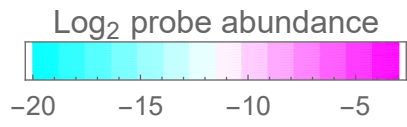


Log<sub>2</sub> normalized probes  
[Glycosyltransferases, LPS, and Peptidoglycan metabolism; n = 39]



	DD <sub>3</sub>	LL <sub>3</sub>	Diel <sub>3</sub>	DD <sub>6</sub>	LL <sub>6</sub>	Diel <sub>6</sub>	
K00721 DPM1; dolichol–phosphate mannosyltransferase [EC:2.4.1.83]							SAR116_1480 glycosyl transferase
K05366 mrcA; penicillin–binding protein 1A [EC:2.4.1.129 3.4.16.4]							SAR116_1031 Membrane carboxypeptidase/penicillin–binding protein
K16703 wcaL; colanic acid/amylovoran biosynthesis glycosyltransferase WcaL/AmsK [EC:2.4.–.–]							SAR116_1394 glycosyl transferase
K00677 lpxA; UDP–N–acetylglucosamine acyltransferase [EC:2.3.1.129]							SAR116_0507 Acyl–(acyl–carrier–protein)––UDP–N–acetylglucosamine O–acyltransferase
K00748 lpxB; lipid–A–disaccharide synthase [EC:2.4.1.182]							SAR116_0505 Lipid A disaccharide synthetase
K02535 lpxC; UDP–3–O–[3–hydroxymyristoyl] N–acetylglucosamine deacetylase [EC:3.5.1.108]							SAR116_2327 UDP–3–O–acyl N–acetylglucosamine deacetylase
K02536 lpxD; UDP–3–O–[3–hydroxymyristoyl] glucosamine N–acyltransferase [EC:2.3.1.191]							SAR116_0509 UDP–3–O–(3–hydroxymyristoyl) glucosamine N–acyltransferase
K09949 lpxI; UDP–2,3–diacylglucosamine hydrolase [EC:3.6.1.54]							SAR116_0506 protein of unknown function DUF1009
K00912 lpxK; tetraacyldisaccharide 4′–kinase [EC:2.7.1.130]							SAR116_1134 tetraacyldisaccharide 4′–kinase
K02517 lpxL; Kdo2–lipid IVA lauroyltransferase/acyltransferase [EC:2.3.1.241 2.3.1.–]							SAR116_1135 Lauroyl/myristoyl acyltransferase
K02527 kdtA; 3–deoxy–D–manno–octulosonic–acid transferase [EC:2.4.99.12 2.4.99.13 2.4.99.14 2.4.99.15]							SAR116_1133 Three–deoxy–D–manno–octulosonic–acid transferase domain protein
K01627 kdsA; 2–dehydro–3–deoxyphosphooctonate aldolase (KDO 8–P synthase) [EC:2.5.1.55]							SAR116_0202 2–dehydro–3–deoxyphosphooctonate aldolase
K00979 kdsB; 3–deoxy–manno–octulosonate cytidylyltransferase (CMP–KDO synthetase) [EC:2.7.7.38]							SAR116_1487 3–deoxy–D–manno–octulosonate cytidylyltransferase
K06041 kdsD; arabinose–5–phosphate isomerase [EC:5.3.1.13]							SAR116_0027 KpsF/GutQ family protein
K02843 waaF; lipopolysaccharide heptosyltransferase II [EC:2.4.99.24]							SAR116_1131 Glycosyl transferase
K03271 gmhA; D–sedoheptulose 7–phosphate isomerase [EC:5.3.1.28]							SAR116_1672 phosphoheptose isomerase
K03273 gmhB; D–glycero–D–manno–heptose 1,7–bisphosphate phosphatase [EC:3.1.3.82 3.1.3.83]							SAR116_1805 D–glycero–D–manno–heptose 1,7–bisphosphate phosphatase
K03272 gmhC; D–beta–D–heptose 7–phosphate kinase / D–beta–D–heptose 1–phosphate adenosyltransferase [EC:2.7.1.167 2.7.7.70]							SAR116_0704 rfaE bifunctional protein
K20534 gtrB; polyisoprenyl–phosphate glycosyltransferase [EC:2.4.–.–]							SAR116_0993 hypothetical protein
K13012 wbqP; O–antigen biosynthesis protein WbqP							SAR116_1964 sugar transferase
K00790 murA; UDP–N–acetylglucosamine 1–carboxyvinyltransferase [EC:2.5.1.7]							SAR116_1321 UDP–N–acetylglucosamine 1–carboxyvinyltransferase
K00075 murB; UDP–N–acetylmuramate dehydrogenase [EC:1.3.1.98]							SAR116_2332 UDP–N–acetylenolpyruvoylglucosamine reductase
K01924 murC; UDP–N–acetylmuramate––alanine ligase [EC:6.3.2.8]							SAR116_2333 UDP–N–acetylmuramate––alanine ligase
K01925 murD; UDP–N–acetylmuramoylalanine––D–glutamate ligase [EC:6.3.2.9]							SAR116_2336 UDP–N–acetylmuramoylalanine––D–glutamate ligase
K01928 murE; UDP–N–acetylmuramoyl–L–alanyl–D–glutamate––2,6–diaminopimelate ligase [EC:6.3.2.13]							SAR116_2339 UDP–N–acetylmuramyl–tripeptide synthetases
K01921 ddl; D–alanine–D–alanine ligase [EC:6.3.2.4]							SAR116_2331 D–alanine––D–alanine ligase
K01921 ddl; D–alanine–D–alanine ligase [EC:6.3.2.4]							SAR116_1216 D–alanine––D–alanine ligase
K01775 alr; alanine racemase [EC:5.1.1.1]							SAR116_0646 alanine racemase
K01000 mraY; phospho–N–acetylmuramoyl–pentapeptide–transferase [EC:2.7.8.13]							SAR116_2337 Phospho–N–acetylmuramoyl–pentapeptide transferase
K02563 murG; UDP–N–acetylglucosamine––N–acetylmuramyl–(pentapeptide) pyrophosphoryl–undecaprenol N–acetylglucosamine transferase [EC:2.4.1.227]							SAR116_2334 Undecaprenyldiphospho–muramoylpentapeptide beta–N–acetylglucosaminyltransferase
K06153 bacA; undecaprenyl–diphosphatase [EC:3.6.1.27]							SAR116_1242 undecaprenyl–diphosphatase
K03980 murJ; putative peptidoglycan lipid II flippase							SAR116_1597 integral membrane protein MviN
K05366 mrcA; penicillin–binding protein 1A [EC:2.4.1.129 3.4.16.4]							SAR116_1031 Membrane carboxypeptidase/penicillin–binding protein
K05515 mrdA; penicillin–binding protein 2 [EC:3.4.16.4]							SAR116_0707 Peptidoglycan glycosyltransferase
K03587ftsI; cell division protein FtsI (penicillin–binding protein 3) [EC:3.4.16.4]							SAR116_2340 Cell division protein FtsI/penicillin–binding protein 2
K07258 dacC; serine–type D–Ala–D–Ala carboxypeptidase (penicillin–binding protein 5/6) [EC:3.4.16.4]							SAR116_0355 D–alanyl–D–alanine carboxypeptidase
K08309slt; soluble lytic murein transglycosylase [EC:4.2.2.–]							SAR116_1664 Soluble lytic murein transglycosylase and related regulatory protein
K08305 mltB; membrane–bound lytic murein transglycosylase B [EC:4.2.2.–]							SAR116_0353 Membrane–bound lytic murein transglycosylase B
K01448 amiABC; N–acetylmuramoyl–L–alanine amidase [EC:3.5.1.28]							SAR116_1032 N–acetylmuramoyl–L–alanine amidase