp116008_c0_seq2	L45	58.4180329430164	comp119566_c0_seq1	L74	48.5986264774316	comp98747_c0_seq1	L113	3.22692605687856
comp100547_c0_seq1	L23	22.7561954709909	comp116214_c0_seq1	L45	58.4180329430164	comp130903_c0_seq1	L74	48.5986264774316	comp104484_c0_seq1	L113	9.71470594400567
comp101535_c0_seq1	L23	22.7561954709909	comp117124_c0_seq2	L45	58.4180329430164	comp42176_c0_seq1	L74	48.5986264774316	comp116203_c0_seq2	L113	9.71470594400567
comp101962_c0_seq1	L23	22.7561954709909	comp118190_c0_seq1	L45	58.4180329430164	comp72359_c0_seq2	L74	48.5986264774316	comp131298_c0_seq1	L113	9.71470594400567
comp102577_c0_seq2	L23	22.7561954709909	comp120880_c1_seq3	L45	58.4180329430164	comp73712_c0_seq1	L74	48.5986264774316	comp131493_c0_seq1	L113	9.71470594400567
comp107647_c0_seq1	L23	22.7561954709909	comp123909_c0_seq7	L45	58.4180329430164	comp77357_c0_seq1	L74	48.5986264774316	comp66352_c0_seq1	L113	9.71470594400567
comp114892_c0_seq1	L23	22.7561954709909	comp125274_c1_seq1	L45	58.4180329430164	comp84564_c0_seq1	L74	48.5986264774316	comp92086_c0_seq1	L113	9.71470594400567
comp114941_c0_seq1	L23	22.7561954709909	comp128725_c0_seq1	L45	58.4180329430164	comp87440_c0_seq1	L74	48.5986264774316	comp108841_c0_seq2	L113	14.5686063050296
comp114941_c1_seq1	L23	22.7561954709909	comp129835_c0_seq1	L45	58.4180329430164	comp96842_c0_seq1	L74	48.5986264774316	comp112794_c0_seq1	L113	14.5686063050296
comp115463_c0_seq1	L23	22.7561954709909	comp130901_c0_seq1	L45	58.4180329430164	comp99624_c0_seq1	L74	48.5986264774316	comp114668_c1_seq1	L113	14.5686063050296
comp115802_c0_seq1	L23	22.7561954709909	comp54352_c0_seq1	L45	58.4180329430164	comp104188_c0_seq1	L74	53.4525268384555	comp120961_c0_seq1	L113	14.5686063050296
comp116353_c0_seq1	L23	22.7561954709909	comp54973_c0_seq1	L45	58.4180329430164	comp124483_c0_seq1	L74	55.0659898668948	comp121453_c0_seq1	L113	14.5686063050296
comp119979_c1_seq1	L23	22.7561954709909	comp60599_c0_seq1	L45	58.4180329430164	comp101335_c0_seq1	L74	56.6794528953341	comp122846_c0_seq1	L113	14.5686063050296
comp122031_c2_seq1	L23	22.7561954709909	comp62603_c0_seq1	L45	58.4180329430164	comp103343_c0_seq1	L74	56.6794528953341	comp124473_c2_seq1	L113	14.5686063050296
comp128555_c0_seq1	L23	22.7561954709909	comp67755_c0_seq1	L45	58.4180329430164	comp108667_c0_seq1	L74	56.6794528953341	comp40713_c0_seq1	L113	14.5686063050296
comp130888_c0_seq1	L23	22.7561954709909	comp72094_c0_seq1	L45	58.4180329430164	comp108984_c0_seq1	L74	56.6794528953341	comp87249_c0_seq1	L113	14.5686063050296
comp133545_c1_seq1	L23	22.7561954709909	comp73403_c0_seq1	L45	58.4180329430164	comp112596_c0_seq1	L74	56.6794528953341	comp94017_c0_seq1	L113	14.5686063050296
comp76301_c0_seq1	L23	22.7561954709909	comp79410_c0_seq1	L45	58.4180329430164	comp115913_c0_seq1	L74	56.6794528953341	comp102218_c0_seq1	L113	16.1820693334689
comp83165_c0_seq1	L23	22.7561954709909	comp79533_c0_seq1	L45	58.4180329430164	comp116523_c0_seq1	L74	56.6794528953341	comp129410_c0_seq1	L113	16.1820693334689
comp92770_c1_seq1	L23	22.7561954709909	comp80106_c1_seq1	L45	58.4180329430164	comp117984_c1_seq1	L74	56.6794528953341	comp102397_c0_seq1	L114	0
comp99362_c0_seq1	L23	22.7561954709909	comp81780_c0_seq1	L45	58.4180329430164	comp118735_c0_seq1	L74	56.6794528953341	comp104551_c0_seq1	L114	0
comp100308_c0_seq1	L23	27.6100958320149	comp82770_c0_seq1	L45	58.4180329430164	comp120826_c0_seq1	L74	56.6794528953341	comp109077_c0_seq1	L114	0
comp101473_c0_seq1	L23	27.6100958320149	comp84821_c0_seq1	L45	58.4180329430164	comp121673_c0_seq1	L74	56.6794528953341	comp110751_c0_seq1	L114	0
comp105873_c0_seq1	L23	27.6100958320149	comp85331_c0_seq1	L45	58.4180329430164	comp129799_c0_seq1	L74	56.6794528953341	comp110893_c1_seq1	L114	0
comp109695_c0_seq1	L23	27.6100958320149	comp88388_c0_seq1	L45	58.4180329430164	comp103400_c0_seq1	L74	61.533353256358	comp113058_c0_seq1	L114	0
comp112985_c0_seq1	L23	27.6100958320149	comp89607_c0_seq1	L45	58.4180329430164	comp71384_c0_seq1	L74	61.533353256358	comp113592_c0_seq2	L114	0
comp115618_c0_seq1	L23	27.6100958320149	comp89973_c0_seq1	L45	58.4180329430164	comp85157_c0_seq1	L74	61.533353256358	comp116623_c1_seq1	L114	0
comp119273_c0_seq1	L23	27.6100958320149	comp89980_c0_seq1	L45	58.4180329430164	comp90366_c0_seq1	L74	61.533353256358	comp117842_c0_seq1	L114	0
comp121265_c0_seq1	L23	27.6100958320149	comp92769_c0_seq1	L45	58.4180329430164	comp96899_c0_seq1	L74	61.533353256358	comp119931_c0_seq1	L114	0

comp123482_c0_seq1	L23	27.6100958320149	comp96775_c0_seq1	L45	58.4180329430164	comp100701_c0_seq1	L74	64.7636465433581	comp120001_c0_seq1	L114	0
comp124537_c0_seq1	L23	27.6100958320149	comp96872_c0_seq1	L45	58.4180329430164	comp102653_c0_seq1	L74	64.7636465433581	comp120267_c0_seq1	L114	0
comp125050_c1_seq4	L23	27.6100958320149	comp97152_c0_seq2	L45	58.4180329430164	comp103710_c0_seq1	L74	64.7636465433581	comp120703_c0_seq1	L114	0
comp129936_c0_seq4	L23	27.6100958320149	comp99047_c0_seq1	L45	58.4180329430164	comp108446_c0_seq1	L74	64.7636465433581	comp122446_c0_seq1	L114	0
comp15149_c0_seq1	L23	27.6100958320149	comp92894_c0_seq1	L45	60.0314959714556	comp114241_c0_seq4	L74	64.7636465433581	comp122993_c0_seq1	L114	0
comp26002_c0_seq1	L23	27.6100958320149	comp111814_c0_seq1	L46	0	comp122208_c0_seq1	L74	64.7636465433581	comp124193_c0_seq1	L114	0
comp45808_c0_seq1	L23	27.6100958320149	comp116197_c0_seq1	L46	0	comp123663_c2_seq1	L74	64.7636465433581	comp126295_c0_seq1	L114	0
comp45932_c0_seq1	L23	27.6100958320149	comp116843_c0_seq1	L46	0	comp82870_c0_seq1	L74	64.7636465433581	comp129784_c0_seq1	L114	0
comp69681_c0_seq1	L23	27.6100958320149	comp128469_c0_seq1	L46	0	comp88339_c0_seq1	L74	64.7636465433581	comp47226_c0_seq1	L114	0
comp80206_c0_seq1	L23	27.6100958320149	comp129283_c0_seq1	L46	0	comp96786_c0_seq2	L74	64.7636465433581	comp64395_c0_seq1	L114	0
comp86481_c0_seq1	L23	27.6100958320149	comp65788_c0_seq1	L46	0	comp99469_c2_seq1	L74	64.7636465433581	comp66099_c0_seq1	L114	0
comp87252_c0_seq1	L23	27.6100958320149	comp80687_c0_seq1	L46	0	comp99957_c0_seq1	L74	64.7636465433581	comp66460_c0_seq1	L114	0
comp90233_c0_seq1	L23	27.6100958320149	comp81046_c0_seq1	L46	1.61346302843928	comp104127_c0_seq1	L74	66.3771095717974	comp71772_c0_seq1	L114	0
comp90667_c0_seq1	L23	27.6100958320149	comp104099_c0_seq1	L46	3.22692605687856	comp104127_c1_seq1	L74	66.3771095717974	comp73258_c0_seq1	L114	0
comp91414_c0_seq1	L23	27.6100958320149	comp106862_c0_seq1	L46	4.84038908531784	comp109572_c0_seq1	L74	66.3771095717974	comp73611_c0_seq1	L114	0
comp95074_c0_seq1	L23	27.6100958320149	comp115105_c1_seq1	L46	4.84038908531784	comp115678_c0_seq1	L74	66.3771095717974	comp75693_c0_seq1	L114	0
comp97287_c0_seq1	L23	27.6100958320149	comp118700_c0_seq1	L46	4.84038908531784	comp126177_c0_seq1	L74	66.3771095717974	comp77869_c0_seq1	L114	0
comp106925_c0_seq1	L23	29.2235588604541	comp119514_c0_seq1	L46	4.84038908531784	comp131247_c3_seq1	L74	66.3771095717974	comp78515_c0_seq1	L114	0
comp108516_c0_seq1	L23	29.2235588604541	comp123680_c0_seq1	L46	4.84038908531784	comp45024_c0_seq1	L74	66.3771095717974	comp78790_c0_seq1	L114	0
comp109599_c0_seq1	L23	29.2235588604541	comp124376_c0_seq4	L46	4.84038908531784	comp73845_c0_seq1	L74	66.3771095717974	comp90187_c0_seq1	L114	0
comp115024_c0_seq1	L23	29.2235588604541	comp126308_c0_seq1	L46	4.84038908531784	comp86029_c0_seq1	L74	66.3771095717974	comp91137_c0_seq2	L114	0
comp118928_c1_seq1	L23	29.2235588604541	comp133979_c0_seq1	L46	4.84038908531784	comp89049_c0_seq1	L74	66.3771095717974	comp92084_c0_seq1	L114	0
comp119546_c2_seq1	L23	29.2235588604541	comp68300_c0_seq1	L46	4.84038908531784	comp92110_c0_seq1	L74	66.3771095717974	comp96969_c0_seq1	L114	0
comp120194_c0_seq1	L23	29.2235588604541	comp92248_c0_seq1	L46	4.84038908531784	comp92952_c0_seq1	L74	66.3771095717974	comp111789_c0_seq1	L114	4.85390036102393
comp67690_c0_seq1	L23	29.2235588604541	comp101709_c0_seq1	L46	8.07068237231799	comp93988_c0_seq1	L74	66.3771095717974	comp117130_c0_seq1	L114	4.85390036102393
comp93993_c0_seq1	L23	29.2235588604541	comp105449_c0_seq1	L46	8.07068237231799	comp96828_c0_seq1	L74	66.3771095717974	comp117458_c0_seq1	L114	4.85390036102393
comp94374_c0_seq1	L23	29.2235588604541	comp122720_c0_seq1	L46	8.07068237231799	comp97023_c0_seq1	L74	66.3771095717974	comp118229_c1_seq2	L114	4.85390036102393
comp94953_c0_seq1	L23	29.2235588604541	comp131757_c0_seq1	L46	8.07068237231799	comp97155_c0_seq1	L74	66.3771095717974	comp118718_c0_seq3	L114	4.85390036102393
comp100142_c0_seq1	L23	30.8370218888934	comp93410_c0_seq1	L46	8.07068237231799	comp102845_c0_seq2	L75	0	comp122162_c0_seq1	L114	4.85390036102393



comp102827_c0_seq1	L23	30.8370218888934	comp114029_c0_seq1	L46	11.3009756593181	comp108402_c0_seq1	L75	0	comp123681_c0_seq1	L114	4.85390036102393
comp103403_c0_seq1	L23	30.8370218888934	comp127199_c0_seq1	L46	11.3009756593181	comp118417_c0_seq1	L75	0	comp123681_c1_seq1	L114	4.85390036102393
comp103695_c0_seq1	L23	30.8370218888934	comp100326_c0_seq1	L46	16.1548760203421	comp118876_c0_seq1	L75	0	comp130696_c1_seq1	L114	4.85390036102393
comp107480_c0_seq2	L23	30.8370218888934	comp103933_c1_seq2	L46	16.1548760203421	comp130920_c0_seq1	L75	0	comp132921_c1_seq1	L114	4.85390036102393
comp109727_c0_seq1	L23	30.8370218888934	comp108977_c0_seq1	L46	16.1548760203421	comp101902_c0_seq1	L75	1.61346302843928	comp70826_c0_seq1	L114	4.85390036102393
comp114058_c0_seq1	L23	30.8370218888934	comp116610_c0_seq1	L46	16.1548760203421	comp106890_c0_seq1	L75	1.61346302843928	comp79217_c0_seq1	L114	4.85390036102393
comp115113_c0_seq1	L23	30.8370218888934	comp120054_c0_seq1	L46	16.1548760203421	comp107296_c0_seq1	L75	1.61346302843928	comp97158_c0_seq1	L114	4.85390036102393
comp124134_c0_seq1	L23	30.8370218888934	comp127712_c0_seq1	L46	16.1548760203421	comp109345_c0_seq1	L75	1.61346302843928	comp103860_c0_seq1	L114	6.46736338946321
comp125867_c0_seq1	L23	30.8370218888934	comp131653_c0_seq1	L46	16.1548760203421	comp114078_c0_seq1	L75	1.61346302843928	comp106027_c1_seq1	L114	6.46736338946321
comp134666_c0_seq1	L23	30.8370218888934	comp28076_c0_seq1	L46	16.1548760203421	comp130913_c0_seq2	L75	1.61346302843928	comp110404_c1_seq1	L114	6.46736338946321
comp45075_c0_seq1	L23	30.8370218888934	comp80523_c0_seq1	L46	16.1548760203421	comp45127_c0_seq1	L75	1.61346302843928	comp111863_c0_seq1	L114	6.46736338946321
comp46787_c0_seq1	L23	30.8370218888934	comp99322_c0_seq1	L46	16.1548760203421	comp69984_c0_seq1	L75	1.61346302843928	comp113397_c0_seq1	L114	6.46736338946321
comp68581_c0_seq1	L23	30.8370218888934	comp111024_c1_seq1	L46	17.7683390487814	comp91826_c0_seq1	L75	1.61346302843928	comp115787_c0_seq2	L114	6.46736338946321
comp78670_c0_seq1	L23	30.8370218888934	comp111368_c0_seq1	L46	17.7683390487814	comp96929_c0_seq2	L75	1.61346302843928	comp116632_c2_seq1	L114	6.46736338946321
comp82485_c0_seq1	L23	30.8370218888934	comp115910_c0_seq1	L46	17.7683390487814	comp102004_c0_seq1	L75	3.22692605687856	comp117584_c0_seq1	L114	6.46736338946321
comp89194_c0_seq1	L23	30.8370218888934	comp116035_c0_seq1	L46	17.7683390487814	comp108091_c0_seq1	L75	3.22692605687856	comp119922_c0_seq1	L114	6.46736338946321
comp92775_c0_seq1	L23	30.8370218888934	comp95679_c0_seq1	L46	17.7683390487814	comp118048_c1_seq1	L75	4.84038908531784	comp120294_c0_seq1	L114	6.46736338946321
comp96309_c0_seq1	L23	30.8370218888934	comp102556_c1_seq1	L46	25.9038990596471	comp106040_c0_seq1	L75	6.45385211375712	comp120308_c0_seq1	L114	6.46736338946321
comp104564_c0_seq1	L24	0	comp105250_c0_seq1	L46	25.9038990596471	comp107346_c0_seq2	L75	6.45385211375712	comp120365_c0_seq1	L114	6.46736338946321
comp77482_c0_seq1	L24	0	comp105400_c0_seq1	L46	25.9038990596471	comp107777_c0_seq1	L75	6.45385211375712	comp121666_c1_seq1	L114	6.46736338946321
comp85882_c0_seq1	L24	0	comp106056_c0_seq1	L46	25.9038990596471	comp108547_c0_seq1	L75	6.45385211375712	comp122177_c1_seq5	L114	6.46736338946321
comp87735_c1_seq2	L24	0	comp107075_c0_seq1	L46	25.9038990596471	comp109145_c0_seq1	L75	6.45385211375712	comp123526_c0_seq1	L114	6.46736338946321
comp117139_c0_seq2	L24	1.61346302843928	comp108236_c0_seq3	L46	25.9038990596471	comp122480_c1_seq1	L75	6.45385211375712	comp59596_c0_seq2	L114	6.46736338946321
comp123868_c0_seq1	L24	1.61346302843928	comp110895_c1_seq1	L46	25.9038990596471	comp133397_c0_seq3	L75	6.45385211375712	comp93352_c0_seq1	L114	6.46736338946321
comp126535_c2_seq1	L24	1.61346302843928	comp110956_c0_seq1	L46	25.9038990596471	comp56265_c0_seq1	L75	6.45385211375712	comp120011_c0_seq1	L114	19.6690491444756
comp45847_c0_seq1	L24	1.61346302843928	comp111529_c0_seq1	L46	25.9038990596471	comp67097_c0_seq1	L75	6.45385211375712	comp120519_c0_seq1	L114	21.2825121729149
comp93192_c0_seq1	L24	1.61346302843928	comp111529_c1_seq1	L46	25.9038990596471	comp69482_c0_seq1	L75	6.45385211375712	comp110820_c0_seq1	L114	34.4841979279273
comp95467_c0_seq1	L24	1.61346302843928	comp115911_c0_seq1	L46	25.9038990596471	comp96728_c0_seq1	L75	6.45385211375712	comp114446_c0_seq1	L114	34.4841979279273
comp110781_c0_seq1	L24	8.10124291556639	comp116072_c1_seq1	L46	25.9038990596471	comp127780_c1_seq2	L75	9.68414540075727	comp121530_c0_seq14	L114	34.4841979279273

comp113043_c0_seq1	L24	8.10124291556639	comp120062_c1_seq1	L46	25.9038990596471	comp132549_c1_seq1	L75	9.68414540075727	comp99661_c0_seq1	L114	34.4841979279273
comp113849_c0_seq1	L24	8.10124291556639	comp121787_c0_seq1	L46	25.9038990596471	comp71232_c1_seq1	L75	9.68414540075727	comp126686_c0_seq1	L114	37.7144912149275
comp114699_c0_seq1	L24	8.10124291556639	comp122507_c0_seq1	L46	25.9038990596471	comp80598_c0_seq1	L75	9.68414540075727	comp117468_c0_seq1	L114	42.5683915759514
comp114987_c0_seq1	L24	8.10124291556639	comp124941_c0_seq1	L46	25.9038990596471	comp102314_c0_seq1	L75	12.9144386877574	comp128615_c0_seq2	L114	42.5683915759514
comp116797_c0_seq1	L24	8.10124291556639	comp125596_c0_seq1	L46	25.9038990596471	comp86563_c0_seq1	L75	12.9144386877574	comp132201_c0_seq1	L114	42.5683915759514
comp119648_c0_seq2	L24	8.10124291556639	comp125783_c0_seq1	L46	25.9038990596471	comp104031_c0_seq1	L75	26.1161244427698	comp95208_c0_seq1	L114	42.5683915759514
comp121847_c0_seq8	L24	8.10124291556639	comp127678_c0_seq1	L46	25.9038990596471	comp106512_c0_seq1	L75	26.1161244427698	comp107351_c0_seq1	L114	44.1818546043907
comp128326_c0_seq1	L24	8.10124291556639	comp130320_c0_seq1	L46	25.9038990596471	comp110685_c0_seq2	L75	27.7295874712091	comp110588_c0_seq1	L114	44.1818546043907
comp128364_c0_seq1	L24	8.10124291556639	comp133093_c0_seq1	L46	25.9038990596471	comp128738_c0_seq1	L75	27.7295874712091	comp113328_c0_seq3	L114	44.1818546043907
comp130335_c0_seq1	L24	8.10124291556639	comp25282_c0_seq1	L46	25.9038990596471	comp130801_c0_seq1	L75	27.7295874712091	comp113467_c0_seq2	L114	44.1818546043907
comp24633_c0_seq1	L24	8.10124291556639	comp71315_c2_seq1	L46	25.9038990596471	comp88078_c0_seq1	L75	27.7295874712091	comp126063_c0_seq1	L114	44.1818546043907
comp87385_c0_seq3	L24	8.10124291556639	comp7252_c0_seq1	L46	25.9038990596471	comp93037_c0_seq1	L75	27.7295874712091	comp127587_c0_seq1	L114	44.1818546043907
comp97209_c0_seq2	L24	8.10124291556639	comp82132_c0_seq1	L46	25.9038990596471	comp122303_c1_seq1	L75	29.3430504996484	comp102258_c1_seq1	L114	49.0357549654146
comp100150_c0_seq1	L24	11.3315362025665	comp86462_c0_seq1	L46	25.9038990596471	comp75541_c0_seq1	L75	29.3430504996484	comp99721_c1_seq1	L114	49.0357549654146
comp102747_c0_seq1	L24	11.3315362025665	comp94733_c1_seq1	L46	25.9038990596471	comp78275_c0_seq1	L75	29.3430504996484	comp110083_c0_seq1	L114	53.8896553264386
comp106333_c0_seq1	L24	11.3315362025665	comp96767_c0_seq1	L46	25.9038990596471	comp78939_c0_seq1	L75	29.3430504996484	comp123609_c1_seq1	L114	53.8896553264386
comp115915_c0_seq1	L24	11.3315362025665	comp97129_c0_seq1	L46	25.9038990596471	comp88879_c0_seq1	L75	29.3430504996484	comp106861_c0_seq1	L114	55.5031183548778
comp119556_c1_seq1	L24	11.3315362025665	comp99381_c0_seq1	L46	25.9038990596471	comp91275_c0_seq1	L75	29.3430504996484	comp118939_c0_seq1	L114	55.5031183548778
comp124048_c0_seq1	L24	11.3315362025665	comp120935_c3_seq1	L46	29.1341923466472	comp100707_c0_seq1	L75	34.1969508606723	comp123400_c0_seq1	L114	55.5031183548778
comp125500_c1_seq1	L24	11.3315362025665	comp106668_c0_seq1	L47	0	comp102272_c0_seq1	L75	34.1969508606723	comp121409_c0_seq1	L114	58.733411641878
comp61504_c0_seq1	L24	11.3315362025665	comp107473_c0_seq1	L47	0	comp103264_c0_seq1	L75	34.1969508606723	comp126287_c0_seq1	L114	58.733411641878
comp82107_c0_seq1	L24	11.3315362025665	comp120280_c0_seq1	L47	0	comp110214_c0_seq1	L75	34.1969508606723	comp108804_c0_seq1	L114	60.3468746703173
comp103829_c0_seq1	L24	12.9449992310058	comp85898_c0_seq1	L47	0	comp121774_c1_seq1	L75	34.1969508606723	comp109655_c1_seq1	L114	60.3468746703173
comp125713_c0_seq1	L24	12.9449992310058	comp94276_c0_seq1	L47	0	comp121797_c0_seq1	L75	34.1969508606723	comp109655_c3_seq1	L114	60.3468746703173
comp125774_c1_seq1	L24	12.9449992310058	comp113594_c0_seq1	L47	4.85390036102393	comp122249_c1_seq1	L75	34.1969508606723	comp110519_c0_seq1	L114	60.3468746703173
comp81978_c0_seq1	L24	12.9449992310058	comp117155_c0_seq1	L47	4.85390036102393	comp124121_c1_seq1	L75	34.1969508606723	comp119203_c0_seq1	L114	60.3468746703173
comp98800_c0_seq1	L24	12.9449992310058	comp123929_c0_seq1	L47	4.85390036102393	comp51905_c0_seq1	L75	34.1969508606723	comp128358_c0_seq2	L114	60.3468746703173
comp104214_c0_seq1	L24	14.5584622594451	comp84980_c0_seq1	L47	4.85390036102393	comp60831_c0_seq1	L75	34.1969508606723	comp119534_c1_seq1	L114	63.5771679573174
comp111336_c0_seq1	L24	14.5584622594451	comp105236_c0_seq1	L47	6.46736338946321	comp69141_c0_seq1	L75	34.1969508606723	comp130782_c0_seq1	L114	63.5771679573174

comp112516_c0_seq1	L24	14.5584622594451	comp128851_c0_seq1	L47	6.46736338946321	comp71166_c1_seq1	L75	34.1969508606723	comp97903_c0_seq1	L114	63.5771679573174
comp115827_c1_seq1	L24	14.5584622594451	comp132305_c0_seq1	L47	6.46736338946321	comp74351_c0_seq1	L75	34.1969508606723	comp117288_c1_seq2	L115	0
comp118750_c0_seq1	L24	14.5584622594451	comp121656_c0_seq1	L47	9.69765667646336	comp82408_c0_seq1	L75	34.1969508606723	comp124255_c0_seq2	L115	0
comp119350_c0_seq1	L24	14.5584622594451	comp123079_c0_seq2	L47	9.69765667646336	comp86638_c0_seq1	L75	34.1969508606723	comp13574_c0_seq1	L115	0
comp121625_c0_seq1	L24	14.5584622594451	comp129776_c0_seq1	L47	9.69765667646336	comp96663_c0_seq1	L75	34.1969508606723	comp40238_c0_seq1	L115	0
comp122950_c1_seq1	L24	14.5584622594451	comp129882_c0_seq1	L47	9.69765667646336	comp100842_c0_seq1	L76	0	comp62632_c0_seq1	L115	0
comp124995_c0_seq1	L24	14.5584622594451	comp132522_c0_seq1	L47	9.69765667646336	comp100982_c0_seq1	L76	0	comp77487_c0_seq1	L115	0
comp129104_c1_seq1	L24	14.5584622594451	comp89331_c0_seq1	L47	9.69765667646336	comp103253_c0_seq1	L76	0	comp86991_c1_seq1	L115	0
comp129591_c2_seq1	L24	14.5584622594451	comp92184_c0_seq1	L47	9.69765667646336	comp103649_c1_seq1	L76	0	comp87205_c0_seq1	L115	0
comp100211_c0_seq1	L24	19.412362620469	comp116574_c0_seq2	L47	16.1854365635905	comp106059_c0_seq1	L76	0	comp95169_c0_seq1	L115	0
comp102836_c0_seq1	L24	19.412362620469	comp118154_c0_seq1	L47	19.4157298505906	comp108144_c0_seq1	L76	0	comp106011_c0_seq1	L115	1.61346302843928
comp103540_c0_seq2	L24	19.412362620469	comp119800_c0_seq1	L47	19.4157298505906	comp108651_c0_seq1	L76	0	comp108417_c0_seq1	L115	1.61346302843928
comp105308_c0_seq1	L24	19.412362620469	comp121259_c0_seq1	L47	19.4157298505906	comp111556_c0_seq1	L76	0	comp120206_c0_seq1	L115	1.61346302843928
comp106797_c0_seq2	L24	19.412362620469	comp132938_c0_seq1	L47	19.4157298505906	comp114832_c0_seq1	L76	0	comp127100_c0_seq1	L115	1.61346302843928
comp109462_c0_seq1	L24	19.412362620469	comp91034_c0_seq1	L47	19.4157298505906	comp115274_c0_seq1	L76	0	comp129732_c0_seq1	L115	1.61346302843928
comp110295_c0_seq1	L24	19.412362620469	comp117360_c0_seq1	L47	22.6460231375908	comp116153_c0_seq2	L76	0	comp131137_c0_seq1	L115	1.61346302843928
comp114632_c0_seq1	L24	19.412362620469	comp119888_c0_seq1	L47	22.6460231375908	comp117365_c0_seq1	L76	0	comp133658_c1_seq2	L115	1.61346302843928
comp117051_c0_seq1	L24	19.412362620469	comp120420_c0_seq1	L47	22.6460231375908	comp122113_c0_seq1	L76	0	comp17402_c0_seq1	L115	1.61346302843928
comp120269_c0_seq2	L24	19.412362620469	comp120662_c1_seq2	L47	22.6460231375908	comp124551_c0_seq1	L76	0	comp43598_c0_seq1	L115	1.61346302843928
comp122263_c0_seq1	L24	19.412362620469	comp134053_c0_seq1	L47	22.6460231375908	comp125082_c0_seq1	L76	0	comp5731_c0_seq1	L115	1.61346302843928
comp125049_c0_seq2	L24	19.412362620469	comp76414_c0_seq1	L47	22.6460231375908	comp125752_c2_seq1	L76	0	comp85472_c0_seq1	L115	1.61346302843928
comp126735_c0_seq1	L24	19.412362620469	comp103956_c0_seq1	L47	24.2594861660301	comp126139_c0_seq1	L76	0	comp91610_c0_seq1	L115	1.61346302843928
comp126926_c0_seq1	L24	19.412362620469	comp106433_c1_seq1	L47	24.2594861660301	comp127301_c0_seq1	L76	0	comp95870_c0_seq1	L115	1.61346302843928
comp94409_c0_seq1	L24	19.412362620469	comp106799_c0_seq1	L47	24.2594861660301	comp128411_c0_seq4	L76	0	comp97685_c0_seq1	L115	1.61346302843928
comp104402_c0_seq1	L24	21.0258256489083	comp107783_c0_seq1	L47	24.2594861660301	comp128585_c0_seq1	L76	0	comp99851_c0_seq1	L115	1.61346302843928
comp113457_c0_seq1	L24	21.0258256489083	comp108539_c1_seq1	L47	24.2594861660301	comp129670_c1_seq1	L76	0	comp106591_c0_seq1	L115	11.4145152228399
comp113457_c1_seq1	L24	21.0258256489083	comp109680_c0_seq2	L47	24.2594861660301	comp131610_c1_seq1	L76	0	comp122607_c0_seq1	L115	11.4145152228399
comp120722_c0_seq2	L24	21.0258256489083	comp112966_c0_seq1	L47	24.2594861660301	comp131694_c0_seq1	L76	0	comp122996_c0_seq1	L115	11.4145152228399
comp92144_c0_seq1	L24	21.0258256489083	comp115265_c0_seq1	L47	24.2594861660301	comp72911_c0_seq1	L76	0	comp126608_c0_seq1	L115	11.4145152228399

comp100155_c0_seq1	L24	22.6392886773476	comp115405_c0_seq1	L47	24.2594861660301	comp78092_c1_seq1	L76	0	comp72501_c0_seq1	L115	11.4145152228399
comp101304_c0_seq1	L24	22.6392886773476	comp124958_c0_seq1	L47	24.2594861660301	comp81601_c0_seq2	L76	0	comp121455_c0_seq1	L115	14.64480850984
comp101983_c0_seq1	L24	22.6392886773476	comp125374_c0_seq1	L47	24.2594861660301	comp84910_c1_seq1	L76	0	comp130066_c1_seq2	L115	17.8751017968402
comp102222_c0_seq1	L24	22.6392886773476	comp125514_c0_seq2	L47	24.2594861660301	comp92890_c0_seq1	L76	0	comp67140_c1_seq1	L115	17.8751017968402
comp103610_c0_seq1	L24	22.6392886773476	comp127081_c0_seq1	L47	24.2594861660301	comp93335_c0_seq1	L76	0	comp72713_c0_seq1	L115	17.8751017968402
comp103821_c0_seq1	L24	22.6392886773476	comp127321_c0_seq1	L47	24.2594861660301	comp93891_c0_seq1	L76	0	comp94628_c0_seq1	L115	17.8751017968402
comp103843_c0_seq1	L24	22.6392886773476	comp127553_c0_seq1	L47	24.2594861660301	comp115520_c0_seq1	L76	8.1355600108657	comp105871_c1_seq1	L115	29.3634100313012
comp104820_c0_seq1	L24	22.6392886773476	comp130455_c0_seq1	L47	24.2594861660301	comp115994_c1_seq1	L76	8.1355600108657	comp115598_c0_seq2	L115	29.3634100313012
comp106464_c0_seq1	L24	22.6392886773476	comp132099_c0_seq2	L47	24.2594861660301	comp119067_c0_seq1	L76	8.1355600108657	comp102286_c0_seq1	L115	30.9768730597405
comp107806_c0_seq1	L24	22.6392886773476	comp78209_c0_seq1	L47	24.2594861660301	comp130100_c0_seq1	L76	8.1355600108657	comp126845_c0_seq1	L115	30.9768730597405
comp108333_c0_seq1	L24	22.6392886773476	comp82166_c0_seq1	L47	24.2594861660301	comp130332_c2_seq1	L76	8.1355600108657	comp89027_c0_seq1	L115	30.9768730597405
comp108913_c0_seq1	L24	22.6392886773476	comp83467_c0_seq1	L47	24.2594861660301	comp101582_c0_seq1	L76	9.74902303930498	comp91533_c0_seq1	L115	30.9768730597405
comp108949_c0_seq1	L24	22.6392886773476	comp95880_c0_seq1	L47	24.2594861660301	comp117298_c0_seq1	L76	9.74902303930498	comp110864_c1_seq1	L115	32.5903360881797
comp109591_c0_seq2	L24	22.6392886773476	comp95969_c0_seq1	L47	24.2594861660301	comp123730_c0_seq1	L76	9.74902303930498	comp74251_c0_seq1	L115	32.5903360881797
comp110446_c0_seq1	L24	22.6392886773476	comp96380_c0_seq1	L47	24.2594861660301	comp105186_c1_seq1	L76	16.2368029264321	comp94051_c0_seq1	L115	32.5903360881797
comp110822_c1_seq1	L24	22.6392886773476	comp96773_c0_seq1	L47	24.2594861660301	comp105302_c0_seq1	L76	16.2368029264321	comp120134_c0_seq1	L115	34.203799116619
comp111326_c0_seq1	L24	22.6392886773476	comp101913_c0_seq1	L47	25.8729491944693	comp105302_c1_seq1	L76	16.2368029264321	comp133852_c0_seq1	L115	34.203799116619
comp111426_c0_seq1	L24	22.6392886773476	comp102675_c0_seq1	L47	25.8729491944693	comp106499_c0_seq1	L76	16.2368029264321	comp133852_c1_seq1	L115	34.203799116619
comp113660_c0_seq1	L24	22.6392886773476	comp104029_c0_seq1	L47	25.8729491944693	comp124114_c0_seq1	L76	16.2368029264321	comp104015_c0_seq1	L115	35.8172621450583
comp115504_c0_seq1	L24	22.6392886773476	comp104715_c0_seq1	L47	25.8729491944693	comp125219_c0_seq1	L76	16.2368029264321	comp107748_c0_seq1	L115	35.8172621450583
comp115773_c0_seq1	L24	22.6392886773476	comp116486_c0_seq1	L47	25.8729491944693	comp126669_c0_seq1	L76	16.2368029264321	comp109944_c0_seq1	L115	35.8172621450583
comp116349_c0_seq1	L24	22.6392886773476	comp117425_c0_seq1	L47	25.8729491944693	comp52411_c0_seq1	L76	16.2368029264321	comp110651_c0_seq1	L115	35.8172621450583
comp117366_c0_seq1	L24	22.6392886773476	comp117727_c1_seq1	L47	25.8729491944693	comp124512_c0_seq1	L76	17.8502659548714	comp113243_c0_seq1	L115	35.8172621450583
comp119625_c0_seq1	L24	22.6392886773476	comp120613_c2_seq1	L47	25.8729491944693	comp104684_c0_seq1	L76	19.4637289833107	comp118488_c0_seq1	L115	35.8172621450583
comp120692_c0_seq1	L24	22.6392886773476	comp122115_c0_seq1	L47	25.8729491944693	comp106664_c0_seq1	L76	19.4637289833107	comp118724_c0_seq2	L115	35.8172621450583
comp121273_c0_seq1	L24	22.6392886773476	comp123088_c0_seq1	L47	25.8729491944693	comp110613_c0_seq2	L76	19.4637289833107	comp121764_c0_seq1	L115	35.8172621450583
comp121273_c3_seq1	L24	22.6392886773476	comp123092_c0_seq1	L47	25.8729491944693	comp113064_c0_seq2	L76	19.4637289833107	comp86415_c0_seq1	L115	35.8172621450583
comp121658_c1_seq1	L24	22.6392886773476	comp125182_c1_seq1	L47	25.8729491944693	comp119288_c0_seq1	L76	19.4637289833107	comp96639_c0_seq1	L115	35.8172621450583
comp122955_c0_seq1	L24	22.6392886773476	comp127793_c1_seq1	L47	25.8729491944693	comp119895_c0_seq1	L76	19.4637289833107	comp97135_c0_seq1	L115	35.8172621450583

comp123877_c0_seq1	L24	22.6392886773476	comp29728_c0_seq1	L47	25.8729491944693	comp128718_c0_seq1	L76	19.4637289833107	comp103100_c0_seq1	L115	37.4307251734976
comp125666_c0_seq1	L24	22.6392886773476	comp91326_c0_seq1	L47	25.8729491944693	comp131053_c1_seq1	L76	19.4637289833107	comp118174_c1_seq1	L115	37.4307251734976
comp127148_c0_seq1	L24	22.6392886773476	comp94080_c0_seq1	L47	25.8729491944693	comp133251_c1_seq1	L76	19.4637289833107	comp79346_c0_seq1	L115	37.4307251734976
comp128830_c0_seq1	L24	22.6392886773476	comp96863_c0_seq1	L47	25.8729491944693	comp131744_c0_seq1	L76	21.0771920117499	comp94744_c0_seq1	L115	37.4307251734976
comp128963_c0_seq2	L24	22.6392886773476	comp96916_c0_seq1	L47	25.8729491944693	comp131744_c1_seq1	L76	21.0771920117499	comp96325_c0_seq1	L115	37.4307251734976
comp129500_c0_seq1	L24	22.6392886773476	comp100345_c0_seq1	L47	30.7268495554933	comp133975_c0_seq1	L76	21.0771920117499	comp113474_c0_seq1	L115	40.6610184604977
comp130662_c0_seq1	L24	22.6392886773476	comp102020_c0_seq1	L47	30.7268495554933	comp113643_c0_seq1	L76	22.6906550401892	comp103349_c0_seq1	L115	42.274481488937
comp130707_c0_seq1	L24	22.6392886773476	comp103223_c0_seq1	L47	30.7268495554933	comp122405_c0_seq3	L76	22.6906550401892	comp119106_c0_seq1	L115	42.274481488937
comp131024_c0_seq1	L24	22.6392886773476	comp105215_c0_seq2	L47	30.7268495554933	comp123775_c0_seq1	L76	22.6906550401892	comp126034_c0_seq1	L115	42.274481488937
comp131894_c0_seq1	L24	22.6392886773476	comp105661_c0_seq1	L47	30.7268495554933	comp130027_c0_seq3	L76	22.6906550401892	comp108163_c0_seq1	L115	43.8879445173763
comp132419_c0_seq1	L24	22.6392886773476	comp105868_c0_seq1	L47	30.7268495554933	comp132110_c0_seq1	L76	22.6906550401892	comp112478_c0_seq1	L115	43.8879445173763
comp14315_c0_seq1	L24	22.6392886773476	comp110230_c1_seq3	L47	30.7268495554933	comp100746_c0_seq1	L76	24.3041180686285	comp111958_c0_seq1	L115	47.1182378043764
comp22546_c0_seq1	L24	22.6392886773476	comp112062_c0_seq1	L47	30.7268495554933	comp116279_c0_seq1	L76	24.3041180686285	comp114546_c0_seq1	L115	47.1182378043764
comp32435_c0_seq1	L24	22.6392886773476	comp116776_c0_seq1	L47	30.7268495554933	comp68919_c0_seq1	L76	24.3041180686285	comp123520_c3_seq1	L115	47.1182378043764
comp37810_c0_seq1	L24	22.6392886773476	comp116879_c0_seq1	L47	30.7268495554933	comp127128_c0_seq1	L76	25.9175810970678	comp123914_c0_seq2	L115	47.1182378043764
comp40369_c1_seq1	L24	22.6392886773476	comp120852_c0_seq1	L47	30.7268495554933	comp130867_c1_seq1	L76	34.0531411079335	comp129528_c0_seq1	L115	47.1182378043764
comp40595_c0_seq1	L24	22.6392886773476	comp125473_c1_seq1	L47	30.7268495554933	comp88870_c0_seq1	L76	34.0531411079335	comp80882_c0_seq1	L115	47.1182378043764
comp46648_c0_seq1	L24	22.6392886773476	comp126682_c0_seq1	L47	30.7268495554933	comp89722_c0_seq1	L76	34.0531411079335	comp108717_c0_seq1	L115	48.7317008328157
comp47441_c0_seq1	L24	22.6392886773476	comp129350_c0_seq3	L47	30.7268495554933	comp111394_c0_seq1	L76	35.6666041363727	comp111280_c0_seq1	L115	48.7317008328157
comp52611_c0_seq1	L24	22.6392886773476	comp129493_c0_seq1	L47	30.7268495554933	comp112828_c0_seq1	L76	35.6666041363727	comp120812_c0_seq1	L115	48.7317008328157
comp54981_c0_seq1	L24	22.6392886773476	comp130252_c0_seq1	L47	30.7268495554933	comp114479_c0_seq1	L76	35.6666041363727	comp127424_c0_seq1	L115	48.7317008328157
comp56598_c0_seq1	L24	22.6392886773476	comp43751_c0_seq1	L47	30.7268495554933	comp123004_c0_seq1	L76	35.6666041363727	comp81136_c0_seq1	L115	48.7317008328157
comp78247_c0_seq1	L24	22.6392886773476	comp69564_c0_seq1	L47	30.7268495554933	comp130276_c0_seq1	L76	35.6666041363727	comp92175_c0_seq1	L115	48.7317008328157
comp83875_c0_seq1	L24	22.6392886773476	comp71717_c0_seq1	L47	30.7268495554933	comp57289_c0_seq1	L76	35.6666041363727	comp96917_c0_seq2	L115	48.7317008328157
comp90269_c0_seq1	L24	22.6392886773476	comp75609_c0_seq1	L47	30.7268495554933	comp88520_c0_seq1	L76	35.6666041363727	comp46673_c0_seq1	L116	0
comp90625_c0_seq1	L24	22.6392886773476	comp78614_c0_seq1	L47	30.7268495554933	comp101916_c0_seq1	L76	38.8968974233729	comp133493_c0_seq1	L116	1.61346302843928
comp93594_c2_seq1	L24	22.6392886773476	comp89916_c0_seq1	L47	30.7268495554933	comp104107_c0_seq1	L76	38.8968974233729	comp120903_c0_seq1	L116	6.46736338946321
comp95833_c0_seq1	L24	22.6392886773476	comp92625_c0_seq1	L47	30.7268495554933	comp107011_c0_seq1	L76	38.8968974233729	comp128759_c0_seq1	L116	6.46736338946321
comp95914_c0_seq1	L24	22.6392886773476	comp92909_c0_seq1	L47	30.7268495554933	comp107844_c0_seq1	L76	38.8968974233729	comp104053_c0_seq1	L116	16.2684155838638

comp96588_c0_seq1	L24	22.6392886773476	comp95202_c0_seq3	L47	30.7268495554933	comp108765_c0_seq1	L76	38.8968974233729	comp122302_c3_seq1	L116	16.2684155838638
comp97216_c0_seq1	L24	22.6392886773476	comp96092_c0_seq1	L47	30.7268495554933	comp110467_c0_seq1	L76	38.8968974233729	comp123580_c1_seq1	L116	16.2684155838638
comp99725_c0_seq1	L24	22.6392886773476	comp97166_c0_seq1	L47	30.7268495554933	comp111526_c0_seq1	L76	38.8968974233729	comp124516_c1_seq1	L116	16.2684155838638
comp103392_c0_seq1	L25	0	comp110819_c0_seq1	L48	0	comp112747_c0_seq1	L76	38.8968974233729	comp125356_c0_seq1	L116	16.2684155838638
comp119623_c0_seq1	L25	0	comp125899_c0_seq1	L48	0	comp119017_c0_seq1	L76	38.8968974233729	comp128656_c0_seq1	L116	16.2684155838638
comp59555_c0_seq1	L25	0	comp121642_c0_seq1	L48	3.23029328700015	comp119247_c0_seq1	L76	38.8968974233729	comp128844_c0_seq1	L116	16.2684155838638
comp96723_c0_seq1	L25	0	comp101658_c0_seq1	L48	4.84375631543943	comp120657_c0_seq2	L76	38.8968974233729	comp129844_c1_seq1	L116	16.2684155838638
comp87565_c0_seq1	L25	3.23029328700015	comp108136_c0_seq2	L48	4.84375631543943	comp120863_c0_seq1	L76	38.8968974233729	comp131349_c0_seq1	L116	16.2684155838638
comp92742_c0_seq1	L25	3.23029328700015	comp114424_c0_seq1	L48	4.84375631543943	comp122019_c0_seq1	L76	38.8968974233729	comp132416_c0_seq1	L116	16.2684155838638
comp129971_c0_seq1	L25	4.84375631543943	comp118430_c0_seq1	L48	4.84375631543943	comp123033_c0_seq1	L76	38.8968974233729	comp83663_c0_seq1	L116	16.2684155838638
comp107429_c0_seq1	L25	12.9793163263051	comp121142_c0_seq1	L48	4.84375631543943	comp125172_c0_seq1	L76	38.8968974233729	comp87213_c0_seq1	L116	16.2684155838638
comp115824_c1_seq1	L25	14.5927793547444	comp131850_c0_seq1	L48	4.84375631543943	comp125523_c0_seq1	L76	38.8968974233729	comp88179_c0_seq1	L116	16.2684155838638
comp117013_c0_seq1	L25	14.5927793547444	comp48863_c0_seq1	L48	4.84375631543943	comp128974_c2_seq1	L76	38.8968974233729	comp97059_c0_seq1	L116	16.2684155838638
comp107502_c0_seq1	L25	17.8230726417446	comp96716_c0_seq1	L48	4.84375631543943	comp131630_c1_seq1	L76	38.8968974233729	comp129093_c0_seq4	L116	24.4039755947295
comp126505_c0_seq1	L25	17.8230726417446	comp106370_c0_seq1	L48	8.07404960243958	comp132972_c0_seq2	L76	38.8968974233729	comp124333_c2_seq1	L116	27.6342688817297
comp105744_c0_seq1	L25	27.6241248361452	comp111004_c0_seq1	L48	8.07404960243958	comp134162_c0_seq1	L76	38.8968974233729	comp133783_c0_seq1	L116	34.1220487688568
comp109751_c0_seq1	L25	27.6241248361452	comp112954_c0_seq1	L48	8.07404960243958	comp23342_c0_seq1	L76	38.8968974233729	comp66399_c0_seq1	L116	37.3523420558569
comp113427_c0_seq1	L25	27.6241248361452	comp122259_c0_seq1	L48	8.07404960243958	comp42573_c0_seq1	L76	38.8968974233729	comp105574_c0_seq1	L116	40.5826353428571
comp113455_c0_seq1	L25	27.6241248361452	comp126639_c0_seq1	L48	8.07404960243958	comp42961_c0_seq1	L76	38.8968974233729	comp115917_c0_seq1	L116	40.5826353428571
comp115041_c1_seq1	L25	27.6241248361452	comp128287_c0_seq1	L48	8.07404960243958	comp46686_c0_seq1	L76	38.8968974233729	comp123636_c0_seq1	L116	42.1960983712964
comp120262_c0_seq1	L25	27.6241248361452	comp78276_c0_seq1	L48	8.07404960243958	comp59323_c0_seq1	L76	38.8968974233729	comp127884_c0_seq1	L116	42.1960983712964
comp131045_c0_seq1	L25	27.6241248361452	comp104359_c0_seq1	L48	16.2096096133053	comp60878_c0_seq1	L76	38.8968974233729	comp82621_c0_seq1	L116	42.1960983712964
comp131045_c1_seq1	L25	27.6241248361452	comp68518_c0_seq1	L48	16.2096096133053	comp61320_c0_seq1	L76	38.8968974233729	comp120672_c0_seq4	L116	45.4263916582965
comp131248_c0_seq4	L25	27.6241248361452	comp79219_c0_seq2	L48	16.2096096133053	comp63218_c0_seq1	L76	38.8968974233729	comp122828_c0_seq1	L116	45.4263916582965
comp131776_c0_seq1	L25	27.6241248361452	comp84528_c0_seq1	L48	16.2096096133053	comp71045_c0_seq1	L76	38.8968974233729	comp123525_c0_seq2	L116	45.4263916582965
comp132268_c0_seq1	L25	27.6241248361452	comp84874_c0_seq1	L48	16.2096096133053	comp71045_c1_seq1	L76	38.8968974233729	comp126654_c0_seq1	L116	45.4263916582965
comp86036_c0_seq1	L25	27.6241248361452	comp96371_c0_seq2	L48	16.2096096133053	comp74464_c0_seq1	L76	38.8968974233729	comp99947_c0_seq1	L116	45.4263916582965
comp95323_c0_seq1	L25	27.6241248361452	comp107821_c0_seq1	L48	17.8230726417446	comp77665_c0_seq1	L76	38.8968974233729	comp117578_c1_seq1	L116	48.6566849452967
comp111083_c0_seq1	L25	35.7596848470109	comp126524_c0_seq1	L48	17.8230726417446	comp77907_c0_seq1	L76	38.8968974233729	comp93730_c0_seq1	L116	48.6566849452967

comp117647_c0_seq2	L25	35.7596848470109	comp130302_c0_seq2	L48	17.8230726417446	comp80367_c0_seq1	L76	38.8968974233729	comp102339_c0_seq2	L116	53.5105853063206
comp122146_c0_seq1	L25	35.7596848470109	comp84750_c0_seq1	L48	17.8230726417446	comp84179_c0_seq1	L76	38.8968974233729	comp103345_c0_seq1	L116	53.5105853063206
comp125473_c0_seq1	L25	35.7596848470109	comp96896_c0_seq1	L48	17.8230726417446	comp84483_c0_seq1	L76	38.8968974233729	comp118821_c0_seq1	L116	53.5105853063206
comp128171_c0_seq3	L25	35.7596848470109	comp100528_c0_seq1	L48	19.4365356701838	comp90489_c0_seq1	L76	38.8968974233729	comp122647_c1_seq1	L116	53.5105853063206
comp131489_c0_seq2	L25	35.7596848470109	comp133815_c0_seq1	L48	19.4365356701838	comp90523_c0_seq1	L76	38.8968974233729	comp128497_c0_seq1	L116	53.5105853063206
comp43758_c0_seq1	L25	35.7596848470109	comp93314_c0_seq1	L48	19.4365356701838	comp96260_c0_seq1	L76	38.8968974233729	comp89084_c0_seq1	L116	53.5105853063206
comp78258_c1_seq1	L25	35.7596848470109	comp93381_c0_seq1	L48	19.4365356701838	comp96866_c0_seq1	L76	38.8968974233729	comp105655_c1_seq1	L116	58.3644856673445
comp85926_c0_seq2	L25	35.7596848470109	comp116222_c0_seq1	L48	21.0499986986231	comp109470_c1_seq1	L77	0	comp106904_c1_seq1	L116	58.3644856673445
comp106634_c0_seq1	L25	37.3731478754501	comp118379_c2_seq1	L48	21.0499986986231	comp113366_c0_seq1	L77	0	comp114529_c3_seq2	L116	58.3644856673445
comp107014_c0_seq1	L25	37.3731478754501	comp121058_c0_seq1	L48	21.0499986986231	comp122568_c2_seq1	L77	0	comp116305_c0_seq1	L116	58.3644856673445
comp119042_c0_seq1	L25	37.3731478754501	comp123550_c0_seq2	L48	21.0499986986231	comp124465_c0_seq1	L77	0	comp124732_c0_seq1	L116	58.3644856673445
comp124001_c0_seq1	L25	37.3731478754501	comp126067_c0_seq1	L48	21.0499986986231	comp127024_c2_seq1	L77	0	comp17590_c0_seq1	L116	58.3644856673445
comp126915_c0_seq1	L25	37.3731478754501	comp133196_c0_seq1	L48	21.0499986986231	comp83115_c0_seq1	L77	0	comp32623_c0_seq1	L116	58.3644856673445
comp129308_c2_seq2	L25	37.3731478754501	comp99465_c0_seq1	L48	21.0499986986231	comp101361_c0_seq1	L77	4.85390036102393	comp56805_c0_seq1	L116	58.3644856673445
comp131484_c0_seq3	L25	37.3731478754501	comp109511_c0_seq1	L48	24.2802919856233	comp106132_c0_seq1	L77	4.85390036102393	comp63187_c0_seq1	L116	58.3644856673445
comp97171_c0_seq1	L25	37.3731478754501	comp110963_c0_seq1	L48	24.2802919856233	comp110807_c0_seq1	L77	11.341680248151	comp66213_c0_seq1	L116	58.3644856673445
comp100170_c0_seq1	L25	42.2270482364741	comp122118_c2_seq1	L48	24.2802919856233	comp122662_c0_seq1	L77	11.341680248151	comp73166_c0_seq1	L116	58.3644856673445
comp101291_c0_seq1	L25	42.2270482364741	comp122942_c0_seq1	L48	24.2802919856233	comp126911_c0_seq1	L77	11.341680248151	comp80051_c0_seq1	L116	58.3644856673445
comp107099_c0_seq1	L25	42.2270482364741	comp123456_c0_seq1	L48	24.2802919856233	comp101930_c0_seq1	L77	14.5719735351512	comp80462_c0_seq1	L116	58.3644856673445
comp108090_c0_seq1	L25	42.2270482364741	comp82253_c0_seq1	L48	24.2802919856233	comp101930_c1_seq1	L77	14.5719735351512	comp80992_c0_seq1	L116	58.3644856673445
comp109370_c0_seq1	L25	42.2270482364741	comp102050_c0_seq1	L48	25.8937550140626	comp102051_c0_seq1	L77	14.5719735351512	comp83374_c0_seq1	L116	58.3644856673445
comp109373_c0_seq1	L25	42.2270482364741	comp105648_c0_seq1	L48	25.8937550140626	comp119940_c0_seq2	L77	14.5719735351512	comp83957_c0_seq1	L116	58.3644856673445
comp110938_c0_seq1	L25	42.2270482364741	comp117556_c0_seq1	L48	25.8937550140626	comp125467_c0_seq1	L77	14.5719735351512	comp87649_c0_seq1	L116	58.3644856673445
comp113132_c0_seq2	L25	42.2270482364741	comp121007_c0_seq1	L48	25.8937550140626	comp130557_c0_seq1	L77	14.5719735351512	comp88417_c0_seq1	L116	58.3644856673445
comp113886_c0_seq1	L25	42.2270482364741	comp121150_c0_seq1	L48	25.8937550140626	comp94580_c0_seq1	L77	14.5719735351512	comp88592_c0_seq1	L116	58.3644856673445
comp115696_c0_seq1	L25	42.2270482364741	comp127446_c1_seq1	L48	25.8937550140626	comp101792_c0_seq1	L77	22.7075335460169	comp88798_c0_seq1	L116	58.3644856673445
comp116688_c1_seq1	L25	42.2270482364741	comp130357_c0_seq1	L48	25.8937550140626	comp105226_c0_seq1	L77	22.7075335460169	comp88999_c0_seq1	L116	58.3644856673445
comp116833_c0_seq1	L25	42.2270482364741	comp131209_c0_seq1	L48	25.8937550140626	comp111152_c1_seq3	L77	22.7075335460169	comp90745_c0_seq1	L116	58.3644856673445
comp117237_c0_seq1	L25	42.2270482364741	comp131463_c1_seq2	L48	25.8937550140626	comp121041_c0_seq1	L77	22.7075335460169	comp94225_c0_seq1	L116	58.3644856673445

comp117310_c0_seq1	L25	42.2270482364741	comp131634_c0_seq3	L48	25.8937550140626	comp123573_c0_seq1	L77	22.7075335460169	comp96060_c0_seq1	L116	58.3644856673445
comp117819_c1_seq1	L25	42.2270482364741	comp132680_c0_seq1	L48	25.8937550140626	comp123899_c0_seq2	L77	22.7075335460169	comp96705_c0_seq1	L116	58.3644856673445
comp118771_c0_seq1	L25	42.2270482364741	comp132890_c0_seq1	L48	25.8937550140626	comp126862_c0_seq1	L77	22.7075335460169	comp103481_c1_seq1	L116	59.9779486957838
comp118790_c0_seq1	L25	42.2270482364741	comp132988_c0_seq1	L48	25.8937550140626	comp127023_c0_seq1	L77	22.7075335460169	comp111483_c0_seq1	L116	59.9779486957838
comp120084_c0_seq1	L25	42.2270482364741	comp133243_c0_seq1	L48	25.8937550140626	comp131440_c0_seq1	L77	22.7075335460169	comp112180_c0_seq1	L116	59.9779486957838
comp121236_c0_seq1	L25	42.2270482364741	comp133602_c0_seq1	L48	25.8937550140626	comp131846_c1_seq1	L77	22.7075335460169	comp125631_c0_seq1	L116	59.9779486957838
comp123451_c0_seq1	L25	42.2270482364741	comp133709_c0_seq1	L48	25.8937550140626	comp54701_c0_seq1	L77	22.7075335460169	comp43169_c0_seq1	L116	59.9779486957838
comp123911_c0_seq1	L25	42.2270482364741	comp133954_c0_seq1	L48	25.8937550140626	comp89175_c0_seq1	L77	22.7075335460169	comp59762_c0_seq1	L116	59.9779486957838
comp124033_c0_seq1	L25	42.2270482364741	comp74777_c0_seq1	L48	25.8937550140626	comp94105_c0_seq2	L77	22.7075335460169	comp69109_c0_seq1	L116	59.9779486957838
comp124160_c0_seq1	L25	42.2270482364741	comp88157_c1_seq1	L48	25.8937550140626	comp111241_c0_seq1	L77	24.3209965744562	comp85774_c0_seq1	L116	59.9779486957838
comp126298_c0_seq1	L25	42.2270482364741	comp99092_c0_seq2	L48	25.8937550140626	comp112437_c0_seq1	L77	24.3209965744562	comp86275_c0_seq1	L116	59.9779486957838
comp126417_c0_seq1	L25	42.2270482364741	comp117442_c0_seq1	L48	32.3815349011897	comp115515_c0_seq3	L77	24.3209965744562	comp87656_c0_seq1	L116	59.9779486957838
comp126600_c0_seq2	L25	42.2270482364741	comp121476_c1_seq1	L48	32.3815349011897	comp120589_c0_seq1	L77	24.3209965744562	comp88813_c0_seq1	L116	59.9779486957838
comp126857_c1_seq1	L25	42.2270482364741	comp100359_c0_seq1	L48	33.9949979296289	comp121157_c0_seq1	L77	24.3209965744562	comp89420_c1_seq1	L116	59.9779486957838
comp126859_c0_seq1	L25	42.2270482364741	comp111407_c0_seq1	L48	33.9949979296289	comp121785_c0_seq1	L77	24.3209965744562	comp89601_c0_seq1	L116	59.9779486957838
comp126941_c1_seq3	L25	42.2270482364741	comp115458_c0_seq1	L48	33.9949979296289	comp122484_c0_seq1	L77	24.3209965744562	comp90694_c0_seq2	L116	59.9779486957838
comp127510_c0_seq3	L25	42.2270482364741	comp118408_c0_seq1	L48	33.9949979296289	comp123146_c0_seq1	L77	24.3209965744562	comp91182_c0_seq1	L116	59.9779486957838
comp127735_c0_seq3	L25	42.2270482364741	comp118408_c1_seq1	L48	33.9949979296289	comp125850_c0_seq1	L77	24.3209965744562	comp92112_c0_seq1	L116	59.9779486957838
comp128516_c0_seq1	L25	42.2270482364741	comp122516_c0_seq1	L48	33.9949979296289	comp125998_c0_seq1	L77	24.3209965744562	comp97297_c0_seq1	L116	59.9779486957838
comp128971_c0_seq1	L25	42.2270482364741	comp123546_c0_seq1	L48	33.9949979296289	comp130314_c0_seq1	L77	24.3209965744562	comp97920_c0_seq1	L116	59.9779486957838
comp128971_c1_seq1	L25	42.2270482364741	comp67809_c0_seq1	L48	33.9949979296289	comp132349_c0_seq2	L77	24.3209965744562	comp111037_c0_seq1	L117	0
comp130423_c0_seq2	L25	42.2270482364741	comp98004_c0_seq1	L48	33.9949979296289	comp133182_c0_seq2	L77	24.3209965744562	comp115169_c2_seq1	L117	0
comp130805_c1_seq2	L25	42.2270482364741	comp101839_c0_seq1	L48	37.2252912166291	comp84908_c0_seq1	L77	24.3209965744562	comp120381_c1_seq1	L117	0
comp132437_c6_seq1	L25	42.2270482364741	comp104428_c1_seq1	L48	37.2252912166291	comp124575_c1_seq1	L77	27.5512898614563	comp122715_c0_seq1	L117	0
comp132740_c1_seq1	L25	42.2270482364741	comp106776_c0_seq1	L48	37.2252912166291	comp127282_c0_seq1	L77	27.5512898614563	comp126485_c0_seq1	L117	0
comp133312_c0_seq1	L25	42.2270482364741	comp113596_c0_seq1	L48	37.2252912166291	comp127420_c0_seq2	L77	27.5512898614563	comp94808_c0_seq1	L117	0
comp63526_c0_seq1	L25	42.2270482364741	comp117639_c0_seq1	L48	37.2252912166291	comp129886_c0_seq1	L77	27.5512898614563	comp97218_c0_seq1	L117	0
comp68666_c0_seq1	L25	42.2270482364741	comp126221_c1_seq2	L48	37.2252912166291	comp132743_c0_seq1	L77	27.5512898614563	comp122791_c0_seq1	L117	1.61346302843928
comp72382_c0_seq1	L25	42.2270482364741	comp129281_c0_seq1	L48	37.2252912166291	comp107833_c0_seq1	L77	30.7815831484565	comp130500_c0_seq2	L117	1.61346302843928



comp73296_c1_seq1	L25	42.2270482364741	comp73313_c0_seq1	L48	37.2252912166291	comp112676_c0_seq1	L77	30.7815831484565	comp133137_c0_seq1	L117	1.61346302843928
comp77455_c0_seq4	L25	42.2270482364741	comp73499_c0_seq2	L48	37.2252912166291	comp112724_c0_seq1	L77	30.7815831484565	comp106872_c0_seq1	L117	3.22692605687856
comp80085_c0_seq1	L25	42.2270482364741	comp88846_c0_seq1	L48	37.2252912166291	comp113503_c0_seq1	L77	30.7815831484565	comp108173_c0_seq1	L117	3.22692605687856
comp84095_c0_seq1	L25	42.2270482364741	comp93262_c0_seq1	L48	37.2252912166291	comp115423_c0_seq1	L77	30.7815831484565	comp124137_c0_seq1	L117	3.22692605687856
comp88747_c0_seq1	L25	42.2270482364741	comp95022_c0_seq1	L48	37.2252912166291	comp118396_c0_seq1	L77	30.7815831484565	comp94829_c0_seq1	L117	3.22692605687856
comp88747_c2_seq1	L25	42.2270482364741	comp97113_c0_seq1	L48	37.2252912166291	comp122110_c0_seq1	L77	30.7815831484565	comp102387_c2_seq1	L117	14.7152342913396
comp90534_c0_seq1	L25	42.2270482364741	comp48481_c0_seq1	L48	38.8387542450684	comp124201_c1_seq1	L77	30.7815831484565	comp105699_c0_seq1	L117	14.7152342913396
comp90743_c0_seq1	L25	42.2270482364741	comp52865_c0_seq1	L48	38.8387542450684	comp132465_c0_seq1	L77	30.7815831484565	comp107414_c2_seq1	L117	14.7152342913396
comp92540_c0_seq1	L25	42.2270482364741	comp74727_c1_seq1	L48	38.8387542450684	comp70329_c0_seq1	L77	30.7815831484565	comp114332_c0_seq1	L117	14.7152342913396
comp92948_c1_seq1	L25	42.2270482364741	comp103174_c0_seq1	L48	40.4522172735076	comp93212_c0_seq1	L77	30.7815831484565	comp124724_c1_seq1	L117	14.7152342913396
comp93692_c0_seq1	L25	42.2270482364741	comp111650_c0_seq1	L48	40.4522172735076	comp121297_c0_seq1	L77	34.0118764354566	comp68933_c0_seq1	L117	14.7152342913396
comp95307_c0_seq1	L25	42.2270482364741	comp114820_c1_seq1	L48	40.4522172735076	comp124288_c0_seq1	L77	34.0118764354566	comp116481_c0_seq1	L118	0
comp98540_c0_seq1	L25	42.2270482364741	comp115846_c0_seq1	L48	40.4522172735076	comp125266_c0_seq1	L77	34.0118764354566	comp117615_c0_seq1	L118	0
comp99332_c0_seq1	L25	42.2270482364741	comp116299_c0_seq1	L48	40.4522172735076	comp100747_c0_seq1	L77	35.6253394638959	comp109921_c0_seq1	L118	1.61346302843928
comp99508_c0_seq1	L25	42.2270482364741	comp127110_c0_seq2	L48	40.4522172735076	comp101088_c0_seq1	L77	35.6253394638959	comp114441_c0_seq1	L118	1.61346302843928
comp110791_c0_seq1	L25	47.080948597498	comp130806_c0_seq1	L48	40.4522172735076	comp102733_c0_seq1	L77	35.6253394638959	comp120178_c4_seq1	L118	1.61346302843928
comp114325_c0_seq1	L25	47.080948597498	comp27178_c0_seq1	L48	40.4522172735076	comp104138_c0_seq1	L77	35.6253394638959	comp8648_c0_seq1	L118	1.61346302843928
comp128279_c1_seq1	L25	47.080948597498	comp28282_c0_seq1	L48	40.4522172735076	comp104618_c0_seq1	L77	35.6253394638959	comp106193_c1_seq1	L118	4.84375631543943
comp83332_c1_seq1	L25	47.080948597498	comp28656_c0_seq1	L48	40.4522172735076	comp105044_c0_seq1	L77	35.6253394638959	comp120086_c0_seq1	L118	4.84375631543943
comp94831_c0_seq1	L25	47.080948597498	comp39865_c0_seq1	L48	40.4522172735076	comp105168_c0_seq1	L77	35.6253394638959	comp126181_c1_seq1	L118	4.84375631543943
comp100151_c0_seq1	L25	48.6944116259373	comp44161_c0_seq1	L48	40.4522172735076	comp105399_c0_seq1	L77	35.6253394638959	comp129894_c0_seq2	L118	4.84375631543943
comp101907_c0_seq1	L25	48.6944116259373	comp61908_c0_seq2	L48	40.4522172735076	comp105792_c0_seq1	L77	35.6253394638959	comp99018_c0_seq1	L118	4.84375631543943
comp102736_c0_seq1	L25	48.6944116259373	comp66392_c0_seq1	L48	40.4522172735076	comp106310_c0_seq1	L77	35.6253394638959	comp102407_c0_seq1	L118	6.45721934387871
comp104415_c0_seq1	L25	48.6944116259373	comp71804_c0_seq3	L48	40.4522172735076	comp107221_c0_seq1	L77	35.6253394638959	comp111301_c0_seq1	L118	6.45721934387871
comp107419_c0_seq1	L25	48.6944116259373	comp75231_c0_seq1	L48	40.4522172735076	comp107848_c0_seq1	L77	35.6253394638959	comp129543_c2_seq1	L118	6.45721934387871
comp108259_c0_seq1	L25	48.6944116259373	comp81782_c0_seq1	L48	40.4522172735076	comp108345_c0_seq1	L77	35.6253394638959	comp90498_c1_seq1	L118	6.45721934387871
comp109187_c0_seq1	L25	48.6944116259373	comp84963_c0_seq2	L48	40.4522172735076	comp109104_c0_seq1	L77	35.6253394638959	comp91183_c0_seq1	L118	6.45721934387871
comp110146_c0_seq1	L25	48.6944116259373	comp87775_c0_seq1	L48	40.4522172735076	comp109935_c0_seq1	L77	35.6253394638959	comp102587_c0_seq1	L119	0
comp111545_c0_seq1	L25	48.6944116259373	comp90882_c0_seq1	L48	40.4522172735076	comp110161_c0_seq1	L77	35.6253394638959	comp105826_c0_seq1	L119	0

comp112230_c0_seq1	L25	48.6944116259373	comp96158_c0_seq1	L48	40.4522172735076	comp111194_c0_seq1	L77	35.6253394638959	comp128165_c1_seq1	L119	0
comp112654_c0_seq1	L25	48.6944116259373	comp96706_c0_seq1	L48	40.4522172735076	comp111194_c1_seq1	L77	35.6253394638959	comp106511_c1_seq1	L119	1.61346302843928
comp112855_c0_seq1	L25	48.6944116259373	comp97501_c0_seq1	L48	40.4522172735076	comp112411_c0_seq1	L77	35.6253394638959	comp113665_c0_seq1	L119	1.61346302843928
comp114476_c0_seq2	L25	48.6944116259373	comp111701_c0_seq1	L49	0	comp113553_c0_seq1	L77	35.6253394638959	comp115659_c0_seq1	L119	1.61346302843928
comp115564_c0_seq1	L25	48.6944116259373	comp113717_c0_seq1	L49	0	comp115142_c0_seq1	L77	35.6253394638959	comp117002_c0_seq1	L119	1.61346302843928
comp115620_c0_seq1	L25	48.6944116259373	comp67322_c0_seq1	L49	0	comp115158_c1_seq2	L77	35.6253394638959	comp78784_c0_seq1	L119	1.61346302843928
comp115647_c0_seq1	L25	48.6944116259373	comp121248_c0_seq1	L49	4.85390036102393	comp115610_c0_seq1	L77	35.6253394638959	comp82205_c0_seq1	L119	1.61346302843928
comp115795_c0_seq1	L25	48.6944116259373	comp124693_c0_seq1	L49	4.85390036102393	comp116340_c1_seq1	L77	35.6253394638959	comp89592_c0_seq1	L119	6.46736338946321
comp120383_c0_seq1	L25	48.6944116259373	comp125278_c0_seq1	L49	4.85390036102393	comp116447_c0_seq1	L77	35.6253394638959	comp126673_c0_seq1	L119	8.08082641790249
comp122355_c0_seq1	L25	48.6944116259373	comp129491_c0_seq1	L49	4.85390036102393	comp117120_c0_seq1	L77	35.6253394638959	comp111439_c3_seq1	L119	11.3111197049026
comp122820_c0_seq1	L25	48.6944116259373	comp72997_c0_seq1	L49	4.85390036102393	comp118257_c0_seq1	L77	35.6253394638959	comp124173_c0_seq1	L119	11.3111197049026
comp131245_c0_seq1	L25	48.6944116259373	comp118459_c0_seq1	L49	8.08419364802409	comp119538_c0_seq1	L77	35.6253394638959	comp70171_c0_seq1	L119	11.3111197049026
comp45418_c0_seq1	L25	48.6944116259373	comp124890_c0_seq1	L49	8.08419364802409	comp120765_c0_seq1	L77	35.6253394638959	comp71116_c0_seq1	L119	11.3111197049026
comp54616_c0_seq1	L25	48.6944116259373	comp127788_c0_seq1	L49	8.08419364802409	comp120820_c1_seq1	L77	35.6253394638959	comp93465_c0_seq3	L119	12.9245827333419
comp62594_c0_seq1	L25	48.6944116259373	comp128743_c0_seq1	L49	8.08419364802409	comp123032_c1_seq1	L77	35.6253394638959	comp102565_c0_seq1	L119	14.5380457617812
comp63888_c0_seq1	L25	48.6944116259373	comp132569_c0_seq1	L49	8.08419364802409	comp123743_c0_seq1	L77	35.6253394638959	comp104168_c0_seq1	L119	14.5380457617812
comp68032_c0_seq1	L25	48.6944116259373	comp76976_c0_seq1	L49	8.08419364802409	comp124598_c1_seq1	L77	35.6253394638959	comp114983_c0_seq1	L119	14.5380457617812
comp70427_c0_seq1	L25	48.6944116259373	comp94414_c0_seq1	L49	8.08419364802409	comp124761_c0_seq1	L77	35.6253394638959	comp116291_c1_seq1	L119	14.5380457617812
comp71451_c0_seq2	L25	48.6944116259373	comp107768_c0_seq1	L49	21.2858794030365	comp125988_c0_seq1	L77	35.6253394638959	comp119903_c1_seq1	L119	14.5380457617812
comp73428_c0_seq1	L25	48.6944116259373	comp109545_c0_seq1	L49	21.2858794030365	comp127608_c1_seq1	L77	35.6253394638959	comp126919_c0_seq1	L119	14.5380457617812
comp73476_c0_seq1	L25	48.6944116259373	comp133803_c0_seq1	L49	21.2858794030365	comp127805_c0_seq2	L77	35.6253394638959	comp133088_c1_seq1	L119	14.5380457617812
comp78685_c0_seq1	L25	48.6944116259373	comp89313_c0_seq1	L49	21.2858794030365	comp128724_c0_seq1	L77	35.6253394638959	comp55828_c0_seq1	L119	14.5380457617812
comp8084_c0_seq1	L25	48.6944116259373	comp89313_c1_seq1	L49	21.2858794030365	comp128815_c0_seq1	L77	35.6253394638959	comp84651_c0_seq1	L119	14.5380457617812
comp81000_c0_seq1	L25	48.6944116259373	comp100360_c0_seq1	L49	22.8993424314758	comp128923_c0_seq1	L77	35.6253394638959	comp94283_c0_seq1	L119	14.5380457617812
comp85172_c0_seq1	L25	48.6944116259373	comp109643_c0_seq1	L49	22.8993424314758	comp129262_c0_seq1	L77	35.6253394638959	comp96216_c0_seq2	L119	14.5380457617812
comp87229_c0_seq1	L25	48.6944116259373	comp111259_c0_seq1	L49	22.8993424314758	comp129702_c0_seq1	L77	35.6253394638959	comp96236_c0_seq1	L119	14.5380457617812
comp87710_c0_seq1	L25	48.6944116259373	comp112365_c0_seq1	L49	22.8993424314758	comp130145_c0_seq1	L77	35.6253394638959	comp97184_c0_seq1	L119	14.5380457617812
comp88528_c0_seq1	L25	48.6944116259373	comp112365_c1_seq2	L49	22.8993424314758	comp130879_c0_seq6	L77	35.6253394638959	comp98644_c0_seq1	L119	14.5380457617812
comp91467_c0_seq1	L25	48.6944116259373	comp112848_c0_seq1	L49	22.8993424314758	comp131455_c0_seq1	L77	35.6253394638959	comp118373_c0_seq1	L120	0

comp92501_c0_seq2	L25	48.6944116259373	comp116374_c7_seq1	L49	22.8993424314758	comp131542_c0_seq1	L77	35.6253394638959	comp111236_c0_seq1	L120	6.48777988712711
comp96182_c0_seq1	L25	48.6944116259373	comp116889_c0_seq3	L49	22.8993424314758	comp132321_c1_seq1	L77	35.6253394638959	comp95113_c0_seq1	L120	6.48777988712711
comp96825_c0_seq1	L25	48.6944116259373	comp119069_c0_seq1	L49	22.8993424314758	comp132948_c0_seq1	L77	35.6253394638959	comp104023_c0_seq1	L120	16.2888320815277
comp99406_c0_seq1	L25	48.6944116259373	comp119138_c0_seq1	L49	22.8993424314758	comp25782_c0_seq1	L77	35.6253394638959	comp104110_c0_seq1	L120	16.2888320815277
comp100876_c0_seq1	L26	0	comp121700_c0_seq3	L49	22.8993424314758	comp28154_c0_seq1	L77	35.6253394638959	comp105741_c0_seq1	L120	16.2888320815277
comp101793_c0_seq1	L26	0	comp122060_c0_seq1	L49	22.8993424314758	comp42146_c0_seq1	L77	35.6253394638959	comp107811_c0_seq1	L120	16.2888320815277
comp101823_c0_seq1	L26	0	comp123563_c0_seq1	L49	22.8993424314758	comp49404_c0_seq1	L77	35.6253394638959	comp108020_c0_seq1	L120	16.2888320815277
comp102382_c0_seq1	L26	0	comp125872_c1_seq1	L49	22.8993424314758	comp61684_c0_seq1	L77	35.6253394638959	comp108926_c0_seq1	L120	16.2888320815277
comp102931_c0_seq1	L26	0	comp126945_c3_seq1	L49	22.8993424314758	comp72913_c0_seq1	L77	35.6253394638959	comp110665_c0_seq1	L120	16.2888320815277
comp104314_c0_seq1	L26	0	comp130013_c0_seq1	L49	22.8993424314758	comp80403_c0_seq1	L77	35.6253394638959	comp112181_c0_seq1	L120	16.2888320815277
comp104373_c0_seq1	L26	0	comp131712_c0_seq1	L49	22.8993424314758	comp88071_c0_seq1	L77	35.6253394638959	comp112569_c0_seq1	L120	16.2888320815277
comp105810_c0_seq1	L26	0	comp79237_c0_seq1	L49	22.8993424314758	comp89120_c0_seq1	L77	35.6253394638959	comp113901_c0_seq1	L120	16.2888320815277
comp109503_c0_seq2	L26	0	comp96880_c0_seq1	L49	22.8993424314758	comp89275_c0_seq1	L77	35.6253394638959	comp117167_c0_seq1	L120	16.2888320815277
comp109859_c0_seq2	L26	0	comp99496_c1_seq2	L49	22.8993424314758	comp89874_c0_seq1	L77	35.6253394638959	comp118777_c0_seq1	L120	16.2888320815277
comp112514_c0_seq1	L26	0	comp99550_c0_seq1	L49	22.8993424314758	comp92923_c0_seq1	L77	35.6253394638959	comp120283_c0_seq1	L120	16.2888320815277
comp112612_c0_seq1	L26	0	comp122180_c0_seq1	L49	26.1296357184759	comp93528_c0_seq1	L77	35.6253394638959	comp126009_c0_seq1	L120	16.2888320815277
comp112739_c0_seq1	L26	0	comp123653_c0_seq1	L49	26.1296357184759	comp94862_c0_seq1	L77	35.6253394638959	comp127549_c0_seq1	L120	16.2888320815277
comp113615_c0_seq1	L26	0	comp125207_c0_seq1	L49	26.1296357184759	comp96753_c0_seq1	L77	35.6253394638959	comp129154_c1_seq2	L120	16.2888320815277
comp113763_c0_seq1	L26	0	comp127005_c0_seq1	L49	26.1296357184759	comp97042_c0_seq1	L77	35.6253394638959	comp129937_c0_seq1	L120	16.2888320815277
comp113788_c0_seq1	L26	0	comp127421_c0_seq1	L49	26.1296357184759	comp97148_c0_seq1	L77	35.6253394638959	comp131717_c0_seq1	L120	16.2888320815277
comp114187_c0_seq1	L26	0	comp129144_c0_seq1	L49	26.1296357184759	comp102398_c0_seq1	L78	0	comp133407_c0_seq2	L120	16.2888320815277
comp115628_c0_seq2	L26	0	comp130268_c0_seq1	L49	26.1296357184759	comp103295_c0_seq1	L78	0	comp134574_c0_seq1	L120	16.2888320815277
comp115717_c1_seq1	L26	0	comp79634_c0_seq1	L49	26.1296357184759	comp130172_c0_seq3	L78	0	comp31192_c0_seq1	L120	16.2888320815277
comp118140_c0_seq1	L26	0	comp100541_c0_seq1	L49	29.3599290054761	comp103882_c0_seq1	L78	4.85390036102393	comp58698_c0_seq1	L120	16.2888320815277
comp121065_c0_seq1	L26	0	comp119976_c0_seq1	L49	29.3599290054761	comp109830_c0_seq2	L78	4.85390036102393	comp70740_c0_seq1	L120	16.2888320815277
comp124232_c1_seq1	L26	0	comp121178_c0_seq2	L49	29.3599290054761	comp114427_c0_seq1	L78	4.85390036102393	comp72735_c0_seq2	L120	16.2888320815277
comp126957_c0_seq1	L26	0	comp122583_c1_seq1	L49	29.3599290054761	comp125693_c0_seq1	L78	4.85390036102393	comp73718_c0_seq1	L120	16.2888320815277
comp127470_c0_seq1	L26	0	comp128102_c0_seq1	L49	29.3599290054761	comp125693_c2_seq1	L78	4.85390036102393	comp79407_c0_seq1	L120	16.2888320815277
comp129638_c0_seq1	L26	0	comp133361_c0_seq1	L49	29.3599290054761	comp126922_c0_seq2	L78	4.85390036102393	comp81356_c0_seq1	L120	16.2888320815277

comp130660_c0_seq1	L26	0	comp124560_c0_seq1	L49	32.5902222924762	comp127020_c0_seq1	L78	4.85390036102393	comp85877_c0_seq1	L120	16.2888320815277
comp130871_c0_seq1	L26	0	comp130186_c0_seq1	L49	32.5902222924762	comp130970_c0_seq2	L78	4.85390036102393	comp85945_c0_seq1	L120	16.2888320815277
comp130936_c0_seq1	L26	0	comp107155_c0_seq1	L49	34.2036853209155	comp78728_c0_seq1	L78	4.85390036102393	comp88103_c0_seq1	L120	16.2888320815277
comp131081_c0_seq1	L26	0	comp108168_c0_seq1	L49	34.2036853209155	comp95487_c0_seq2	L78	4.85390036102393	comp88387_c0_seq1	L120	16.2888320815277
comp132334_c1_seq1	L26	0	comp115236_c0_seq1	L49	34.2036853209155	comp107874_c0_seq1	L78	8.08419364802409	comp93226_c1_seq1	L120	16.2888320815277
comp42305_c0_seq1	L26	0	comp116928_c1_seq1	L49	34.2036853209155	comp119545_c1_seq1	L78	8.08419364802409	comp102623_c0_seq2	L120	17.902295109967
comp56338_c0_seq1	L26	0	comp120947_c0_seq1	L49	34.2036853209155	comp94772_c0_seq1	L78	8.08419364802409	comp105162_c0_seq1	L120	17.902295109967
comp56592_c0_seq1	L26	0	comp122026_c0_seq2	L49	34.2036853209155	comp110766_c0_seq1	L78	11.3144869350242	comp121824_c0_seq1	L120	17.902295109967
comp62194_c0_seq1	L26	0	comp123988_c0_seq3	L49	34.2036853209155	comp102844_c0_seq1	L78	12.9279499634635	comp128008_c0_seq1	L120	17.902295109967
comp75294_c0_seq1	L26	0	comp124021_c0_seq2	L49	34.2036853209155	comp101067_c0_seq1	L78	17.7818503244875	comp133688_c0_seq1	L120	17.902295109967
comp76930_c0_seq1	L26	0	comp126774_c2_seq1	L49	34.2036853209155	comp117695_c0_seq1	L78	17.7818503244875	comp58671_c1_seq1	L120	17.902295109967
comp78087_c0_seq2	L26	0	comp132993_c0_seq1	L49	34.2036853209155	comp124806_c0_seq1	L78	17.7818503244875	comp103227_c0_seq1	L120	19.5157581384063
comp83965_c0_seq1	L26	0	comp67155_c0_seq1	L49	34.2036853209155	comp127217_c0_seq1	L78	17.7818503244875	comp103579_c0_seq1	L120	19.5157581384063
comp84537_c0_seq1	L26	0	comp76178_c0_seq1	L49	34.2036853209155	comp127472_c0_seq1	L78	17.7818503244875	comp109426_c0_seq1	L120	19.5157581384063
comp86378_c0_seq1	L26	0	comp76178_c1_seq1	L49	34.2036853209155	comp87859_c0_seq1	L78	17.7818503244875	comp116105_c0_seq4	L120	19.5157581384063
comp92372_c0_seq1	L26	0	comp80903_c0_seq1	L49	34.2036853209155	comp118527_c0_seq1	L78	21.0121436114876	comp117076_c0_seq1	L120	19.5157581384063
comp93026_c0_seq1	L26	0	comp90907_c0_seq2	L49	34.2036853209155	comp122555_c0_seq2	L78	21.0121436114876	comp119072_c0_seq1	L120	19.5157581384063
comp93862_c0_seq1	L26	0	comp95996_c1_seq1	L49	34.2036853209155	comp73183_c0_seq1	L78	21.0121436114876	comp120202_c0_seq1	L120	19.5157581384063
comp94437_c0_seq1	L26	0	comp96891_c0_seq1	L49	34.2036853209155	comp108338_c0_seq1	L78	22.6256066399269	comp128263_c0_seq1	L120	19.5157581384063
comp96219_c0_seq1	L26	0	comp96922_c0_seq1	L49	34.2036853209155	comp126946_c0_seq1	L78	22.6256066399269	comp131121_c1_seq1	L120	19.5157581384063
comp96769_c0_seq1	L26	0	comp97257_c0_seq1	L49	34.2036853209155	comp115972_c2_seq1	L78	27.4795070009508	comp132694_c0_seq1	L120	19.5157581384063
comp100156_c0_seq1	L26	1.61346302843928	comp105944_c1_seq2	L49	39.0575856819395	comp116703_c0_seq1	L78	27.4795070009508	comp91212_c0_seq2	L120	19.5157581384063
comp100179_c0_seq1	L26	1.61346302843928	comp108031_c0_seq1	L49	39.0575856819395	comp91220_c0_seq1	L78	27.4795070009508	comp93684_c0_seq1	L120	19.5157581384063
comp100791_c0_seq1	L26	1.61346302843928	comp118895_c0_seq1	L49	39.0575856819395	comp114057_c0_seq2	L78	40.6811927559632	comp94498_c0_seq1	L120	19.5157581384063
comp102207_c0_seq1	L26	1.61346302843928	comp122823_c1_seq1	L49	39.0575856819395	comp116768_c0_seq1	L78	40.6811927559632	comp126670_c0_seq1	L121	0
comp103066_c0_seq1	L26	1.61346302843928	comp128058_c0_seq1	L49	39.0575856819395	comp117758_c0_seq1	L78	40.6811927559632	comp110023_c0_seq1	L121	3.23029328700015
comp105931_c0_seq1	L26	1.61346302843928	comp59828_c0_seq1	L49	39.0575856819395	comp93392_c0_seq1	L78	40.6811927559632	comp113834_c0_seq1	L121	3.23029328700015
comp107684_c0_seq1	L26	1.61346302843928	comp94325_c0_seq1	L49	39.0575856819395	comp101556_c0_seq1	L78	43.9114860429634	comp116374_c6_seq1	L121	3.23029328700015
comp110918_c0_seq3	L26	1.61346302843928	comp97003_c0_seq1	L49	39.0575856819395	comp101556_c1_seq1	L78	43.9114860429634	comp131220_c0_seq2	L121	3.23029328700015

comp113195_c0_seq1	L26	1.61346302843928	comp101564_c0_seq3	L49	45.5453655690666	comp103428_c0_seq2	L78	43.9114860429634	comp133154_c1_seq1	L121	3.23029328700015
comp116635_c0_seq1	L26	1.61346302843928	comp107231_c0_seq1	L49	45.5453655690666	comp104906_c1_seq4	L78	43.9114860429634	comp133164_c0_seq1	L121	3.23029328700015
comp116743_c0_seq1	L26	1.61346302843928	comp108455_c0_seq1	L49	45.5453655690666	comp113517_c0_seq1	L78	43.9114860429634	comp98649_c0_seq1	L121	3.23029328700015
comp119455_c0_seq1	L26	1.61346302843928	comp109402_c0_seq1	L49	45.5453655690666	comp114718_c0_seq1	L78	43.9114860429634	comp114155_c0_seq1	L121	4.84375631543943
comp119455_c1_seq1	L26	1.61346302843928	comp110965_c0_seq1	L49	45.5453655690666	comp122518_c0_seq2	L78	43.9114860429634	comp114523_c0_seq1	L121	4.84375631543943
comp120098_c0_seq1	L26	1.61346302843928	comp113301_c0_seq1	L49	45.5453655690666	comp133391_c0_seq1	L78	43.9114860429634	comp115577_c0_seq1	L121	4.84375631543943
comp121419_c0_seq2	L26	1.61346302843928	comp113365_c1_seq1	L49	45.5453655690666	comp114192_c0_seq1	L78	45.5249490714027	comp115828_c0_seq1	L121	4.84375631543943
comp123205_c0_seq1	L26	1.61346302843928	comp126825_c0_seq1	L49	45.5453655690666	comp122654_c0_seq2	L78	45.5249490714027	comp103874_c0_seq1	L121	9.69765667646336
comp124638_c0_seq1	L26	1.61346302843928	comp128074_c1_seq1	L49	45.5453655690666	comp125672_c0_seq1	L78	45.5249490714027	comp109866_c0_seq1	L121	9.69765667646336
comp125281_c0_seq1	L26	1.61346302843928	comp129198_c1_seq1	L49	45.5453655690666	comp129309_c1_seq1	L78	45.5249490714027	comp116158_c0_seq1	L121	9.69765667646336
comp125839_c1_seq1	L26	1.61346302843928	comp130717_c0_seq1	L49	45.5453655690666	comp132406_c0_seq2	L78	45.5249490714027	comp123922_c0_seq2	L121	9.69765667646336
comp127453_c0_seq2	L26	1.61346302843928	comp133788_c0_seq1	L49	45.5453655690666	comp132971_c0_seq1	L78	45.5249490714027	comp127827_c0_seq1	L121	9.69765667646336
comp128134_c0_seq1	L26	1.61346302843928	comp54401_c0_seq1	L49	45.5453655690666	comp31652_c0_seq1	L78	45.5249490714027	comp103652_c0_seq1	L121	12.9279499634635
comp32306_c0_seq1	L26	1.61346302843928	comp74377_c0_seq1	L49	45.5453655690666	comp92251_c0_seq1	L78	45.5249490714027	comp109660_c0_seq1	L121	12.9279499634635
comp57356_c0_seq1	L26	1.61346302843928	comp82038_c0_seq1	L49	45.5453655690666	comp100781_c0_seq1	L78	52.0127289585298	comp121753_c2_seq1	L121	12.9279499634635
comp72127_c0_seq1	L26	1.61346302843928	comp86784_c0_seq1	L49	45.5453655690666	comp94421_c0_seq1	L78	52.0127289585298	comp126951_c0_seq1	L121	12.9279499634635
comp75713_c0_seq1	L26	1.61346302843928	comp87907_c0_seq1	L49	45.5453655690666	comp127863_c0_seq1	L78	60.1482889693955	comp94703_c0_seq1	L121	12.9279499634635
comp77019_c0_seq1	L26	1.61346302843928	comp92677_c0_seq1	L49	45.5453655690666	comp94992_c0_seq1	L78	60.1482889693955	comp107938_c0_seq1	L121	24.4162581979245
comp77142_c0_seq1	L26	1.61346302843928	comp102786_c0_seq1	L49	47.1588285975058	comp101954_c0_seq1	L78	63.3785822563956	comp111672_c0_seq1	L121	24.4162581979245
comp84196_c0_seq1	L26	1.61346302843928	comp105444_c0_seq2	L49	47.1588285975058	comp106527_c0_seq1	L78	63.3785822563956	comp82273_c0_seq1	L121	24.4162581979245
comp87297_c0_seq1	L26	1.61346302843928	comp105453_c0_seq1	L49	47.1588285975058	comp107234_c0_seq1	L78	63.3785822563956	comp109582_c0_seq1	L121	29.2701585589485
comp88753_c0_seq1	L26	1.61346302843928	comp114001_c1_seq2	L49	47.1588285975058	comp107931_c0_seq2	L78	63.3785822563956	comp104460_c0_seq2	L121	45.9963992834706
comp92924_c0_seq1	L26	1.61346302843928	comp114474_c0_seq1	L49	47.1588285975058	comp112579_c0_seq1	L78	63.3785822563956	comp105582_c0_seq1	L121	59.198085038483
comp95683_c0_seq1	L26	1.61346302843928	comp115383_c0_seq1	L49	47.1588285975058	comp114117_c0_seq1	L78	63.3785822563956	comp108206_c1_seq2	L121	59.198085038483
comp96545_c0_seq1	L26	1.61346302843928	comp126214_c0_seq1	L49	47.1588285975058	comp120180_c1_seq1	L78	63.3785822563956	comp115336_c0_seq1	L121	59.198085038483
comp130440_c0_seq2	L26	8.10124291556639	comp129686_c0_seq2	L49	47.1588285975058	comp120663_c0_seq1	L78	63.3785822563956	comp122339_c0_seq1	L121	59.198085038483
comp83468_c0_seq1	L26	8.10124291556639	comp130415_c0_seq1	L49	47.1588285975058	comp123564_c0_seq1	L78	63.3785822563956	comp122339_c1_seq2	L121	59.198085038483
comp66150_c0_seq1	L26	12.9551432765903	comp131181_c1_seq3	L49	47.1588285975058	comp125569_c0_seq1	L78	63.3785822563956	comp124771_c0_seq3	L121	59.198085038483
comp100765_c0_seq2	L26	19.4429231637174	comp82974_c0_seq1	L49	47.1588285975058	comp79445_c0_seq1	L78	63.3785822563956	comp49889_c0_seq1	L121	59.198085038483

comp72895_c0_seq1	L26	19.4429231637174	comp92383_c1_seq1	L49	47.1588285975058	comp94592_c0_seq1	L78	63.3785822563956	comp72818_c0_seq1	L121	59.198085038483
comp89585_c1_seq1	L26	19.4429231637174	comp94509_c0_seq1	L49	47.1588285975058	comp99321_c0_seq1	L78	63.3785822563956	comp94664_c0_seq1	L121	59.198085038483
comp104132_c0_seq1	L26	22.6732164507176	comp96912_c0_seq1	L49	47.1588285975058	comp120517_c0_seq1	L78	64.9920452848349	comp96888_c0_seq1	L121	59.198085038483
comp127904_c1_seq1	L26	22.6732164507176	comp97173_c0_seq1	L49	47.1588285975058	comp61191_c0_seq1	L78	64.9920452848349	comp112206_c0_seq1	L121	60.8115480669223
comp47825_c0_seq1	L26	22.6732164507176	comp99408_c1_seq1	L49	47.1588285975058	comp71999_c0_seq1	L78	64.9920452848349	comp123615_c0_seq1	L121	60.8115480669223
comp63391_c1_seq1	L26	22.6732164507176	comp101448_c0_seq1	L49	48.7722916259451	comp91386_c0_seq1	L78	64.9920452848349	comp125076_c0_seq2	L121	60.8115480669223
comp67723_c0_seq1	L26	22.6732164507176	comp102596_c0_seq1	L49	48.7722916259451	comp92359_c0_seq1	L78	64.9920452848349	comp126406_c0_seq1	L121	60.8115480669223
comp67723_c1_seq1	L26	22.6732164507176	comp102596_c1_seq1	L49	48.7722916259451	comp95060_c0_seq1	L78	64.9920452848349	comp124230_c0_seq1	L121	64.0418413539224
comp108459_c0_seq1	L26	25.9035097377177	comp105548_c0_seq1	L49	48.7722916259451	comp96239_c0_seq1	L78	64.9920452848349	comp128172_c0_seq1	L121	64.0418413539224
comp111450_c0_seq1	L26	25.9035097377177	comp106096_c0_seq1	L49	48.7722916259451	comp99277_c0_seq1	L78	64.9920452848349	comp109913_c0_seq1	L121	67.2721346409226
comp73521_c0_seq1	L26	25.9035097377177	comp107881_c0_seq1	L49	48.7722916259451	comp107612_c0_seq1	L79	0	comp112693_c1_seq1	L121	67.2721346409226
comp108694_c0_seq1	L26	27.516972766157	comp110002_c0_seq1	L49	48.7722916259451	comp123487_c0_seq2	L79	0	comp124825_c0_seq1	L121	67.2721346409226
comp113039_c0_seq1	L26	30.7472660531572	comp110247_c0_seq1	L49	48.7722916259451	comp127082_c1_seq1	L79	0	comp125899_c1_seq1	L121	67.2721346409226
comp45136_c0_seq1	L26	30.7472660531572	comp110562_c0_seq2	L49	48.7722916259451	comp129948_c0_seq1	L79	0	comp133648_c0_seq1	L121	67.2721346409226
comp64384_c0_seq1	L26	30.7472660531572	comp115483_c0_seq1	L49	48.7722916259451	comp132285_c0_seq1	L79	0	comp87345_c0_seq1	L121	67.2721346409226
comp72440_c0_seq1	L26	30.7472660531572	comp116795_c0_seq1	L49	48.7722916259451	comp99417_c0_seq1	L79	0	comp115793_c0_seq1	L121	68.8855976693619
comp82475_c0_seq1	L26	30.7472660531572	comp121130_c0_seq1	L49	48.7722916259451	comp101737_c0_seq1	L79	8.1355600108657	comp115793_c3_seq1	L121	68.8855976693619
comp89326_c0_seq1	L26	30.7472660531572	comp123061_c0_seq1	L49	48.7722916259451	comp106574_c0_seq1	L79	8.1355600108657	comp114436_c0_seq1	L121	72.115890956362
comp95438_c1_seq1	L26	30.7472660531572	comp123135_c0_seq2	L49	48.7722916259451	comp107064_c0_seq1	L79	8.1355600108657	comp117814_c0_seq1	L121	72.115890956362
comp96777_c0_seq1	L26	30.7472660531572	comp125461_c0_seq1	L49	48.7722916259451	comp109251_c0_seq1	L79	8.1355600108657	comp129018_c0_seq1	L121	73.7293539848013
comp104125_c0_seq1	L26	32.3607290815964	comp126628_c0_seq1	L49	48.7722916259451	comp132042_c0_seq1	L79	8.1355600108657	comp103098_c0_seq1	L121	75.3428170132406
comp108253_c0_seq1	L26	32.3607290815964	comp127385_c0_seq1	L49	48.7722916259451	comp69252_c0_seq1	L79	8.1355600108657	comp113953_c0_seq1	L121	75.3428170132406
comp110550_c0_seq1	L26	32.3607290815964	comp129236_c0_seq1	L49	48.7722916259451	comp96107_c0_seq1	L79	8.1355600108657	comp121817_c0_seq1	L121	75.3428170132406
comp127232_c0_seq1	L26	32.3607290815964	comp130170_c0_seq3	L49	48.7722916259451	comp100783_c0_seq1	L79	9.74902303930498	comp82338_c0_seq1	L121	75.3428170132406
comp45129_c0_seq1	L26	32.3607290815964	comp131892_c0_seq1	L49	48.7722916259451	comp101429_c0_seq1	L79	9.74902303930498	comp84256_c0_seq1	L121	75.3428170132406
comp112981_c0_seq1	L26	33.9741921100357	comp55229_c0_seq1	L49	48.7722916259451	comp104607_c0_seq1	L79	9.74902303930498	comp103183_c0_seq1	L121	76.9562800416799
comp124567_c0_seq1	L26	33.9741921100357	comp59345_c0_seq1	L49	48.7722916259451	comp117598_c1_seq1	L79	9.74902303930498	comp117356_c0_seq1	L121	76.9562800416799
comp82058_c0_seq1	L26	33.9741921100357	comp66307_c0_seq1	L49	48.7722916259451	comp119712_c0_seq2	L79	9.74902303930498	comp116029_c0_seq1	L121	85.0918400525456
comp97075_c0_seq1	L26	33.9741921100357	comp70246_c0_seq1	L49	48.7722916259451	comp127491_c0_seq1	L79	9.74902303930498	comp103502_c0_seq1	L121	89.9457404135695

comp104345_c0_seq2	L26	37.2044853970359	comp71575_c0_seq1	L49	48.7722916259451	comp130528_c1_seq1	L79	9.74902303930498	comp105969_c1_seq1	L121	89.9457404135695
comp113900_c2_seq1	L26	37.2044853970359	comp78044_c0_seq1	L49	48.7722916259451	comp130594_c3_seq1	L79	9.74902303930498	comp106922_c0_seq1	L121	89.9457404135695
comp114703_c1_seq1	L26	37.2044853970359	comp79025_c0_seq1	L49	48.7722916259451	comp61805_c0_seq1	L79	9.74902303930498	comp107514_c1_seq1	L121	89.9457404135695
comp115512_c0_seq1	L26	37.2044853970359	comp82299_c0_seq2	L49	48.7722916259451	comp88733_c0_seq1	L79	9.74902303930498	comp109987_c0_seq1	L121	89.9457404135695
comp119885_c0_seq1	L26	37.2044853970359	comp83199_c0_seq1	L49	48.7722916259451	comp91365_c0_seq1	L79	9.74902303930498	comp111238_c0_seq1	L121	89.9457404135695
comp124550_c0_seq1	L26	37.2044853970359	comp85562_c0_seq1	L49	48.7722916259451	comp103479_c0_seq1	L79	11.3624860677443	comp111272_c0_seq1	L121	89.9457404135695
comp131013_c0_seq1	L26	42.0583857580598	comp92741_c0_seq1	L49	48.7722916259451	comp103947_c0_seq1	L79	11.3624860677443	comp114243_c0_seq1	L121	89.9457404135695
comp133379_c1_seq1	L26	42.0583857580598	comp71144_c1_seq1	L50	0	comp111898_c0_seq4	L79	11.3624860677443	comp121429_c0_seq2	L121	89.9457404135695
comp128253_c0_seq1	L26	50.1939457689255	comp100380_c1_seq1	L50	1.61346302843928	comp119632_c0_seq1	L79	11.3624860677443	comp122953_c2_seq1	L121	89.9457404135695
comp101107_c0_seq2	L26	53.4242390559257	comp104929_c0_seq1	L50	1.61346302843928	comp125632_c0_seq1	L79	11.3624860677443	comp126956_c1_seq6	L121	89.9457404135695
comp101819_c0_seq1	L26	53.4242390559257	comp126562_c0_seq2	L50	1.61346302843928	comp89965_c0_seq1	L79	11.3624860677443	comp128363_c0_seq2	L121	89.9457404135695
comp104846_c0_seq1	L26	53.4242390559257	comp108646_c0_seq1	L50	3.22692605687856	comp97090_c0_seq1	L79	11.3624860677443	comp128744_c1_seq1	L121	89.9457404135695
comp117617_c0_seq2	L26	53.4242390559257	comp117787_c0_seq1	L50	3.22692605687856	comp113505_c0_seq2	L79	12.9759490961835	comp129701_c1_seq1	L121	89.9457404135695
comp121800_c0_seq1	L26	53.4242390559257	comp121345_c1_seq1	L50	3.22692605687856	comp124351_c0_seq1	L79	12.9759490961835	comp133310_c0_seq1	L121	89.9457404135695
comp128404_c0_seq1	L26	53.4242390559257	comp94653_c0_seq1	L50	3.22692605687856	comp124636_c0_seq1	L79	12.9759490961835	comp72896_c0_seq1	L121	89.9457404135695
comp128690_c0_seq1	L26	53.4242390559257	comp101956_c0_seq1	L51	0	comp125558_c0_seq1	L79	12.9759490961835	comp80236_c0_seq1	L121	89.9457404135695
comp130771_c2_seq1	L26	53.4242390559257	comp104204_c0_seq1	L51	0	comp126498_c0_seq1	L79	12.9759490961835	comp87327_c0_seq1	L121	89.9457404135695
comp133247_c0_seq1	L26	53.4242390559257	comp107391_c0_seq1	L51	0	comp131402_c0_seq1	L79	12.9759490961835	comp88772_c0_seq1	L121	89.9457404135695
comp84443_c0_seq2	L26	53.4242390559257	comp32069_c0_seq1	L51	0	comp132741_c0_seq1	L79	12.9759490961835	comp94598_c0_seq1	L121	89.9457404135695
comp133402_c0_seq3	L26	61.5597990667914	comp40797_c0_seq1	L51	0	comp71912_c0_seq2	L79	12.9759490961835	comp97111_c0_seq1	L121	89.9457404135695
comp112767_c0_seq1	L26	64.7900923537915	comp56345_c0_seq1	L51	0	comp104190_c0_seq1	L79	14.5894121246228	comp98855_c0_seq1	L121	89.9457404135695
comp115539_c0_seq1	L26	64.7900923537915	comp59915_c0_seq1	L51	0	comp111612_c0_seq1	L79	14.5894121246228	comp102805_c0_seq1	L121	91.5592034420088
comp115871_c0_seq1	L26	64.7900923537915	comp91571_c0_seq1	L51	0	comp116821_c0_seq1	L79	14.5894121246228	comp103397_c0_seq1	L121	94.7894967290089
comp120216_c0_seq1	L26	64.7900923537915	comp92015_c0_seq1	L51	0	comp116975_c0_seq1	L79	14.5894121246228	comp108797_c0_seq1	L121	94.7894967290089
comp125119_c0_seq1	L26	64.7900923537915	comp94281_c0_seq1	L51	0	comp118080_c0_seq1	L79	14.5894121246228	comp85833_c0_seq1	L121	94.7894967290089
comp127696_c0_seq1	L26	64.7900923537915	comp95906_c0_seq1	L51	0	comp125197_c0_seq1	L79	14.5894121246228	comp76134_c0_seq1	L121	98.0197900160091
comp127820_c1_seq1	L26	64.7900923537915	comp96357_c0_seq1	L51	0	comp132566_c2_seq1	L79	14.5894121246228	comp91428_c0_seq1	L121	98.0197900160091
comp129816_c0_seq1	L26	64.7900923537915	comp105951_c0_seq1	L51	1.61346302843928	comp96602_c0_seq1	L79	14.5894121246228	comp105546_c0_seq1	L122	0
comp132492_c0_seq1	L26	64.7900923537915	comp106944_c0_seq1	L51	1.61346302843928	comp109916_c0_seq1	L79	16.2028751530621	comp115341_c1_seq2	L122	0

comp93956_c0_seq1	L26	64.7900923537915	comp107314_c5_seq1	L51	1.61346302843928	comp119914_c0_seq2	L79	16.2028751530621	comp116139_c0_seq1	L122	0
comp115454_c0_seq1	L26	69.6439927148154	comp108292_c0_seq1	L51	1.61346302843928	comp127043_c0_seq1	L79	16.2028751530621	comp116356_c0_seq1	L122	0
comp115797_c0_seq1	L26	69.6439927148154	comp108915_c0_seq3	L51	1.61346302843928	comp127043_c1_seq1	L79	16.2028751530621	comp122005_c0_seq1	L122	0
comp116726_c3_seq1	L26	69.6439927148154	comp109502_c0_seq1	L51	1.61346302843928	comp127698_c0_seq1	L79	16.2028751530621	comp122899_c0_seq1	L122	0
comp118095_c0_seq2	L26	69.6439927148154	comp110992_c0_seq1	L51	1.61346302843928	comp130493_c0_seq2	L79	16.2028751530621	comp123692_c0_seq1	L122	0
comp121547_c0_seq1	L26	69.6439927148154	comp113220_c0_seq2	L51	1.61346302843928	comp131737_c0_seq1	L79	16.2028751530621	comp126153_c2_seq1	L122	0
comp121666_c0_seq6	L26	69.6439927148154	comp119486_c0_seq20	L51	1.61346302843928	comp22462_c0_seq1	L79	16.2028751530621	comp128498_c1_seq1	L122	0
comp125140_c0_seq1	L26	69.6439927148154	comp121876_c1_seq1	L51	1.61346302843928	comp65363_c0_seq1	L79	16.2028751530621	comp76956_c0_seq1	L122	0
comp125184_c0_seq1	L26	69.6439927148154	comp124121_c0_seq1	L51	1.61346302843928	comp102633_c0_seq1	L79	17.8163381815014	comp81164_c0_seq1	L122	0
comp128228_c0_seq1	L26	69.6439927148154	comp124231_c0_seq1	L51	1.61346302843928	comp105908_c0_seq1	L79	17.8163381815014	comp105451_c0_seq3	L122	1.61346302843928
comp130779_c0_seq1	L26	69.6439927148154	comp125779_c2_seq1	L51	1.61346302843928	comp107539_c0_seq1	L79	17.8163381815014	comp105830_c1_seq1	L122	1.61346302843928
comp131452_c0_seq1	L26	69.6439927148154	comp126439_c0_seq1	L51	1.61346302843928	comp112493_c0_seq1	L79	17.8163381815014	comp111783_c0_seq1	L122	1.61346302843928
comp131874_c0_seq2	L26	69.6439927148154	comp25614_c0_seq1	L51	1.61346302843928	comp115624_c0_seq1	L79	17.8163381815014	comp112264_c0_seq1	L122	1.61346302843928
comp88096_c0_seq1	L26	69.6439927148154	comp49016_c0_seq1	L51	1.61346302843928	comp116563_c0_seq1	L79	17.8163381815014	comp113439_c0_seq1	L122	1.61346302843928
comp90837_c0_seq1	L26	69.6439927148154	comp71617_c0_seq1	L51	1.61346302843928	comp120614_c0_seq1	L79	17.8163381815014	comp113608_c0_seq1	L122	1.61346302843928
comp93371_c0_seq1	L26	69.6439927148154	comp75265_c0_seq1	L51	1.61346302843928	comp123919_c0_seq1	L79	17.8163381815014	comp114605_c1_seq1	L122	1.61346302843928
comp93776_c0_seq1	L26	69.6439927148154	comp83379_c0_seq1	L51	1.61346302843928	comp126543_c0_seq1	L79	17.8163381815014	comp117546_c0_seq1	L122	1.61346302843928
comp97254_c0_seq1	L26	69.6439927148154	comp85483_c0_seq2	L51	1.61346302843928	comp129240_c2_seq1	L79	17.8163381815014	comp118579_c0_seq2	L122	1.61346302843928
comp119364_c0_seq1	L26	72.8742860018156	comp89580_c0_seq1	L51	1.61346302843928	comp129649_c0_seq1	L79	17.8163381815014	comp118946_c0_seq1	L122	1.61346302843928
comp120764_c0_seq1	L26	72.8742860018156	comp105522_c2_seq1	L51	3.22692605687856	comp130474_c1_seq1	L79	17.8163381815014	comp122937_c0_seq1	L122	1.61346302843928
comp124781_c0_seq1	L26	72.8742860018156	comp105822_c1_seq1	L51	3.22692605687856	comp130909_c0_seq1	L79	17.8163381815014	comp125727_c0_seq1	L122	1.61346302843928
comp124903_c0_seq1	L26	72.8742860018156	comp106822_c0_seq1	L51	3.22692605687856	comp132171_c0_seq1	L79	17.8163381815014	comp130630_c0_seq1	L122	1.61346302843928
comp127847_c0_seq1	L26	72.8742860018156	comp108063_c0_seq1	L51	3.22692605687856	comp80518_c0_seq1	L79	17.8163381815014	comp130678_c0_seq1	L122	1.61346302843928
comp128372_c0_seq1	L26	72.8742860018156	comp110323_c0_seq1	L51	3.22692605687856	comp99968_c0_seq1	L79	17.8163381815014	comp131823_c0_seq1	L122	1.61346302843928
comp132068_c0_seq1	L26	72.8742860018156	comp111919_c0_seq1	L51	3.22692605687856	comp101665_c0_seq1	L79	21.0466314685015	comp133674_c0_seq4	L122	1.61346302843928
comp132493_c0_seq1	L26	72.8742860018156	comp116056_c0_seq1	L51	3.22692605687856	comp102662_c0_seq1	L79	21.0466314685015	comp79824_c0_seq1	L122	1.61346302843928
comp133556_c0_seq1	L26	72.8742860018156	comp117260_c0_seq2	L51	3.22692605687856	comp103809_c0_seq1	L79	21.0466314685015	comp93751_c0_seq1	L122	1.61346302843928
comp133556_c1_seq1	L26	72.8742860018156	comp119315_c1_seq1	L51	3.22692605687856	comp103925_c0_seq1	L79	21.0466314685015	comp95032_c0_seq1	L122	1.61346302843928
comp100153_c0_seq1	L26	74.4877490302549	comp120491_c0_seq1	L51	3.22692605687856	comp104109_c0_seq1	L79	21.0466314685015	comp103108_c0_seq1	L122	3.22692605687856



comp101854_c0_seq1	L26	74.4877490302549	comp121853_c0_seq1	L51	3.22692605687856	comp105094_c0_seq2	L79	21.0466314685015	comp103115_c0_seq1	L122	3.22692605687856
comp102343_c0_seq1	L26	74.4877490302549	comp131279_c0_seq5	L51	3.22692605687856	comp106635_c1_seq1	L79	21.0466314685015	comp110305_c1_seq1	L122	3.22692605687856
comp103322_c0_seq1	L26	74.4877490302549	comp90049_c0_seq1	L51	3.22692605687856	comp109193_c0_seq1	L79	21.0466314685015	comp110826_c0_seq1	L122	3.22692605687856
comp105199_c1_seq1	L26	74.4877490302549	comp91085_c0_seq1	L51	3.22692605687856	comp109206_c0_seq1	L79	21.0466314685015	comp121607_c1_seq1	L122	3.22692605687856
comp106912_c0_seq2	L26	74.4877490302549	comp120468_c0_seq1	L51	6.45721934387871	comp109879_c1_seq2	L79	21.0466314685015	comp132307_c0_seq1	L122	3.22692605687856
comp109276_c0_seq1	L26	74.4877490302549	comp82771_c0_seq1	L51	6.45721934387871	comp110865_c0_seq1	L79	21.0466314685015	comp39774_c0_seq1	L122	3.22692605687856
comp112233_c0_seq1	L26	74.4877490302549	comp107607_c0_seq2	L51	8.07068237231799	comp111505_c0_seq1	L79	21.0466314685015	comp76399_c0_seq1	L122	3.22692605687856
comp115216_c0_seq1	L26	74.4877490302549	comp119945_c0_seq2	L51	8.07068237231799	comp112325_c0_seq1	L79	21.0466314685015	comp92214_c0_seq1	L122	3.22692605687856
comp115368_c0_seq1	L26	74.4877490302549	comp103314_c0_seq1	L51	9.68414540075727	comp112794_c1_seq2	L79	21.0466314685015	comp94047_c0_seq1	L122	3.22692605687856
comp115711_c0_seq1	L26	74.4877490302549	comp110450_c0_seq1	L51	9.68414540075727	comp112808_c0_seq1	L79	21.0466314685015	comp95483_c0_seq1	L122	3.22692605687856
comp118277_c0_seq1	L26	74.4877490302549	comp111804_c0_seq1	L51	9.68414540075727	comp113343_c1_seq1	L79	21.0466314685015	comp118569_c0_seq2	L123	0
comp118509_c0_seq1	L26	74.4877490302549	comp115308_c0_seq1	L51	9.68414540075727	comp113350_c0_seq1	L79	21.0466314685015	comp121414_c0_seq1	L123	0
comp118509_c1_seq1	L26	74.4877490302549	comp120913_c0_seq1	L51	9.68414540075727	comp113535_c1_seq1	L79	21.0466314685015	comp125612_c0_seq1	L123	0
comp119820_c0_seq1	L26	74.4877490302549	comp69326_c0_seq1	L51	9.68414540075727	comp116973_c0_seq1	L79	21.0466314685015	comp125612_c1_seq1	L123	0
comp120386_c0_seq1	L26	74.4877490302549	comp96841_c0_seq2	L51	9.68414540075727	comp117161_c0_seq1	L79	21.0466314685015	comp45674_c0_seq1	L123	0
comp121468_c0_seq1	L26	74.4877490302549	comp127947_c1_seq1	L51	11.2976084291965	comp117433_c0_seq1	L79	21.0466314685015	comp110950_c1_seq1	L123	6.48777988712711
comp122462_c0_seq1	L26	74.4877490302549	comp128107_c0_seq1	L51	11.2976084291965	comp117655_c0_seq1	L79	21.0466314685015	comp121645_c0_seq1	L123	6.48777988712711
comp122462_c1_seq1	L26	74.4877490302549	comp65743_c0_seq2	L51	11.2976084291965	comp117954_c0_seq2	L79	21.0466314685015	comp129704_c0_seq1	L123	6.48777988712711
comp123772_c0_seq1	L26	74.4877490302549	comp104323_c0_seq1	L51	14.5279017161967	comp118086_c0_seq1	L79	21.0466314685015	comp88699_c0_seq1	L123	6.48777988712711
comp124511_c0_seq1	L26	74.4877490302549	comp106009_c0_seq1	L51	14.5279017161967	comp118617_c0_seq1	L79	21.0466314685015	comp98050_c0_seq1	L123	9.71807317412726
comp124805_c0_seq1	L26	74.4877490302549	comp114112_c0_seq1	L51	14.5279017161967	comp119915_c1_seq2	L79	21.0466314685015	comp110521_c0_seq1	L123	11.3315362025665
comp125971_c1_seq1	L26	74.4877490302549	comp117427_c0_seq1	L51	14.5279017161967	comp125624_c0_seq1	L79	21.0466314685015	comp110934_c0_seq4	L123	11.3315362025665
comp126006_c0_seq2	L26	74.4877490302549	comp119517_c0_seq1	L51	14.5279017161967	comp126653_c0_seq1	L79	21.0466314685015	comp112344_c0_seq1	L123	11.3315362025665
comp126033_c0_seq1	L26	74.4877490302549	comp119803_c0_seq1	L51	14.5279017161967	comp127429_c0_seq1	L79	21.0466314685015	comp79813_c0_seq1	L123	11.3315362025665
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comp127073_c0_seq1	L26	74.4877490302549	comp127255_c0_seq1	L51	14.5279017161967	comp130029_c0_seq2	L79	21.0466314685015	comp126945_c1_seq1	L123	12.9449992310058
comp127312_c0_seq1	L26	74.4877490302549	comp132643_c0_seq1	L51	14.5279017161967	comp130349_c1_seq1	L79	21.0466314685015	comp73324_c0_seq1	L123	12.9449992310058
comp127550_c0_seq1	L26	74.4877490302549	comp58465_c1_seq1	L51	14.5279017161967	comp130474_c2_seq1	L79	21.0466314685015	comp117330_c0_seq1	L123	16.175292518006
comp128636_c0_seq1	L26	74.4877490302549	comp76499_c0_seq1	L51	14.5279017161967	comp133578_c0_seq1	L79	21.0466314685015	comp114123_c0_seq1	L123	17.7887555464453

comp129668_c0_seq1	L26	74.4877490302549	comp107907_c0_seq1	L51	21.0156816033238	comp27611_c0_seq1	L79	21.0466314685015	comp125454_c0_seq2	L123	17.7887555464453
comp131259_c0_seq1	L26	74.4877490302549	comp109570_c0_seq1	L51	21.0156816033238	comp28797_c0_seq1	L79	21.0466314685015	comp131720_c0_seq2	L123	17.7887555464453
comp131682_c0_seq1	L26	74.4877490302549	comp113271_c0_seq1	L51	21.0156816033238	comp31294_c0_seq1	L79	21.0466314685015	comp93994_c0_seq1	L123	17.7887555464453
comp131685_c0_seq2	L26	74.4877490302549	comp116799_c0_seq1	L51	21.0156816033238	comp40108_c0_seq1	L79	21.0466314685015	comp98600_c0_seq1	L123	19.4022185748845
comp131723_c0_seq1	L26	74.4877490302549	comp118953_c0_seq1	L51	21.0156816033238	comp45086_c0_seq1	L79	21.0466314685015	comp113475_c0_seq1	L123	22.6325118618847
comp132617_c1_seq1	L26	74.4877490302549	comp121185_c0_seq1	L51	21.0156816033238	comp46924_c0_seq1	L79	21.0466314685015	comp118962_c0_seq1	L123	22.6325118618847
comp40997_c0_seq1	L26	74.4877490302549	comp125680_c0_seq1	L51	21.0156816033238	comp56738_c0_seq1	L79	21.0466314685015	comp131517_c0_seq1	L123	22.6325118618847
comp87794_c0_seq1	L26	74.4877490302549	comp126763_c0_seq1	L51	21.0156816033238	comp59120_c0_seq1	L79	21.0466314685015	comp132131_c0_seq1	L123	22.6325118618847
comp88054_c0_seq1	L26	74.4877490302549	comp78862_c0_seq1	L51	21.0156816033238	comp67771_c0_seq1	L79	21.0466314685015	comp107936_c0_seq1	L123	29.1202917490118
comp94192_c0_seq1	L26	74.4877490302549	comp83563_c0_seq1	L51	21.0156816033238	comp71425_c0_seq1	L79	21.0466314685015	comp108022_c0_seq1	L123	29.1202917490118
comp95647_c0_seq1	L26	74.4877490302549	comp94013_c0_seq3	L51	21.0156816033238	comp72788_c0_seq1	L79	21.0466314685015	comp113693_c0_seq1	L123	29.1202917490118
comp96667_c0_seq1	L26	74.4877490302549	comp94660_c0_seq1	L51	21.0156816033238	comp75620_c0_seq1	L79	21.0466314685015	comp127970_c0_seq1	L123	29.1202917490118
comp97283_c0_seq1	L26	74.4877490302549	comp96496_c0_seq1	L51	21.0156816033238	comp79474_c0_seq1	L79	21.0466314685015	comp131989_c0_seq3	L123	29.1202917490118
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comp104102_c0_seq2	L26	82.571942678279	comp9106_c0_seq1	L51	24.245974890324	comp86964_c0_seq1	L79	21.0466314685015	comp96256_c0_seq1	L123	35.587655138475
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comp116141_c0_seq1	L26	82.571942678279	comp8946_c0_seq1	L51	27.4762681773241	comp98898_c0_seq1	L79	21.0466314685015	comp116127_c0_seq1	L123	45.3887073328756
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comp117711_c0_seq1	L26	82.571942678279	comp117750_c0_seq1	L51	29.0897312057634	comp110099_c0_seq1	L80	0	comp120966_c0_seq1	L123	45.3887073328756
comp118051_c0_seq1	L26	82.571942678279	comp126909_c0_seq2	L51	29.0897312057634	comp110563_c0_seq1	L80	0	comp121788_c0_seq1	L123	45.3887073328756
comp123685_c0_seq1	L26	82.571942678279	comp63676_c0_seq1	L51	29.0897312057634	comp114681_c0_seq1	L80	0	comp127230_c1_seq1	L123	45.3887073328756
comp131063_c0_seq1	L26	82.571942678279	comp67309_c0_seq1	L51	29.0897312057634	comp115778_c0_seq1	L80	4.85390036102393	comp128468_c0_seq1	L123	45.3887073328756
comp131416_c1_seq1	L26	82.571942678279	comp72228_c0_seq1	L51	29.0897312057634	comp124563_c0_seq1	L80	6.46736338946321	comp128961_c0_seq1	L123	45.3887073328756
comp132174_c0_seq1	L26	82.571942678279	comp83258_c0_seq1	L51	29.0897312057634	comp127067_c0_seq1	L80	6.46736338946321	comp129023_c0_seq6	L123	45.3887073328756

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comp59630_c0_seq1	L26	82.571942678279	comp100501_c0_seq1	L51	30.7031942342027	comp111951_c0_seq1	L80	8.08082641790249	comp130328_c0_seq1	L123	45.3887073328756
comp85836_c0_seq1	L26	82.571942678279	comp105529_c0_seq1	L51	30.7031942342027	comp113842_c1_seq1	L80	8.08082641790249	comp87783_c0_seq1	L123	45.3887073328756
comp90783_c0_seq1	L26	82.571942678279	comp108449_c0_seq1	L51	30.7031942342027	comp116875_c0_seq1	L80	8.08082641790249	comp96856_c0_seq3	L123	45.3887073328756
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comp98398_c1_seq1	L26	82.571942678279	comp128630_c0_seq1	L51	30.7031942342027	comp133467_c0_seq2	L80	8.08082641790249	comp99739_c0_seq1	L123	47.0021703613149
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comp108062_c0_seq1	L26	84.1854057067182	comp99057_c0_seq2	L51	30.7031942342027	comp113469_c0_seq1	L80	14.5686063050296	comp127901_c0_seq1	L123	55.1377303721806
comp115651_c0_seq1	L26	84.1854057067182	comp102324_c1_seq1	L51	43.9048799892151	comp117549_c0_seq1	L80	14.5686063050296	comp132909_c0_seq2	L123	55.1377303721806
comp115869_c1_seq2	L26	84.1854057067182	comp103889_c0_seq1	L51	43.9048799892151	comp123766_c0_seq2	L80	14.5686063050296	comp103206_c0_seq1	L123	59.9916307332045
comp118113_c0_seq1	L26	84.1854057067182	comp115302_c0_seq1	L51	43.9048799892151	comp124505_c0_seq1	L80	14.5686063050296	comp105219_c0_seq2	L123	59.9916307332045
comp118901_c0_seq1	L26	84.1854057067182	comp122129_c1_seq1	L51	43.9048799892151	comp132067_c0_seq1	L80	14.5686063050296	comp106841_c0_seq1	L123	59.9916307332045
comp124594_c0_seq2	L26	84.1854057067182	comp96789_c0_seq1	L51	43.9048799892151	comp71250_c0_seq1	L80	14.5686063050296	comp107058_c0_seq1	L123	59.9916307332045
comp39679_c0_seq1	L26	84.1854057067182	comp101761_c1_seq1	L51	50.3926598763422	comp91301_c0_seq1	L80	14.5686063050296	comp107095_c0_seq1	L123	59.9916307332045
comp41671_c0_seq1	L26	84.1854057067182	comp124607_c0_seq1	L51	50.3926598763422	comp118885_c0_seq1	L80	17.7988995920298	comp108668_c1_seq1	L123	59.9916307332045
comp73744_c1_seq1	L26	84.1854057067182	comp130824_c0_seq1	L51	50.3926598763422	comp130444_c0_seq1	L80	17.7988995920298	comp112193_c0_seq2	L123	59.9916307332045
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comp88452_c0_seq1	L26	84.1854057067182	comp108938_c1_seq1	L51	55.2465602373661	comp115785_c0_seq2	L80	25.9344596028955	comp120757_c0_seq1	L123	59.9916307332045
comp90394_c0_seq1	L26	84.1854057067182	comp120956_c2_seq1	L51	55.2465602373661	comp116142_c0_seq1	L80	25.9344596028955	comp121736_c0_seq1	L123	59.9916307332045
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comp95566_c0_seq1	L26	84.1854057067182	comp79271_c0_seq1	L51	56.8600232658054	comp127974_c0_seq1	L80	25.9344596028955	comp123803_c0_seq1	L123	59.9916307332045
comp96725_c0_seq2	L26	84.1854057067182	comp101148_c0_seq1	L51	61.7139236268293	comp131492_c0_seq1	L80	25.9344596028955	comp124716_c0_seq1	L123	59.9916307332045
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comp104316_c0_seq1	L27	0	comp127699_c0_seq1	L51	71.4319968009566	comp108395_c0_seq1	L80	42.2232916844232	comp131552_c0_seq1	L123	59.9916307332045
comp104657_c0_seq2	L27	0	comp90669_c0_seq1	L51	71.4319968009566	comp111237_c0_seq1	L80	42.2232916844232	comp133024_c0_seq1	L123	59.9916307332045
comp106477_c0_seq1	L27	0	comp104513_c0_seq1	L51	77.9197766880837	comp111595_c0_seq1	L80	42.2232916844232	comp83654_c0_seq1	L123	59.9916307332045
comp108309_c0_seq1	L27	0	comp113625_c0_seq1	L51	77.9197766880837	comp116516_c0_seq1	L80	42.2232916844232	comp86641_c0_seq1	L123	59.9916307332045
comp108799_c0_seq1	L27	0	comp116817_c0_seq1	L51	77.9197766880837	comp124619_c1_seq1	L80	42.2232916844232	comp91562_c0_seq1	L123	59.9916307332045
comp109934_c1_seq1	L27	0	comp100663_c0_seq2	L51	79.533239716523	comp125228_c0_seq1	L80	42.2232916844232	comp92189_c0_seq2	L123	59.9916307332045
comp110258_c0_seq1	L27	0	comp108265_c2_seq5	L51	79.533239716523	comp126883_c0_seq1	L80	42.2232916844232	comp96879_c0_seq4	L123	59.9916307332045
comp110799_c0_seq1	L27	0	comp113091_c0_seq1	L51	79.533239716523	comp127239_c0_seq1	L80	42.2232916844232	comp99425_c0_seq1	L123	59.9916307332045
comp110944_c0_seq1	L27	0	comp118423_c0_seq1	L51	79.533239716523	comp127941_c0_seq1	L80	42.2232916844232	comp107233_c0_seq1	L123	61.6050937616438
comp115249_c0_seq1	L27	0	comp126743_c1_seq1	L51	79.533239716523	comp128341_c0_seq1	L80	42.2232916844232	comp107303_c0_seq1	L123	61.6050937616438
comp119343_c0_seq1	L27	0	comp128707_c0_seq2	L51	79.533239716523	comp129501_c0_seq1	L80	42.2232916844232	comp107929_c0_seq1	L123	61.6050937616438
comp122309_c0_seq1	L27	0	comp132039_c0_seq1	L51	79.533239716523	comp130416_c1_seq1	L80	42.2232916844232	comp110142_c0_seq1	L123	61.6050937616438
comp123363_c0_seq1	L27	0	comp96030_c0_seq1	L51	79.533239716523	comp89269_c0_seq1	L80	42.2232916844232	comp110286_c0_seq1	L123	61.6050937616438
comp123784_c0_seq1	L27	0	comp121425_c0_seq2	L51	81.1467027449623	comp92567_c0_seq2	L80	42.2232916844232	comp112526_c0_seq1	L123	61.6050937616438
comp124202_c0_seq1	L27	0	comp124135_c0_seq1	L51	81.1467027449623	comp118982_c0_seq1	L80	43.8367547128624	comp112830_c0_seq1	L123	61.6050937616438
comp125938_c0_seq1	L27	0	comp126278_c0_seq1	L51	81.1467027449623	comp129322_c0_seq1	L80	45.4502177413017	comp113002_c0_seq1	L123	61.6050937616438
comp128773_c0_seq1	L27	0	comp131947_c0_seq1	L51	82.7601657734016	comp130761_c0_seq1	L80	45.4502177413017	comp117719_c0_seq1	L123	61.6050937616438
comp22647_c0_seq1	L27	0	comp67362_c0_seq1	L51	82.7601657734016	comp103416_c0_seq1	L80	53.5857777521674	comp118747_c0_seq1	L123	61.6050937616438
comp51614_c0_seq1	L27	0	comp109194_c0_seq1	L51	84.3736288018409	comp113007_c0_seq1	L80	53.5857777521674	comp120936_c0_seq1	L123	61.6050937616438
comp63595_c0_seq1	L27	0	comp118690_c0_seq1	L51	84.3736288018409	comp115346_c0_seq1	L80	53.5857777521674	comp121086_c0_seq1	L123	61.6050937616438
comp70023_c0_seq1	L27	0	comp118690_c1_seq1	L51	84.3736288018409	comp116365_c0_seq2	L80	53.5857777521674	comp121452_c0_seq1	L123	61.6050937616438
comp70724_c0_seq2	L27	0	comp119451_c0_seq1	L51	84.3736288018409	comp122495_c0_seq1	L80	53.5857777521674	comp123716_c0_seq1	L123	61.6050937616438
comp73043_c0_seq1	L27	0	comp133712_c0_seq1	L51	84.3736288018409	comp122571_c0_seq1	L80	53.5857777521674	comp125964_c0_seq1	L123	61.6050937616438
comp73205_c0_seq1	L27	0	comp73374_c0_seq1	L51	84.3736288018409	comp123773_c0_seq1	L80	53.5857777521674	comp126259_c1_seq1	L123	61.6050937616438
comp77723_c0_seq1	L27	0	comp103030_c0_seq1	L51	85.9870918302801	comp123943_c0_seq1	L80	53.5857777521674	comp128063_c1_seq1	L123	61.6050937616438
comp80905_c0_seq1	L27	0	comp128037_c0_seq1	L51	85.9870918302801	comp125198_c0_seq1	L80	53.5857777521674	comp128544_c0_seq1	L123	61.6050937616438

comp81915_c0_seq1	L27	0	comp74624_c0_seq1	L51	85.9870918302801	comp132132_c0_seq1	L80	53.5857777521674	comp131176_c0_seq1	L123	61.6050937616438
comp84224_c0_seq1	L27	0	comp93021_c0_seq1	L51	85.9870918302801	comp54114_c0_seq1	L80	53.5857777521674	comp131540_c0_seq1	L123	61.6050937616438
comp90330_c0_seq1	L27	0	comp104922_c0_seq1	L51	90.8409921913041	comp83535_c0_seq1	L80	53.5857777521674	comp131611_c0_seq1	L123	61.6050937616438
comp90892_c0_seq1	L27	0	comp116212_c0_seq2	L51	90.8409921913041	comp99416_c0_seq1	L80	53.5857777521674	comp132049_c1_seq1	L123	61.6050937616438
comp91048_c0_seq1	L27	0	comp126876_c0_seq1	L51	90.8409921913041	comp115200_c2_seq1	L80	60.0735576392945	comp72096_c0_seq1	L123	61.6050937616438
comp91708_c0_seq1	L27	0	comp132575_c0_seq3	L51	90.8409921913041	comp133251_c0_seq2	L80	60.0735576392945	comp73491_c0_seq1	L123	61.6050937616438
comp91839_c0_seq1	L27	0	comp40575_c0_seq1	L51	90.8409921913041	comp108956_c0_seq1	L80	61.6870206677338	comp78329_c0_seq1	L123	61.6050937616438
comp92436_c0_seq1	L27	0	comp68085_c1_seq1	L51	90.8409921913041	comp113131_c0_seq1	L80	61.6870206677338	comp79437_c0_seq1	L123	61.6050937616438
comp95221_c0_seq1	L27	0	comp74694_c0_seq1	L51	90.8409921913041	comp119970_c0_seq1	L80	61.6870206677338	comp81324_c0_seq1	L123	61.6050937616438
comp96231_c0_seq1	L27	0	comp81270_c0_seq1	L51	90.8409921913041	comp127422_c0_seq1	L80	61.6870206677338	comp85527_c0_seq1	L123	61.6050937616438
comp97290_c0_seq1	L27	0	comp100385_c0_seq1	L51	92.4544552197434	comp128362_c0_seq1	L80	61.6870206677338	comp87271_c0_seq1	L123	61.6050937616438
comp97654_c0_seq1	L27	0	comp101758_c0_seq1	L51	92.4544552197434	comp55764_c0_seq1	L80	61.6870206677338	comp90070_c0_seq1	L123	61.6050937616438
comp127401_c0_seq1	L27	3.23029328700015	comp122211_c0_seq1	L51	92.4544552197434	comp74486_c0_seq1	L80	61.6870206677338	comp91120_c0_seq1	L123	61.6050937616438
comp120371_c0_seq1	L27	4.84375631543943	comp13129_c0_seq1	L51	92.4544552197434	comp76306_c0_seq1	L80	61.6870206677338	comp92978_c0_seq1	L123	61.6050937616438
comp102767_c0_seq1	L27	6.45721934387871	comp132856_c0_seq1	L51	92.4544552197434	comp88797_c0_seq1	L80	61.6870206677338	comp96635_c2_seq1	L123	61.6050937616438
comp127366_c0_seq1	L27	6.45721934387871	comp85343_c0_seq1	L51	92.4544552197434	comp128712_c0_seq1	L80	66.5409210287577	comp105635_c0_seq1	L123	63.2185567900831
comp134011_c0_seq1	L27	6.45721934387871	comp99114_c0_seq1	L51	92.4544552197434	comp100786_c0_seq1	L80	68.154384057197	comp107965_c0_seq1	L123	63.2185567900831
comp90332_c0_seq1	L27	6.45721934387871	comp109231_c0_seq1	L51	94.0679182481826	comp101252_c0_seq1	L80	68.154384057197	comp125951_c0_seq1	L123	63.2185567900831
comp120874_c0_seq1	L27	11.3111197049026	comp121509_c0_seq1	L51	94.0679182481826	comp103646_c0_seq1	L80	68.154384057197	comp129713_c0_seq2	L123	63.2185567900831
comp107504_c0_seq1	L27	16.1650200659266	comp125841_c0_seq1	L51	94.0679182481826	comp103847_c0_seq1	L80	68.154384057197	comp30405_c0_seq1	L123	63.2185567900831
comp113359_c0_seq1	L27	16.1650200659266	comp82637_c0_seq1	L51	94.0679182481826	comp105003_c0_seq1	L80	68.154384057197	comp41436_c0_seq1	L123	63.2185567900831
comp43661_c0_seq1	L27	16.1650200659266	comp95059_c0_seq1	L51	94.0679182481826	comp108632_c0_seq1	L80	68.154384057197	comp44720_c0_seq1	L123	63.2185567900831
comp76806_c1_seq1	L27	16.1650200659266	comp101310_c0_seq1	L51	98.9218186092066	comp108645_c0_seq1	L80	68.154384057197	comp60530_c0_seq1	L123	63.2185567900831
comp77055_c0_seq1	L27	16.1650200659266	comp102364_c0_seq2	L51	98.9218186092066	comp114011_c0_seq1	L80	68.154384057197	comp82245_c0_seq1	L123	63.2185567900831
comp125129_c0_seq1	L27	17.7784830943659	comp103441_c0_seq1	L51	98.9218186092066	comp114211_c0_seq1	L80	68.154384057197	comp89487_c0_seq1	L123	63.2185567900831
comp125328_c0_seq1	L27	17.7784830943659	comp105583_c0_seq1	L51	98.9218186092066	comp116570_c0_seq1	L80	68.154384057197	comp92507_c0_seq1	L123	63.2185567900831
comp32630_c0_seq2	L27	17.7784830943659	comp106099_c1_seq1	L51	98.9218186092066	comp116907_c1_seq1	L80	68.154384057197	comp92507_c1_seq1	L123	63.2185567900831
comp90770_c0_seq1	L27	17.7784830943659	comp106364_c0_seq1	L51	98.9218186092066	comp116941_c0_seq1	L80	68.154384057197	comp95492_c0_seq1	L123	63.2185567900831
comp103957_c0_seq1	L27	19.3919461228051	comp106485_c1_seq1	L51	98.9218186092066	comp116941_c2_seq1	L80	68.154384057197	comp97098_c0_seq1	L123	63.2185567900831

comp104094_c0_seq1	L27	19.3919461228051	comp108370_c0_seq2	L51	98.9218186092066	comp118194_c0_seq1	L80	68.154384057197	comp104999_c0_seq2	L124	0
comp109319_c0_seq1	L27	19.3919461228051	comp111156_c0_seq1	L51	98.9218186092066	comp119007_c0_seq1	L80	68.154384057197	comp109243_c2_seq1	L124	0
comp111304_c0_seq1	L27	19.3919461228051	comp112405_c0_seq2	L51	98.9218186092066	comp119154_c0_seq1	L80	68.154384057197	comp118230_c0_seq1	L124	0
comp117580_c0_seq1	L27	19.3919461228051	comp113828_c0_seq1	L51	98.9218186092066	comp119384_c0_seq1	L80	68.154384057197	comp119706_c0_seq1	L124	0
comp117749_c0_seq2	L27	19.3919461228051	comp116322_c0_seq1	L51	98.9218186092066	comp119867_c0_seq1	L80	68.154384057197	comp121400_c0_seq4	L124	0
comp118268_c0_seq2	L27	19.3919461228051	comp116933_c0_seq1	L51	98.9218186092066	comp123302_c0_seq1	L80	68.154384057197	comp128334_c0_seq1	L124	0
comp118618_c0_seq1	L27	19.3919461228051	comp119548_c0_seq1	L51	98.9218186092066	comp124358_c0_seq1	L80	68.154384057197	comp30427_c0_seq1	L124	0
comp123926_c0_seq1	L27	19.3919461228051	comp121030_c0_seq1	L51	98.9218186092066	comp124863_c0_seq1	L80	68.154384057197	comp92502_c0_seq1	L124	0
comp124204_c0_seq1	L27	19.3919461228051	comp123683_c0_seq1	L51	98.9218186092066	comp127947_c0_seq1	L80	68.154384057197	comp99470_c1_seq1	L124	0
comp126153_c1_seq1	L27	19.3919461228051	comp126238_c0_seq5	L51	98.9218186092066	comp128658_c1_seq2	L80	68.154384057197	comp105339_c0_seq1	L124	6.48777988712711
comp126457_c0_seq1	L27	19.3919461228051	comp126716_c0_seq1	L51	98.9218186092066	comp131991_c0_seq1	L80	68.154384057197	comp113180_c0_seq1	L124	8.10124291556639
comp127428_c0_seq1	L27	19.3919461228051	comp127286_c0_seq1	L51	98.9218186092066	comp133348_c0_seq1	L80	68.154384057197	comp56299_c0_seq1	L124	8.10124291556639
comp8533_c0_seq1	L27	19.3919461228051	comp66991_c0_seq1	L51	98.9218186092066	comp133404_c0_seq1	L80	68.154384057197	comp117572_c1_seq1	L124	11.3315362025665
comp90587_c0_seq1	L27	19.3919461228051	comp76786_c0_seq1	L51	98.9218186092066	comp133464_c0_seq1	L80	68.154384057197	comp103471_c0_seq1	L124	19.4670962134322
comp99532_c2_seq2	L27	19.3919461228051	comp77800_c0_seq1	L51	98.9218186092066	comp13488_c0_seq1	L80	68.154384057197	comp107915_c0_seq3	L124	19.4670962134322
comp126958_c0_seq1	L27	21.0054091512444	comp78775_c0_seq1	L51	98.9218186092066	comp41370_c0_seq1	L80	68.154384057197	comp117675_c0_seq1	L124	19.4670962134322
comp128437_c0_seq2	L27	21.0054091512444	comp80519_c0_seq1	L51	98.9218186092066	comp54631_c0_seq1	L80	68.154384057197	comp120942_c0_seq1	L124	19.4670962134322
comp71710_c0_seq1	L27	21.0054091512444	comp80954_c0_seq1	L51	98.9218186092066	comp57814_c0_seq1	L80	68.154384057197	comp116992_c1_seq1	L125	0
comp94913_c0_seq1	L27	21.0054091512444	comp82999_c0_seq1	L51	98.9218186092066	comp63300_c0_seq1	L80	68.154384057197	comp12922_c0_seq1	L125	0
comp99479_c0_seq1	L27	21.0054091512444	comp83558_c0_seq1	L51	98.9218186092066	comp65507_c0_seq1	L80	68.154384057197	comp89246_c0_seq1	L125	0
comp109044_c0_seq1	L27	22.6188721796837	comp89682_c0_seq1	L51	98.9218186092066	comp66321_c0_seq1	L80	68.154384057197	comp93311_c0_seq1	L125	0
comp115041_c5_seq1	L27	22.6188721796837	comp93114_c0_seq1	L51	98.9218186092066	comp72726_c0_seq1	L80	68.154384057197	comp99838_c0_seq1	L125	0
comp119064_c0_seq1	L27	22.6188721796837	comp94092_c0_seq1	L51	98.9218186092066	comp73870_c0_seq1	L80	68.154384057197	comp104196_c0_seq1	L125	1.61346302843928
comp121741_c0_seq1	L27	22.6188721796837	comp95039_c0_seq1	L51	98.9218186092066	comp77984_c0_seq1	L80	68.154384057197	comp105104_c0_seq1	L125	1.61346302843928
comp125441_c0_seq1	L27	22.6188721796837	comp95039_c1_seq1	L51	98.9218186092066	comp78833_c0_seq1	L80	68.154384057197	comp116682_c0_seq1	L125	1.61346302843928
comp116058_c0_seq1	L27	24.232335208123	comp96296_c0_seq1	L51	98.9218186092066	comp81914_c0_seq1	L80	68.154384057197	comp116736_c0_seq1	L125	1.61346302843928
comp101191_c0_seq1	L27	34.0333874025236	comp97794_c0_seq2	L51	98.9218186092066	comp83834_c0_seq1	L80	68.154384057197	comp117736_c0_seq2	L125	1.61346302843928
comp105405_c0_seq1	L27	34.0333874025236	comp98177_c0_seq1	L51	98.9218186092066	comp84152_c1_seq1	L80	68.154384057197	comp82958_c0_seq1	L125	1.61346302843928
comp119468_c0_seq1	L27	34.0333874025236	comp99317_c0_seq1	L51	98.9218186092066	comp85088_c0_seq1	L80	68.154384057197	comp96750_c0_seq1	L125	1.61346302843928

comp98832_c0_seq1	L27	35.6468504309629	comp128048_c0_seq1	L52	0	comp87311_c1_seq1	L80	68.154384057197	comp104601_c0_seq3	L125	4.84375631543943
comp110308_c1_seq11	L27	40.5007507919868	comp90901_c0_seq1	L52	0	comp88930_c0_seq1	L80	68.154384057197	comp112917_c0_seq1	L125	4.84375631543943
comp65764_c0_seq1	L27	40.5007507919868	comp130834_c1_seq1	L52	3.23029328700015	comp92371_c0_seq1	L80	68.154384057197	comp126938_c0_seq1	L125	4.84375631543943
comp101314_c0_seq1	L27	42.1142138204261	comp34205_c0_seq1	L52	3.23029328700015	comp92525_c0_seq1	L80	68.154384057197	comp88847_c0_seq1	L125	4.84375631543943
comp107526_c0_seq1	L27	43.7276768488653	comp103220_c0_seq1	L52	4.84375631543943	comp94039_c0_seq1	L80	68.154384057197	comp89408_c0_seq1	L125	4.84375631543943
comp126269_c0_seq2	L27	43.7276768488653	comp111057_c1_seq1	L52	4.84375631543943	comp95550_c0_seq1	L80	68.154384057197	comp99184_c0_seq1	L125	4.84375631543943
comp97322_c0_seq1	L27	43.7276768488653	comp111986_c0_seq1	L52	4.84375631543943	comp96214_c0_seq1	L80	68.154384057197	comp133816_c1_seq1	L125	6.45721934387871
comp46886_c0_seq1	L27	45.3411398773046	comp117612_c0_seq1	L52	4.84375631543943	comp96327_c0_seq1	L80	68.154384057197	comp117630_c0_seq1	L125	11.3111197049026
comp100154_c0_seq1	L27	56.8294481117656	comp126767_c0_seq1	L52	4.84375631543943	comp97163_c0_seq1	L80	68.154384057197	comp125806_c0_seq2	L125	11.3111197049026
comp103921_c0_seq1	L27	56.8294481117656	comp127425_c0_seq1	L52	4.84375631543943	comp103084_c0_seq1	L81	0	comp128775_c0_seq2	L125	11.3111197049026
comp114404_c0_seq1	L27	56.8294481117656	comp132750_c0_seq2	L52	4.84375631543943	comp116450_c3_seq4	L81	0	comp129872_c0_seq2	L125	11.3111197049026
comp119035_c0_seq2	L27	56.8294481117656	comp83820_c0_seq1	L52	4.84375631543943	comp125271_c0_seq1	L81	0	comp115964_c0_seq1	L125	12.9245827333419
comp120561_c1_seq1	L27	60.0597413987658	comp104412_c0_seq1	L52	11.3315362025665	comp125760_c1_seq2	L81	0	comp124401_c0_seq1	L125	12.9245827333419
comp128897_c1_seq1	L27	60.0597413987658	comp113374_c0_seq1	L52	11.3315362025665	comp67670_c0_seq1	L81	0	comp97456_c0_seq1	L125	12.9245827333419
comp128897_c2_seq1	L27	60.0597413987658	comp124367_c1_seq1	L52	11.3315362025665	comp95803_c0_seq1	L81	0	comp105425_c0_seq1	L126	0
comp48772_c0_seq1	L27	60.0597413987658	comp126411_c0_seq2	L52	11.3315362025665	comp100978_c0_seq1	L81	13.2016857550124	comp129208_c0_seq1	L126	0
comp114929_c0_seq1	L27	61.6732044272051	comp129066_c1_seq1	L52	11.3315362025665	comp116632_c0_seq2	L81	13.2016857550124	comp105417_c0_seq1	L126	4.85390036102393
comp93843_c1_seq1	L27	61.6732044272051	comp131273_c0_seq1	L52	11.3315362025665	comp120256_c1_seq1	L81	13.2016857550124	comp74211_c0_seq1	L126	4.85390036102393
comp107847_c0_seq1	L27	63.2866674556443	comp84082_c0_seq1	L52	11.3315362025665	comp129439_c0_seq1	L81	13.2016857550124	comp105956_c0_seq1	L127	0
comp116464_c0_seq1	L27	63.2866674556443	comp104221_c0_seq1	L52	21.1325883969671	comp98562_c0_seq1	L81	13.2016857550124	comp110160_c0_seq1	L127	0
comp105336_c0_seq1	L27	66.5169607426445	comp104723_c0_seq1	L52	21.1325883969671	comp105117_c0_seq1	L81	14.8151487834517	comp110697_c0_seq1	L127	0
comp106637_c0_seq2	L27	66.5169607426445	comp127774_c0_seq1	L52	21.1325883969671	comp110082_c0_seq1	L81	14.8151487834517	comp110783_c0_seq1	L127	0
comp124410_c2_seq1	L27	66.5169607426445	comp130891_c0_seq1	L52	21.1325883969671	comp118530_c0_seq1	L81	14.8151487834517	comp116819_c0_seq2	L127	0
comp128600_c0_seq1	L27	66.5169607426445	comp130898_c0_seq1	L52	21.1325883969671	comp121235_c0_seq1	L81	14.8151487834517	comp118869_c0_seq1	L127	0
comp104120_c0_seq1	L27	68.1304237710838	comp132973_c0_seq1	L52	21.1325883969671	comp127683_c0_seq2	L81	14.8151487834517	comp121839_c0_seq2	L127	0
comp115658_c0_seq1	L27	68.1304237710838	comp98988_c0_seq1	L52	21.1325883969671	comp93437_c0_seq1	L81	14.8151487834517	comp127504_c0_seq1	L127	0
comp124225_c0_seq1	L27	68.1304237710838	comp100712_c0_seq1	L52	25.9864887579911	comp93490_c0_seq1	L81	14.8151487834517	comp40427_c0_seq1	L127	0
comp72481_c0_seq1	L27	68.1304237710838	comp111538_c0_seq1	L52	25.9864887579911	comp107855_c0_seq2	L81	16.428611811891	comp66602_c0_seq1	L127	0
comp79348_c1_seq1	L27	68.1304237710838	comp121523_c1_seq1	L52	25.9864887579911	comp120354_c0_seq4	L81	16.428611811891	comp89526_c0_seq1	L127	0

comp94025_c0_seq2	L27	68.1304237710838	comp127558_c0_seq1	L52	25.9864887579911	comp124813_c1_seq1	L81	16.428611811891	comp105518_c0_seq1	L127	1.61346302843928
comp96672_c0_seq1	L27	68.1304237710838	comp129626_c0_seq1	L52	25.9864887579911	comp93536_c0_seq1	L81	16.428611811891	comp115258_c0_seq2	L127	1.61346302843928
comp121307_c2_seq2	L28	0	comp57650_c0_seq1	L52	25.9864887579911	comp99391_c0_seq1	L81	16.428611811891	comp54430_c0_seq1	L127	1.61346302843928
comp47046_c0_seq1	L28	0	comp91626_c0_seq1	L52	25.9864887579911	comp100824_c0_seq3	L81	18.0420748403303	comp56453_c0_seq1	L127	1.61346302843928
comp114288_c0_seq1	L28	3.23029328700015	comp95792_c0_seq1	L52	25.9864887579911	comp101763_c0_seq1	L81	18.0420748403303	comp64519_c0_seq1	L127	1.61346302843928
comp118692_c0_seq1	L28	3.23029328700015	comp97918_c0_seq1	L52	25.9864887579911	comp103693_c0_seq1	L81	18.0420748403303	comp67461_c0_seq1	L127	1.61346302843928
comp118984_c0_seq1	L28	3.23029328700015	comp100816_c0_seq1	L52	27.5999517864304	comp105010_c0_seq1	L81	18.0420748403303	comp71947_c0_seq1	L127	1.61346302843928
comp120261_c0_seq1	L28	3.23029328700015	comp102331_c4_seq4	L52	27.5999517864304	comp109294_c0_seq1	L81	18.0420748403303	comp72714_c0_seq1	L127	1.61346302843928
comp123329_c0_seq1	L28	3.23029328700015	comp114627_c0_seq1	L52	27.5999517864304	comp110862_c0_seq1	L81	18.0420748403303	comp85158_c0_seq1	L127	1.61346302843928
comp129392_c0_seq2	L28	3.23029328700015	comp114633_c0_seq1	L52	27.5999517864304	comp110989_c1_seq1	L81	18.0420748403303	comp87511_c0_seq1	L127	1.61346302843928
comp73769_c0_seq1	L28	3.23029328700015	comp117415_c0_seq1	L52	27.5999517864304	comp114740_c0_seq1	L81	18.0420748403303	comp88206_c0_seq1	L127	1.61346302843928
comp78605_c0_seq1	L28	3.23029328700015	comp121391_c0_seq1	L52	27.5999517864304	comp115524_c0_seq2	L81	18.0420748403303	comp89202_c0_seq2	L127	1.61346302843928
comp84678_c0_seq2	L28	3.23029328700015	comp127907_c0_seq1	L52	27.5999517864304	comp117129_c0_seq1	L81	18.0420748403303	comp90213_c0_seq1	L127	1.61346302843928
comp87119_c0_seq1	L28	3.23029328700015	comp88156_c0_seq1	L52	27.5999517864304	comp117382_c0_seq1	L81	18.0420748403303	comp96056_c0_seq1	L127	1.61346302843928
comp101118_c0_seq2	L28	4.84375631543943	comp90641_c0_seq1	L52	27.5999517864304	comp118254_c0_seq1	L81	18.0420748403303	comp106769_c0_seq1	L128	0
comp107824_c0_seq1	L28	4.84375631543943	comp109195_c0_seq1	L52	29.2134148148696	comp119308_c2_seq1	L81	18.0420748403303	comp107537_c0_seq1	L128	0
comp115333_c0_seq1	L28	4.84375631543943	comp112256_c1_seq1	L52	29.2134148148696	comp119351_c0_seq2	L81	18.0420748403303	comp112728_c0_seq1	L128	0
comp80895_c0_seq1	L28	4.84375631543943	comp115098_c0_seq1	L52	29.2134148148696	comp120917_c0_seq1	L81	18.0420748403303	comp118863_c0_seq1	L128	0
comp80946_c0_seq1	L28	4.84375631543943	comp116826_c0_seq1	L52	29.2134148148696	comp123107_c0_seq1	L81	18.0420748403303	comp122367_c0_seq1	L128	0
comp95277_c0_seq1	L28	4.84375631543943	comp117568_c0_seq1	L52	29.2134148148696	comp124395_c0_seq1	L81	18.0420748403303	comp46678_c0_seq1	L128	0
comp121446_c0_seq1	L28	6.45721934387871	comp120103_c0_seq1	L52	29.2134148148696	comp130140_c0_seq1	L81	18.0420748403303	comp77660_c0_seq1	L128	0
comp89252_c0_seq1	L28	6.45721934387871	comp76823_c0_seq1	L52	29.2134148148696	comp132452_c1_seq1	L81	18.0420748403303	comp81529_c0_seq1	L128	0
comp89252_c1_seq1	L28	6.45721934387871	comp85583_c0_seq1	L52	29.2134148148696	comp52238_c0_seq1	L81	18.0420748403303	comp96931_c0_seq1	L128	0
comp100157_c0_seq1	L28	9.68751263087886	comp98908_c0_seq1	L52	29.2134148148696	comp52718_c0_seq1	L81	18.0420748403303	comp106379_c1_seq1	L128	1.61346302843928
comp100285_c0_seq1	L28	9.68751263087886	comp104394_c0_seq1	L52	30.8268778433089	comp65565_c0_seq1	L81	18.0420748403303	comp95052_c0_seq1	L128	1.61346302843928
comp115814_c1_seq1	L28	9.68751263087886	comp115725_c0_seq1	L52	30.8268778433089	comp80043_c0_seq2	L81	18.0420748403303	comp106810_c0_seq1	L129	0
comp88307_c0_seq1	L28	9.68751263087886	comp117077_c1_seq1	L52	30.8268778433089	comp83633_c0_seq1	L81	18.0420748403303	comp106977_c0_seq1	L129	0
comp101842_c0_seq2	L28	12.917805917879	comp117847_c0_seq1	L52	30.8268778433089	comp85773_c0_seq1	L81	18.0420748403303	comp113438_c0_seq2	L129	0
comp102563_c0_seq1	L28	12.917805917879	comp129179_c0_seq1	L52	30.8268778433089	comp85811_c0_seq1	L81	18.0420748403303	comp45682_c0_seq1	L129	0



comp102813_c0_seq1	L28	12.917805917879	comp130408_c0_seq2	L52	30.8268778433089	comp87282_c0_seq1	L81	18.0420748403303	comp78479_c0_seq1	L129	0
comp106228_c0_seq1	L28	12.917805917879	comp132433_c0_seq2	L52	30.8268778433089	comp89983_c0_seq1	L81	18.0420748403303	comp85019_c0_seq1	L129	0
comp106710_c0_seq1	L28	12.917805917879	comp84647_c0_seq1	L52	30.8268778433089	comp92283_c0_seq1	L81	18.0420748403303	comp87839_c1_seq1	L129	0
comp108260_c0_seq1	L28	12.917805917879	comp98964_c0_seq1	L52	30.8268778433089	comp93889_c0_seq1	L81	18.0420748403303	comp92809_c0_seq1	L129	0
comp108399_c0_seq1	L28	12.917805917879	comp100390_c0_seq1	L52	32.4403408717482	comp95008_c0_seq1	L81	18.0420748403303	comp127438_c0_seq1	L130	0
comp110061_c0_seq1	L28	12.917805917879	comp101099_c0_seq1	L52	32.4403408717482	comp95732_c0_seq1	L81	18.0420748403303	comp106835_c0_seq1	L130	1.61346302843928
comp111501_c0_seq1	L28	12.917805917879	comp101511_c0_seq1	L52	32.4403408717482	comp102200_c0_seq1	L81	19.6555378687695	comp108648_c0_seq1	L130	1.61346302843928
comp111501_c1_seq1	L28	12.917805917879	comp103598_c0_seq1	L52	32.4403408717482	comp103732_c2_seq1	L81	19.6555378687695	comp117300_c0_seq1	L130	1.61346302843928
comp111531_c0_seq2	L28	12.917805917879	comp103903_c0_seq1	L52	32.4403408717482	comp104725_c0_seq1	L81	19.6555378687695	comp126967_c0_seq1	L130	1.61346302843928
comp112642_c2_seq1	L28	12.917805917879	comp109352_c0_seq2	L52	32.4403408717482	comp105172_c0_seq1	L81	19.6555378687695	comp96551_c0_seq1	L130	1.61346302843928
comp112748_c0_seq1	L28	12.917805917879	comp110274_c0_seq1	L52	32.4403408717482	comp106117_c0_seq1	L81	19.6555378687695	comp107411_c0_seq3	L131	0
comp117114_c0_seq1	L28	12.917805917879	comp113815_c0_seq1	L52	32.4403408717482	comp107557_c0_seq1	L81	19.6555378687695	comp126188_c0_seq5	L131	0
comp117641_c0_seq1	L28	12.917805917879	comp120691_c0_seq1	L52	32.4403408717482	comp108288_c0_seq1	L81	19.6555378687695	comp62216_c0_seq1	L131	0
comp118910_c0_seq2	L28	12.917805917879	comp125138_c2_seq1	L52	32.4403408717482	comp109284_c0_seq1	L81	19.6555378687695	comp63026_c0_seq1	L131	0
comp122289_c0_seq1	L28	12.917805917879	comp128885_c2_seq1	L52	32.4403408717482	comp109990_c0_seq1	L81	19.6555378687695	comp63722_c0_seq1	L131	0
comp122778_c0_seq1	L28	12.917805917879	comp134052_c0_seq1	L52	32.4403408717482	comp110385_c0_seq1	L81	19.6555378687695	comp92202_c0_seq1	L131	0
comp122861_c1_seq1	L28	12.917805917879	comp18861_c0_seq1	L52	32.4403408717482	comp112026_c0_seq2	L81	19.6555378687695	comp96808_c0_seq1	L131	0
comp123665_c0_seq1	L28	12.917805917879	comp37949_c0_seq1	L52	32.4403408717482	comp114716_c0_seq1	L81	19.6555378687695	comp108214_c0_seq1	L132	0
comp128325_c0_seq1	L28	12.917805917879	comp39996_c0_seq1	L52	32.4403408717482	comp117156_c0_seq10	L81	19.6555378687695	comp123654_c0_seq1	L132	0
comp19070_c0_seq1	L28	12.917805917879	comp42849_c0_seq1	L52	32.4403408717482	comp117262_c0_seq1	L81	19.6555378687695	comp108747_c0_seq3	L133	0
comp25415_c0_seq1	L28	12.917805917879	comp55371_c0_seq1	L52	32.4403408717482	comp129707_c4_seq2	L81	19.6555378687695	comp113676_c0_seq1	L134	0
comp29241_c0_seq1	L28	12.917805917879	comp55535_c0_seq1	L52	32.4403408717482	comp75749_c0_seq1	L81	19.6555378687695	comp115271_c0_seq1	L134	0
comp32593_c0_seq1	L28	12.917805917879	comp58827_c0_seq1	L52	32.4403408717482	comp81404_c0_seq2	L81	19.6555378687695	comp124440_c0_seq1	L134	0
comp41195_c0_seq1	L28	12.917805917879	comp59587_c0_seq1	L52	32.4403408717482	comp85346_c0_seq1	L81	19.6555378687695	comp125271_c1_seq6	L134	0
comp42226_c0_seq1	L28	12.917805917879	comp68023_c0_seq1	L52	32.4403408717482	comp92217_c1_seq1	L81	19.6555378687695	comp125433_c1_seq1	L134	0
comp42385_c0_seq1	L28	12.917805917879	comp68979_c0_seq1	L52	32.4403408717482	comp92272_c0_seq1	L81	19.6555378687695	comp125540_c1_seq1	L134	0
comp43375_c0_seq1	L28	12.917805917879	comp71298_c0_seq1	L52	32.4403408717482	comp94551_c0_seq1	L81	19.6555378687695	comp125682_c0_seq6	L134	0
comp53546_c0_seq1	L28	12.917805917879	comp7244_c0_seq1	L52	32.4403408717482	comp97045_c0_seq1	L81	19.6555378687695	comp129670_c2_seq1	L134	8.1355600108657
comp54753_c0_seq2	L28	12.917805917879	comp77244_c0_seq5	L52	32.4403408717482	comp98470_c0_seq1	L81	19.6555378687695	comp81350_c0_seq1	L134	9.74902303930498

comp62973_c0_seq1	L28	12.917805917879	comp87521_c0_seq2	L52	32.4403408717482	comp105880_c1_seq1	L82	0	comp112527_c0_seq1	L134	14.6029234003289
comp67327_c0_seq1	L28	12.917805917879	comp91938_c1_seq1	L52	32.4403408717482	comp107131_c2_seq2	L82	0	comp120427_c0_seq1	L135	0
comp67590_c0_seq1	L28	12.917805917879	comp93553_c0_seq1	L52	32.4403408717482	comp116178_c0_seq1	L82	0	comp117454_c0_seq3	L135	3.23029328700015
comp67687_c0_seq1	L28	12.917805917879	comp93922_c0_seq1	L52	32.4403408717482	comp117324_c0_seq1	L82	0	comp119481_c0_seq1	L136	0
comp68301_c0_seq1	L28	12.917805917879	comp96935_c1_seq1	L52	32.4403408717482	comp124164_c0_seq1	L82	0	comp121074_c1_seq11	L136	0
comp68812_c0_seq1	L28	12.917805917879	comp108289_c0_seq1	L53	0	comp132522_c1_seq1	L82	0	comp68074_c0_seq1	L136	0
comp77890_c0_seq1	L28	12.917805917879	comp133414_c0_seq1	L53	0	comp30157_c0_seq1	L82	0	comp28984_c0_seq1	L137	0
comp78523_c0_seq1	L28	12.917805917879	comp120896_c0_seq1	L53	1.61346302843928	comp41527_c0_seq1	L82	0	comp42595_c0_seq1	L137	0
comp8351_c0_seq1	L28	12.917805917879	comp116007_c0_seq1	L53	6.46736338946321	comp52109_c0_seq1	L82	0	comp51760_c0_seq1	L137	0
comp84426_c0_seq1	L28	12.917805917879	comp119096_c0_seq1	L53	6.46736338946321	comp52966_c0_seq1	L82	0	comp60529_c0_seq1	L137	0
comp87242_c0_seq1	L28	12.917805917879	comp119184_c0_seq2	L53	6.46736338946321	comp89285_c0_seq1	L82	0	comp63862_c0_seq1	L138	0
comp87410_c0_seq1	L28	12.917805917879	comp120255_c0_seq1	L53	6.46736338946321	comp94035_c0_seq1	L82	0	comp83578_c0_seq1	L138	0
comp87489_c0_seq1	L28	12.917805917879	comp131470_c1_seq1	L53	6.46736338946321	comp107087_c0_seq1	L82	1.61346302843928	comp95482_c0_seq1	L138	0
comp89057_c0_seq1	L28	12.917805917879	comp28632_c0_seq1	L53	6.46736338946321	comp115128_c1_seq1	L82	1.61346302843928	comp97094_c0_seq2	L138	0
comp89057_c1_seq1	L28	12.917805917879	comp104061_c0_seq1	L53	11.3212637504871	comp116747_c0_seq1	L82	1.61346302843928	comp83123_c0_seq1	L139	0