Smaaifia	SU location -	Species examined
Specific signal	chromosomal	-
Signai	position	
25.06	SU10 (red)	Nco, Tne, Teu, Tni, Tpe, Tha, Tbe,
25G6	interstitial	Tbo
28D21	SU10 (red)	Nco, Nro, Nan, Tne, Teu, Tni, Tpe,
	interstitial	Tha, Tbe, Tbo
44M14	SU11 (purple)	Nco, Nro, Nan, Tne, Teu, Tpe,
	interstitial or	Tha, Tbe
	pericentromeric	
85H3	SU9 (blue)	Nco, Tne, Teu, Tni, Tpe, Tha, Tbe,
	telomeric	Tbo
C4	SU1 (blue)	Nco, Tne, Teu, Tni, Tpe, Tha, Tbe,
	pericentromeric	Tbo, Icy, Lla, Pra, Cha, Cma,
	-	Dma, Gac, Dma
D2	SU7 (grey)	Nco
	interstitial	
E21	SU13 (green)	Nco, Tne, Teu, Tni, Tpe, Tha, Tbe,
	telomeric	Tbo, Icy
F3	SU9 (blue)	Tne, Teu, Tpe, Tha, Tbo
	interstitial	
F5	SU13 (green)	Nco, Tne, Teu, Tni, Tpe, Tha, Tbe,
	pericentromeric	Tbo, Icy
F7	SU2 (green)	Tne, Teu, Tpe, Tha, Tbo
- ,	interstitial	
F15	SU1 (blue)	Nco, Tne, Teu, Tni, Tpe, Tha, Tbe,
	interstitial	Tbo, Icy, Lla, Pra, Cha, Cma,
	CI 10 (1)	Dma, Gac, Dma
G6	SU10 (red) interstitial	Nco, Tne, Teu, Tni, Tpe, Tha,
		Tbe, Tbo Nco
H12	SU1 (blue) pericentromeric	NCO
J8	SU3 (orange)	Nco, Tpe, Tha
	pericentromeric	Neo, Tpc, Tila
K19	SU7 (grey)	Nco
	telomeric	1400
M11	SU9 (blue)	Nco, Tne, Teu, Tni, Tpe, Tha,
	centromeric	The, Tbo
P3	SU6 (yellow)	Nco, Tne, Teu, Tpe, Tha, Tbo
	yellow	1,00, 1110, 100, 1110, 1110, 100
•F4	SU8 (brown)	Nco, Tpe, Tha
	interstitial	1,00, 1p0, 1110
•F6	SU15 (pink)	Nco, Tpe
	telomeric	1,00, 1p0
•F8	SU10 (red)	Nco, Tpe, Tha
	pericentromeric	
•F10	SU6 (beige)	Nco
	interstitial	
•F22	SU9 (blue)	Tpe, Tha
	interstitial	1 /
L		j

B)

Signal	Species examined
Repetitive	
B9	
F11	
L17	
O24	Nco
•F14	
•L2	
•O2	
Weak	
A10	
С9	
D23	
E7	
F9	
I1	Nco
N21	
•F12	
•F20	
•G2	
•J2	

Additional file 1: Exhaustive list of BACs studied. A) "Specific" refers to the twenty-two BACs (55% of total), which gave clearly discrete double spots at a single location on one chromosomal pair. For each of the "specific" BACs, SU locations (arbitrary number and corresponding color used in Fig 2 and 4), chromosomal positions and species examined are specified. B) "Repetitive" indicates a second BAC hybridization pattern observed for 7 BACs (17.5% of total); multiple signals on several chromosomal pairs, probably due to high proportion of repetitive sequences. "Weak" refers to the third signal category obtained with 11 BACs (27.5% of the total); single or multiple weak spots in nuclei that were rarely visible on metaphasic chromosomes (see Fig 1 for more details). These BACs were tested on *N. coriiceps* as part of the screening process, but not selected for the cross-hybridizations to *Trematomus* species.