

**Supplementary Table 2: Predicted carbohydrate active enzymes (CAZymes).**

Label	Gene	Begin	End	Product
<b>Glycoside hydrolases (GH)</b>				
MARIT_0104		4875	97391	Putative glycoside hydrolase, family GH74
MARIT_0241	<i>lysM</i>	245607	247094	Lytic murein transglycosylase, family GH23-CBM50
MARIT_0368		390715	394131	Glycoside hydrolase, family GHnc
MARIT_0520		543756	544538	Glycoside hydrolase, family GHnc
MARIT_0763		773863	774654	Endo-beta-N-acetylglucosaminidase-CBM50-containing protein, family GH73-CBM50
MARIT_1118		1164228	1165043	Endo-alpha-1,4-polygalactosaminidase, family GH114
MARIT_1122		1167983	1170904	Beta-N-acetylhexosaminidase / beta-lactamase-like protein, family GH3
MARIT_1314		1373332	1374636	Glycoside hydrolase, family GH99
MARIT_1473		1559242	1560927	Chitinase D, family GH18 (fragment)
MARIT_1474		1560936	1562561	Chitinase D, family GH18 (fragment)
MARIT_1475		1562558	1563481	Chitinase D, family GH18 (fragment)
MARIT_1799		1936782	1938296	Glycoside hydrolase, family GH5_42
MARIT_1936		2079078	2080367	Peptidoglycan lytic transglycosylase, family GH104
MARIT_1950		2088931	2090295	Peptidoglycan lytic transglycosylase, family GH104
MARIT_1952		2091185	2092597	Peptidoglycan lytic transglycosylase, family GH104
MARIT_2218		2387132	2388037	Lytic murein transglycosylase, family GH23
MARIT_2237		2402862	2404625	Peptidase M28 / glycoside hydrolase, family GH114
MARIT_2686	<i>siaA</i>	2905779	2912534	Multimodular sialidase/Sialate O-acetyltransferase/sialidase, family GH33
MARIT_2945		3160063	3161070	Beta-1,4-mannanase, family GH113
<b>Glycosyltransferases (GT)</b>				
MARIT_0245		249620	251920	Penicillin-binding protein 1A, family GT51
MARIT_0277		290124	290936	Glycogen synthase, family GT5
MARIT_0308		331399	332646	3-deoxy-D-manno-octulosonic-acid transferase, family GT30
MARIT_0522		546131	547639	Glycosyltransferase, family GT4
MARIT_0537	<i>murG</i>	564165	565259	UDP-N-acetylglucosamine-N-acetylmuramyl-(pentapeptide) pyrophosphoryl-undecaprenol N-acetylglucosamine transferase, family GT28
MARIT_0784		797682	798914	Glycosyltransferase, family GT4
MARIT_0886		900297	901175	Glycosyltransferase, family GT2
MARIT_0888		901539	902624	Glycosyltransferase, family GT4
MARIT_1134		1185033	1186223	Glycosyltransferase, family GT4
MARIT_1135		1186220	1187488	Glycosyltransferase, family GT4
MARIT_1479		1568188	1569144	Glycosyltransferase, family GT2
MARIT_1539	<i>ypjH</i>	1631382	1632509	N-acetyl-alpha-D-glucosaminyl L-malate synthase, family GT4
MARIT_1552		1648434	1650212	Bimodular glycosyltransferase, family GT2
MARIT_1559		655513	1656271	Non-classified, family GTnc
MARIT_1679		1785320	1786363	Glycosyltransferase, family GT2
MARIT_1780		1899898	1902288	Penicillin-binding protein 1C, family GT51
MARIT_1796		1930847	1932055	response regulator receiver / glycosyltransferase, family GT2
MARIT_1802		1939686	1940894	Glycosyltransferase, family GT4
MARIT_1862		1998280	1999230	Glycosyltransferase, family GT2
MARIT_2248		2415963	2416637	Glycosyl transferase, family GT2 (N-ter fragment)
MARIT_2389		2550527	2551651	Glycosyltransferase, family GT4
MARIT_2577	<i>lpxB</i>	2787894	2788997	Lipid-A-disaccharide synthase, family GT19
MARIT_2950		3165538	3166230	Glycosyltransferase, family GT2
MARIT_2951		3166231	3167721	Glycosyltransferase, family GT2
MARIT_2984		3206758	3207750	Lipopolysaccharide core biosynthesis mannosyltransferase LpcC, family GT4
MARIT_3019		3249697	3250419	Dolichol phosphate mannosyl transferase, family GT2
MARIT_3154		3400357	3401154	Glycosyltransferase, family GT2
MARIT_3157		3403425	3404489	Glycosyltransferase, family GT4
MARIT_3159		3405815	3406933	Glycosyltransferase, family GT4
MARIT_3160		3406930	3408285	Glycosyltransferase
MARIT_3161		3408286	3409047	Glycosyltransferase, family GT2

**Polysaccharide lyases (PL)**

<i>MARIT_2107</i>	<i>csIA</i>	2258280	2260721	Chondroitinase-AC precursor containing a C-terminal secretion signal, family PL8_3
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**Carbohydrate-binding modules (CBM)**

<i>MARIT_0153</i>		148063	150147	CBM32-containing protein
<i>MARIT_0890</i>		904074	905699	CBM50-containing protein
<i>MARIT_1472</i>		1558559	1559107	CBM50-containing protein
<i>MARIT_1474</i>				Chitin-binding protein, family CBM5
<i>MARIT_2293</i>		2451516	2453987	DOMON-like protein, family CBMnc
<i>MARIT_3044</i>		3278948	3279463	BON-LysM-containing protein, family CBM50

**Carbohydrate esterases (CE)**

<i>MARIT_1502</i>	<i>lpxC/fabZ</i>	1590266	1591657	Bifunctional enzyme LpxC/FabZ [Includes: UDP-3-O-[3-hydroxymyristoyl] <i>N</i> -acetylglucosamine deacetylase, family CE11 ; 3-hydroxyacyl-[acyl-carrier-protein] dehydratase FabZ], family CE11
<i>MARIT_1908</i>		2049399	2051891	Carbohydrate esterase, family CE14
<i>MARIT_2146</i>		2305544	2306260	Carbohydrate esterase, family CE14
<i>MARIT_2683</i>		2904118	2904810	Partial carbohydrate esterase, family CE12

**Auxiliary activities (AA)**

<i>MARIT_0946</i>	<i>katG</i>	971380	973581	Peroxidase/catalase HPI, family AA2
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