

Supplementary Table S8. Over-represented putative virulence factors in disease.

These virulence factors were identified bibliographically or by BLAST alignment to the VFDB as described in the methods section.

In green genes involved in iron metabolism. In red genes involved in lipopolysaccharide synthesis.

Species	Locus ID	Annotation (PATRIC,HOMD,JCVI)
Abiotrophia defectiva	VBIAbiDef30295_0024	acetyl-CoA synthetase, AMP-forming-related, Acs
Abiotrophia defectiva	VBIAbiDef30295_0039	cation transport ATPase, HAD family
Abiotrophia defectiva	VBIAbiDef30295_2952	CheA signal transduction histidine kinase
Abiotrophia defectiva	VBIAbiDef30295_1494	dTDP-4-dehydrorhamnose 3,5-epimerase
Abiotrophia defectiva	VBIAbiDef30295_2882	flagellar motor switch protein FlIN
Abiotrophia defectiva	VBIAbiDef30295_2632	flagelline
Abiotrophia defectiva	VBIAbiDef30295_2609	glycosyltransferase CDP- glycerolpolyglycerophosphate glycerophosphotransferase, GT2 family
Abiotrophia defectiva	VBIAbiDef30295_1027	hemolysin-related protein, transporter-associated family, TlyC
Abiotrophia defectiva	VBIAbiDef30295_1743	histidinol-phosphate aminotransferase, HisC
Abiotrophia defectiva	VBIAbiDef30295_0860	nitrate sulfonate bicarbonate ABC transporter, ATPase component
Abiotrophia defectiva	VBIAbiDef30295_1578	predicted CDP-glycerolpolyglycerophosphate glycerophosphotransferase
Abiotrophia defectiva	VBIAbiDef30295_2951	RNA polymerase sigma 28 subunit FlIA/WhiG
Abiotrophia defectiva	VBIAbiDef30295_1258	UDP-N-acetyl-D-mannosaminuronate dehydrogenase
Abiotrophia defectiva	VBIAbiDef30295_2836	V-type ATP synthase subunit beta
Achromobacter xylosoxidans	VBIAchXyl160325_4698	ABC transporter ATP-binding protein/permease
Achromobacter xylosoxidans	VBIAchXyl160325_4554	elongation factor Tu
Achromobacter xylosoxidans	VBIAchXyl160325_1461	flagellar motor switch protein FlIM
Achromobacter xylosoxidans	VBIAchXyl187661_2810	hypothetical protein
Achromobacter xylosoxidans	VBIAchXyl187661_2953	hypothetical protein
Achromobacter xylosoxidans	VBIAchXyl160325_5686	methyl-accepting chemotaxis protein DmcA
Achromobacter xylosoxidans	VBIAchXyl160325_2599	MotA/TolQ/ExbB proton channel
Achromobacter xylosoxidans	VBIAchXyl160325_3017	NADPH-dependent butanol dehydrogenase
Achromobacter xylosoxidans	VBIAchXyl187661_0417	peptide ABC transporter ATPase
Achromobacter xylosoxidans	VBIAchXyl160325_2317	RecName: Full=Flagellar filament 30.7 kDa core protein; AltName:sFull=Flagellin subunit protein B3
Acinetobacter baumannii	VBIACiBau103176_0457	conserved domain protein
Acinetobacter baumannii	VBIACiBau42682_0320	glycerol kinase
Acinetobacter baumannii	VBIACiBau3967_3195	glycerol kinase
Acinetobacter baumannii	VBIACiBau42682_1776	glycosyltransferase, group 2 family protein
Acinetobacter baumannii	VBIACiBau3967_2975	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_3152	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_2207	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_1207	hypothetical protein
Acinetobacter baumannii	VBIACiBau103176_1120	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_2580	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_0137	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_2615	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_2386	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_1105	hypothetical protein
Acinetobacter baumannii	VBIACiBau3967_1642	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_2880	hypothetical protein
Acinetobacter baumannii	VBIACiBau69881_3062	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_0046	hypothetical protein
Acinetobacter baumannii	VBIACiBau103538_1211	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_3074	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_2993	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_2135	hypothetical protein
Acinetobacter baumannii	VBIACiBau103176_0648	hypothetical protein
Acinetobacter baumannii	VBIACiBau103538_3153	hypothetical protein
Acinetobacter baumannii	VBIACiBau103176_0760	hypothetical protein
Acinetobacter baumannii	VBIACiBau103176_1389	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_3330	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_0124	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_0107	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_0869	hypothetical protein
Acinetobacter baumannii	VBIACiBau3967_2061	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_0111	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_1767	hypothetical protein
Acinetobacter baumannii	VBIACiBau103538_2006	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_1615	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_3325	hypothetical protein
Acinetobacter baumannii	VBIACiBau103538_2076	hypothetical protein
Acinetobacter baumannii	VBIACiBau3967_0795	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_2154	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_0274	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_1866	hypothetical protein
Acinetobacter baumannii	VBIACiBau103538_2010	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_3283	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_2299	hypothetical protein
Acinetobacter baumannii	VBIACiBau103176_1750	hypothetical protein
Acinetobacter baumannii	VBIACiBau103538_0901	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_3025	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_2428	hypothetical protein

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Acinetobacter baumannii	VBIACiBau71211_1136	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_2507	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_3388	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_1079	hypothetical protein
Acinetobacter baumannii	VBIACiBau3967_1816	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_0210	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_3035	hypothetical protein
Acinetobacter baumannii	VBIACiBau103176_1026	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_1119	hypothetical protein
Acinetobacter baumannii	VBIACiBau71211_3034	hypothetical protein
Acinetobacter baumannii	VBIACiBau42682_3338	hypothetical protein
Acinetobacter baumannii	VBIACiBau88365_2193	nicotinate phosphoribosyltransferase
Acinetobacter baumannii	VBIACiBau88365_2784	patatin
Acinetobacter baumannii	VBIACiBau88365_0120	phosphoribulokinase/uridine kinase
Acinetobacter baumannii	VBIACiBau71211_1200	UvrABC system protein A
Actinomyces odontolyticus	VBIActOdo114913_0658	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Actinomyces odontolyticus	VBIActOdo67396_0448	Carbonic anhydrase EC 4.2.1.1
Actinomyces odontolyticus	VBIActOdo114913_1744	CipB protein
Actinomyces odontolyticus	VBIActOdo114913_1669	Enolase EC 4.2.1.11
Actinomyces odontolyticus	VBIActOdo114913_1846	Enoyl-acyl-carrier-protein reductase NADPH EC 1.3.1.10
Actinomyces odontolyticus	VBIActOdo67396_0154	esterase
Actinomyces odontolyticus	VBIActOdo67396_0334	Ferrichrome-iron receptor
Actinomyces odontolyticus	VBIActOdo67396_0640	FIG00351208 hypothetical protein
Actinomyces odontolyticus	VBIActOdo67396_0162	FIG00354122 hypothetical protein
Actinomyces odontolyticus	VBIActOdo67396_0222	FIG00354122 hypothetical protein
Actinomyces odontolyticus	VBIActOdo67396_0208	FIG00354122 hypothetical protein
Actinomyces odontolyticus	VBIActOdo67396_0228	FIG00354122 hypothetical protein
Actinomyces odontolyticus	VBIActOdo114913_0522	flagellar motor switch protein FlIG
Actinomyces odontolyticus	VBIActOdo114913_1760	Flagellin protein FlaA
Actinomyces odontolyticus	VBIActOdo114913_1780	Flagellin protein FlaA
Actinomyces odontolyticus	VBIActOdo114913_0770	Flagellum-specific ATP synthase FliI
Actinomyces odontolyticus	VBIActOdo67396_0909	Gamma-glutamyltranspeptidase EC 2.3.2.2
Actinomyces odontolyticus	VBIActOdo67396_0931	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Actinomyces odontolyticus	VBIActOdo67396_1764	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Actinomyces odontolyticus	VBIActOdo67396_1833	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Actinomyces odontolyticus	VBIActOdo67396_0449	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Actinomyces odontolyticus	VBIActOdo114913_1633	Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolyase
Actinomyces odontolyticus	VBIActOdo114913_0313	Heat shock protein 60 family chaperone GroEL
Actinomyces odontolyticus	VBIActOdo114913_0100	hypothetical protein
Actinomyces odontolyticus	VBIActOdo114913_0067	hypothetical protein
Actinomyces odontolyticus	VBIActOdo114913_0356	hypothetical protein
Actinomyces odontolyticus	VBIActOdo114913_0360	hypothetical protein
Actinomyces odontolyticus	VBIActOdo67396_1127	integral membrane protein
Actinomyces odontolyticus	VBIActOdo67396_1376	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Actinomyces odontolyticus	VBIActOdo67396_1034	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Actinomyces odontolyticus	VBIActOdo114913_1822	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Actinomyces odontolyticus	VBIActOdo67396_1310	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Actinomyces odontolyticus	VBIActOdo67396_0519	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Actinomyces odontolyticus	VBIActOdo67396_1863	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Actinomyces odontolyticus	VBIActOdo114913_1756	Mg2+ transport ATPase 2C P-type EC 3.6.3.2
Actinomyces odontolyticus	VBIActOdo114913_1809	Multiple sugar ABC transporter 2C ATP-binding protein
Actinomyces odontolyticus	VBIActOdo67396_0016	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Actinomyces odontolyticus	VBIActOdo67396_0095	Opine oxidase subunit A EC 1.-.-.-
Actinomyces odontolyticus	VBIActOdo67396_1901	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Actinomyces odontolyticus	VBIActOdo67396_1490	Outer membrane stress sensor protease DegS
Actinomyces odontolyticus	VBIActOdo67396_0296	Phosphomannomutase EC 5.4.2.8
Actinomyces odontolyticus	VBIActOdo114913_0749	Propionate catabolism operon regulatory protein PrpR
Actinomyces odontolyticus	VBIActOdo67396_0804	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Actinomyces odontolyticus	VBIActOdo67396_0297	Protein ImpG VasA
Actinomyces odontolyticus	VBIActOdo67396_0231	Protein ImpG VasA
Actinomyces odontolyticus	VBIActOdo114913_1675	Quinone oxidoreductase EC 1.6.5.5
Actinomyces odontolyticus	VBIActOdo67396_0125	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Actinomyces odontolyticus	VBIActOdo67396_1892	Thioldisulfide interchange protein DsbG precursor
Actinomyces odontolyticus	VBIActOdo67396_0152	Transcriptional activator of acetoin dehydrogenase operon AcoR
Actinomyces odontolyticus	VBIActOdo67396_0124	Transcriptional activator of acetoin dehydrogenase operon AcoR
Actinomyces odontolyticus	VBIActOdo114913_0681	Transcriptional regulatory protein ompR
Actinomyces odontolyticus	VBIActOdo67396_1913	Translation elongation factor Tu
Actinomyces odontolyticus	VBIActOdo67396_0535	Twitching motility protein PilT
Actinomyces odontolyticus	VBIActOdo67396_1850	Type II secretory pathway 2C ATPase PuIE Tfp pilus assembly pathway 2C ATPase PilB
Actinomyces odontolyticus	VBIActOdo114913_0574	Type III effector HopPmaJ
Actinomyces odontolyticus	VBIActOdo114913_1871	Type IV fimbrial assembly protein PilC
Actinomyces odontolyticus	VBIActOdo67396_0995	UDP-2 2C3-diacylglucosamine hydrolase EC 3.6.1.-
Actinomyces odontolyticus	VBIActOdo67396_0702	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Actinomyces odontolyticus	VBIActOdo67396_1900	Uncharacterized siderophore S biosynthesis AcsA-like protein Siderophore synthetase superfamily 2C group B
Actinomyces oris	VBIActOri165140_1078	Uncharacterized siderophore S biosynthesis AcsA-like protein Siderophore synthetase superfamily 2C group B
Actinomyces oris	VBIActOri165140_1052	ABC transporter 2C ATP-binding permease protein
Actinomyces oris	VBIActOri165140_1832	ABC-type polar amino acid transport system 2C ATPase component
Actinomyces oris	VBIActOri165140_0641	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Actinomyces oris	VBIActOri165140_0425	Anthranilate synthase 2C aminase component EC 4.1.3.27
		Arabinose 5-phosphate isomerase EC 5.3.1.13

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Actinomyces oris	VBIActOri165140_1062	ATP synthase beta chain EC 3.6.3.14
Actinomyces oris	VBIActOri165140_0276	Capsular polysaccharide repeat unit transporter CpsL
Actinomyces oris	VBIActOri165140_1634	Choline binding protein A
Actinomyces oris	VBIActOri165140_1141	Choline binding protein A
Actinomyces oris	VBIActOri165140_1862	Choline binding protein A
Actinomyces oris	VBIActOri165140_1492	Choline binding protein A
Actinomyces oris	VBIActOri165140_1940	Choline binding protein A
Actinomyces oris	VBIActOri165140_1701	Choline binding protein A
Actinomyces oris	VBIActOri165140_1928	Choline binding protein A
Actinomyces oris	VBIActOri165140_1572	Choline binding protein A
Actinomyces oris	VBIActOri165140_1161	Choline binding protein A
Actinomyces oris	VBIActOri165140_1149	Choline binding protein A
Actinomyces oris	VBIActOri165140_1395	Choline binding protein A
Actinomyces oris	VBIActOri165140_1359	Choline binding protein A
Actinomyces oris	VBIActOri165140_1656	Choline binding protein A
Actinomyces oris	VBIActOri165140_1154	Choline binding protein A
Actinomyces oris	VBIActOri165140_1431	Choline binding protein A
Actinomyces oris	VBIActOri165140_1605	Choline binding protein A
Actinomyces oris	VBIActOri165140_1095	COG1132 ABC-type multidrug transport system 2C ATPase and permease components
Actinomyces oris	VBIActOri165140_1745	COG1272 Predicted membrane protein hemolysin III homolog
Actinomyces oris	VBIActOri165140_1715	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Actinomyces oris	VBIActOri165140_1735	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13 dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Actinomyces oris	VBIActOri165140_2127	FIG01290412 hypothetical protein
Actinomyces oris	VBIActOri165140_2038	FIG01290412 hypothetical protein
Actinomyces oris	VBIActOri165140_2092	FIG01290412 hypothetical protein
Actinomyces oris	VBIActOri165140_2095	FIG01290412 hypothetical protein
Actinomyces oris	VBIActOri165140_2050	FIG01290412 hypothetical protein
Actinomyces oris	VBIActOri165140_1997	FIG01290412 hypothetical protein
Actinomyces oris	VBIActOri165140_0833	FIG01290412 hypothetical protein
Actinomyces oris	VBIActOri165140_0257	FKBP-type peptidyl-prolyl cis-trans isomerase fkIB EC 5.2.1.8
Actinomyces oris	VBIActOri165140_0468	Gamma-glutamyltranspeptidase EC 2.3.2.2
Actinomyces oris	VBIActOri165140_0653	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Actinomyces oris	VBIActOri165140_0281	Glycosyl transferase 2C group 1
Actinomyces oris	VBIActOri165140_1814	glycosyl transferase 2C group 1
Actinomyces oris	VBIActOri165140_0631	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Actinomyces oris	VBIActOri165140_1216	Hemolysins and related proteins containing CBS domains
Actinomyces oris	VBIActOri165140_0872	hypothetical protein
Actinomyces oris	VBIActOri165140_0992	hypothetical protein
Actinomyces oris	VBIActOri165140_1748	hypothetical protein
Actinomyces oris	VBIActOri165140_0839	hypothetical protein
Actinomyces oris	VBIActOri165140_0424	hypothetical protein
Actinomyces oris	VBIActOri165140_0391	IcmF-related protein
Actinomyces oris	VBIActOri165140_0372	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Actinomyces oris	VBIActOri165140_0627	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Actinomyces oris	VBIActOri165140_0626	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Actinomyces oris	VBIActOri165140_0630	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Actinomyces oris	VBIActOri165140_0622	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Actinomyces oris	VBIActOri165140_0563	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Actinomyces oris	VBIActOri165140_1301	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Actinomyces oris	VBIActOri165140_1081	Mannose-6-phosphate isomerase EC 5.3.1.8
Actinomyces oris	VBIActOri165140_0159	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Actinomyces oris	VBIActOri165140_1309	Nucleoside 5-triphosphatase RdgB dHAPT 2C dITP 2C XTP-specific EC 3.6.1.15
Actinomyces oris	VBIActOri165140_0645	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Actinomyces oris	VBIActOri165140_0650	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Actinomyces oris	VBIActOri165140_0158	Oligopeptide transport system permease protein OppB TC 3.A.1.5.1
Actinomyces oris	VBIActOri165140_0713	Pantoate--beta-alanine ligase EC 6.3.2.1
Actinomyces oris	VBIActOri165140_0328	Phosphatidate cytidyltransferase EC 2.7.7.41
Actinomyces oris	VBIActOri165140_0258	Polysaccharide export lipoprotein Wza
Actinomyces oris	VBIActOri165140_1008	Porphobilinogen synthase EC 4.2.1.24
Actinomyces oris	VBIActOri165140_1290	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Actinomyces oris	VBIActOri165140_1067	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Actinomyces oris	VBIActOri165140_0747	Response regulator receiverTranscriptional regulatory protein 2C C- terminal
Actinomyces oris	VBIActOri165140_1046	Serine threonine-protein kinase PknA EC 2.7.11.1
Actinomyces oris	VBIActOri165140_1300	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Actinomyces oris	VBIActOri165140_0426	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Actinomyces oris	VBIActOri165140_0702	Translation elongation factor Tu
Actinomyces oris	VBIActOri165140_1084	two component sensor kinase
Actinomyces oris	VBIActOri165140_0784	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
Actinomyces oris	VBIActOri165140_1743	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
Actinomyces oris	VBIActOri165140_0634	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Actinomyces oris	VBIActOri165140_0231	UDP-glucose dehydrogenase EC 1.1.1.22
Actinomyces oris	VBIActOri165140_0288	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Actinomyces oris	VBIActOri165140_0174	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Actinomyces oris	VBIActOri165140_2211	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Actinomyces oris	VBIActOri165140_1140	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Actinomyces sp. oral taxon 170	VBIActSp161325_1453	ABC transporter 2C ATP-binding permease protein
Actinomyces sp. oral taxon 170	VBIActSp161325_1059	Lipid A export ATP-binding permease protein MsbA
Actinomyces sp. oral taxon 170	VBIActSp161325_2056	putative ABC transporter 2C ATP-binding protein
Actinomyces sp. oral taxon 171	VBIActSp147751_1715	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB

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Actinomyces sp. oral taxon 171	VBIActSp147751_0140	ClpB protein
Actinomyces sp. oral taxon 171	VBIActSp147751_1316	FIG00356600 hypothetical protein
Actinomyces sp. oral taxon 171	VBIActSp147751_0180	Glucose-6-phosphate isomerase EC 5.3.1.9
Actinomyces sp. oral taxon 171	VBIActSp147751_0151	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Actinomyces sp. oral taxon 171	VBIActSp147751_1675	probable surface-anchored fimbrial subunit
Actinomyces sp. oral taxon 171	VBIActSp147751_0927	Putative ABC transport system ATP-binding protein
Actinomyces sp. oral taxon 171	VBIActSp147751_0548	SN-glycerol-3-phosphate transport ATP-binding protein UgpC TC 3.A.1.1.3
Actinomyces sp. oral taxon 171	VBIActSp147751_0547	Translation elongation factor Tu
Actinomyces sp. oral taxon 175	VBIActSp178826_2472	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Actinomyces sp. oral taxon 175	VBIActSp178826_1070	ABC transporter 2C ATP-binding protein
Actinomyces sp. oral taxon 175	VBIActSp178826_1560	ABC transporter 2C ATP-binding protein
Actinomyces sp. oral taxon 175	VBIActSp178826_1277	ABC transporter ATP-binding protein YvcR
Actinomyces sp. oral taxon 175	VBIActSp178826_2077	ABC-type Fe3+-siderophore transport system 2C ATPase component
Actinomyces sp. oral taxon 175	VBIActSp178826_1962	ABC-type Fe3+-siderophore transport system 2C permease component
Actinomyces sp. oral taxon 175	VBIActSp178826_1405	Acetylornithine aminotransferase EC 2.6.1.11
Actinomyces sp. oral taxon 175	VBIActSp178826_0620	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Actinomyces sp. oral taxon 175	VBIActSp178826_2055	Aspartate 1-decarboxylase EC 4.1.1.11
Actinomyces sp. oral taxon 175	VBIActSp178826_2308	ATP synthase beta chain EC 3.6.3.14
Actinomyces sp. oral taxon 175	VBIActSp178826_0919	capsular polysaccharide biosynthesis protein
Actinomyces sp. oral taxon 175	VBIActSp178826_0263	Choline binding protein A
Actinomyces sp. oral taxon 175	VBIActSp178826_2027	COG0791 Cell wall-associated hydrolases invasion-associated proteins
Actinomyces sp. oral taxon 175	VBIActSp178826_2241	DNA-binding response regulator 2C LuxR family
Actinomyces sp. oral taxon 175	VBIActSp178826_1834	DNA-binding response regulator mtrA
Actinomyces sp. oral taxon 175	VBIActSp178826_1794	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Actinomyces sp. oral taxon 175	VBIActSp178826_1792	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Actinomyces sp. oral taxon 175	VBIActSp178826_1775	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Actinomyces sp. oral taxon 175	VBIActSp178826_2082	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Actinomyces sp. oral taxon 175	VBIActSp178826_0255	Ferric enterobactin-binding periplasmic protein FepB TC 3.A.1.14.2
Actinomyces sp. oral taxon 175	VBIActSp178826_0651	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Actinomyces sp. oral taxon 175	VBIActSp178826_2378	Ferrous iron transport protein B
Actinomyces sp. oral taxon 175	VBIActSp178826_1259	FIG00356070 hypothetical protein
Actinomyces sp. oral taxon 175	VBIActSp178826_0008	FIG00740262 hypothetical protein
Actinomyces sp. oral taxon 175	VBIActSp178826_2181	FIG01290412 hypothetical protein
Actinomyces sp. oral taxon 175	VBIActSp178826_0630	Fimbrial subunit type 2 precursor
Actinomyces sp. oral taxon 175	VBIActSp178826_2338	FtsK SpoIIIE family protein
Actinomyces sp. oral taxon 175	VBIActSp178826_2127	FtsK SpoIIIE family protein 2C putative secretion system component EssC Yuka
Actinomyces sp. oral taxon 175	VBIActSp178826_0887	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Actinomyces sp. oral taxon 175	VBIActSp178826_0772	glycosyltransferase
Actinomyces sp. oral taxon 175	VBIActSp178826_0004	Heat shock protein 60 family chaperone GroEL
Actinomyces sp. oral taxon 175	VBIActSp178826_1564	hypothetical protein
Actinomyces sp. oral taxon 175	VBIActSp178826_1339	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Actinomyces sp. oral taxon 175	VBIActSp178826_1745	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Actinomyces sp. oral taxon 175	VBIActSp178826_0639	Menaquinone-specific isochorismate synthase EC 5.4.4.2
Actinomyces sp. oral taxon 175	VBIActSp178826_0329	Methionine ABC transporter ATP-binding protein
Actinomyces sp. oral taxon 175	VBIActSp178826_0162	Methionine ABC transporter ATP-binding protein
Actinomyces sp. oral taxon 175	VBIActSp178826_2468	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Actinomyces sp. oral taxon 175	VBIActSp178826_0328	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Actinomyces sp. oral taxon 175	VBIActSp178826_2452	Nitrate nitrite transporter
Actinomyces sp. oral taxon 175	VBIActSp178826_0491	Nucleoside 5-triphosphatase RdgB dHAPTP 2C dITP 2C XTP-specific EC 3.6.1.15
Actinomyces sp. oral taxon 175	VBIActSp178826_0489	Phosphate regulon sensor protein PhoR SphS EC 2.7.13.3
Actinomyces sp. oral taxon 175	VBIActSp178826_2218	Phosphate regulon transcriptional regulatory protein PhoB SphR
Actinomyces sp. oral taxon 175	VBIActSp178826_2051	Phosphoglucosamine mutase EC 5.4.2.10
Actinomyces sp. oral taxon 175	VBIActSp178826_1068	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Actinomyces sp. oral taxon 175	VBIActSp178826_0243	Polysaccharide biosynthesis protein CpsMV
Actinomyces sp. oral taxon 175	VBIActSp178826_0445	Porphobilinogen synthase EC 4.2.1.24
Actinomyces sp. oral taxon 175	VBIActSp178826_1992	Protein serine threonine phosphatase PrpC 2C regulation of stationary phase
Actinomyces sp. oral taxon 175	VBIActSp178826_1050	putative iron-siderophore ABC transporter 2Cpermease component
Actinomyces sp. oral taxon 175	VBIActSp178826_0605	Putative N-acetylgalactosaminyl-diphosphoundecaprenol glucuronosyltransferase
Actinomyces sp. oral taxon 175	VBIActSp178826_1111	putative two-component system response regulator
Actinomyces sp. oral taxon 175	VBIActSp178826_1104	putative two-component system response regulator
Actinomyces sp. oral taxon 175	VBIActSp178826_0862	putative two-component system response regulator
Actinomyces sp. oral taxon 175	VBIActSp178826_0326	Pyrraline-5-carboxylate reductase EC 1.5.1.2
Actinomyces sp. oral taxon 175	VBIActSp178826_1994	Respiratory nitrate reductase alpha chain EC 1.7.99.4
Actinomyces sp. oral taxon 175	VBIActSp178826_0754	Respiratory nitrate reductase delta chain EC 1.7.99.4
Actinomyces sp. oral taxon 175	VBIActSp178826_0443	Response regulator receiver/Transcriptional regulatory protein 2C C- terminal
Actinomyces sp. oral taxon 175	VBIActSp178826_0755	S-ribosylhomocysteine lyase EC 4.4.1.21
Actinomyces sp. oral taxon 175	VBIActSp178826_1507	Autoinducer-2 production protein LuxS
Actinomyces sp. oral taxon 175	VBIActSp178826_0374	sensor histidine kinase
Actinomyces sp. oral taxon 175	VBIActSp178826_0409	serine threonine protein kinase
Actinomyces sp. oral taxon 175	VBIActSp178826_0117	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Actinomyces sp. oral taxon 175	VBIActSp178826_0009	Serine threonine-protein kinase PknA EC 2.7.11.1
Actinomyces sp. oral taxon 175	VBIActSp178826_0041	Sialidase EC 3.2.1.18
Actinomyces sp. oral taxon 175	VBIActSp178826_0012	Sialidase EC 3.2.1.18
Actinomyces sp. oral taxon 175	VBIActSp178826_1784	Sialidase EC 3.2.1.18
Actinomyces sp. oral taxon 175	VBIActSp178826_0596	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Actinomyces sp. oral taxon 175	VBIActSp178826_0854	two component transcriptional regulator 2C winged helix family
Actinomyces sp. oral taxon 175	VBIActSp178826_0857	Two-component response regulator
Actinomyces sp. oral taxon 175	VBIActSp178826_1769	type II secretion system protein E
Actinomyces sp. oral taxon 175	VBIActSp178826_1765	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
		UDP-glucose 4-epimerase EC 5.1.3.2

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Actinomyces sp. oral taxon 175	VBIActSp178826_2367	UDP-glucose dehydrogenase EC 1.1.1.22
Actinomyces sp. oral taxon 175	VBIActSp178826_1772	UDP-N-acetyl-D-mannosaminuronic acid dehydrogenase
Actinomyces sp. oral taxon 175	VBIActSp178826_1368	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Actinomyces sp. oral taxon 175	VBIActSp178826_0963	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Actinomyces sp. oral taxon 175	VBIActSp178826_1559	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Actinomyces sp. oral taxon 175	VBIActSp178826_0254	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Actinomyces sp. oral taxon 175	VBIActSp178826_2022	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Actinomyces sp. oral taxon 178	VBIActSp170346_1414	3-ketoacyl-CoA thiolase EC 2.3.1.16 Acetyl-CoA acetyltransferase EC 2.3.1.9
Actinomyces sp. oral taxon 178	VBIActSp170346_0939	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Actinomyces sp. oral taxon 178	VBIActSp170346_0132	ABC transporter 2C transmembrane region EC 3.6.3.27
Actinomyces sp. oral taxon 178	VBIActSp170346_1071	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Actinomyces sp. oral taxon 178	VBIActSp170346_1611	Cell wall surface anchor family protein
Actinomyces sp. oral taxon 178	VBIActSp170346_1894	Choline binding protein A
Actinomyces sp. oral taxon 178	VBIActSp170346_1897	Choline binding protein A
Actinomyces sp. oral taxon 178	VBIActSp170346_2033	Choline binding protein A
Actinomyces sp. oral taxon 178	VBIActSp170346_0123	DNA-binding heavy metal response regulator
Actinomyces sp. oral taxon 178	VBIActSp170346_1112	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13 dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Actinomyces sp. oral taxon 178	VBIActSp170346_1021	Ferrisiderophore receptor Irp6A
Actinomyces sp. oral taxon 178	VBIActSp170346_1249	FIG00356744 hypothetical protein
Actinomyces sp. oral taxon 178	VBIActSp170346_1545	Fimbrial subunit type 1 precursor
Actinomyces sp. oral taxon 178	VBIActSp170346_0785	Glutamine synthetase type I EC 6.3.1.2
Actinomyces sp. oral taxon 178	VBIActSp170346_1555	Glutamine synthetase type I EC 6.3.1.2
Actinomyces sp. oral taxon 178	VBIActSp170346_1721	Glycerol-3-phosphate ABC transporter 2C ATP-binding protein UgpC TC 3.A.1.1.3
Actinomyces sp. oral taxon 178	VBIActSp170346_0657	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Actinomyces sp. oral taxon 178	VBIActSp170346_0656	l-arginineglycine amidinotransferase
Actinomyces sp. oral taxon 178	VBIActSp170346_1643	Phosphate regulon transcriptional regulatory protein PhoB SphR
Actinomyces sp. oral taxon 178	VBIActSp170346_1977	Phosphoglucosamine mutase EC 5.4.2.10
Actinomyces sp. oral taxon 178	VBIActSp170346_1854	Potassium efflux system KefA protein Small-conductance mechanosensitive channel
Actinomyces sp. oral taxon 178	VBIActSp170346_1391	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Actinomyces sp. oral taxon 178	VBIActSp170346_1978	Response regulator receiverTranscriptional regulatory protein 2C C- terminal
Actinomyces sp. oral taxon 178	VBIActSp170346_1113	RNA polymerase sigma factor RpoD
Actinomyces sp. oral taxon 178	VBIActSp170346_0404	Superoxide dismutase Mn EC 1.15.1.1
Actinomyces sp. oral taxon 178	VBIActSp170346_1116	Translation elongation factor Tu
Actinomyces sp. oral taxon 178	VBIActSp170346_0029	Transport ATP-binding protein CydD
Actinomyces sp. oral taxon 178	VBIActSp170346_0253	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Actinomyces sp. oral taxon 180	VBIActSp172191_1757	Choline binding protein A
Actinomyces sp. oral taxon 180	VBIActSp172191_1500	Choline binding protein A
Actinomyces sp. oral taxon 180	VBIActSp172191_0721	Choline binding protein A
Actinomyces sp. oral taxon 180	VBIActSp172191_0719	Choline binding protein A
Actinomyces sp. oral taxon 180	VBIActSp172191_0519	Choline binding protein A
Actinomyces sp. oral taxon 180	VBIActSp172191_1480	Choline binding protein A
Actinomyces sp. oral taxon 448	VBIActSp171359_1591	Acetoin dehydrogenase E1 component alpha-subunit EC 1.2.4.- Acetoin dehydrogenase E1 component beta-subunit EC
Actinomyces sp. oral taxon 448	VBIActSp171359_1887	Anthranilate synthase 2C aminase component EC 4.1.3.27
Actinomyces sp. oral taxon 448	VBIActSp171359_0620	Choline binding protein A
Actinomyces sp. oral taxon 448	VBIActSp171359_1336	hypothetical protein
Actinomyces sp. oral taxon 448	VBIActSp171359_1068	Nitrate nitrite transporter
Actinomyces sp. oral taxon 448	VBIActSp171359_1951	Osmosensitive K+ channel histidine kinase KdpD EC 2.7.3.-
Actinomyces sp. oral taxon 448	VBIActSp171359_1940	Two-component system response regulator
Actinomyces sp. oral taxon 849	VBIActSp99412_0588	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Actinomyces sp. oral taxon 849	VBIActSp99412_1812	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily A1 as in PMID19099556
Actinomyces sp. oral taxon 849	VBIActSp99412_1966	Enolase EC 4.2.1.11
Actinomyces sp. oral taxon 849	VBIActSp99412_0586	FIG00355960 hypothetical protein
Actinomyces sp. oral taxon 849	VBIActSp99412_0429	Glutamine synthetase type I EC 6.3.1.2
Actinomyces sp. oral taxon 849	VBIActSp99412_1875	hypothetical protein
Actinomyces sp. oral taxon 849	VBIActSp99412_0192	Lead 2C cadmium 2C zinc and mercury transporting ATPase EC 3.6.3.3B Copper-translocating P-type ATPase EC 3.6.3.
Actinomyces sp. oral taxon 849	VBIActSp99412_2159	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Actinomyces sp. oral taxon 849	VBIActSp99412_0851	RNA polymerase sigma-70 factor
Actinomyces viscosus	VBIActVis96050_1499	2-keto-3-deoxy-D-arabino-heptulosonate-7- phosphate synthase II EC 2.5.1.54
Actinomyces viscosus	VBIActVis96050_0157	ABC transporter 2C ATP-binding permease protein
Actinomyces viscosus	VBIActVis96050_1547	ABC transporter 2C ATP-binding protein
Actinomyces viscosus	VBIActVis96050_1385	ABC transporter 2C ATP-binding protein
Actinomyces viscosus	VBIActVis96050_1797	ABC transporter 2C ATP-binding protein
Actinomyces viscosus	VBIActVis96050_1251	ABC transporter 2C ATP-binding protein
Actinomyces viscosus	VBIActVis96050_0705	ABC transporter 2C ATP-binding protein
Actinomyces viscosus	VBIActVis96050_1329	ABC transporter 2C transmembrane region EC 3.6.3.27
Actinomyces viscosus	VBIActVis96050_1812	ABC transporter ATP-binding protein YvcR
Actinomyces viscosus	VBIActVis96050_0444	ABC transporter transmembrane region
Actinomyces viscosus	VBIActVis96050_0460	ABC-type Fe3+-siderophore transport system 2C ATPase component
Actinomyces viscosus	VBIActVis96050_2252	ABC-type Fe3+-siderophore transport system 2C ATPase component
Actinomyces viscosus	VBIActVis96050_1910	ABC-type Fe3+-siderophore transport system 2C ATPase component
Actinomyces viscosus	VBIActVis96050_1880	ABC-type Fe3+-siderophore transport system 2C permease 2 component
Actinomyces viscosus	VBIActVis96050_2192	ABC-type Fe3+-siderophore transport system 2C permease component
Actinomyces viscosus	VBIActVis96050_1868	ABC-type multidrug transport system 2C ATPase component
Actinomyces viscosus	VBIActVis96050_1766	Alkanesulfonates ABC transporter ATP-binding protein Sulfonate ABC transporter 2C ATP-binding subunit SsuB
Actinomyces viscosus	VBIActVis96050_0363	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Actinomyces viscosus	VBIActVis96050_2271	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Actinomyces viscosus	VBIActVis96050_0449	Aspartate 1-decarboxylase EC 4.1.1.11
Actinomyces viscosus	VBIActVis96050_0159	ATP synthase alpha chain EC 3.6.3.14
Actinomyces viscosus	VBIActVis96050_1271	ATP-binding transport protein Nata

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Actinomyces viscosus	VBIActVis96050_2140	capsular polysaccharide biosynthesis protein
Actinomyces viscosus	VBIActVis96050_2549	capsular polysaccharide biosynthesis protein
Actinomyces viscosus	VBIActVis96050_0198	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Actinomyces viscosus	VBIActVis96050_1063	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Actinomyces viscosus	VBIActVis96050_2150	Cell division trigger factor EC 5.2.1.8
Actinomyces viscosus	VBIActVis96050_2387	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily A1 as in PMID19099556
Actinomyces viscosus	VBIActVis96050_0911	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily A1 as in PMID19099556
Actinomyces viscosus	VBIActVis96050_0100	Choline binding protein A
Actinomyces viscosus	VBIActVis96050_0480	Cna protein B-type domain protein
Actinomyces viscosus	VBIActVis96050_0584	daunorubicin doxorubicin resistance ATP-binding protein DrrA
Actinomyces viscosus	VBIActVis96050_2459	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Actinomyces viscosus	VBIActVis96050_2546	DNA-binding response regulator 2C LuxR family
Actinomyces viscosus	VBIActVis96050_2261	DNA-binding response regulator mtrA
Actinomyces viscosus	VBIActVis96050_2272	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Actinomyces viscosus	VBIActVis96050_0314	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Actinomyces viscosus	VBIActVis96050_2491	Enolase EC 4.2.1.11
Actinomyces viscosus	VBIActVis96050_0468	Ferric enterobactin-binding periplasmic protein FepB TC 3.A.1.14.2
Actinomyces viscosus	VBIActVis96050_0018	FIG00356455 hypothetical protein
Actinomyces viscosus	VBIActVis96050_0210	FIG00544816 hypothetical protein
Actinomyces viscosus	VBIActVis96050_1992	FIG00740262 hypothetical protein
Actinomyces viscosus	VBIActVis96050_0381	fimbrial subunit type 1
Actinomyces viscosus	VBIActVis96050_0180	glutamate ABC superfamily ATP binding cassette transporter 2C ABC protein
Actinomyces viscosus	VBIActVis96050_0473	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Actinomyces viscosus	VBIActVis96050_0174	Glycerol-3-phosphate ABC transporter 2C ATP-binding protein UgpC TC 3.A.1.1.3
Actinomyces viscosus	VBIActVis96050_2511	glycosyltransferase 2C group 2 family protein
Actinomyces viscosus	VBIActVis96050_1811	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Actinomyces viscosus	VBIActVis96050_1594	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Actinomyces viscosus	VBIActVis96050_2512	Iron-dependent repressor IdeR DtxR
Actinomyces viscosus	VBIActVis96050_1731	kinase domain protein
Actinomyces viscosus	VBIActVis96050_0184	l-arginineglycine amidinotransferase
Actinomyces viscosus	VBIActVis96050_1712	l-arginineglycine amidinotransferase
Actinomyces viscosus	VBIActVis96050_0154	Lipid A export ATP-binding permease protein MsbA
Actinomyces viscosus	VBIActVis96050_0315	Lipid A export ATP-binding permease protein MsbA
Actinomyces viscosus	VBIActVis96050_2422	Menaquinone-specific isochorismate synthase EC 5.4.4.2
Actinomyces viscosus	VBIActVis96050_1875	Methionine ABC transporter ATP-binding protein
Actinomyces viscosus	VBIActVis96050_1656	mutacin ABC transporter 2C ATP-binding protein MutF
Actinomyces viscosus	VBIActVis96050_0185	NAD-dependent glycerolaldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Actinomyces viscosus	VBIActVis96050_0273	Nitrate nitrite transporter
Actinomyces viscosus	VBIActVis96050_1286	Nucleoside 5-triphosphatase RdgB dHAPTP 2C dITP 2C XTP-specific EC 3.6.1.15
Actinomyces viscosus	VBIActVis96050_1693	Ornithine carbamoyltransferase EC 2.1.3.3
Actinomyces viscosus	VBIActVis96050_2481	Osmosensitive K ⁺ channel histidine kinase KdpD EC 2.7.3.-
Actinomyces viscosus	VBIActVis96050_2529	periplasmic-binding protein
Actinomyces viscosus	VBIActVis96050_0406	Phosphate regulon transcriptional regulatory protein PhoB SphR
Actinomyces viscosus	VBIActVis96050_0425	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Actinomyces viscosus	VBIActVis96050_2260	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Actinomyces viscosus	VBIActVis96050_1947	Protein serine threonine phosphatase PrpC 2C regulation of stationary phase
Actinomyces viscosus	VBIActVis96050_2026	putative ABC transporter ATP-binding protein
Actinomyces viscosus	VBIActVis96050_0390	putative two-component system response regulator
Actinomyces viscosus	VBIActVis96050_2044	putative two-component system response regulator
Actinomyces viscosus	VBIActVis96050_2461	putative two-component system response regulator
Actinomyces viscosus	VBIActVis96050_2005	putative two-component system response regulator
Actinomyces viscosus	VBIActVis96050_0287	putative two-component system response regulator
Actinomyces viscosus	VBIActVis96050_1314	putative two-component system sensor kinase
Actinomyces viscosus	VBIActVis96050_0882	regulatory protein 2C LuxRResponse regulator receiver
Actinomyces viscosus	VBIActVis96050_0233	Respiratory nitrate reductase beta chain EC 1.7.99.4
Actinomyces viscosus	VBIActVis96050_0587	response regulator receiver domain protein
Actinomyces viscosus	VBIActVis96050_2606	Response regulator receiverTranscriptional regulatory protein 2C C- terminal
Actinomyces viscosus	VBIActVis96050_2189	RNA polymerase sigma-70 factor
Actinomyces viscosus	VBIActVis96050_1913	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Actinomyces viscosus	VBIActVis96050_0545	Sortase A 2C LPXTG specific
Actinomyces viscosus	VBIActVis96050_0384	Sortase A 2C LPXTG specific
Actinomyces viscosus	VBIActVis96050_2270	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Actinomyces viscosus	VBIActVis96050_0912	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Actinomyces viscosus	VBIActVis96050_0479	Translation elongation factor Tu
Actinomyces viscosus	VBIActVis96050_1870	transposase
Actinomyces viscosus	VBIActVis96050_1290	two component transcriptional regulator 2C LuxR family
Actinomyces viscosus	VBIActVis96050_2513	Two-component response regulator
Actinomyces viscosus	VBIActVis96050_2115	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
Actinomyces viscosus	VBIActVis96050_2105	UDP-glucose dehydrogenase EC 1.1.1.22
Actinomyces viscosus	VBIActVis96050_0087	UDP-N-acetyl-D-mannosaminuronic acid dehydrogenase
Actinomyces viscosus	VBIActVis96050_0209	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Actinomyces viscosus	VBIActVis96050_1401	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Actinomyces viscosus	VBIActVis96050_2508	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Actinomyces viscosus	VBIActVis96050_0177	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Actinomyces viscosus	VBIActVis96050_0903	Urease alpha subunit EC 3.5.1.5
Actinomyces viscosus	VBIActVis96050_0908	Urease gamma subunit EC 3.5.1.5
Actinomyces viscosus	VBIActVis96050_1404	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Afipia sp.	VBIActSp150213_0590	transport system permease protein
A. actinomycetemcomitans	VBIActAgg152222_1249	2-keto-3-deoxy-D-arabino-heptulosonate-7- phosphate synthase II EC 2.5.1.54

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A. actinomycetemcomitans	VBIAggAct152222_1403	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
A. actinomycetemcomitans	VBIAggAct169787_1856	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
A. actinomycetemcomitans	VBIAggAct174527_0626	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
A. actinomycetemcomitans	VBIAggAct170116_0910	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
A. actinomycetemcomitans	VBIAggAct174830_0025	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
A. actinomycetemcomitans	VBIAggAct174527_0146	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
A. actinomycetemcomitans	VBIAggAct152222_0575	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
A. actinomycetemcomitans	VBIAggAct174527_0467	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
A. actinomycetemcomitans	VBIAggAct152489_1258	ABC transporter
A. actinomycetemcomitans	VBIAggAct169852_1379	ABC transporter 2C ATP-binding protein
A. actinomycetemcomitans	VBIAggAct172131_0727	ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct152222_0803	ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct139153_0712	ABC transporter ATP-binding protein YvcR
A. actinomycetemcomitans	VBIAggAct139153_0203	ABC-type Fe3+-siderophore transport system 2C ATPase component
A. actinomycetemcomitans	VBIAggAct151347_0580	ABC-type Fe3+-siderophore transport system 2C ATPase component
A. actinomycetemcomitans	VBIAggAct152222_2134	ABC-type Fe3+-siderophore transport system 2C ATPase component
A. actinomycetemcomitans	VBIAggAct152222_1970	ABC-type Fe3+-siderophore transport system 2C permease 2 component
A. actinomycetemcomitans	VBIAggAct139153_0674	ABC-type multidrug transport system 2C ATPase component
A. actinomycetemcomitans	VBIAggAct139153_1656	ABC-type multidrug transport system 2C ATPase component
A. actinomycetemcomitans	VBIAggAct169852_2203	ABC-type polar amino acid transport system 2C ATPase component
A. actinomycetemcomitans	VBIAggAct174274_0805	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
A. actinomycetemcomitans	VBIAggAct174527_0834	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
A. actinomycetemcomitans	VBIAggAct169787_1807	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
A. actinomycetemcomitans	VBIAggAct174527_0397	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
A. actinomycetemcomitans	VBIAggAct174527_0450	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
A. actinomycetemcomitans	VBIAggAct170116_1048	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
A. actinomycetemcomitans	VBIAggAct174830_0594	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
A. actinomycetemcomitans	VBIAggAct174830_1711	Aerobic respiration control protein arcA
A. actinomycetemcomitans	VBIAggAct174527_0152	Aerobic respiration control protein arcA
A. actinomycetemcomitans	VBIAggAct172131_0466	Aerobic respiration control protein arcA
A. actinomycetemcomitans	VBIAggAct174830_0271	Aerobic respiration control sensor protein arcB EC 2.7.3.-
A. actinomycetemcomitans	VBIAggAct170116_0292	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L- rhamnosyltransferase EC 2.4.1.-
A. actinomycetemcomitans	VBIAggAct152222_1396	Anthranilate phosphoribosyltransferase EC 2.4.2.18
A. actinomycetemcomitans	VBIAggAct172131_1385	Arginine ABC transporter 2C ATP-binding protein ArtP
A. actinomycetemcomitans	VBIAggAct169852_2480	Arginine ABC transporter 2C ATP-binding protein ArtP
A. actinomycetemcomitans	VBIAggAct174527_1768	Arginine ABC transporter 2C ATP-binding protein ArtP
A. actinomycetemcomitans	VBIAggAct170116_2108	Arginine ABC transporter 2C ATP-binding protein ArtP
A. actinomycetemcomitans	VBIAggAct174830_0821	Arginine ABC transporter 2C ATP-binding protein ArtP
A. actinomycetemcomitans	VBIAggAct174274_2123	Arginine ABC transporter 2C ATP-binding protein ArtP
A. actinomycetemcomitans	VBIAggAct172131_1649	Arginine ABC transporter 2C permease protein ArtQ
A. actinomycetemcomitans	VBIAggAct152222_1824	Aspartate 1-decarboxylase EC 4.1.1.11
A. actinomycetemcomitans	VBIAggAct152489_0513	ATP synthase beta chain EC 3.6.3.14
A. actinomycetemcomitans	VBIAggAct158134_0107	ATP synthase beta chain EC 3.6.3.14
A. actinomycetemcomitans	VBIAggAct170116_2286	ATP synthase beta chain EC 3.6.3.14
A. actinomycetemcomitans	VBIAggAct152222_1474	ATP-binding transport protein Nata
A. actinomycetemcomitans	VBIAggAct170116_2514	ATPase provides energy for both assembly of type IV secretion complex and secretion of T-DNA complex VirB4
A. actinomycetemcomitans	VBIAggAct169852_1603	ATPase provides energy for both assembly of type IV secretion complex and secretion of T-DNA complex VirB4
A. actinomycetemcomitans	VBIAggAct174274_1504	Biofilm PGA synthesis N-glycosyltransferase PgaC EC 2.4.-.-
A. actinomycetemcomitans	VBIAggAct169852_1682	Bores hole in peptidoglycan layer allowing type IV secretion complex assembly to occur VirB1
A. actinomycetemcomitans	VBIAggAct139153_1471	capsular polysaccharide biosynthesis protein
A. actinomycetemcomitans	VBIAggAct139153_1920	Cell division trigger factor EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct172873_0853	Cell division trigger factor EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct169852_0983	Cell division trigger factor EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct172131_0169	Cell division trigger factor EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct172131_0475	Cell envelope opacity-associated protein A
A. actinomycetemcomitans	VBIAggAct151347_1140	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily A1 as in PMID19099556
A. actinomycetemcomitans	VBIAggAct152222_1608	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily A1 as in PMID19099556
A. actinomycetemcomitans	VBIAggAct170116_1823	ClpB protein
A. actinomycetemcomitans	VBIAggAct169787_1552	ClpB protein
A. actinomycetemcomitans	VBIAggAct172873_1815	ClpB protein
A. actinomycetemcomitans	VBIAggAct169787_2033	ClpB protein
A. actinomycetemcomitans	VBIAggAct174830_2006	ClpB protein
A. actinomycetemcomitans	VBIAggAct169852_1566	ClpB protein
A. actinomycetemcomitans	VBIAggAct170116_1825	ClpB protein
A. actinomycetemcomitans	VBIAggAct172131_0565	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
A. actinomycetemcomitans	VBIAggAct174830_2124	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
A. actinomycetemcomitans	VBIAggAct170116_0221	Coupling protein VirD4 2C ATPase required for T-DNA transfer
A. actinomycetemcomitans	VBIAggAct170116_0539	Cytochrome c heme lyase subunit CcmF
A. actinomycetemcomitans	VBIAggAct172873_0454	Cytochrome c-type heme lyase subunit nrfE 2C nitrite reductase complex assembly
A. actinomycetemcomitans	VBIAggAct174830_1728	Cytochrome c-type heme lyase subunit nrfE 2C nitrite reductase complex assembly
A. actinomycetemcomitans	VBIAggAct169852_0916	Cytochrome c-type heme lyase subunit nrfE 2C nitrite reductase complex assembly
A. actinomycetemcomitans	VBIAggAct169852_0620	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
A. actinomycetemcomitans	VBIAggAct152222_2139	daunorubicin resistance ABC transporter ATP-binding subunit
A. actinomycetemcomitans	VBIAggAct174830_1442	Dca
A. actinomycetemcomitans	VBIAggAct169787_0275	Dca
A. actinomycetemcomitans	VBIAggAct174830_2142	Diaminopimelate decarboxylase EC 4.1.1.20
A. actinomycetemcomitans	VBIAggAct151347_1281	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
A. actinomycetemcomitans	VBIAggAct152222_1397	DNA-binding heavy metal response regulator
A. actinomycetemcomitans	VBIAggAct152489_0360	DNA-binding response regulator 2C LuxR family

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A. actinomycetemcomitans	VBIAggAct151347_1282	DNA-binding response regulator 2C LuxR family
A. actinomycetemcomitans	VBIAggAct152222_0059	DNA-binding response regulator 2C LuxR family
A. actinomycetemcomitans	VBIAggAct151347_0781	DNA-binding response regulator mtrA
A. actinomycetemcomitans	VBIAggAct170116_0322	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
A. actinomycetemcomitans	VBIAggAct151347_0791	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13 dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
A. actinomycetemcomitans	VBIAggAct174274_1169	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
A. actinomycetemcomitans	VBIAggAct151347_0836	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct174274_1429	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct139153_0299	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct158134_1786	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct172131_1755	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct158134_1877	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct170116_0433	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct174830_0820	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
A. actinomycetemcomitans	VBIAggAct169852_2046	Enolase EC 4.2.1.11
A. actinomycetemcomitans	VBIAggAct152222_2136	Ferric enterobactin-binding periplasmic protein FepB TC 3.A.1.14.2
A. actinomycetemcomitans	VBIAggAct152222_0193	Ferrisiderophore receptor Irp6A
A. actinomycetemcomitans	VBIAggAct139153_0950	FIG00740262 hypothetical protein
A. actinomycetemcomitans	VBIAggAct174527_0627	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
A. actinomycetemcomitans	VBIAggAct151347_1527	Fimbrial subunit type 1 precursor
A. actinomycetemcomitans	VBIAggAct174527_0111	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct169852_2095	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct172131_1376	Flp pilus assembly protein RcpC CpaB
A. actinomycetemcomitans	VBIAggAct174274_0314	Flp pilus assembly protein RcpC CpaB
A. actinomycetemcomitans	VBIAggAct172131_1233	Flp pilus assembly protein TadB
A. actinomycetemcomitans	VBIAggAct169852_2692	Flp pilus assembly protein TadB
A. actinomycetemcomitans	VBIAggAct174830_0957	Flp pilus assembly protein TadB
A. actinomycetemcomitans	VBIAggAct172131_0168	Flp pilus assembly protein TadB
A. actinomycetemcomitans	VBIAggAct169787_2183	Flp pilus assembly protein TadB
A. actinomycetemcomitans	VBIAggAct174274_0294	Flp pilus assembly protein TadD 2C contains TPR repeat
A. actinomycetemcomitans	VBIAggAct158134_1041	Gamma-glutamyltranspeptidase EC 2.3.2.2
A. actinomycetemcomitans	VBIAggAct151347_1192	GlcNAc phosphomutase EC 5.4.2.3
A. actinomycetemcomitans	VBIAggAct139153_0232	Glucose-6-phosphate isomerase EC 5.3.1.9
A. actinomycetemcomitans	VBIAggAct172131_1686	Glutamine synthetase type I EC 6.3.1.2
A. actinomycetemcomitans	VBIAggAct158134_1045	Glutamine synthetase type I EC 6.3.1.2
A. actinomycetemcomitans	VBIAggAct152222_0577	Glutamine synthetase type I EC 6.3.1.2
A. actinomycetemcomitans	VBIAggAct174527_0364	Glutamine synthetase type I EC 6.3.1.2
A. actinomycetemcomitans	VBIAggAct174274_0518	Glutamine synthetase type I EC 6.3.1.2
A. actinomycetemcomitans	VBIAggAct169787_1332	Glycerol-3-phosphate transporter
A. actinomycetemcomitans	VBIAggAct139153_1590	glycosyltransferase
A. actinomycetemcomitans	VBIAggAct174274_0664	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
A. actinomycetemcomitans	VBIAggAct170116_1092	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrola
A. actinomycetemcomitans	VBIAggAct174274_1565	Heat shock protein 60 family chaperone GroEL
A. actinomycetemcomitans	VBIAggAct174830_0717	Heat shock protein 60 family chaperone GroEL
A. actinomycetemcomitans	VBIAggAct170116_0965	Heat shock protein 60 family chaperone GroEL
A. actinomycetemcomitans	VBIAggAct172131_0865	Heat shock protein 60 family chaperone GroEL
A. actinomycetemcomitans	VBIAggAct169852_1461	Hemolysins and related proteins containing CBS domains
A. actinomycetemcomitans	VBIAggAct174830_0310	Homolog of E. coli HemY protein
A. actinomycetemcomitans	VBIAggAct169787_1803	Homolog of E. coli HemY protein
A. actinomycetemcomitans	VBIAggAct152222_1485	hypothetical protein
A. actinomycetemcomitans	VBIAggAct152489_0379	hypothetical protein
A. actinomycetemcomitans	VBIAggAct151347_0263	hypothetical protein
A. actinomycetemcomitans	VBIAggAct152222_0900	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
A. actinomycetemcomitans	VBIAggAct170116_0226	Inner membrane protein forms channel for type IV secretion of T-DNA complex VirB10
A. actinomycetemcomitans	VBIAggAct170116_2288	Inner membrane protein forms channel for type IV secretion of T-DNA complex VirB10
A. actinomycetemcomitans	VBIAggAct174274_0962	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
A. actinomycetemcomitans	VBIAggAct174274_0389	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
A. actinomycetemcomitans	VBIAggAct174274_0806	Iron (III) dicitrate transport system permease protein FecC TC 3.A.1.14.1
A. actinomycetemcomitans	VBIAggAct158134_1040	Iron compound ABC uptake transporter substrate-binding protein PiuA
A. actinomycetemcomitans	VBIAggAct169787_0465	Lipid A biosynthesis KDO 2-lauroyl-lipid IVA acyltransferase EC 2.3.1.-
A. actinomycetemcomitans	VBIAggAct174830_1166	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
A. actinomycetemcomitans	VBIAggAct174527_0187	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
A. actinomycetemcomitans	VBIAggAct172131_0016	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
A. actinomycetemcomitans	VBIAggAct174527_0917	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
A. actinomycetemcomitans	VBIAggAct174527_0576	Lipid-A-disaccharide synthase EC 2.4.1.182
A. actinomycetemcomitans	VBIAggAct174830_1663	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
A. actinomycetemcomitans	VBIAggAct174527_1694	Lipoprotein releasing system ATP-binding protein LolD
A. actinomycetemcomitans	VBIAggAct139153_0711	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
A. actinomycetemcomitans	VBIAggAct152222_0278	Macrolide export ATP-binding permease protein MacB EC 3.6.3.-
A. actinomycetemcomitans	VBIAggAct169852_0568	Magnesium and cobalt efflux protein CorC
A. actinomycetemcomitans	VBIAggAct169852_2213	Magnesium and cobalt efflux protein CorC
A. actinomycetemcomitans	VBIAggAct170116_0915	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
A. actinomycetemcomitans	VBIAggAct169852_1045	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
A. actinomycetemcomitans	VBIAggAct158134_1007	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
A. actinomycetemcomitans	VBIAggAct174274_0100	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
A. actinomycetemcomitans	VBIAggAct174527_0173	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
A. actinomycetemcomitans	VBIAggAct174830_1937	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
A. actinomycetemcomitans	VBIAggAct170116_0631	Manganese superoxide dismutase EC 1.15.1.1
A. actinomycetemcomitans	VBIAggAct174830_0796	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22

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A. actinomycetemcomitans	VBIAggAct169852_1802	Mannose-6-phosphate isomerase EC 5.3.1.8
A. actinomycetemcomitans	VBIAggAct174830_2148	Mannose-6-phosphate isomerase EC 5.3.1.8
A. actinomycetemcomitans	VBIAggAct158134_2166	Menaquinone-specific isochorismate synthase EC 5.4.4.2
A. actinomycetemcomitans	VBIAggAct170116_0778	Menaquinone-specific isochorismate synthase EC 5.4.4.2
A. actinomycetemcomitans	VBIAggAct174527_1552	Menaquinone-specific isochorismate synthase EC 5.4.4.2
A. actinomycetemcomitans	VBIAggAct169852_1567	Methionine ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct151347_1034	N-acetylglucosamine-1-phosphate uridylyltransferase EC 2.7.7.23
A. actinomycetemcomitans	VBIAggAct174274_0544	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
A. actinomycetemcomitans	VBIAggAct169852_0756	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
A. actinomycetemcomitans	VBIAggAct152222_1459	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
A. actinomycetemcomitans	VBIAggAct152222_0895	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
A. actinomycetemcomitans	VBIAggAct158134_1054	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
A. actinomycetemcomitans	VBIAggAct169787_1143	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
A. actinomycetemcomitans	VBIAggAct172131_1929	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
A. actinomycetemcomitans	VBIAggAct151347_1213	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
A. actinomycetemcomitans	VBIAggAct152222_0742	Ornithine carbamoyltransferase EC 2.1.3.3
A. actinomycetemcomitans	VBIAggAct174527_1343	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct174527_1197	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct170116_0291	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct174830_1075	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct172873_1734	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct170116_1563	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct158134_1056	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct172131_1734	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct169787_0683	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct169787_0701	Outer membrane protein A precursor
A. actinomycetemcomitans	VBIAggAct170116_2409	Outer membrane protein assembly factor YaeT precursor
A. actinomycetemcomitans	VBIAggAct169787_1709	Outer membrane protein assembly factor YaeT precursor
A. actinomycetemcomitans	VBIAggAct170116_1421	Outer membrane protein assembly factor YaeT precursor
A. actinomycetemcomitans	VBIAggAct152489_2384	Outer membrane protein assembly factor YaeT precursor
A. actinomycetemcomitans	VBIAggAct174274_0045	Outer membrane protein assembly factor YaeT precursor
A. actinomycetemcomitans	VBIAggAct174274_1067	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
A. actinomycetemcomitans	VBIAggAct169852_1815	Outer membrane receptor proteins 2C mostly Fe transport
A. actinomycetemcomitans	VBIAggAct152222_1810	Pantoate--beta-alanine ligase EC 6.3.2.1
A. actinomycetemcomitans	VBIAggAct170116_0278	Peptidoglycan hydrolase VirB1 2C involved in T-DNA transfer
A. actinomycetemcomitans	VBIAggAct170116_0850	Peptidyl-prolyl cis-trans isomerase ppiB EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct174527_0723	Peptidyl-prolyl cis-trans isomerase ppiB EC 5.2.1.8
A. actinomycetemcomitans	VBIAggAct151347_1283	Phosphate regulon transcriptional regulatory protein PhoB SphR
A. actinomycetemcomitans	VBIAggAct151347_1285	Phosphate regulon transcriptional regulatory protein PhoB SphR
A. actinomycetemcomitans	VBIAggAct169852_1042	Phosphoglucosamine mutase EC 5.4.2.10
A. actinomycetemcomitans	VBIAggAct174274_2127	Phosphoglucosamine mutase EC 5.4.2.10
A. actinomycetemcomitans	VBIAggAct174274_2122	Phosphoheptose isomerase 1 EC 5.3.1.-
A. actinomycetemcomitans	VBIAggAct174274_0330	Phosphoheptose isomerase 1 EC 5.3.1.-
A. actinomycetemcomitans	VBIAggAct169852_2007	Phosphomannomutase EC 5.4.2.8
A. actinomycetemcomitans	VBIAggAct158134_0278	Phosphomannomutase EC 5.4.2.8
A. actinomycetemcomitans	VBIAggAct174274_1577	Phosphomannomutase EC 5.4.2.8
A. actinomycetemcomitans	VBIAggAct152489_1692	Phosphomannomutase EC 5.4.2.8
A. actinomycetemcomitans	VBIAggAct152222_0121	polyamine ABC transporter 2C ATP-binding protein EC3.6.3.31
A. actinomycetemcomitans	VBIAggAct139153_1397	Polysaccharide biosynthesis protein CpsMV
A. actinomycetemcomitans	VBIAggAct172131_2124	Porphobilinogen deaminase EC 2.5.1.61
A. actinomycetemcomitans	VBIAggAct169852_1450	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
A. actinomycetemcomitans	VBIAggAct174527_0373	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
A. actinomycetemcomitans	VBIAggAct174274_1068	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
A. actinomycetemcomitans	VBIAggAct172131_0465	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
A. actinomycetemcomitans	VBIAggAct172131_0889	Protoporphyrinogen IX oxidase 2C oxygen-independent 2C HemG EC 1.3.-.-
A. actinomycetemcomitans	VBIAggAct169787_0637	Purine nucleotide synthesis repressor
A. actinomycetemcomitans	VBIAggAct174527_0170	Purine nucleotide synthesis repressor
A. actinomycetemcomitans	VBIAggAct152222_1625	putative ABC transporter
A. actinomycetemcomitans	VBIAggAct152222_1712	putative ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct151347_2157	putative ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct139153_0278	putative ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct139153_1070	putative ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct152222_1335	putative ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct152222_1624	putative ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct152222_0796	putative ABC transporter ATP-binding protein
A. actinomycetemcomitans	VBIAggAct152222_1034	putative iron ABC transporter 2C ATP-binding protein
A. actinomycetemcomitans	VBIAggAct152222_1141	Putative iron transport permease
A. actinomycetemcomitans	VBIAggAct139153_1417	Putative N-acetylgalactosaminyldiphosphoundecaprenol glucuronosyltransferase
A. actinomycetemcomitans	VBIAggAct151347_0268	Putative transport system 2C ATP-binding protein
A. actinomycetemcomitans	VBIAggAct151347_1573	putative two-component system response regulator
A. actinomycetemcomitans	VBIAggAct139153_1064	putative two-component system response regulator
A. actinomycetemcomitans	VBIAggAct151347_1378	putative two-component system response regulator
A. actinomycetemcomitans	VBIAggAct139153_0654	putative two-component system response regulator
A. actinomycetemcomitans	VBIAggAct170116_0436	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
A. actinomycetemcomitans	VBIAggAct158134_2001	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
A. actinomycetemcomitans	VBIAggAct174527_1308	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
A. actinomycetemcomitans	VBIAggAct174830_0728	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
A. actinomycetemcomitans	VBIAggAct174527_0025	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
A. actinomycetemcomitans	VBIAggAct174527_1156	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5

Table S8

A. actinomycetemcomitans	VBIAggAct139153_1605	Pyrroline-5-carboxylate reductase EC 1.5.1.2
A. actinomycetemcomitans	VBIAggAct152489_0380	regulatory protein 2C LuxRResponse regulator receiver
A. actinomycetemcomitans	VBIAggAct151347_0374	Respiratory nitrate reductase alpha chain EC 1.7.99.4
A. actinomycetemcomitans	VBIAggAct139153_0611	Respiratory nitrate reductase alpha chain EC 1.7.99.4
A. actinomycetemcomitans	VBIAggAct151347_0413	Respiratory nitrate reductase gamma chain EC 1.7.99.4
A. actinomycetemcomitans	VBIAggAct152222_0525	RNA binding methyltransferase FtsJ like
A. actinomycetemcomitans	VBIAggAct152222_1246	RNA polymerase sigma factor RpoD
A. actinomycetemcomitans	VBIAggAct152222_1154	RNA polymerase sigma factor RpoD
A. actinomycetemcomitans	VBIAggAct152222_1155	RNA polymerase sigma factor RpoD
A. actinomycetemcomitans	VBIAggAct152489_1815	RNA polymerase sigma factor RpoD
A. actinomycetemcomitans	VBIAggAct172131_0171	RNA polymerase sigma factor RpoE
A. actinomycetemcomitans	VBIAggAct174274_0519	RNA polymerase sigma factor RpoE
A. actinomycetemcomitans	VBIAggAct174830_0479	RNA polymerase sigma factor RpoE
A. actinomycetemcomitans	VBIAggAct174830_1367	RNA polymerase sigma factor RpoE
A. actinomycetemcomitans	VBIAggAct169787_1498	RNA polymerase sigma factor RpoE
A. actinomycetemcomitans	VBIAggAct174830_0535	RNA polymerase sigma factor RpoE
A. actinomycetemcomitans	VBIAggAct174830_1247	RNA polymerase sigma factor RpoH
A. actinomycetemcomitans	VBIAggAct172131_2102	RNA polymerase sigma factor RpoH
A. actinomycetemcomitans	VBIAggAct174527_0383	RNA polymerase sigma factor RpoH
A. actinomycetemcomitans	VBIAggAct151347_0342	RNA polymerase sigma-70 factor
A. actinomycetemcomitans	VBIAggAct174274_1041	RTX toxins determinant A and related Ca2+-binding proteins
A. actinomycetemcomitans	VBIAggAct151347_1789	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
A. actinomycetemcomitans	VBIAggAct151347_1742	Serine threonine-protein kinase PknA EC 2.7.11.1
A. actinomycetemcomitans	VBIAggAct152222_0688	serine-threonine protein kinase
A. actinomycetemcomitans	VBIAggAct151347_0734	Sialidase EC 3.2.1.18
A. actinomycetemcomitans	VBIAggAct151347_1456	Sortase A 2C LPXTG specific
A. actinomycetemcomitans	VBIAggAct152489_2048	Sulfate adenyltransferase subunit 1 EC 2.7.7.4 Adenylsulfate kinase EC 2.7.1.25
A. actinomycetemcomitans	VBIAggAct170116_0320	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
A. actinomycetemcomitans	VBIAggAct174274_1130	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
A. actinomycetemcomitans	VBIAggAct151347_0808	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
A. actinomycetemcomitans	VBIAggAct152222_1497	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
A. actinomycetemcomitans	VBIAggAct174274_0094	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
A. actinomycetemcomitans	VBIAggAct158134_1044	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
A. actinomycetemcomitans	VBIAggAct174527_0176	thiamine-phosphate pyrophosphorylase EC2.5.1.3
A. actinomycetemcomitans	VBIAggAct169852_1048	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
A. actinomycetemcomitans	VBIAggAct174527_1498	Transcriptional repressor protein TyrR
A. actinomycetemcomitans	VBIAggAct152489_2213	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct174830_1164	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct174527_0174	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct158134_0607	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct174527_1712	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct170116_1029	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct174274_0246	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct172131_0451	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct169787_1800	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct172131_0990	Translation elongation factor Tu
A. actinomycetemcomitans	VBIAggAct172131_1888	transport associated protein 10
A. actinomycetemcomitans	VBIAggAct174274_0530	Transport ATP-binding protein CydC
A. actinomycetemcomitans	VBIAggAct172131_0756	Transport ATP-binding protein CydD
A. actinomycetemcomitans	VBIAggAct170116_2287	Transport ATP-binding protein CydD
A. actinomycetemcomitans	VBIAggAct139153_1898	Transport ATP-binding protein CydD
A. actinomycetemcomitans	VBIAggAct158134_0059	Transport ATP-binding protein CydD
A. actinomycetemcomitans	VBIAggAct151347_0149	two component system response regulator
A. actinomycetemcomitans	VBIAggAct152222_1400	two component transcriptional regulator 2C LuxR family
A. actinomycetemcomitans	VBIAggAct152489_0435	two component transcriptional regulator 2C LuxR family
A. actinomycetemcomitans	VBIAggAct152222_0216	Two-component response regulator
A. actinomycetemcomitans	VBIAggAct151347_2021	two-component response regulator
A. actinomycetemcomitans	VBIAggAct158134_0759	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct174830_0365	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct169852_0153	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct174830_0893	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct169852_2596	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct174274_0312	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct172131_1270	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct174830_0422	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
A. actinomycetemcomitans	VBIAggAct169852_0276	Type II IV secretion system ATPase TadZ CpaE 2C associated with Flp pilus assembly
A. actinomycetemcomitans	VBIAggAct158134_0772	Type II IV secretion system ATPase TadZ CpaE 2C associated with Flp pilus assembly
A. actinomycetemcomitans	VBIAggAct169852_0279	Type II IV secretion system secretin RcpA CpaC 2C associated with Flp pilus assembly
A. actinomycetemcomitans	VBIAggAct172131_1314	Type II IV secretion system secretin RcpA CpaC 2C associated with Flp pilus assembly
A. actinomycetemcomitans	VBIAggAct174274_0313	Type II IV secretion system secretin RcpA CpaC 2C associated with Flp pilus assembly
A. actinomycetemcomitans	VBIAggAct172131_2031	Type IV fimbrial assembly 2C ATPase PilB
A. actinomycetemcomitans	VBIAggAct169852_0622	Type IV pilin PilA
A. actinomycetemcomitans	VBIAggAct169787_0435	Type IV pilin PilA
A. actinomycetemcomitans	VBIAggAct170116_1329	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
A. actinomycetemcomitans	VBIAggAct174830_1635	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
A. actinomycetemcomitans	VBIAggAct139153_1949	UDP-galactose-lipid carrier transferase EC 2.-.-.-
A. actinomycetemcomitans	VBIAggAct169787_0857	UDP-glucose 4-epimerase EC 5.1.3.2
A. actinomycetemcomitans	VBIAggAct174527_0670	UDP-glucose 4-epimerase EC 5.1.3.2
A. actinomycetemcomitans	VBIAggAct170116_2285	UDP-glucose 4-epimerase EC 5.1.3.2

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A. actinomycetemcomitans	VBIAggAct151347_1154	UDP-glucose 4-epimerase EC 5.1.3.2
A. actinomycetemcomitans	VBIAggAct139153_1147	UDP-glucose dehydrogenase EC 1.1.1.22
A. actinomycetemcomitans	VBIAggAct151347_0856	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
A. actinomycetemcomitans	VBIAggAct170116_1534	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
A. actinomycetemcomitans	VBIAggAct152222_1257	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
A. actinomycetemcomitans	VBIAggAct169787_1815	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
A. actinomycetemcomitans	VBIAggAct174830_0801	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
A. actinomycetemcomitans	VBIAggAct152489_0602	Urease accessory protein UreG
A. actinomycetemcomitans	VBIAggAct152489_0626	Urease alpha subunit EC 3.5.1.5
A. actinomycetemcomitans	VBIAggAct152489_0805	Urease beta subunit EC 3.5.1.5
A. actinomycetemcomitans	VBIAggAct152489_0904	Urease gamma subunit EC 3.5.1.5
A. actinomycetemcomitans	VBIAggAct158134_0606	Uroporphyrinogen-III methyltransferase EC 2.1.1.107
A. actinomycetemcomitans	VBIAggAct174274_2259	VgrG protein
A. actinomycetemcomitans	VBIAggAct172873_1477	VgrG protein
A. actinomycetemcomitans	VBIAggAct174527_1350	VgrG protein
A. actinomycetemcomitans	VBIAggAct174527_0027	VgrG protein
A. actinomycetemcomitans	VBIAggAct169787_0625	VgrG protein
A. actinomycetemcomitans	VBIAggAct169787_1806	VgrG protein
A. actinomycetemcomitans	VBIAggAct152489_1611	Zinc ABC transporter 2C ATP-binding protein ZnuC
Aggregatibacter aphrophilus	VBIAggAph86045_0377	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Aggregatibacter aphrophilus	VBIAggAph86045_1326	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Aggregatibacter aphrophilus	VBIAggAph86045_2106	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Aggregatibacter aphrophilus	VBIAggAph86045_1696	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
Aggregatibacter aphrophilus	VBIAggAph86045_1495	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Aggregatibacter aphrophilus	VBIAggAph86045_0595	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Aggregatibacter aphrophilus	VBIAggAph86045_1903	ABC-type polar amino acid transport system 2C ATPase component
Aggregatibacter aphrophilus	VBIAggAph86045_0523	Aerobic respiration control protein arcA
Aggregatibacter aphrophilus	VBIAggAph86045_1535	Aerobic respiration control protein arcA
Aggregatibacter aphrophilus	VBIAggAph86045_2174	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Aggregatibacter aphrophilus	VBIAggAph86045_0492	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Aggregatibacter aphrophilus	VBIAggAph86045_0195	Arginine ABC transporter 2C ATP-binding protein ArtP
Aggregatibacter aphrophilus	VBIAggAph86045_1141	Arginine ABC transporter 2C ATP-binding protein ArtP
Aggregatibacter aphrophilus	VBIAggAph86045_0145	ATP synthase alpha chain EC 3.6.3.14
Aggregatibacter aphrophilus	VBIAggAph86045_0026	ATP synthase alpha chain EC 3.6.3.14
Aggregatibacter aphrophilus	VBIAggAph86045_1579	ATP synthase alpha chain EC 3.6.3.14
Aggregatibacter aphrophilus	VBIAggAph86045_0580	ATP synthase alpha chain EC 3.6.3.14
Aggregatibacter aphrophilus	VBIAggAph86045_1958	ATP synthase alpha chain EC 3.6.3.14
Aggregatibacter aphrophilus	VBIAggAph86045_1988	ATP synthase beta chain EC 3.6.3.14
Aggregatibacter aphrophilus	VBIAggAph86045_0907	ATPase provides energy for both assembly of type IV secretion complex and secretion of T-DNA complex VirB4
Aggregatibacter aphrophilus	VBIAggAph86045_0746	CipB protein
Aggregatibacter aphrophilus	VBIAggAph86045_1908	CipB protein
Aggregatibacter aphrophilus	VBIAggAph86045_1706	Copper-sensing two-component system response regulator CpxR
Aggregatibacter aphrophilus	VBIAggAph86045_0994	Coupling protein VirD4 2C ATPase required for T-DNA transfer
Aggregatibacter aphrophilus	VBIAggAph86045_1646	Cytochrome c heme lyase subunit CcmF
Aggregatibacter aphrophilus	VBIAggAph86045_0572	Cytochrome c heme lyase subunit CcmF
Aggregatibacter aphrophilus	VBIAggAph86045_0169	Cytochrome c heme lyase subunit CcmF
Aggregatibacter aphrophilus	VBIAggAph86045_1529	Cytochrome c-type biogenesis protein CcmC 2C putative heme lyase for CcmE
Aggregatibacter aphrophilus	VBIAggAph86045_1496	Dca
Aggregatibacter aphrophilus	VBIAggAph86045_0295	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Aggregatibacter aphrophilus	VBIAggAph86045_1530	Enolase EC 4.2.1.11
Aggregatibacter aphrophilus	VBIAggAph86045_0029	Enolase EC 4.2.1.11
Aggregatibacter aphrophilus	VBIAggAph86045_1494	ferric ABC transporter ATP-binding protein
Aggregatibacter aphrophilus	VBIAggAph86045_2215	Ferric iron ABC transporter 2C ATP-binding protein
Aggregatibacter aphrophilus	VBIAggAph86045_1583	Ferric iron ABC transporter 2C iron-binding protein
Aggregatibacter aphrophilus	VBIAggAph86045_0047	Ferric iron ABC transporter 2C iron-binding protein
Aggregatibacter aphrophilus	VBIAggAph86045_0174	Ferrichrome-iron receptor
Aggregatibacter aphrophilus	VBIAggAph86045_1869	Flp pilus assembly protein TadB
Aggregatibacter aphrophilus	VBIAggAph86045_0218	Flp pilus assembly protein TadB
Aggregatibacter aphrophilus	VBIAggAph86045_1007	Flp pilus assembly protein TadD 2C contains TPR repeat
Aggregatibacter aphrophilus	VBIAggAph86045_0240	Flp pilus assembly protein TadD 2C contains TPR repeat
Aggregatibacter aphrophilus	VBIAggAph86045_1448	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Aggregatibacter aphrophilus	VBIAggAph86045_0551	Glycerol-3-phosphate transporter
Aggregatibacter aphrophilus	VBIAggAph86045_0585	Glycerol-3-phosphate transporter
Aggregatibacter aphrophilus	VBIAggAph86045_0122	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolyase
Aggregatibacter aphrophilus	VBIAggAph86045_2047	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolyase
Aggregatibacter aphrophilus	VBIAggAph86045_0177	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolyase
Aggregatibacter aphrophilus	VBIAggAph86045_0024	Heat shock protein 60 family chaperone GroEL
Aggregatibacter aphrophilus	VBIAggAph86045_1667	Heat shock protein 60 family chaperone GroEL
Aggregatibacter aphrophilus	VBIAggAph86045_1849	HemY protein
Aggregatibacter aphrophilus	VBIAggAph86045_0180	Iron (III) dicitrate transport system 2C periplasmic iron-binding protein FecB TC 3.A.1.14.1
Aggregatibacter aphrophilus	VBIAggAph86045_1872	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Aggregatibacter aphrophilus	VBIAggAph86045_1368	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Aggregatibacter aphrophilus	VBIAggAph86045_1989	macrolide export ATP-binding permease protein MacB
Aggregatibacter aphrophilus	VBIAggAph86045_1672	Magnesium and cobalt efflux protein CorC
Aggregatibacter aphrophilus	VBIAggAph86045_1453	Manganese ABC transporter 2C periplasmic-binding protein SitA
Aggregatibacter aphrophilus	VBIAggAph86045_1497	Manganese superoxide dismutase EC 1.15.1.1
Aggregatibacter aphrophilus	VBIAggAph86045_0274	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Aggregatibacter aphrophilus	VBIAggAph86045_1655	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Aggregatibacter aphrophilus	VBIAggAph86045_1540	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12

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Aggregatibacter aphrophilus	VBIAggAph86045_0020	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Aggregatibacter aphrophilus	VBIAggAph86045_0176	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Aggregatibacter aphrophilus	VBIAggAph86045_1850	Nitrate nitrite response regulator protein
Aggregatibacter aphrophilus	VBIAggAph86045_0175	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Aggregatibacter aphrophilus	VBIAggAph86045_0904	Outer membrane protein A precursor
Aggregatibacter aphrophilus	VBIAggAph86045_0564	Outer membrane protein A precursor
Aggregatibacter aphrophilus	VBIAggAph86045_0865	Outer membrane protein assembly factor YaeT precursor
Aggregatibacter aphrophilus	VBIAggAph86045_0550	Outer membrane receptor proteins 2C mostly Fe transport
Aggregatibacter aphrophilus	VBIAggAph86045_0853	Phosphatidate cytidyltransferase EC 2.7.7.41
Aggregatibacter aphrophilus	VBIAggAph86045_0392	Phosphomannomutase EC 5.4.2.8
Aggregatibacter aphrophilus	VBIAggAph86045_0587	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Aggregatibacter aphrophilus	VBIAggAph86045_2046	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Aggregatibacter aphrophilus	VBIAggAph86045_0028	Putative ABC transporter of substrate X 2C ATP-binding subunit
Aggregatibacter aphrophilus	VBIAggAph86045_1539	Putative secretion ATPase
Aggregatibacter aphrophilus	VBIAggAph86045_1836	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Aggregatibacter aphrophilus	VBIAggAph86045_1425	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Aggregatibacter aphrophilus	VBIAggAph86045_1213	Ribose ABC transport system 2C ATP-binding protein RbsA TC 3.A.1.2.1
Aggregatibacter aphrophilus	VBIAggAph86045_2084	RNA polymerase sigma factor RpoE
Aggregatibacter aphrophilus	VBIAggAph86045_1143	RNA polymerase sigma factor RpoE
Aggregatibacter aphrophilus	VBIAggAph86045_0246	RNA polymerase sigma factor RpoE
Aggregatibacter aphrophilus	VBIAggAph86045_1295	RNA polymerase sigma factor RpoH
Aggregatibacter aphrophilus	VBIAggAph86045_0249	RTX toxins determinant A and related Ca ²⁺ -binding proteins
Aggregatibacter aphrophilus	VBIAggAph86045_1329	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Aggregatibacter aphrophilus	VBIAggAph86045_1450	Thiamin ABC transporter 2C ATPase component Thiamine transport ATP-binding protein thiQ
Aggregatibacter aphrophilus	VBIAggAph86045_1745	Translation elongation factor Tu
Aggregatibacter aphrophilus	VBIAggAph86045_1187	Translation elongation factor Tu
Aggregatibacter aphrophilus	VBIAggAph86045_0376	Transport ATP-binding protein CydC
Aggregatibacter aphrophilus	VBIAggAph86045_0197	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
Aggregatibacter aphrophilus	VBIAggAph86045_1029	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
Aggregatibacter aphrophilus	VBIAggAph86045_1867	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
Aggregatibacter aphrophilus	VBIAggAph86045_1075	Type II IV secretion system ATPase TadZ CpaE 2C associated with Flp pilus assembly
Aggregatibacter aphrophilus	VBIAggAph86045_1076	Type II IV secretion system secretin RcpA CpaC 2C associated with Flp pilus assembly
Aggregatibacter aphrophilus	VBIAggAph86045_0586	Type IV pilus biogenesis protein PilQ
Aggregatibacter aphrophilus	VBIAggAph86045_0742	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Aggregatibacter aphrophilus	VBIAggAph86045_1737	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Aggregatibacter aphrophilus	VBIAggAph86045_0296	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Aggregatibacter aphrophilus	VBIAggAph86045_1188	Uroporphyrinogen-III methyltransferase EC 2.1.1.107
Aggregatibacter aphrophilus	VBIAggAph86045_0390	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Aggregatibacter aphrophilus	VBIAggAph86045_1300	VgrG protein
Aggregatibacter aphrophilus	VBIAggAph86045_0127	Vitamin B12 ABC transporter 2C permease component BtuC
Aggregatibacter segnis	VBIAggSeg171182_1556	3-deoxy-D-manno-octulosonic acid kinase EC 2.7.1.-
Aggregatibacter segnis	VBIAggSeg171182_1027	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Aggregatibacter segnis	VBIAggSeg171182_1205	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Aggregatibacter segnis	VBIAggSeg171182_0162	ABC transporter involved in cytochrome c biogenesis 2C ATPase component CcmA
Aggregatibacter segnis	VBIAggSeg171182_0978	ABC-type multidrug transport system 2C permease component
Aggregatibacter segnis	VBIAggSeg171182_0948	ABC-type multidrug transport system 2C permease component
Aggregatibacter segnis	VBIAggSeg171182_1314	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Aggregatibacter segnis	VBIAggSeg171182_1613	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Aggregatibacter segnis	VBIAggSeg171182_1469	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Aggregatibacter segnis	VBIAggSeg171182_1264	Aerobic respiration control protein arcA
Aggregatibacter segnis	VBIAggSeg171182_1188	Aerobic respiration control sensor protein arcB EC 2.7.3.-
Aggregatibacter segnis	VBIAggSeg171182_0541	Arginine ABC transporter 2C ATP-binding protein ArtP
Aggregatibacter segnis	VBIAggSeg171182_0580	Arginine ABC transporter 2C permease protein ArtQ
Aggregatibacter segnis	VBIAggSeg171182_0255	Cell envelope opacity-associated protein A
Aggregatibacter segnis	VBIAggSeg171182_1702	ClpB protein
Aggregatibacter segnis	VBIAggSeg171182_0022	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Aggregatibacter segnis	VBIAggSeg171182_0210	Cytochrome c heme lyase subunit CcmF
Aggregatibacter segnis	VBIAggSeg171182_0166	Cytochrome c-type biogenesis protein CcmC 2C putative heme lyase for CcmE
Aggregatibacter segnis	VBIAggSeg171182_0208	Cytochrome c-type biogenesis protein CcmE 2C heme chaperone
Aggregatibacter segnis	VBIAggSeg171182_0910	Dca
Aggregatibacter segnis	VBIAggSeg171182_0379	Dca
Aggregatibacter segnis	VBIAggSeg171182_1732	Enolase EC 4.2.1.11
Aggregatibacter segnis	VBIAggSeg171182_1137	Ferric anguibactin transport system permease protein fatD
Aggregatibacter segnis	VBIAggSeg171182_1587	Ferric iron ABC transporter 2C ATP-binding protein
Aggregatibacter segnis	VBIAggSeg171182_1562	Ferric iron ABC transporter 2C iron-binding protein
Aggregatibacter segnis	VBIAggSeg171182_1582	Ferric iron ABC transporter 2C permease protein
Aggregatibacter segnis	VBIAggSeg171182_1024	Ferrichrome-iron receptor
Aggregatibacter segnis	VBIAggSeg171182_0008	FIG00641944 hypothetical protein
Aggregatibacter segnis	VBIAggSeg171182_0497	Flp pilus assembly protein TadB
Aggregatibacter segnis	VBIAggSeg171182_0426	Flp pilus assembly protein TadD 2C contains TPR repeat
Aggregatibacter segnis	VBIAggSeg171182_0820	Gamma-glutamyltranspeptidase EC 2.3.2.2
Aggregatibacter segnis	VBIAggSeg171182_0892	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Aggregatibacter segnis	VBIAggSeg171182_0801	Glutamyl-tRNA reductase EC 1.2.1.70
Aggregatibacter segnis	VBIAggSeg171182_0930	Glycosyltransferases involved in cell wall biogenesis
Aggregatibacter segnis	VBIAggSeg171182_1288	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolyla
Aggregatibacter segnis	VBIAggSeg171182_1754	Hcp
Aggregatibacter segnis	VBIAggSeg171182_1614	Heat shock protein 60 family chaperone GroEL
Aggregatibacter segnis	VBIAggSeg171182_1313	Hemolysins and related proteins containing CBS domains
Aggregatibacter segnis	VBIAggSeg171182_1338	Homolog of E. coli HemY protein

Aggregatibacter segnis	VBIAggSeg171182_0365	hypothetical protein
Aggregatibacter segnis	VBIAggSeg171182_0834	hypothetical protein
Aggregatibacter segnis	VBIAggSeg171182_1889	IcmF-related protein
Aggregatibacter segnis	VBIAggSeg171182_1706	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Aggregatibacter segnis	VBIAggSeg171182_1230	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Aggregatibacter segnis	VBIAggSeg171182_1136	Iron compound ABC uptake transporter substrate-binding protein PiuA
Aggregatibacter segnis	VBIAggSeg171182_1289	Leader peptidase Prepilin peptidase EC 3.4.23.43 N-methyltransferase EC 2.1.1.-
Aggregatibacter segnis	VBIAggSeg171182_1026	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Aggregatibacter segnis	VBIAggSeg171182_0055	Lipooligosaccharide biosynthesis protein lex-1 EC 2.-.-.-
Aggregatibacter segnis	VBIAggSeg171182_1049	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Aggregatibacter segnis	VBIAggSeg171182_0594	Magnesium and cobalt efflux protein CorC
Aggregatibacter segnis	VBIAggSeg171182_1025	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Aggregatibacter segnis	VBIAggSeg171182_0799	Manganese ABC transporter 2C inner membrane permease protein SitC
Aggregatibacter segnis	VBIAggSeg171182_0794	Manganese ABC transporter 2C inner membrane permease protein SitD
Aggregatibacter segnis	VBIAggSeg171182_0131	Manganese superoxide dismutase EC 1.15.1.1
Aggregatibacter segnis	VBIAggSeg171182_1319	Membrane-associated zinc metalloprotease
Aggregatibacter segnis	VBIAggSeg171182_0933	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Aggregatibacter segnis	VBIAggSeg171182_1135	Molybdenum transport ATP-binding protein ModC TC 3.A.1.8.1
Aggregatibacter segnis	VBIAggSeg171182_1271	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Aggregatibacter segnis	VBIAggSeg171182_0946	O-antigen export system permease protein RfbD
Aggregatibacter segnis	VBIAggSeg171182_1231	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Aggregatibacter segnis	VBIAggSeg171182_0918	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Aggregatibacter segnis	VBIAggSeg171182_0113	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Aggregatibacter segnis	VBIAggSeg171182_0776	Outer membrane lipoprotein LolB precursor
Aggregatibacter segnis	VBIAggSeg171182_0793	Outer membrane lipoprotein LolB precursor
Aggregatibacter segnis	VBIAggSeg171182_0983	Outer membrane protein A precursor
Aggregatibacter segnis	VBIAggSeg171182_0851	Outer membrane protein A precursor
Aggregatibacter segnis	VBIAggSeg171182_1138	Outer membrane stress sensor protease DegQ 2C serine protease
Aggregatibacter segnis	VBIAggSeg171182_1464	Porphobilinogen deaminase EC 2.5.1.61
Aggregatibacter segnis	VBIAggSeg171182_1842	Protein ImpG Vasa
Aggregatibacter segnis	VBIAggSeg171182_1169	putative adhesin invasin
Aggregatibacter segnis	VBIAggSeg171182_0324	Pyrraline-5-carboxylate reductase EC 1.5.1.2
Aggregatibacter segnis	VBIAggSeg171182_1902	RNA polymerase sigma factor RpoE
Aggregatibacter segnis	VBIAggSeg171182_0253	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1
Aggregatibacter segnis	VBIAggSeg171182_0909	Transcriptional repressor protein TyrR
Aggregatibacter segnis	VBIAggSeg171182_1058	Transport ATP-binding protein CydC
Aggregatibacter segnis	VBIAggSeg171182_0503	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
Aggregatibacter segnis	VBIAggSeg171182_0492	Type II IV secretion system protein TadC 2C associated with Flp pilus assembly
Aggregatibacter segnis	VBIAggSeg171182_0525	Type II IV secretion system secretin RcpA CpaC 2C associated with Flp pilus assembly
Aggregatibacter segnis	VBIAggSeg171182_1316	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Aggregatibacter segnis	VBIAggSeg171182_0581	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Aggregatibacter segnis	VBIAggSeg171182_0596	UDP-glucose dehydrogenase EC 1.1.1.22
Aggregatibacter segnis	VBIAggSeg171182_0947	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Aggregatibacter segnis	VBIAggSeg171182_0905	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Aggregatibacter segnis	VBIAggSeg171182_1748	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Aggregatibacter segnis	VBIAggSeg171182_1391	Uroporphyrinogen-III methyltransferase EC 2.1.1.107
Aggregatibacter segnis	VBIAggSeg171182_1395	Uroporphyrinogen-III synthase EC 4.2.1.75
Aggregatibacter segnis	VBIAggSeg171182_1743	UTP-glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Aggregatibacter segnis	VBIAggSeg171182_0728	VgrG protein
Aggregatibacter segnis	VBIAggSeg171182_0670	VgrG protein
Agrobacterium tumefaciens	VBIAgrTum91616_3514	ABC transporter ATP-binding protein
Agrobacterium tumefaciens	VBIAgrTum91616_3962	Transport ATP-binding protein CydD
Arcanobacterium haemolyticum	VBIArcHae78728_1585	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Arcanobacterium haemolyticum	VBIArcHae78728_0497	ABC-type polar amino acid transport system 2C ATPase component
Arcanobacterium haemolyticum	VBIArcHae78728_0360	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Arcanobacterium haemolyticum	VBIArcHae78728_0055	ATP synthase alpha chain EC 3.6.3.14
Arcanobacterium haemolyticum	VBIArcHae78728_0102	ATP synthase beta chain EC 3.6.3.14
Arcanobacterium haemolyticum	VBIArcHae78728_1181	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Arcanobacterium haemolyticum	VBIArcHae78728_0626	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Arcanobacterium haemolyticum	VBIArcHae78728_1353	Lipopolysaccharide biosynthesis glycosyltransferase
Arcanobacterium haemolyticum	VBIArcHae78728_1105	Methionine ABC transporter ATP-binding protein
Arcanobacterium haemolyticum	VBIArcHae78728_0766	TonB-dependent hemin 2C ferrichrome receptor
Atopobium rimae	VBIAtoRim14338_1472	Type IV pilus biogenesis protein PilQ
Atopobium vaginae	VBIAtoVag168076_0418	adhesion and penetration protein Hap
Atopobium vaginae	VBIAtoVag168076_0571	adhesion and penetration protein Hap
Atopobium vaginae	VBIAtoVag85223_0915	Cell envelope opacity-associated protein A
Atopobium vaginae	VBIAtoVag168076_0138	Menaquinone-specific isochorismate synthase EC 5.4.4.2
Atopobium vaginae	VBIAtoVag85223_0939	Nucleoside 5-triphosphatase RdgB dHATP 2C dTTP 2C XTP-specific EC 3.6.1.15
Atopobium vaginae	VBIAtoVag85223_0142	Phosphoglucosamine mutase EC 5.4.2.10
Atopobium vaginae	VBIAtoVag85223_1014	Radical SAM family enzyme 2C similar to coproporphyrinogen III oxidase RdgB
Atopobium vaginae	VBIAtoVag168076_0084	RNA polymerase sigma factor RpoD
Atopobium vaginae	VBIAtoVag168076_0193	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Atopobium vaginae	VBIAtoVag85223_0351	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1
Atopobium vaginae	VBIAtoVag85223_0349	Type IV fimbrial assembly 2C ATPase PilB
Atopobium vaginae	VBIAtoVag85223_0713	UDP-2 2C3-diacetylglucosamine hydrolase EC 3.6.1.-
Bacillus anthracis	VBI BacAnt86373_5500	ABC transporter 2C ATP-binding protein
Bacillus anthracis	VBI BacAnt86373_2824	ABC transporter ATP-binding protein
Bacillus anthracis	VBI BacAnt108183_3959	ABC-type polar amino acid transport system 2C ATPase component
Bacillus anthracis	VBI BacAnt108183_5377	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20

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Bacillus anthracis	VBIBacAnt108183_0399	amino acid ABC transporter 2C ATP-binding protein
Bacillus anthracis	VBIBacAnt108183_5560	Diaminopimelate decarboxylase EC 4.1.1.20
Bacillus anthracis	VBIBacAnt108183_1157	Ferric iron ABC transporter 2C ATP-binding protein
Bacillus anthracis	VBIBacAnt108183_5216	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Bacillus anthracis	VBIBacAnt108183_1456	Methionyl-tRNA formyltransferase EC 2.1.2.9
Bacillus anthracis	VBIBacAnt108183_3892	Phosphomannomutase EC 5.4.2.8
Bacillus anthracis	VBIBacAnt108183_1802	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Bacillus anthracis	VBIBacAnt86373_4637	RNA polymerase sigma factor RpoE
Bacillus anthracis	VBIBacAnt86373_4955	Sigma factor RpoE negative regulatory protein RseB precursor
Bacillus anthracis	VBIBacAnt108183_0136	TonB-dependent receptor
Bacillus anthracis	VBIBacAnt86373_1287	Transport ATP-binding protein CydD
Bacillus anthracis	VBIBacAnt86373_5570	Type IV pilus biogenesis protein PilQ
Bacillus clausii	VBIBacCla58185_2200	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Bacillus clausii	VBIBacCla58185_0940	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Bacillus clausii	VBIBacCla58185_2753	ABC transporter involved in cytochrome c biogenesis 2C ATPase component CcmA
Bacillus clausii	VBIBacCla58185_4244	Cell division trigger factor EC 5.2.1.8
Bacillus clausii	VBIBacCla58185_3439	Cytochrome c heme lyase subunit CcmF
Bacillus clausii	VBIBacCla58185_2755	Cytochrome c-type biogenesis protein CcmE 2C heme chaperone
Bacillus clausii	VBIBacCla58185_3786	Cytochrome c-type heme lyase subunit nrfE 2C nitrite reductase complex assembly
Bacillus clausii	VBIBacCla58185_1315	FKBP-type peptidyl-prolyl cis-trans isomerase fKlB EC 5.2.1.8
Bacillus clausii	VBIBacCla58185_0128	Hemolysins and related proteins containing CBS domains
Bacillus clausii	VBIBacCla58185_1058	Lipid-A-disaccharide synthase EC 2.4.1.182
Bacillus clausii	VBIBacCla58185_2577	Menaquinone-specific isochorismate synthase EC 5.4.4.2
Bacillus clausii	VBIBacCla58185_2576	Peptidyl-prolyl cis-trans isomerase ppiB EC 5.2.1.8
Bacillus clausii	VBIBacCla58185_0718	Phosphatidate cytidyltransferase EC 2.7.7.41
Bacillus clausii	VBIBacCla58185_3998	Pyrraline-5-carboxylate reductase EC 1.5.1.2
Bacillus clausii	VBIBacCla58185_0264	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Bacillus subtilis	VBIBacSub57968_0437	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Bacillus subtilis	VBIBacSub33497_2669	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Bacillus subtilis	VBIBacSub57968_1928	ABC transporter related
Bacillus subtilis	VBIBacSub57968_3095	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Bacillus subtilis	VBIBacSub93915_0264	Aerobic respiration control protein arca
Bacillus subtilis	VBIBacSub93915_2594	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Bacillus subtilis	VBIBacSub33497_1768	Arginine ABC transporter 2C ATP-binding protein ArtP
Bacillus subtilis	VBIBacSub93915_2767	ATP synthase alpha chain EC 3.6.3.14
Bacillus subtilis	VBIBacSub93915_2777	ATP synthase beta chain EC 3.6.3.14
Bacillus subtilis	VBIBacSub93915_3851	ATPase component of general energizing module of ECF transporters
Bacillus subtilis	VBIBacSub93915_2677	CipB protein
Bacillus subtilis	VBIBacSub33497_0411	COG1132 ABC-type multidrug transport system 2C ATPase and permease components
Bacillus subtilis	VBIBacSub93915_0964	Dipeptide transport ATP-binding protein DppF TC 3.A.1.5.2
Bacillus subtilis	VBIBacSub93915_2807	Enolase EC 4.2.1.11
Bacillus subtilis	VBIBacSub93915_2694	Enolase EC 4.2.1.11
Bacillus subtilis	VBIBacSub93915_0194	ferric ABC transporter ATP-binding protein
Bacillus subtilis	VBIBacSub33497_0183	Ferric vulnibactin receptor VuuA
Bacillus subtilis	VBIBacSub57968_1638	FIG00782388 hypothetical protein
Bacillus subtilis	VBIBacSub57968_1483	Glycosyltransferases involved in cell wall biogenesis
Bacillus subtilis	VBIBacSub33497_1766	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrola
Bacillus subtilis	VBIBacSub93915_1641	Heat shock protein 60 family chaperone GroEL
Bacillus subtilis	VBIBacSub93915_2745	Heat shock protein 60 family chaperone GroEL
Bacillus subtilis	VBIBacSub93915_2195	hypothetical protein
Bacillus subtilis	VBIBacSub57968_3395	hypothetical protein
Bacillus subtilis	VBIBacSub93915_1894	hypothetical protein
Bacillus subtilis	VBIBacSub33497_0451	Inner membrane ABC-transporter YbtQ
Bacillus subtilis	VBIBacSub33497_1991	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Bacillus subtilis	VBIBacSub57968_4110	Iron compound ABC uptake transporter substrate-binding protein PiuA
Bacillus subtilis	VBIBacSub33497_3788	Lipid A biosynthesis KDO 2-lauroyl-lipid IVA acyltransferase EC 2.3.1.-
Bacillus subtilis	VBIBacSub57968_3173	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Bacillus subtilis	VBIBacSub57968_1990	Lipoprotein releasing system ATP-binding protein LolD
Bacillus subtilis	VBIBacSub33497_2921	Magnesium and cobalt efflux protein CorC
Bacillus subtilis	VBIBacSub93915_0732	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Bacillus subtilis	VBIBacSub33497_3720	Manganese ABC transporter 2C ATP-binding protein SitB
Bacillus subtilis	VBIBacSub33497_3620	Manganese ABC transporter 2C inner membrane permease protein SitC
Bacillus subtilis	VBIBacSub33497_3221	Manganese ABC transporter 2C inner membrane permease protein SitD
Bacillus subtilis	VBIBacSub33497_3740	Manganese ABC transporter 2C periplasmic-binding protein SitA
Bacillus subtilis	VBIBacSub33497_3805	Mannose-6-phosphate isomerase EC 5.3.1.8
Bacillus subtilis	VBIBacSub57968_1499	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Bacillus subtilis	VBIBacSub57968_2526	Molybdenum transport ATP-binding protein ModC TC 3.A.1.8.1
Bacillus subtilis	VBIBacSub93915_2533	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Bacillus subtilis	VBIBacSub93915_2714	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Bacillus subtilis	VBIBacSub93915_3012	Ornithine carbamoyltransferase EC 2.1.3.3
Bacillus subtilis	VBIBacSub93915_0206	Outer membrane receptor proteins 2C mostly Fe transport
Bacillus subtilis	VBIBacSub57968_2871	Outer membrane stress sensor protease DegS
Bacillus subtilis	VBIBacSub57968_0471	Phosphoglucosamine mutase EC 5.4.2.10
Bacillus subtilis	VBIBacSub57968_4037	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Bacillus subtilis	VBIBacSub93915_3381	putative ABC-transporter
Bacillus subtilis	VBIBacSub57968_3593	Thiamin ABC transporter 2C ATPase component Thiamine transport ATP-binding protein thiQ
Bacillus subtilis	VBIBacSub33497_4039	Transcriptional repressor protein TyrR
Bacillus subtilis	VBIBacSub93915_2781	Translation elongation factor Tu
Bacillus subtilis	VBIBacSub33497_4258	Transport ATP-binding protein CydC

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Bacillus subtilis	VBIBacSub57968_0090	Transport ATP-binding protein CydD
Bacillus subtilis	VBIBacSub57968_4070	Two-component system response regulator QseB
Bacillus subtilis	VBIBacSub57968_3263	UDP-glucose 4-epimerase EC 5.1.3.2
Bacillus subtilis	VBIBacSub93915_0746	UDP-glucuronate 5-epimerase EC 5.1.3.12
Bacteroidetes oral taxon 274	VBIBacOra127278_1197	2 2C3 2C4 2C5-tetrahydropyridine-2 2C6-dicarboxylate N-acetyltransferase EC 2.3.1.89
Bacteroidetes oral taxon 274	VBIBacOra127278_0460	2-deoxy-D-gluconate 3-dehydrogenase EC 1.1.1.125
Bacteroidetes oral taxon 274	VBIBacOra127278_0575	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Bacteroidetes oral taxon 274	VBIBacOra127278_0335	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Bacteroidetes oral taxon 274	VBIBacOra127278_0275	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Bacteroidetes oral taxon 274	VBIBacOra127278_0154	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Bacteroidetes oral taxon 274	VBIBacOra127278_0638	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Bacteroidetes oral taxon 274	VBIBacOra127278_0193	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Bacteroidetes oral taxon 274	VBIBacOra127278_0721	ABC transporter 2C ATP-binding protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1309	ABC transporter 2C ATP-binding protein 2C putative
Bacteroidetes oral taxon 274	VBIBacOra127278_1290	ABC transporter ATP-binding protein
Bacteroidetes oral taxon 274	VBIBacOra127278_0495	Aspartate 1-decarboxylase EC 4.1.1.11
Bacteroidetes oral taxon 274	VBIBacOra127278_0783	Aspartate 1-decarboxylase EC 4.1.1.11
Bacteroidetes oral taxon 274	VBIBacOra127278_0358	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Bacteroidetes oral taxon 274	VBIBacOra127278_0626	ATP-dependent Clp protease ATP-binding subunit ClpA
Bacteroidetes oral taxon 274	VBIBacOra127278_0357	ATPase component of general energizing module of ECF transporters
Bacteroidetes oral taxon 274	VBIBacOra127278_1169	Beta-1 2C3-glucosyltransferase
Bacteroidetes oral taxon 274	VBIBacOra127278_0557	Branched-chain amino acid transport system permease protein LivM TC 3.A.1.4.1
Bacteroidetes oral taxon 274	VBIBacOra127278_0778	Capsular polysaccharide synthesis protein
Bacteroidetes oral taxon 274	VBIBacOra127278_0002	cation-transporting ATPase 2C E1-E2 family
Bacteroidetes oral taxon 274	VBIBacOra127278_1714	cell wall surface anchor family protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1723	cell wall surface anchor family protein
Bacteroidetes oral taxon 274	VBIBacOra127278_0098	ClpB protein
Bacteroidetes oral taxon 274	VBIBacOra127278_0221	Collagen adhesion protein
Bacteroidetes oral taxon 274	VBIBacOra127278_0243	Collagen adhesion protein
Bacteroidetes oral taxon 274	VBIBacOra127278_0922	DNA-binding response regulator
Bacteroidetes oral taxon 274	VBIBacOra127278_1323	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Bacteroidetes oral taxon 274	VBIBacOra127278_0814	Ferrous iron transport protein B
Bacteroidetes oral taxon 274	VBIBacOra127278_0918	Ferrous iron transport protein B
Bacteroidetes oral taxon 274	VBIBacOra127278_0331	Fibronectin fibrinogen-binding protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1192	FIG00518767 hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1244	FKBP-type peptidyl-prolyl cis-trans isomerase fkIB EC 5.2.1.8
Bacteroidetes oral taxon 274	VBIBacOra127278_0745	glycosyl transferase 2C family 2
Bacteroidetes oral taxon 274	VBIBacOra127278_0753	Glycosyltransferase EC 2.4.1.-
Bacteroidetes oral taxon 274	VBIBacOra127278_0395	Heat shock protein 60 family chaperone GroEL
Bacteroidetes oral taxon 274	VBIBacOra127278_1165	Hemolysins and related proteins containing CBS domains
Bacteroidetes oral taxon 274	VBIBacOra127278_1704	hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1365	hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1167	hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1359	hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1374	hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1700	hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1644	hypothetical protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1612	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1105	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1800	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1160	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1499	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1161	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1101	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1002	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1007	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1629	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1601	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_0997	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1001	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1330	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1848	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1643	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1818	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1534	Internalin-like protein LPXTG motif Lmo0331 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1472	Internalin-like protein LPXTG motif Lmo2821 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1488	Internalin-like protein LPXTG motif Lmo2821 homolog
Bacteroidetes oral taxon 274	VBIBacOra127278_1168	Lipoprotein-releasing system ATP-binding protein lolD
Bacteroidetes oral taxon 274	VBIBacOra127278_1245	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Bacteroidetes oral taxon 274	VBIBacOra127278_0602	Methionyl-tRNA formyltransferase EC 2.1.2.9
Bacteroidetes oral taxon 274	VBIBacOra127278_0213	Methyl-accepting chemotaxis protein
Bacteroidetes oral taxon 274	VBIBacOra127278_1163	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Bacteroidetes oral taxon 274	VBIBacOra127278_0274	Non-hemolytic enterotoxin A
Bacteroidetes oral taxon 274	VBIBacOra127278_0139	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Bacteroidetes oral taxon 274	VBIBacOra127278_0528	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Bacteroidetes oral taxon 274	VBIBacOra127278_0322	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Bacteroidetes oral taxon 274	VBIBacOra127278_0516	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Bacteroidetes oral taxon 274	VBIBacOra127278_1130	Phosphoglucomutase EC 5.4.2.2
Bacteroidetes oral taxon 274	VBIBacOra127278_0214	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1

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Bacteroidetes oral taxon 274	VBIBacOra127278_0120	sensor histidine kinase
Bacteroidetes oral taxon 274	VBIBacOra127278_0530	sensory box sensor histidine kinase response regulator VC0622
Bacteroidetes oral taxon 274	VBIBacOra127278_0668	serine threonine protein kinase
Bacteroidetes oral taxon 274	VBIBacOra127278_0717	serine threonine protein kinase
Bacteroidetes oral taxon 274	VBIBacOra127278_0529	Signal transduction histidine kinase CheA EC 2.7.3.-
Bacteroidetes oral taxon 274	VBIBacOra127278_0470	Sulfate and thiosulfate import ATP-binding protein CysA EC 3.6.3.25
Bacteroidetes oral taxon 274	VBIBacOra127278_0382	two-component response regulator
Bacteroidetes oral taxon 274	VBIBacOra127278_1224	UDP-2-acetamido-2-deoxy-D-glucuronic acid dehydrogenase NAD ⁺ cofactor
Bacteroidetes oral taxon 274	VBIBacOra127278_0581	UDP-glucose 4-epimerase EC 5.1.3.2
Bacteroidetes oral taxon 274	VBIBacOra127278_0586	Vitamin B12 ABC transporter 2C permease component BtuC
Bifidobacterium breve	VBIBifBre30019_0658	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Bifidobacterium breve	VBIBifBre213787_1475	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Bifidobacterium breve	VBIBifBre213787_1886	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Bifidobacterium breve	VBIBifBre213787_1959	Export ABC transporter ATP-binding protein
Bifidobacterium breve	VBIBifBre213787_0484	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Bifidobacterium breve	VBIBifBre213787_0491	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Bifidobacterium breve	VBIBifBre30019_1920	Lipid-A-disaccharide synthase EC 2.4.1.182
Bifidobacterium breve	VBIBifBre30019_0877	Transcriptional regulatory protein rprY
Bifidobacterium dentium	VBIBifDen165269_0781	8-amino-7-oxononanoate synthase EC 2.3.1.47
Bifidobacterium dentium	VBIBifDen119025_0824	ABC-type multidrug transport system 2C ATPase component
Bifidobacterium dentium	VBIBifDen165269_0316	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Bifidobacterium dentium	VBIBifDen165269_0203	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Bifidobacterium dentium	VBIBifDen119025_0573	ATP synthase beta chain EC 3.6.3.14
Bifidobacterium dentium	VBIBifDen66312_2115	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Bifidobacterium dentium	VBIBifDen119025_0879	Chain E 2C Thermolysin E.C.3.4.24.27 Complex With Val-Trp Vw
Bifidobacterium dentium	VBIBifDen66312_0157	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Bifidobacterium dentium	VBIBifDen66312_1931	cytochrome P450-like enzyme
Bifidobacterium dentium	VBIBifDen119025_0388	Enolase EC 4.2.1.11
Bifidobacterium dentium	VBIBifDen66312_1482	Enolase EC 4.2.1.11
Bifidobacterium dentium	VBIBifDen66312_0133	Flagellar motor switch protein FliM
Bifidobacterium dentium	VBIBifDen66312_1043	Glutamate transport ATP-binding protein
Bifidobacterium dentium	VBIBifDen119025_0053	Heat shock protein 60 family chaperone GroEL
Bifidobacterium dentium	VBIBifDen66312_1656	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Bifidobacterium dentium	VBIBifDen66312_0660	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bifidobacterium dentium	VBIBifDen66312_0705	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bifidobacterium dentium	VBIBifDen66312_0040	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bifidobacterium dentium	VBIBifDen66312_0480	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bifidobacterium dentium	VBIBifDen66312_0235	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bifidobacterium dentium	VBIBifDen39005_0031	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Bifidobacterium dentium	VBIBifDen165269_1435	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Bifidobacterium dentium	VBIBifDen165269_2192	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Bifidobacterium dentium	VBIBifDen165269_1315	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Bifidobacterium dentium	VBIBifDen165269_0976	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Bifidobacterium dentium	VBIBifDen66312_0745	Manganese superoxide dismutase EC 1.15.1.1
Bifidobacterium dentium	VBIBifDen119025_1018	Mannose-6-phosphate isomerase EC 5.3.1.8
Bifidobacterium dentium	VBIBifDen119025_0974	Ornithine aminotransferase EC 2.6.1.13 3B Succinylornithine transaminase EC 2.6.1.81
Bifidobacterium dentium	VBIBifDen119025_0886	Pantoate--beta-alanine ligase EC 6.3.2.1
Bifidobacterium dentium	VBIBifDen119025_0226	Phosphatidate cytidyltransferase EC 2.7.7.41
Bifidobacterium dentium	VBIBifDen39005_1290	Phosphoglucosamine mutase EC 5.4.2.10
Bifidobacterium dentium	VBIBifDen165269_0725	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Bifidobacterium dentium	VBIBifDen165269_0369	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Bifidobacterium dentium	VBIBifDen66312_1343	putative cytochrome P450 hydroxylase
Bifidobacterium dentium	VBIBifDen119025_2081	RNA polymerase sigma factor RpoD
Bifidobacterium dentium	VBIBifDen119025_1528	UDP-glucose dehydrogenase EC 1.1.1.22
Bifidobacterium dentium	VBIBifDen119025_1298	UDP-glucose dehydrogenase EC 1.1.1.22
Bifidobacterium dentium	VBIBifDen66312_0036	Uncharacterized iron compound ABC uptake transporter 2C ATP-binding protein
Bifidobacterium dentium	VBIBifDen165269_0963	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Bifidobacterium longum	VBIBifLon171405_1762	ABC transporter 2C ATP-binding protein
Bifidobacterium longum	VBIBifLon171405_1040	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4 AsnH
Bifidobacterium longum	VBIBifLon171405_1540	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Bifidobacterium longum	VBIBifLon171405_1555	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bifidobacterium longum	VBIBifLon171405_0271	Minor teichoic acid biosynthesis protein GgaB
Bifidobacterium longum	VBIBifLon171405_1033	N-acetylneuraminase synthase EC 2.5.1.56
Bordetella pertussis	VBIBorPer7866_0914	ABC transporter ATP-binding protein YvcR
Bordetella pertussis	VBIBorPer7866_1479	Adenylylsulfate kinase EC 2.7.1.25
Bordetella pertussis	VBIBorPer7866_0008	Alkyl hydroperoxide reductase subunit C-like protein
Bordetella pertussis	VBIBorPer7866_3100	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bordetella pertussis	VBIBorPer7866_4007	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bordetella pertussis	VBIBorPer7866_2120	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bordetella pertussis	VBIBorPer7866_1963	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bordetella pertussis	VBIBorPer7866_2356	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bordetella pertussis	VBIBorPer7866_3425	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Bradyrhizobium elkanii	VBIBraElk237226_2216	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Brevundimonas diminuta	VBIBreDim149483_0191	Gamma-glutamyltranspeptidase EC 2.3.2.2
Brevundimonas diminuta	VBIBreDim149483_0188	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Brevundimonas diminuta	VBIBreDim149483_2160	Manganese superoxide dismutase EC 1.15.1.1
Burkholderia cepacia	VBIBurCep187818_2765	Isochorismate synthase EC 5.4.4.2 of siderophore biosynthesis
Burkholderia cepacia	VBIBurCep187818_5230	Methionine ABC transporter ATP-binding protein
Burkholderia cepacia	VBIBurCep187818_1986	methyl-accepting chemotaxis protein

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Burkholderia cepacia	VBIBurCep187818_0351	NADPH-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.13
Campylobacter concisus	VBICamCon95352_1566	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Campylobacter concisus	VBICamCon95352_0199	3-oxoacyl-acyl-carrier protein reductase paralogue EC 1.1.1.100
Campylobacter concisus	VBICamCon95352_0184	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Campylobacter concisus	VBICamCon95352_0964	ABC transporter 2C ATP-binding permease protein
Campylobacter concisus	VBICamCon95352_0844	ABC transporter 2C ATP-binding permease protein
Campylobacter concisus	VBICamCon95352_0999	ABC transporter 2C ATP-binding protein
Campylobacter concisus	VBICamCon95352_1519	ABC transporter ATP-binding protein
Campylobacter concisus	VBICamCon95352_1287	ABC-type antimicrobial peptide transport system 2C ATPase component
Campylobacter concisus	VBICamCon95352_1418	ABC-type antimicrobial peptide transport system 2C ATPase component
Campylobacter concisus	VBICamCon95352_0503	ABC-type Fe3+-siderophore transport system 2C permease 2 component
Campylobacter concisus	VBICamCon95352_1290	ABC-type polar amino acid transport system 2C ATPase component
Campylobacter concisus	VBICamCon95352_0865	ABC-type polar amino acid transport system 2C ATPase component
Campylobacter concisus	VBICamCon95352_2055	Amino acid ABC-type transporter 2C permease component
Campylobacter concisus	VBICamCon95352_0955	ATP synthase beta chain EC 3.6.3.14
Campylobacter concisus	VBICamCon95352_0877	ATP-binding protein of ABC transporter system
Campylobacter concisus	VBICamCon95352_0779	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Campylobacter concisus	VBICamCon95352_0117	Bifunctional autolysin Atl N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28 endo-beta-N-acetylglucosaminidase
Campylobacter concisus	VBICamCon95352_1967	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Campylobacter concisus	VBICamCon95352_1093	Cell wall surface anchor family protein
Campylobacter concisus	VBICamCon95352_1226	Cell wall surface anchor family protein
Campylobacter concisus	VBICamCon95352_0887	Cellobiose phosphorylase EC 2.4.1.-
Campylobacter concisus	VBICamCon95352_0270	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Campylobacter concisus	VBICamCon95352_0593	cytochrome P450-like enzyme
Campylobacter concisus	VBICamCon95352_1484	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Campylobacter concisus	VBICamCon95352_0996	Duplicated ATPase component of energizing module of predicted pyridoxine-related ECF transporter
Campylobacter concisus	VBICamCon95352_0544	Enolase EC 4.2.1.11
Campylobacter concisus	VBICamCon95352_0750	Enolase EC 4.2.1.11
Campylobacter concisus	VBICamCon95352_0099	Enolase EC 4.2.1.11
Campylobacter concisus	VBICamCon95352_1463	exopolysaccharide biosynthesis protein
Campylobacter concisus	VBICamCon95352_0130	Exopolysaccharide biosynthesis protein
Campylobacter concisus	VBICamCon95352_1853	Flagellar basal-body rod modification protein FlgD
Campylobacter concisus	VBICamCon95352_1500	Flagellar basal-body rod protein FlgG
Campylobacter concisus	VBICamCon95352_1848	Flagellar hook protein FlgE
Campylobacter concisus	VBICamCon95352_1855	Flagellar hook-length control protein FlhK
Campylobacter concisus	VBICamCon95352_0269	Flagellar motor switch protein FlhG
Campylobacter concisus	VBICamCon95352_0600	Flagellin protein FlaA
Campylobacter concisus	VBICamCon95352_1755	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Campylobacter concisus	VBICamCon95352_1022	Glucose-6-phosphate isomerase EC 5.3.1.9
Campylobacter concisus	VBICamCon95352_1509	Glucose-6-phosphate isomerase EC 5.3.1.9
Campylobacter concisus	VBICamCon95352_0475	Glutamine ABC transporter 2C periplasmic glutamine-binding protein TC 3.A.1.3.2
Campylobacter concisus	VBICamCon95352_1413	Glutamine synthetase type I EC 6.3.1.2
Campylobacter concisus	VBICamCon95352_0862	Glycosyltransferase EC 2.4.1.-
Campylobacter concisus	VBICamCon95352_1879	Hcp
Campylobacter concisus	VBICamCon95352_0686	Heat shock protein 60 family chaperone GroEL
Campylobacter concisus	VBICamCon95352_1174	hypothetical protein
Campylobacter concisus	VBICamCon95352_0591	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Campylobacter concisus	VBICamCon95352_1563	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Campylobacter concisus	VBICamCon95352_0353	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0421	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0332	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0342	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0450	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_1847	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0315	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0436	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0321	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0431	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter concisus	VBICamCon95352_0909	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Campylobacter concisus	VBICamCon95352_0473	Manganese superoxide dismutase EC 1.15.1.1
Campylobacter concisus	VBICamCon95352_1316	Methionine biosynthesis and transport regulator MtaR 2C LysR family
Campylobacter concisus	VBICamCon95352_0605	Minor teichoic acid biosynthesis protein GgaB
Campylobacter concisus	VBICamCon95352_0640	N-acetylneuraminate synthase EC 2.5.1.56
Campylobacter concisus	VBICamCon95352_1520	NAD-dependent formate dehydrogenase alpha subunit
Campylobacter concisus	VBICamCon95352_0194	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Campylobacter concisus	VBICamCon95352_2078	Outer membrane fibronectin-binding protein
Campylobacter concisus	VBICamCon95352_1003	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Campylobacter concisus	VBICamCon95352_1414	Phosphoglucosamine mutase EC 5.4.2.10
Campylobacter concisus	VBICamCon95352_0679	Phosphoglucosamine mutase EC 5.4.2.10
Campylobacter concisus	VBICamCon95352_1594	pili assembly chaperone
Campylobacter concisus	VBICamCon95352_1501	probable ATP-binding component of ABC transporter
Campylobacter concisus	VBICamCon95352_1508	probable ATP-binding component of ABC transporter
Campylobacter concisus	VBICamCon95352_0881	probable permease protein of ABC transporter system
Campylobacter concisus	VBICamCon95352_0708	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Campylobacter concisus	VBICamCon95352_1407	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Campylobacter concisus	VBICamCon95352_1512	putative ABC transport proteins 2C ATP-binding component
Campylobacter concisus	VBICamCon95352_0500	putative cytochrome P450 hydroxylase
Campylobacter concisus	VBICamCon95352_0852	Response regulator of two-component system
Campylobacter concisus	VBICamCon95352_0628	Ribose ABC transport system 2C ATP-binding protein RbsA TC 3.A.1.2.1

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Campylobacter concisus	VBICamCon95352_1215	RNA binding methyltransferase FtsJ like
Campylobacter concisus	VBICamCon95352_0991	RNA polymerase sigma factor RpoD
Campylobacter concisus	VBICamCon95352_1184	RNA polymerase sigma factor RpoD
Campylobacter concisus	VBICamCon95352_0711	RNA polymerase sigma factor RpoD
Campylobacter concisus	VBICamCon95352_1511	RNA polymerase sigma factor RpoD
Campylobacter concisus	VBICamCon95352_2083	Selenocysteine-specific translation elongation factor
Campylobacter concisus	VBICamCon95352_1251	Serine threonine phosphatase PPP EC 3.1.3.16
Campylobacter concisus	VBICamCon95352_1250	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Campylobacter concisus	VBICamCon95352_1498	short-chain dehydrogenase
Campylobacter concisus	VBICamCon95352_1221	Sialidase EC 3.2.1.18
Campylobacter concisus	VBICamCon95352_1734	Sigma-54 dependent transcriptional regulator
Campylobacter concisus	VBICamCon95352_1312	Signal transduction histidine kinase
Campylobacter concisus	VBICamCon95352_1252	Sortase A 2C LPXTG specific
Campylobacter concisus	VBICamCon95352_0917	Sortase A 2C LPXTG specific
Campylobacter concisus	VBICamCon95352_1417	Taurine transport ATP-binding protein TauB
Campylobacter concisus	VBICamCon95352_1223	Taurine transport ATP-binding protein TauB
Campylobacter concisus	VBICamCon95352_1079	Taurine transport ATP-binding protein TauB
Campylobacter concisus	VBICamCon95352_0898	Taurine transport ATP-binding protein TauB
Campylobacter concisus	VBICamCon95352_0614	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Campylobacter concisus	VBICamCon95352_1415	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Campylobacter concisus	VBICamCon95352_1548	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Campylobacter concisus	VBICamCon95352_1305	Translation elongation factor Tu
Campylobacter concisus	VBICamCon95352_0851	Translation elongation factor Tu
Campylobacter concisus	VBICamCon95352_1496	Translation elongation factor Tu
Campylobacter concisus	VBICamCon95352_1289	two component transcriptional regulator 2C LuxR family
Campylobacter concisus	VBICamCon95352_0876	two-component response regulator
Campylobacter concisus	VBICamCon95352_0131	Two-component sensor kinase SA14-24
Campylobacter concisus	VBICamCon95352_0129	Two-component sensor kinase YvcQ
Campylobacter concisus	VBICamCon95352_0545	Two-component sensor kinase YvcQ
Campylobacter concisus	VBICamCon95352_1478	Tyrosine-protein kinase Wzc EC 2.7.10.2
Campylobacter concisus	VBICamCon95352_1492	UDP-galactopyranose mutase EC 5.4.99.9
Campylobacter concisus	VBICamCon95352_1288	UDP-galactopyranose mutase EC 5.4.99.9
Campylobacter concisus	VBICamCon95352_1494	UDP-glucose 4-epimerase EC 5.1.3.2
Campylobacter concisus	VBICamCon95352_0604	UDP-glucose dehydrogenase EC 1.1.1.22
Campylobacter concisus	VBICamCon95352_1779	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Campylobacter concisus	VBICamCon95352_1857	Uncharacterized protein ImpJ VasE
Campylobacter concisus	VBICamCon95352_1119	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Campylobacter concisus	VBICamCon95352_1516	Urease alpha subunit EC 3.5.1.5
Campylobacter concisus	VBICamCon95352_1916	VgrG protein
Campylobacter concisus	VBICamCon95352_1808	Zinc ABC transporter 2C ATP-binding protein ZnuC
Campylobacter curvus	VBICamCur47627_1749	2-keto-3-deoxy-D-arabino-heptulosonate-7-phosphate synthase II EC 2.5.1.54
Campylobacter curvus	VBICamCur47627_0017	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Campylobacter curvus	VBICamCur47627_0418	Alkyl hydroperoxide reductase subunit C-like protein
Campylobacter curvus	VBICamCur47627_1365	Amino-acid ABC transporter ATP-binding protein
Campylobacter curvus	VBICamCur47627_1093	Anthranilate synthase 2C aminase component EC 4.1.3.27
Campylobacter curvus	VBICamCur47627_0444	ATP synthase alpha chain EC 3.6.3.14
Campylobacter curvus	VBICamCur47627_0460	ATP synthase beta chain EC 3.6.3.14
Campylobacter curvus	VBICamCur47627_0898	Chemotaxis protein CheV EC 2.7.3.-
Campylobacter curvus	VBICamCur47627_1757	ClpB protein
Campylobacter curvus	VBICamCur47627_1074	Diaminopimelate decarboxylase EC 4.1.1.20
Campylobacter curvus	VBICamCur47627_1079	Flagellar assembly protein FliH
Campylobacter curvus	VBICamCur47627_0424	Flagellar biosynthesis protein FliB
Campylobacter curvus	VBICamCur47627_1563	Flagellar biosynthesis protein FliS
Campylobacter curvus	VBICamCur47627_1789	Flagellar hook-associated protein FlgL
Campylobacter curvus	VBICamCur47627_1626	Flagellar hook-associated protein FliD
Campylobacter curvus	VBICamCur47627_1357	Flagellar motor rotation protein MotA
Campylobacter curvus	VBICamCur47627_1078	Flagellar motor switch protein FliG
Campylobacter curvus	VBICamCur47627_1719	Flagellar P-ring protein FlgI
Campylobacter curvus	VBICamCur47627_1122	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Campylobacter curvus	VBICamCur47627_1543	Glutamyl-tRNA reductase EC 1.2.1.70
Campylobacter curvus	VBICamCur47627_1236	HlyD family secretion protein
Campylobacter curvus	VBICamCur47627_1403	HtrA protease chaperone protein Serine protease Protease DO EC 3.4.21.-
Campylobacter curvus	VBICamCur47627_0817	Iron (III) ABC transporter 2C ATP-binding protein
Campylobacter curvus	VBICamCur47627_1301	Major outer membrane protein
Campylobacter curvus	VBICamCur47627_1790	MSHA biogenesis protein MshL
Campylobacter curvus	VBICamCur47627_1224	Ornithine carbamoyltransferase EC 2.1.3.3
Campylobacter curvus	VBICamCur47627_0514	Outer membrane protein assembly factor YaeT precursor
Campylobacter curvus	VBICamCur47627_0140	Phosphate regulon transcriptional regulatory protein PhoB SphR
Campylobacter curvus	VBICamCur47627_1544	Porphobilinogen deaminase EC 2.5.1.61
Campylobacter curvus	VBICamCur47627_0911	Positive regulator of CheA protein activity CheW
Campylobacter curvus	VBICamCur47627_1240	Possible bacterioferritin
Campylobacter curvus	VBICamCur47627_1399	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Campylobacter curvus	VBICamCur47627_0010	Putative ABC transport system ATP-binding protein
Campylobacter curvus	VBICamCur47627_1514	Putative two-component regulator
Campylobacter curvus	VBICamCur47627_1133	Signal-transduction regulatory protein FlgR
Campylobacter curvus	VBICamCur47627_1731	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1
Campylobacter curvus	VBICamCur47627_1778	Two-component system response regulator DccR
Campylobacter curvus	VBICamCur47627_1755	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Campylobacter curvus	VBICamCur47627_0799	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-

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Campylobacter curvus	VBICamCur47627_0889	Vitamin B12 ABC transporter 2C permease component BtuC
Campylobacter gracilis	VBICamGra90913_0674	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-
Campylobacter gracilis	VBICamGra90913_1659	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Campylobacter gracilis	VBICamGra90913_2204	4-amino-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier acetyltransferase
Campylobacter gracilis	VBICamGra90913_0863	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Campylobacter gracilis	VBICamGra90913_2320	Alpha-1 2C3-N-acetylgalactosamine transferase PglA EC 2.4.1.-
Campylobacter gracilis	VBICamGra90913_1969	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Campylobacter gracilis	VBICamGra90913_1109	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Campylobacter gracilis	VBICamGra90913_1323	Flagellar basal-body rod protein FlgB
Campylobacter gracilis	VBICamGra90913_1338	Flagellar basal-body rod protein FlgC
Campylobacter gracilis	VBICamGra90913_1618	Flagellar basal-body rod protein FlgF
Campylobacter gracilis	VBICamGra90913_1552	Flagellar basal-body rod protein FlgG
Campylobacter gracilis	VBICamGra90913_0408	Flagellar biosynthesis protein Flil
Campylobacter gracilis	VBICamGra90913_1535	Flagellar hook-basal body complex protein FlIE
Campylobacter gracilis	VBICamGra90913_0386	Flagellar L-ring protein FlgH
Campylobacter gracilis	VBICamGra90913_0739	Glutamine synthetase type I EC 6.3.1.2
Campylobacter gracilis	VBICamGra90913_2079	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Campylobacter gracilis	VBICamGra90913_0307	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Campylobacter gracilis	VBICamGra90913_0331	Macrolide export ATP-binding permease protein MacB EC 3.6.3.-
Campylobacter gracilis	VBICamGra90913_1655	Major outer membrane protein
Campylobacter gracilis	VBICamGra90913_2533	Oligosaccharyltransferase PglB EC 2.4.1.119
Campylobacter gracilis	VBICamGra90913_2641	Oligosaccharyltransferase PglB EC 2.4.1.119
Campylobacter gracilis	VBICamGra90913_0744	Pantoate--beta-alanine ligase EC 6.3.2.1
Campylobacter gracilis	VBICamGra90913_0388	Phospholipid-lipopolysaccharide ABC transporter
Campylobacter gracilis	VBICamGra90913_1619	RNA polymerase sigma factor RpoD
Campylobacter gracilis	VBICamGra90913_1274	Serine acetyltransferase EC 2.3.1.30
Campylobacter gracilis	VBICamGra90913_1968	TonB-dependent receptor
Campylobacter gracilis	VBICamGra90913_0294	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Campylobacter gracilis	VBICamGra90913_0138	Type II secretion system protein
Campylobacter gracilis	VBICamGra90913_2700	UDP-2-acetamido-2-deoxy-D-glucose dehydrogenase NAD+
Campylobacter gracilis	VBICamGra90913_2195	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Campylobacter gracilis	VBICamGra90913_1696	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Campylobacter gracilis	VBICamGra90913_1903	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Campylobacter rectus	VBICamRec32822_0707	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Campylobacter rectus	VBICamRec32822_2605	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Campylobacter rectus	VBICamRec32822_2277	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Campylobacter rectus	VBICamRec32822_2658	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Campylobacter rectus	VBICamRec32822_0295	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Campylobacter rectus	VBICamRec32822_2703	ABC transporter 2C ATP-binding protein
Campylobacter rectus	VBICamRec32822_2604	ABC transporter 2C transmembrane regionABC transporterPeptidase C39 2C bacteriocin processing
Campylobacter rectus	VBICamRec32822_2574	Acetyl esterase EC 3.1.1.-
Campylobacter rectus	VBICamRec32822_2573	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Campylobacter rectus	VBICamRec32822_1236	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Campylobacter rectus	VBICamRec32822_0411	Alkanesulfonates ABC transporter ABC transporter ATP-binding protein Sulfonate ABC transporter 2C ATP-binding subunit SsuB
Campylobacter rectus	VBICamRec32822_1985	Alkyl hydroperoxide reductase subunit C-like protein
Campylobacter rectus	VBICamRec32822_1520	Alkyl hydroperoxide reductase subunit C-like protein
Campylobacter rectus	VBICamRec32822_2312	Arabinose 5-phosphate isomerase EC 5.3.1.13
Campylobacter rectus	VBICamRec32822_0417	Arabinose 5-phosphate isomerase EC 5.3.1.13
Campylobacter rectus	VBICamRec32822_1968	ATP synthase alpha chain EC 3.6.3.14
Campylobacter rectus	VBICamRec32822_2351	ATP synthase alpha chain EC 3.6.3.14
Campylobacter rectus	VBICamRec32822_1967	ATP synthase beta chain EC 3.6.3.14
Campylobacter rectus	VBICamRec32822_2004	ATP-dependent Clp protease ATP-binding subunit ClpA
Campylobacter rectus	VBICamRec32822_0397	Bacillosamine Legionaminic acid biosynthesis aminotransferase PglE
Campylobacter rectus	VBICamRec32822_1860	BarA sensory histidine kinase 3D VarS 3D GacS
Campylobacter rectus	VBICamRec32822_0275	Campylobacter invasion antigen B CiaB
Campylobacter rectus	VBICamRec32822_1992	Cell division trigger factor EC 5.2.1.8
Campylobacter rectus	VBICamRec32822_2563	Chemotaxis protein CheV EC 2.7.3.-
Campylobacter rectus	VBICamRec32822_2602	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Campylobacter rectus	VBICamRec32822_2452	Diaminopimelate decarboxylase EC 4.1.1.20
Campylobacter rectus	VBICamRec32822_0597	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Campylobacter rectus	VBICamRec32822_0147	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Campylobacter rectus	VBICamRec32822_0352	Enolase EC 4.2.1.11
Campylobacter rectus	VBICamRec32822_1989	Enolase EC 4.2.1.11
Campylobacter rectus	VBICamRec32822_2297	FIG00471093 hypothetical protein
Campylobacter rectus	VBICamRec32822_2300	FIG00471093 hypothetical protein
Campylobacter rectus	VBICamRec32822_2299	FIG00471093 hypothetical protein
Campylobacter rectus	VBICamRec32822_2304	FIG00471093 hypothetical protein
Campylobacter rectus	VBICamRec32822_0243	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Campylobacter rectus	VBICamRec32822_2386	Flagellar assembly protein FlilH
Campylobacter rectus	VBICamRec32822_2728	Flagellar basal-body rod modification protein FlgD
Campylobacter rectus	VBICamRec32822_1157	Flagellar basal-body rod protein FlgB
Campylobacter rectus	VBICamRec32822_0813	Flagellar basal-body rod protein FlgG
Campylobacter rectus	VBICamRec32822_2362	Flagellar biosynthesis protein FlhB
Campylobacter rectus	VBICamRec32822_0814	Flagellar biosynthesis protein FlhP
Campylobacter rectus	VBICamRec32822_2672	Flagellar biosynthesis protein FlhR
Campylobacter rectus	VBICamRec32822_1065	Flagellar biosynthesis protein FlhS
Campylobacter rectus	VBICamRec32822_0433	Flagellar hook subunit protein
Campylobacter rectus	VBICamRec32822_0569	Flagellar hook subunit protein
Campylobacter rectus	VBICamRec32822_2347	Flagellar hook subunit protein

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Campylobacter rectus	VBICamRec32822_0574	Flagellar hook subunit protein
Campylobacter rectus	VBICamRec32822_0539	Flagellar hook subunit protein
Campylobacter rectus	VBICamRec32822_0879	Flagellar hook-associated protein FlgL
Campylobacter rectus	VBICamRec32822_2730	Flagellar hook-length control protein FliK
Campylobacter rectus	VBICamRec32822_0567	Flagellar hook-length control protein FliK
Campylobacter rectus	VBICamRec32822_2408	Flagellar M-ring protein FliF
Campylobacter rectus	VBICamRec32822_2407	Flagellar motor switch protein FliG
Campylobacter rectus	VBICamRec32822_1421	Flagellar motor switch protein FliM
Campylobacter rectus	VBICamRec32822_1376	Flagellar motor switch protein FliN
Campylobacter rectus	VBICamRec32822_2381	Flagellar motor switch protein FliN
Campylobacter rectus	VBICamRec32822_1686	Flagellin
Campylobacter rectus	VBICamRec32822_0357	Flagellin
Campylobacter rectus	VBICamRec32822_0595	Flagellum-specific ATP synthase Flil
Campylobacter rectus	VBICamRec32822_2033	FOG TPR repeat
Campylobacter rectus	VBICamRec32822_2128	FOG TPR repeat
Campylobacter rectus	VBICamRec32822_2129	FOG TPR repeat
Campylobacter rectus	VBICamRec32822_2007	FOG TPR repeat
Campylobacter rectus	VBICamRec32822_2009	FOG TPR repeat
Campylobacter rectus	VBICamRec32822_2097	FOG TPR repeat
Campylobacter rectus	VBICamRec32822_2008	FOG TPR repeat
Campylobacter rectus	VBICamRec32822_2256	Glutamine synthetase type I EC 6.3.1.2
Campylobacter rectus	VBICamRec32822_2962	Haemin uptake system ATP-binding protein
Campylobacter rectus	VBICamRec32822_1895	Haemin uptake system permease protein
Campylobacter rectus	VBICamRec32822_2918	Haemin uptake system permease protein
Campylobacter rectus	VBICamRec32822_1141	Heat shock protein 60 family chaperone GroEL
Campylobacter rectus	VBICamRec32822_2278	Hemolysins and related proteins containing CBS domains
Campylobacter rectus	VBICamRec32822_0406	Hemolysins and related proteins containing CBS domains
Campylobacter rectus	VBICamRec32822_1970	HtrA protease chaperone protein Serine protease Protease DO EC 3.4.21.-
Campylobacter rectus	VBICamRec32822_2761	hypothetical protein
Campylobacter rectus	VBICamRec32822_2131	hypothetical protein
Campylobacter rectus	VBICamRec32822_1995	hypothetical protein
Campylobacter rectus	VBICamRec32822_2001	hypothetical protein
Campylobacter rectus	VBICamRec32822_3016	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Campylobacter rectus	VBICamRec32822_0688	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Campylobacter rectus	VBICamRec32822_1754	Iron (III) ABC transporter 2C ATP-binding protein
Campylobacter rectus	VBICamRec32822_1788	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Campylobacter rectus	VBICamRec32822_0395	Legionaminic acid biosynthesis protein PtmA
Campylobacter rectus	VBICamRec32822_0396	Legionaminic acid synthase EC 2.5.1.56
Campylobacter rectus	VBICamRec32822_0165	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Campylobacter rectus	VBICamRec32822_2564	Lipid-A-disaccharide synthase EC 2.4.1.182
Campylobacter rectus	VBICamRec32822_0884	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Campylobacter rectus	VBICamRec32822_2845	Major outer membrane protein
Campylobacter rectus	VBICamRec32822_2842	Major outer membrane protein
Campylobacter rectus	VBICamRec32822_0781	Major outer membrane protein
Campylobacter rectus	VBICamRec32822_1240	Major outer membrane protein
Campylobacter rectus	VBICamRec32822_0401	Motility accessory factor
Campylobacter rectus	VBICamRec32822_1650	Motility accessory factor
Campylobacter rectus	VBICamRec32822_1973	MSHA biogenesis protein MshL
Campylobacter rectus	VBICamRec32822_2709	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Campylobacter rectus	VBICamRec32822_0639	Oligosaccharyltransferase PglB EC 2.4.1.119
Campylobacter rectus	VBICamRec32822_1982	Oligosaccharyltransferase PglB EC 2.4.1.119
Campylobacter rectus	VBICamRec32822_2582	Ornithine carbamoyltransferase EC 2.1.3.3
Campylobacter rectus	VBICamRec32822_1969	Outer membrane fibronectin-binding protein
Campylobacter rectus	VBICamRec32822_1993	Outer membrane receptor proteins 2C mostly Fe transport
Campylobacter rectus	VBICamRec32822_1751	Outer membrane receptor proteins 2C mostly Fe transport
Campylobacter rectus	VBICamRec32822_1196	Pantoate--beta-alanine ligase EC 6.3.2.1
Campylobacter rectus	VBICamRec32822_2384	Phosphate regulon transcriptional regulatory protein PhoB SphR
Campylobacter rectus	VBICamRec32822_2841	Phosphoglucosamine mutase EC 5.4.2.10 Phosphomannomutase EC 5.4.2.8
Campylobacter rectus	VBICamRec32822_2238	Porphobilinogen synthase EC 4.2.1.24
Campylobacter rectus	VBICamRec32822_2575	Porphobilinogen synthase EC 4.2.1.24
Campylobacter rectus	VBICamRec32822_2888	Possible bacterioferritin
Campylobacter rectus	VBICamRec32822_1244	Possible bacterioferritin
Campylobacter rectus	VBICamRec32822_1566	Putative ABC transport system ATP-binding protein
Campylobacter rectus	VBICamRec32822_0215	Putative ABC transporter ATP binding protein
Campylobacter rectus	VBICamRec32822_1800	RNA polymerase sigma factor RpoD
Campylobacter rectus	VBICamRec32822_0565	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Campylobacter rectus	VBICamRec32822_1576	Selenocysteine-specific translation elongation factor
Campylobacter rectus	VBICamRec32822_2562	Signal transduction histidine kinase CheA EC 2.7.3.-
Campylobacter rectus	VBICamRec32822_1026	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1
Campylobacter rectus	VBICamRec32822_0412	Superoxide dismutase Fe EC 1.15.1.1
Campylobacter rectus	VBICamRec32822_2284	Superoxide dismutase Fe EC 1.15.1.1
Campylobacter rectus	VBICamRec32822_2288	TonB-dependent hemin 2C ferrichrome receptor
Campylobacter rectus	VBICamRec32822_1975	TonB-dependent receptor
Campylobacter rectus	VBICamRec32822_1021	TonB-dependent receptor 3B Enterobactin receptor IrgA
Campylobacter rectus	VBICamRec32822_2252	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Campylobacter rectus	VBICamRec32822_0906	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Campylobacter rectus	VBICamRec32822_2213	Translation elongation factor Tu
Campylobacter rectus	VBICamRec32822_1965	Twitching motility protein PilT
Campylobacter rectus	VBICamRec32822_2561	Twitching motility protein PilT

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Campylobacter rectus	VBICamRec32822_0744	Twitching motility protein PilT
Campylobacter rectus	VBICamRec32822_1984	Twitching motility protein PilT
Campylobacter rectus	VBICamRec32822_0815	Two-component system response regulator
Campylobacter rectus	VBICamRec32822_1974	Type II secretion system protein
Campylobacter rectus	VBICamRec32822_1024	Type II secretion system protein
Campylobacter rectus	VBICamRec32822_1435	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Campylobacter rectus	VBICamRec32822_2348	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Campylobacter rectus	VBICamRec32822_2212	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Campylobacter rectus	VBICamRec32822_1069	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
Campylobacter rectus	VBICamRec32822_1623	UDP-GlcNAc-specific C4 2C6 dehydratase C5 epimerase PseB 2C first step of pseudaminic acid biosynthesis
Campylobacter rectus	VBICamRec32822_0033	UDP-glucose 4-epimerase EC 5.1.3.2
Campylobacter rectus	VBICamRec32822_0008	UDP-glucose dehydrogenase EC 1.1.1.22
Campylobacter rectus	VBICamRec32822_2002	UDP-glucose dehydrogenase EC 1.1.1.22
Campylobacter rectus	VBICamRec32822_2174	UDP-glucose dehydrogenase EC 1.1.1.22
Campylobacter rectus	VBICamRec32822_2266	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Campylobacter rectus	VBICamRec32822_0177	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Campylobacter rectus	VBICamRec32822_1066	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Campylobacter rectus	VBICamRec32822_1374	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Campylobacter rectus	VBICamRec32822_1976	Vitamin B12 ABC transporter 2C permease component BtuC
Campylobacter rectus	VBICamRec32822_2731	Zinc ABC transporter 2C ATP-binding protein ZnuC
Campylobacter showae	VBICamSho45867_0149	2-keto-3-deoxy-D-arabino-heptulosonate-7- phosphate synthase II EC 2.5.1.54
Campylobacter showae	VBICamSho45867_1696	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Campylobacter showae	VBICamSho45867_0031	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-
Campylobacter showae	VBICamSho45867_1877	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-
Campylobacter showae	VBICamSho45867_0989	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Campylobacter showae	VBICamSho45867_1938	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Campylobacter showae	VBICamSho45867_2038	3-oxoacyl-ACP reductase EC 1.1.1.100
Campylobacter showae	VBICamSho45867_1480	3-oxoacyl-ACP reductase EC 1.1.1.100
Campylobacter showae	VBICamSho45867_1475	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
Campylobacter showae	VBICamSho45867_2041	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
Campylobacter showae	VBICamSho45867_2050	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Campylobacter showae	VBICamSho45867_0544	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Campylobacter showae	VBICamSho45867_1169	ABC transporter
Campylobacter showae	VBICamSho45867_2052	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Campylobacter showae	VBICamSho45867_1392	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Campylobacter showae	VBICamSho45867_0725	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Campylobacter showae	VBICamSho45867_1388	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Campylobacter showae	VBICamSho45867_1605	Alkaline phosphatase EC 3.1.3.1
Campylobacter showae	VBICamSho45867_1523	Alkaline phosphatase EC 3.1.3.1
Campylobacter showae	VBICamSho45867_1487	Alkaline phosphatase EC 3.1.3.1
Campylobacter showae	VBICamSho45867_1492	Alkaline phosphatase EC 3.1.3.1
Campylobacter showae	VBICamSho45867_2069	Alkyl hydroperoxide reductase subunit C-like protein
Campylobacter showae	VBICamSho45867_0547	Alpha-1 2C3-N-acetylgalactosamine transferase PglA EC 2.4.1.-
Campylobacter showae	VBICamSho45867_0579	Alpha-1 2C4-N-acetylgalactosamine transferase PglJ EC 2.4.1.-
Campylobacter showae	VBICamSho45867_2037	Amino-acid ABC transporter ATP-binding protein
Campylobacter showae	VBICamSho45867_2098	Anthranilate synthase 2C aminase component EC 4.1.3.27
Campylobacter showae	VBICamSho45867_2046	Aspartate 1-decarboxylase EC 4.1.1.11
Campylobacter showae	VBICamSho45867_2137	ATP synthase beta chain EC 3.6.3.14
Campylobacter showae	VBICamSho45867_0832	ATP-dependent Clp protease ATP-binding subunit ClpA
Campylobacter showae	VBICamSho45867_2032	ATP-dependent Clp protease ATP-binding subunit ClpA
Campylobacter showae	VBICamSho45867_2030	ATP-dependent Clp protease ATP-binding subunit ClpA
Campylobacter showae	VBICamSho45867_0854	ATP-dependent Clp protease ATP-binding subunit ClpA
Campylobacter showae	VBICamSho45867_0246	Cell division trigger factor EC 5.2.1.8
Campylobacter showae	VBICamSho45867_2057	Chemotaxis protein CheV EC 2.7.3.-
Campylobacter showae	VBICamSho45867_0502	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Campylobacter showae	VBICamSho45867_0370	ClpB protein
Campylobacter showae	VBICamSho45867_2227	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Campylobacter showae	VBICamSho45867_1351	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Campylobacter showae	VBICamSho45867_2034	DegT DnrJ EryC1 StrS aminotransferase
Campylobacter showae	VBICamSho45867_2062	Diaminopimelate decarboxylase EC 4.1.1.20
Campylobacter showae	VBICamSho45867_0634	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Campylobacter showae	VBICamSho45867_0196	Enolase EC 4.2.1.11
Campylobacter showae	VBICamSho45867_1332	Ferric iron ABC transporter 2C iron-binding protein
Campylobacter showae	VBICamSho45867_1328	Ferric iron ABC transporter 2C permease protein
Campylobacter showae	VBICamSho45867_0131	FIG00469919 hypothetical protein
Campylobacter showae	VBICamSho45867_0697	FIG00470343 hypothetical protein
Campylobacter showae	VBICamSho45867_1485	FIG00472602 hypothetical protein
Campylobacter showae	VBICamSho45867_1481	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Campylobacter showae	VBICamSho45867_2068	Flagellar assembly protein FliH
Campylobacter showae	VBICamSho45867_0819	Flagellar basal-body rod protein FlgB
Campylobacter showae	VBICamSho45867_2029	Flagellar basal-body rod protein FlgB
Campylobacter showae	VBICamSho45867_2028	Flagellar basal-body rod protein FlgC
Campylobacter showae	VBICamSho45867_0818	Flagellar basal-body rod protein FlgC
Campylobacter showae	VBICamSho45867_1323	Flagellar basal-body rod protein FlgF
Campylobacter showae	VBICamSho45867_1308	Flagellar basal-body rod protein FlgG
Campylobacter showae	VBICamSho45867_0958	Flagellar biosynthesis protein FlhA
Campylobacter showae	VBICamSho45867_2117	Flagellar biosynthesis protein FlhB
Campylobacter showae	VBICamSho45867_2170	Flagellar biosynthesis protein FlhF
Campylobacter showae	VBICamSho45867_1727	Flagellar biosynthesis protein FlhF

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Campylobacter showae	VBICamSho45867_1049	Flagellar biosynthesis protein FliL
Campylobacter showae	VBICamSho45867_0355	Flagellar biosynthesis protein FliP
Campylobacter showae	VBICamSho45867_1859	Flagellar biosynthesis protein FliQ
Campylobacter showae	VBICamSho45867_0997	Flagellar biosynthesis protein FliS
Campylobacter showae	VBICamSho45867_1047	Flagellar hook-associated protein FlgK
Campylobacter showae	VBICamSho45867_0158	Flagellar hook-associated protein FlgL
Campylobacter showae	VBICamSho45867_2025	Flagellar hook-basal body complex protein FliE
Campylobacter showae	VBICamSho45867_1802	Flagellar L-ring protein FlgH
Campylobacter showae	VBICamSho45867_2063	Flagellar M-ring protein FliF
Campylobacter showae	VBICamSho45867_2064	Flagellar motor switch protein FliG
Campylobacter showae	VBICamSho45867_1707	Flagellar motor switch protein FliM
Campylobacter showae	VBICamSho45867_2194	Flagellar motor switch protein FliM
Campylobacter showae	VBICamSho45867_2071	Flagellar motor switch protein FliN
Campylobacter showae	VBICamSho45867_2195	Flagellar motor switch protein FliN
Campylobacter showae	VBICamSho45867_1006	Flagellar P-ring protein FlgI
Campylobacter showae	VBICamSho45867_2183	Flagellar synthesis regulator FleN
Campylobacter showae	VBICamSho45867_1395	Flagellin
Campylobacter showae	VBICamSho45867_1483	Flagellin C
Campylobacter showae	VBICamSho45867_0219	Flagellum-specific ATP synthase FliI
Campylobacter showae	VBICamSho45867_0043	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Campylobacter showae	VBICamSho45867_1860	Glutamine synthetase type I EC 6.3.1.2
Campylobacter showae	VBICamSho45867_0160	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Campylobacter showae	VBICamSho45867_2201	hypothetical protein
Campylobacter showae	VBICamSho45867_0699	hypothetical protein
Campylobacter showae	VBICamSho45867_0698	hypothetical protein
Campylobacter showae	VBICamSho45867_0058	hypothetical protein
Campylobacter showae	VBICamSho45867_1000	hypothetical protein
Campylobacter showae	VBICamSho45867_1622	lcmF-related protein
Campylobacter showae	VBICamSho45867_0503	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Campylobacter showae	VBICamSho45867_0905	Iron (III) ABC transporter 2C ATP-binding protein
Campylobacter showae	VBICamSho45867_0680	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Campylobacter showae	VBICamSho45867_1733	Lipid A export ATP-binding permease protein MsbA
Campylobacter showae	VBICamSho45867_2053	Lipid-A-disaccharide synthase EC 2.4.1.182
Campylobacter showae	VBICamSho45867_1305	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Campylobacter showae	VBICamSho45867_2255	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Campylobacter showae	VBICamSho45867_0651	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Campylobacter showae	VBICamSho45867_0694	Lipopolysaccharide heptosyltransferase III EC 2.4.1.-
Campylobacter showae	VBICamSho45867_0706	Lipopolysaccharide heptosyltransferase III EC 2.4.1.-
Campylobacter showae	VBICamSho45867_0353	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Campylobacter showae	VBICamSho45867_0193	Macrolide export ATP-binding permease protein MacB EC 3.6.3.-
Campylobacter showae	VBICamSho45867_2044	Magnesium and cobalt efflux protein CorC
Campylobacter showae	VBICamSho45867_1082	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Campylobacter showae	VBICamSho45867_1438	Motility accessory factor
Campylobacter showae	VBICamSho45867_1294	MSHA biogenesis protein MshL
Campylobacter showae	VBICamSho45867_0531	N-linked glycosylation glycosyltransferase PglG
Campylobacter showae	VBICamSho45867_0549	Oligosaccharyltransferase PglB EC 2.4.1.119
Campylobacter showae	VBICamSho45867_0548	Oligosaccharyltransferase PglB EC 2.4.1.119
Campylobacter showae	VBICamSho45867_2230	Ornithine carbamoyltransferase EC 2.1.3.3
Campylobacter showae	VBICamSho45867_2169	Outer membrane protein assembly factor YaeT precursor
Campylobacter showae	VBICamSho45867_1886	Paralysed flagella protein PflA
Campylobacter showae	VBICamSho45867_0023	Paralysed flagella protein PflA
Campylobacter showae	VBICamSho45867_2070	Phosphate regulon transcriptional regulatory protein PhoB SphR
Campylobacter showae	VBICamSho45867_1393	Phosphoheptose isomerase 1 EC 5.3.1.-
Campylobacter showae	VBICamSho45867_0426	Phospholipid-lipopolysaccharide ABC transporter
Campylobacter showae	VBICamSho45867_1057	Phosphomannomutase EC 5.4.2.8 Phosphoglucomutase EC 5.4.2.2 Phosphoglucosamine mutase EC 5.4.2.10
Campylobacter showae	VBICamSho45867_0695	Polysaccharide deacetylase
Campylobacter showae	VBICamSho45867_1486	Porphobilinogen deaminase EC 2.5.1.61
Campylobacter showae	VBICamSho45867_2036	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Campylobacter showae	VBICamSho45867_0802	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Campylobacter showae	VBICamSho45867_1662	Protein ImpG VasA
Campylobacter showae	VBICamSho45867_1440	Pseudaminic acid synthase EC 4.1.3.-
Campylobacter showae	VBICamSho45867_0145	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22
Campylobacter showae	VBICamSho45867_1918	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22
Campylobacter showae	VBICamSho45867_2184	RNA polymerase sigma factor for flagellar operon
Campylobacter showae	VBICamSho45867_1714	RNA polymerase sigma factor for flagellar operon
Campylobacter showae	VBICamSho45867_1325	RNA polymerase sigma factor RpoD
Campylobacter showae	VBICamSho45867_1929	Rrf2 family transcriptional regulator
Campylobacter showae	VBICamSho45867_0858	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Campylobacter showae	VBICamSho45867_1334	Selenocysteine-specific translation elongation factor
Campylobacter showae	VBICamSho45867_2035	Serine acetyltransferase EC 2.3.1.30
Campylobacter showae	VBICamSho45867_0787	Signal-transduction regulatory protein FlgR
Campylobacter showae	VBICamSho45867_0159	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1
Campylobacter showae	VBICamSho45867_0141	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Campylobacter showae	VBICamSho45867_1188	Type I secretion system ATPase
Campylobacter showae	VBICamSho45867_1248	Type II secretion system protein
Campylobacter showae	VBICamSho45867_1293	Type II secretory pathway 2C ATPase PuIE Tfp pilus assembly pathway 2C ATPase PilB
Campylobacter showae	VBICamSho45867_0096	Type IV secretion competence protein VirB10
Campylobacter showae	VBICamSho45867_0584	UDP-2-acetamido-2-deoxy-D-glucose dehydrogenase NAD+
Campylobacter showae	VBICamSho45867_1833	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-

Campylobacter showae	VBICamSho45867_1936	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
Campylobacter showae	VBICamSho45867_0983	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
Campylobacter showae	VBICamSho45867_2009	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Campylobacter showae	VBICamSho45867_0991	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Campylobacter showae	VBICamSho45867_1473	UDP-GlcNAc-specific C4 2C6 dehydratase C5 epimerase PseB 2C first step of pseudaminic acid biosynthesis
Campylobacter showae	VBICamSho45867_0596	UDP-glucose 4-epimerase EC 5.1.3.2
Campylobacter showae	VBICamSho45867_0589	UDP-glucose dehydrogenase EC 1.1.1.22
Campylobacter showae	VBICamSho45867_0723	UDP-glucoseheptosyl LPS alpha1 2C3-glucosyltransferase WaaG EC 2.4.1.-
Campylobacter showae	VBICamSho45867_0534	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Campylobacter showae	VBICamSho45867_1665	Uncharacterized protein ImpC
Campylobacter showae	VBICamSho45867_2238	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Campylobacter showae	VBICamSho45867_1734	VgrG protein
Campylobacter showae	VBICamSho45867_0867	Vitamin B12 ABC transporter 2C permease component BtuC
Campylobacter showae	VBICamSho45867_0162	YBTP PROTEIN
candidate division TM7	VBICanDiv80122_0431	Type IV fimbrial assembly ATPase PilB
candidate division TM7	VBICanDiv80122_0399	Heat shock protein 60 family chaperone GroEL
candidate division TM7	VBICanDiv33328_0082	dTDP-4-dehydrorhamnose 3 5-epimerase (EC 5.1.3.13) / dTDP-4-dehydrorhamnose reductase (EC 1.1.1.133)
candidate division TM7	VBICanDiv80122_0262	4-keto-6-deoxy-N-Acetyl-D-hexosaminy-(Lipid carrier) aminotransferase
candidate division TM7	VBICanDiv80122_0370	ABC transporter ATP-binding protein
candidate division TM7	VBICanDiv80122_0288	hypothetical protein
candidate division TM7	VBICanDiv80122_0280	Ornithine carbamoyltransferase (EC 2.1.3.3)
candidate division TM7	VBICanDiv80122_0430	Type IV fimbrial assembly protein PilC
candidate division TM7	VBICanDiv80122_0319	O-antigen export system permease protein RfbD
candidate division TM7	VBICanDiv80122_0318	Teichoic acid export ATP-binding protein TagH (EC 3.6.3.40)
candidate division TM7	VBICanDiv33328_0040	dTDP-glucose 4 6-dehydratase (EC 4.2.1.46)
candidate division TM7	VBICanDiv80122_0134	dTDP-glucose 4 6-dehydratase (EC 4.2.1.46)
Capnocytophaga gingivalis	VBICapGin14773_1145	2-keto-3-deoxy-D-arabino-heptulosonate-7- phosphate synthase II EC 2.5.1.54
Capnocytophaga gingivalis	VBICapGin14773_2283	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Capnocytophaga gingivalis	VBICapGin14773_1325	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Capnocytophaga gingivalis	VBICapGin14773_1323	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Capnocytophaga gingivalis	VBICapGin14773_2345	4-amino-6-deoxy-N-Acetyl-D-hexosaminy-(Lipid carrier) acetyltransferase
Capnocytophaga gingivalis	VBICapGin14773_2337	4-keto-6-deoxy-N-Acetyl-D-hexosaminy-(Lipid carrier) aminotransferase
Capnocytophaga gingivalis	VBICapGin14773_1683	ABC transporter 2C ATP-binding protein
Capnocytophaga gingivalis	VBICapGin14773_2395	Alpha-1 2C3-N-acetylgalactosamine transferase PglA EC 2.4.1.-
Capnocytophaga gingivalis	VBICapGin14773_1851	Aspartate racemase EC 5.1.1.13
Capnocytophaga gingivalis	VBICapGin14773_1362	C4 aminotransferase specific for PseB product PseC 2C second step of pseudaminic acid biosynthesis
Capnocytophaga gingivalis	VBICapGin14773_1986	Campylobacter invasion antigen B CiaB
Capnocytophaga gingivalis	VBICapGin14773_2224	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Capnocytophaga gingivalis	VBICapGin14773_2334	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Capnocytophaga gingivalis	VBICapGin14773_0042	ClpB protein
Capnocytophaga gingivalis	VBICapGin14773_0312	Ferric iron ABC transporter 2C permease protein
Capnocytophaga gingivalis	VBICapGin14773_1586	Ferrichrome-iron receptor
Capnocytophaga gingivalis	VBICapGin14773_1220	Flagellar biosynthesis protein FliL
Capnocytophaga gingivalis	VBICapGin14773_0157	Flagellar biosynthesis protein FliP
Capnocytophaga gingivalis	VBICapGin14773_0776	Flagellar biosynthesis protein FliS
Capnocytophaga gingivalis	VBICapGin14773_1137	Flagellar hook-associated protein FlgK
Capnocytophaga gingivalis	VBICapGin14773_0228	Flagellar motor rotation protein MotA
Capnocytophaga gingivalis	VBICapGin14773_1069	Flagellar P-ring protein FlgI
Capnocytophaga gingivalis	VBICapGin14773_0950	Flagellin protein FlaG
Capnocytophaga gingivalis	VBICapGin14773_2082	Flagellum-specific ATP synthase FliI
Capnocytophaga gingivalis	VBICapGin14773_0570	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Capnocytophaga gingivalis	VBICapGin14773_0748	Glutamyl-tRNA reductase EC 1.2.1.70
Capnocytophaga gingivalis	VBICapGin14773_0530	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Capnocytophaga gingivalis	VBICapGin14773_0740	HtrA protease chaperone protein Serine protease Protease DO EC 3.4.21.-
Capnocytophaga gingivalis	VBICapGin14773_1482	hypothetical protein
Capnocytophaga gingivalis	VBICapGin14773_1570	hypothetical protein
Capnocytophaga gingivalis	VBICapGin14773_2239	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Capnocytophaga gingivalis	VBICapGin14773_2057	Iron (III) ABC transporter 2C ATP-binding protein
Capnocytophaga gingivalis	VBICapGin14773_2237	Lipid A export ATP-binding permease protein MsbA
Capnocytophaga gingivalis	VBICapGin14773_2058	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Capnocytophaga gingivalis	VBICapGin14773_2264	Major outer membrane protein
Capnocytophaga gingivalis	VBICapGin14773_2273	Major outer membrane protein
Capnocytophaga gingivalis	VBICapGin14773_1292	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Capnocytophaga gingivalis	VBICapGin14773_0054	Methionine ABC transporter ATP-binding protein
Capnocytophaga gingivalis	VBICapGin14773_1796	Molybdenum transport ATP-binding protein ModC TC 3.A.1.8.1
Capnocytophaga gingivalis	VBICapGin14773_1401	Motility accessory factor
Capnocytophaga gingivalis	VBICapGin14773_2335	N-linked glycosylation glycosyltransferase PglG
Capnocytophaga gingivalis	VBICapGin14773_1845	Outer membrane fibronectin-binding protein
Capnocytophaga gingivalis	VBICapGin14773_2134	Phosphoglucosamine mutase EC 5.4.2.10 Phosphomannomutase EC 5.4.2.8
Capnocytophaga gingivalis	VBICapGin14773_0050	Phospholipid-lipopolysaccharide ABC transporter
Capnocytophaga gingivalis	VBICapGin14773_1252	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Capnocytophaga gingivalis	VBICapGin14773_0762	Porphobilinogen deaminase EC 2.5.1.61
Capnocytophaga gingivalis	VBICapGin14773_1782	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Capnocytophaga gingivalis	VBICapGin14773_1376	Pseudaminic acid synthase EC 4.1.3.-
Capnocytophaga gingivalis	VBICapGin14773_0460	Putative glutamine transport ATP-binding protein
Capnocytophaga gingivalis	VBICapGin14773_0069	Putative OMR family iron-siderophore receptor precursor
Capnocytophaga gingivalis	VBICapGin14773_0644	Putative two-component regulator
Capnocytophaga gingivalis	VBICapGin14773_1967	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Capnocytophaga gingivalis	VBICapGin14773_1601	Selenocysteine-specific translation elongation factor
Capnocytophaga gingivalis	VBICapGin14773_1143	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1

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Capnocytophaga gingivalis	VBICapGin14773_1404	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Capnocytophaga gingivalis	VBICapGin14773_0438	Twitching motility protein PilT
Capnocytophaga gingivalis	VBICapGin14773_1351	UDP-GlcNAc-specific C4 2C6 dehydratase C5 epimerase PseB 2C first step of pseudaminic acid biosynthesis
Capnocytophaga gingivalis	VBICapGin14773_1438	UDP-glucose 4-epimerase EC 5.1.3.2
Capnocytophaga gingivalis	VBICapGin14773_2336	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Capnocytophaga gingivalis	VBICapGin14773_0270	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Capnocytophaga gingivalis	VBICapGin14773_1301	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Capnocytophaga gingivalis	VBICapGin14773_2045	Vitamin B12 ABC transporter 2C permease component BtuC
Capnocytophaga gingivalis	VBICapGin14773_2099	Zinc ABC transporter 2C ATP-binding protein ZnuC
Capnocytophaga gingivalis	VBICapGin14773_2129	Zinc ABC transporter 2C inner membrane permease protein ZnuB
Capnocytophaga ochracea	VBICapOch61160_1645	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Capnocytophaga ochracea	VBICapOch61160_0407	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Capnocytophaga ochracea	VBICapOch61160_1466	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Capnocytophaga ochracea	VBICapOch61160_0700	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Capnocytophaga ochracea	VBICapOch61160_2039	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Capnocytophaga ochracea	VBICapOch61160_0268	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Capnocytophaga ochracea	VBICapOch61160_0661	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Capnocytophaga ochracea	VBICapOch61160_1470	8-amino-7-oxononanoate synthase EC 2.3.1.47
Capnocytophaga ochracea	VBICapOch61160_2036	ABC transporter 2C ATP-binding permease protein
Capnocytophaga ochracea	VBICapOch61160_0376	ABC transporter 2C ATP-binding protein
Capnocytophaga ochracea	VBICapOch61160_1296	ABC-type multidrug transport system 2C ATPase component
Capnocytophaga ochracea	VBICapOch61160_1722	ABC-type transporter ATP-binding protein
Capnocytophaga ochracea	VBICapOch61160_1479	Acetoacetyl-CoA synthetase EC 6.2.1.16 Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Capnocytophaga ochracea	VBICapOch61160_0689	Acyl carrier protein
Capnocytophaga ochracea	VBICapOch165883_1099	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Capnocytophaga ochracea	VBICapOch165883_1228	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Capnocytophaga ochracea	VBICapOch165883_0130	Alpha-1 2C4-N-acetylgalactosamine transferase PglH EC 2.4.1.-
Capnocytophaga ochracea	VBICapOch165883_0053	Alpha-1 2C4-N-acetylgalactosamine transferase PglJ EC 2.4.1.-
Capnocytophaga ochracea	VBICapOch61160_1334	Anthranilate synthase 2C amidotransferase component EC 4.1.3.27 Anthranilate phosphoribosyltransferase
Capnocytophaga ochracea	VBICapOch165883_2006	Arabinose 5-phosphate isomerase EC 5.3.1.13
Capnocytophaga ochracea	VBICapOch61160_1427	Arabinose 5-phosphate isomerase EC 5.3.1.13
Capnocytophaga ochracea	VBICapOch61160_0685	Aspartate 1-decarboxylase EC 4.1.1.11
Capnocytophaga ochracea	VBICapOch61160_0109	ATP synthase alpha chain EC 3.6.3.14
Capnocytophaga ochracea	VBICapOch61160_1458	ATP synthase alpha chain EC 3.6.3.14
Capnocytophaga ochracea	VBICapOch61160_1179	ATP synthase beta chain EC 3.6.3.14
Capnocytophaga ochracea	VBICapOch61160_0108	ATP synthase beta chain EC 3.6.3.14
Capnocytophaga ochracea	VBICapOch61160_0956	ATP-dependent Clp protease ATP-binding subunit ClpA
Capnocytophaga ochracea	VBICapOch61160_1183	Capsule biosynthesis protein capA
Capnocytophaga ochracea	VBICapOch61160_0429	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Capnocytophaga ochracea	VBICapOch61160_1253	ClpB protein
Capnocytophaga ochracea	VBICapOch165883_1405	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Capnocytophaga ochracea	VBICapOch61160_1754	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Capnocytophaga ochracea	VBICapOch61160_1755	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Capnocytophaga ochracea	VBICapOch61160_1778	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Capnocytophaga ochracea	VBICapOch165883_0443	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Capnocytophaga ochracea	VBICapOch61160_1197	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Capnocytophaga ochracea	VBICapOch61160_0072	FIG00471093 hypothetical protein
Capnocytophaga ochracea	VBICapOch61160_0007	FIG00471093 hypothetical protein
Capnocytophaga ochracea	VBICapOch165883_2172	FIG00471093 hypothetical protein
Capnocytophaga ochracea	VBICapOch61160_0095	FIG00471093 hypothetical protein
Capnocytophaga ochracea	VBICapOch165883_1449	Flagellar basal-body rod modification protein FlgD
Capnocytophaga ochracea	VBICapOch165883_1446	Flagellar biosynthesis protein FlhR
Capnocytophaga ochracea	VBICapOch165883_1451	Flagellar hook protein FlgE
Capnocytophaga ochracea	VBICapOch165883_1820	Flagellar hook subunit protein
Capnocytophaga ochracea	VBICapOch61160_1195	Gamma-glutamyltranspeptidase EC 2.3.2.2
Capnocytophaga ochracea	VBICapOch61160_1737	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Capnocytophaga ochracea	VBICapOch61160_0449	Glucose-6-phosphate isomerase EC 5.3.1.9
Capnocytophaga ochracea	VBICapOch61160_0547	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Capnocytophaga ochracea	VBICapOch61160_1310	Glycosyl transferase 2C group 2 family protein
Capnocytophaga ochracea	VBICapOch165883_0055	Glycosyl transferase 2Cgroup 2 family 2C anthrose biosynthesis
Capnocytophaga ochracea	VBICapOch61160_1992	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Capnocytophaga ochracea	VBICapOch61160_0174	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Capnocytophaga ochracea	VBICapOch61160_0228	Heat shock protein 60 family chaperone GroEL
Capnocytophaga ochracea	VBICapOch61160_0698	Hemolysins and related proteins containing CBS domains
Capnocytophaga ochracea	VBICapOch61160_0306	hypothetical protein
Capnocytophaga ochracea	VBICapOch61160_2112	hypothetical protein
Capnocytophaga ochracea	VBICapOch61160_2118	hypothetical protein
Capnocytophaga ochracea	VBICapOch61160_0331	hypothetical protein
Capnocytophaga ochracea	VBICapOch61160_0366	hypothetical protein
Capnocytophaga ochracea	VBICapOch61160_0701	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Capnocytophaga ochracea	VBICapOch165883_1837	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Capnocytophaga ochracea	VBICapOch165883_1551	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Capnocytophaga ochracea	VBICapOch165883_1540	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Capnocytophaga ochracea	VBICapOch61160_0801	Lipid A export ATP-binding permease protein MsbA
Capnocytophaga ochracea	VBICapOch61160_1835	Lipid-A-disaccharide synthase EC 2.4.1.182
Capnocytophaga ochracea	VBICapOch165883_0552	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Capnocytophaga ochracea	VBICapOch165883_0657	Lipopolysaccharide heptosyltransferase III EC 2.4.1.-
Capnocytophaga ochracea	VBICapOch165883_0820	Lipopolysaccharide heptosyltransferase III EC 2.4.1.-
Capnocytophaga ochracea	VBICapOch61160_1483	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39

Table S8

Capnocytophaga ochracea	VBICapOch61160_0296	Manganese superoxide dismutase EC 1.15.1.1
Capnocytophaga ochracea	VBICapOch61160_0703	Mannose-6-phosphate isomerase EC 5.3.1.8
Capnocytophaga ochracea	VBICapOch61160_1091	Mannosyltransferase EC 2.4.1.-
Capnocytophaga ochracea	VBICapOch61160_1640	N-acetylglucosamine deacetylase EC 3.5.1.- 3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Capnocytophaga ochracea	VBICapOch61160_0706	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Capnocytophaga ochracea	VBICapOch165883_1418	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Capnocytophaga ochracea	VBICapOch165883_0039	Oligosaccharyltransferase PglB EC 2.4.1.119
Capnocytophaga ochracea	VBICapOch165883_1410	Pantoate--beta-alanine ligase EC 6.3.2.1
Capnocytophaga ochracea	VBICapOch61160_1807	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Capnocytophaga ochracea	VBICapOch61160_1434	Pleiotropic regulatory protein
Capnocytophaga ochracea	VBICapOch165883_0714	Polysaccharide deacetylase
Capnocytophaga ochracea	VBICapOch61160_1058	Porphobilinogen deaminase EC 2.5.1.61
Capnocytophaga ochracea	VBICapOch61160_0756	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Capnocytophaga ochracea	VBICapOch165883_1596	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Capnocytophaga ochracea	VBICapOch61160_1090	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Capnocytophaga ochracea	VBICapOch61160_1088	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Capnocytophaga ochracea	VBICapOch61160_0699	putative ABC transporter ATP-binding protein
Capnocytophaga ochracea	VBICapOch165883_0561	Putative two-domain glycosyltransferase
Capnocytophaga ochracea	VBICapOch61160_1432	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Capnocytophaga ochracea	VBICapOch61160_1220	Rab family protein
Capnocytophaga ochracea	VBICapOch61160_0704	RNA polymerase sigma factor RpoD
Capnocytophaga ochracea	VBICapOch61160_1844	RteB 2C two-component system response regulator
Capnocytophaga ochracea	VBICapOch61160_1856	Serine protease
Capnocytophaga ochracea	VBICapOch61160_0991	Serine protease
Capnocytophaga ochracea	VBICapOch61160_2019	Sialidase EC 3.2.1.18
Capnocytophaga ochracea	VBICapOch61160_2071	Sigma-54 dependent transcriptional regulator response regulator
Capnocytophaga ochracea	VBICapOch165883_1629	surface array protein
Capnocytophaga ochracea	VBICapOch61160_0694	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Capnocytophaga ochracea	VBICapOch61160_0100	TonB-dependent hemin 2C ferrichrome receptor
Capnocytophaga ochracea	VBICapOch61160_0899	Transcriptional regulatory protein rprY
Capnocytophaga ochracea	VBICapOch61160_0668	Translation elongation factor Tu
Capnocytophaga ochracea	VBICapOch165883_0165	UDP-2-acetamido-2-deoxy-D-glucose dehydrogenase NAD+
Capnocytophaga ochracea	VBICapOch61160_1503	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Capnocytophaga ochracea	VBICapOch61160_0202	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Capnocytophaga ochracea	VBICapOch165883_0406	UDP-glucose 4-epimerase EC 5.1.3.2
Capnocytophaga ochracea	VBICapOch61160_0176	UDP-glucose 4-epimerase EC 5.1.3.2
Capnocytophaga ochracea	VBICapOch61160_0828	UDP-glucose dehydrogenase EC 1.1.1.22
Capnocytophaga ochracea	VBICapOch61160_1690	UDP-glucose dehydrogenase EC 1.1.1.22
Capnocytophaga ochracea	VBICapOch165883_0966	UDP-glucoseheptosyl LPS alpha1 2C3-glucosyltransferase WaaG EC 2.4.1.-
Capnocytophaga ochracea	VBICapOch61160_1251	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Capnocytophaga ochracea	VBICapOch61160_0747	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Capnocytophaga ochracea	VBICapOch61160_1297	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Capnocytophaga sp. oral taxon 329	VBICapSp148453_5487	4-keto-6-deoxy-N-Acetyl-D-hexosaminyl-Lipid carrier aminotransferase
Capnocytophaga sp. oral taxon 329	VBICapSp148453_1083	Ferrous iron transport protein B
Capnocytophaga sp. oral taxon 329	VBICapSp148453_0062	hypothetical protein
Capnocytophaga sp. oral taxon 329	VBICapSp148453_0246	Manganese superoxide dismutase EC 1.15.1.1
Capnocytophaga sp. oral taxon 329	VBICapSp148453_0248	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Capnocytophaga sp. oral taxon 329	VBICapSp148453_1337	Pleiotropic regulatory protein
Capnocytophaga sp. oral taxon 329	VBICapSp148453_1907	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Capnocytophaga sp. oral taxon 329	VBICapSp148453_2111	Similar to CDP-glucose 4 2C6-dehydratase EC 4.2.1.45
Capnocytophaga sp. oral taxon 329	VBICapSp148453_4936	UDP-glucose dehydrogenase EC 1.1.1.22
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0342	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0548	ABC transporter 2C ATP-binding permease protein
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1533	ABC transporter ATP-binding protein
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1631	ABC transporter ATP-binding protein
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0350	Aspartate 1-decarboxylase EC 4.1.1.11
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0345	ATP synthase alpha chain EC 3.6.3.14
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0098	ATP synthase beta chain EC 3.6.3.14
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0334	Calcium-transporting ATPase
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0975	Enolase EC 4.2.1.11
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0874	Glycosyltransferase
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1885	Glycosyltransferase EC 2.4.1.-
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0346	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0220	Hemolysins and related proteins containing CBS domains
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1256	hypothetical protein
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0348	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1400	Lipoprotein releasing system ATP-binding protein LolD
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1594	Manganese superoxide dismutase EC 1.15.1.1
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1606	Mannose-6-phosphate isomerase EC 5.3.1.8
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1864	Pleiotropic regulatory protein
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1457	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0470	putative ABC transporter ATP-binding protein
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1541	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Capnocytophaga sp. oral taxon 335	VBICapSp228426_1715	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0785	Sigma-54 dependent transcriptional regulator response regulator
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0672	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0323	Transcriptional regulator
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0792	Transcriptional regulatory protein rprY
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0312	Two-component system sensor histidine kinase response regulator 2C hybrid

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Capnocytophaga sp. oral taxon 335	VBICapSp228426_0147	UDP-glucose 4-epimerase EC 5.1.3.2
Capnocytophaga sp. oral taxon 335	VBICapSp228426_2103	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Capnocytophaga sp. oral taxon 335	VBICapSp228426_0349	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Capnocytophaga sp. oral taxon 338	VBICapSp172314_1188	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Capnocytophaga sp. oral taxon 338	VBICapSp172314_1645	Alkyl hydroperoxide reductase subunit C-like protein
Capnocytophaga sp. oral taxon 338	VBICapSp172314_0770	CDP-4-dehydro-6-deoxy-D-glucose 3-dehydratase EC 4.2.1.-
Capnocytophaga sp. oral taxon 338	VBICapSp172314_0996	CDP-6-deoxy-delta-3 2C4-glucoseen reductase-like
Capnocytophaga sp. oral taxon 338	VBICapSp172314_0730	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Capnocytophaga sp. oral taxon 338	VBICapSp172314_1333	Ferrous iron transport protein B
Capnocytophaga sp. oral taxon 338	VBICapSp172314_0953	Glucose-1-phosphate cytidyltransferase EC 2.7.7.33
Capnocytophaga sp. oral taxon 338	VBICapSp172314_1248	Lipid carrier UDP-N-acetylgalactosaminyLtransferase EC 2.4.1.-
Capnocytophaga sp. oral taxon 338	VBICapSp172314_0771	Similar to CDP-glucose 4 2C6-dehydratase EC 4.2.1.45
Capnocytophaga sp. oral taxon 338	VBICapSp172314_1126	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1525	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0673	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0099	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0532	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0299	ABC transporter 2C ATP-binding protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1428	ABC transporter 2C ATP-binding protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1007	ABC transporter 2C transmembrane regionABC transporter
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1334	Acetoacetyl-CoA synthetase EC 6.2.1.16 Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0407	Acyl carrier protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0969	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1848	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0755	Arabinose 5-phosphate isomerase EC 5.3.1.13
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0789	ATP synthase alpha chain EC 3.6.3.14
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1880	ATP-dependent Clp protease ATP-binding subunit ClpA
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0341	Calcium-transporting ATPase
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0751	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1862	ClpB protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1794	Diaminopimelate decarboxylase EC 4.1.1.20
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0555	DNA-binding response regulator
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0187	DNA-binding response regulator 2C AraC family
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0363	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0293	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1879	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0750	Export ABC transporter ATP-binding protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0546	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0195	Ferrous iron transport protein B
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1665	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0061	Glucose-6-phosphate isomerase EC 5.3.1.9
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0568	Glutamyl-tRNA reductase EC 1.2.1.70
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0384	Hemolysins and related proteins containing CBS domains
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0182	Hemolysins and related proteins containing CBS domains
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1094	histidine kinase EC2.7.13.3
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1285	hypothetical protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1247	hypothetical protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1246	hypothetical protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1287	hypothetical protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1274	hypothetical protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1223	hypothetical protein
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1039	Isochorismate synthase EC 5.4.4.2
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1910	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1306	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1987	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0608	Methionyl-tRNA formyltransferase EC 2.1.2.9
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0666	Ornithine aminotransferase EC 2.6.1.13
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0726	Pantoate--beta-alanine ligase EC 6.3.2.1
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1196	Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1883	Phosphoglucomutase EC 5.4.2.2
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1549	Phosphoglucomutase EC 5.4.2.2
Capnocytophaga sp. oral taxon 412	VBICapSp238772_2142	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0897	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0559	Porphobilinogen deaminase EC 2.5.1.61
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0364	Porphobilinogen synthase EC 4.2.1.24
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1804	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0601	RteB 2C two-component system response regulator
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1595	Serine protease
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1876	Serine protease
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1840	Superoxide dismutase Fe EC 1.15.1.1
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1084	TonB-dependent receptor
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0289	Transcriptional regulator
Capnocytophaga sp. oral taxon 412	VBICapSp238772_2109	UDP-galactopyranose mutase EC 5.4.99.9
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0160	UDP-glucose 4-epimerase EC 5.1.3.2
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0275	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0250	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0551	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Capnocytophaga sp. oral taxon 412	VBICapSp238772_1874	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Capnocytophaga sp. oral taxon 412	VBICapSp238772_0257	WbjC

Table S8

Capnocytophaga sputigena	VBICapSpu114331_0821	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Capnocytophaga sputigena	VBICapSpu114331_2321	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Capnocytophaga sputigena	VBICapSpu114331_0096	ABC transporter 2C ATP-binding permease protein
Capnocytophaga sputigena	VBICapSpu114331_1302	Alkyl hydroperoxide reductase subunit C-like protein
Capnocytophaga sputigena	VBICapSpu114331_1460	GDP-mannose 4 2C6-dehydratase EC 4.2.1.47
Capnocytophaga sputigena	VBICapSpu114331_1868	Glucose-1-phosphate cytidyltransferase EC 2.7.7.33
Capnocytophaga sputigena	VBICapSpu114331_0160	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Capnocytophaga sputigena	VBICapSpu114331_0636	HtrA protease chaperone protein
Capnocytophaga sputigena	VBICapSpu114331_0958	Isochorismate synthase EC 5.4.4.2
Capnocytophaga sputigena	VBICapSpu114331_1435	Membrane-associated zinc metalloprotease
Capnocytophaga sputigena	VBICapSpu114331_0717	Phosphoglucomutase EC 5.4.2.2
Capnocytophaga sputigena	VBICapSpu114331_1455	Pleiotropic regulatory protein
Capnocytophaga sputigena	VBICapSpu114331_1504	Putative O-antigen synthesis protein 2C WbyH
Capnocytophaga sputigena	VBICapSpu114331_2517	Serine protease
Capnocytophaga sputigena	VBICapSpu114331_1521	Similar to CDP-glucose 4 2C6-dehydratase EC 4.2.1.45
Capnocytophaga sputigena	VBICapSpu114331_1163	Two-component system sensor histidine kinase response regulator 2C hybrid
Capnocytophaga sputigena	VBICapSpu114331_2018	UDP-glucose dehydrogenase EC 1.1.1.22
Capnocytophaga sputigena	VBICapSpu114331_2114	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Cardiobacterium hominis	VBICarHom6741_2218	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Cardiobacterium hominis	VBICarHom6741_0387	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Cardiobacterium hominis	VBICarHom6741_1269	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Cardiobacterium hominis	VBICarHom6741_0841	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Cardiobacterium hominis	VBICarHom6741_2100	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Cardiobacterium hominis	VBICarHom6741_0228	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Cardiobacterium hominis	VBICarHom6741_2031	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Cardiobacterium hominis	VBICarHom6741_1503	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Cardiobacterium hominis	VBICarHom6741_1959	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Cardiobacterium hominis	VBICarHom6741_2200	ABC transporter
Cardiobacterium hominis	VBICarHom6741_0225	ABC transporter 2C ATP-binding permease protein
Cardiobacterium hominis	VBICarHom6741_0734	ABC transporter 2C transmembrane regionABC transporter
Cardiobacterium hominis	VBICarHom6741_2193	ABC transporter 2C transmembrane regionABC transporter
Cardiobacterium hominis	VBICarHom6741_1437	ABC transporter ATP-binding protein
Cardiobacterium hominis	VBICarHom6741_1655	Acetoacetyl-CoA synthetase EC 6.2.1.16 Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Cardiobacterium hominis	VBICarHom6741_2314	Acetylmornithine aminotransferase EC 2.6.1.11 ACOAT
Cardiobacterium hominis	VBICarHom6741_0093	Acetylmornithine aminotransferase EC 2.6.1.11 ACOAT
Cardiobacterium hominis	VBICarHom6741_1524	Acetylmornithine aminotransferase EC 2.6.1.11 ACOAT
Cardiobacterium hominis	VBICarHom6741_0101	Acyl carrier protein
Cardiobacterium hominis	VBICarHom6741_1502	Acyl carrier protein
Cardiobacterium hominis	VBICarHom6741_1724	Alkyl hydroperoxide reductase subunit C-like protein
Cardiobacterium hominis	VBICarHom6741_0588	Arabinose 5-phosphate isomerase EC 5.3.1.13
Cardiobacterium hominis	VBICarHom6741_0458	Aspartate 1-decarboxylase EC 4.1.1.11
Cardiobacterium hominis	VBICarHom6741_0347	ATP synthase alpha chain EC 3.6.3.14
Cardiobacterium hominis	VBICarHom6741_1875	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Cardiobacterium hominis	VBICarHom6741_0033	Calcium-transporting ATPase
Cardiobacterium hominis	VBICarHom6741_0376	ClpB protein
Cardiobacterium hominis	VBICarHom6741_0585	ClpB protein
Cardiobacterium hominis	VBICarHom6741_1088	Diaminopimelate decarboxylase EC 4.1.1.20
Cardiobacterium hominis	VBICarHom6741_1490	DNA-binding response regulator 2C AraC family
Cardiobacterium hominis	VBICarHom6741_1352	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Cardiobacterium hominis	VBICarHom6741_1322	Enolase EC 4.2.1.11
Cardiobacterium hominis	VBICarHom6741_0054	Ferrous iron transport protein B
Cardiobacterium hominis	VBICarHom6741_1470	Ferrous iron transport protein B
Cardiobacterium hominis	VBICarHom6741_2156	Ferrous iron transport protein B
Cardiobacterium hominis	VBICarHom6741_2162	FIG00473249 hypothetical protein
Cardiobacterium hominis	VBICarHom6741_1049	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Cardiobacterium hominis	VBICarHom6741_1778	Glucose-6-phosphate isomerase EC 5.3.1.9
Cardiobacterium hominis	VBICarHom6741_1180	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Cardiobacterium hominis	VBICarHom6741_2332	Glutamyl-tRNA reductase EC 1.2.1.70
Cardiobacterium hominis	VBICarHom6741_1169	glycosyl transferase 2C family 2
Cardiobacterium hominis	VBICarHom6741_0238	glycosyl transferase 2C family 2
Cardiobacterium hominis	VBICarHom6741_0580	glycosyltransferase
Cardiobacterium hominis	VBICarHom6741_1151	glycosyltransferase family 4
Cardiobacterium hominis	VBICarHom6741_1115	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Cardiobacterium hominis	VBICarHom6741_0280	Hemolysins and related proteins containing CBS domains
Cardiobacterium hominis	VBICarHom6741_1131	Hemolysins and related proteins containing CBS domains
Cardiobacterium hominis	VBICarHom6741_2203	Hemolysins and related proteins containing CBS domains
Cardiobacterium hominis	VBICarHom6741_0402	histidine kinase EC2.7.13.3
Cardiobacterium hominis	VBICarHom6741_0154	hypothetical protein
Cardiobacterium hominis	VBICarHom6741_0129	hypothetical protein
Cardiobacterium hominis	VBICarHom6741_0135	hypothetical protein
Cardiobacterium hominis	VBICarHom6741_0127	hypothetical protein
Cardiobacterium hominis	VBICarHom6741_0441	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Cardiobacterium hominis	VBICarHom6741_0654	Isochorismate synthase EC 5.4.4.2
Cardiobacterium hominis	VBICarHom6741_1962	Lipid carrier UDP-N-acetylgalactosaminytransferase EC 2.4.1.-
Cardiobacterium hominis	VBICarHom6741_0079	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Cardiobacterium hominis	VBICarHom6741_2351	Manganese superoxide dismutase EC 1.15.1.1
Cardiobacterium hominis	VBICarHom6741_0386	Manganese superoxide dismutase EC 1.15.1.1
Cardiobacterium hominis	VBICarHom6741_1597	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Cardiobacterium hominis	VBICarHom6741_0345	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22

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Cardiobacterium hominis	VBICarHom6741_1537	Mannose-6-phosphate isomerase EC 5.3.1.8
Cardiobacterium hominis	VBICarHom6741_0397	Membrane-associated zinc metalloprotease
Cardiobacterium hominis	VBICarHom6741_0855	Methionine ABC transporter ATP-binding protein
Cardiobacterium hominis	VBICarHom6741_1031	Methionyl-tRNA formyltransferase EC 2.1.2.9
Cardiobacterium hominis	VBICarHom6741_0773	N-acetylglucosamine deacetylase EC 3.5.1.-
Cardiobacterium hominis	VBICarHom6741_1866	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Cardiobacterium hominis	VBICarHom6741_0495	N-acetylneuraminate synthase EC 2.5.1.56
Cardiobacterium hominis	VBICarHom6741_1313	Nucleoside 5-triphosphatase RdgB dHAPTP 2C dITP 2C XTP-specific EC 3.6.1.15
Cardiobacterium hominis	VBICarHom6741_2151	Oxidoreductase 2C short-chain dehydrogenase reductase family
Cardiobacterium hominis	VBICarHom6741_0583	Pantoate--beta-alanine ligase EC 6.3.2.1
Cardiobacterium hominis	VBICarHom6741_0080	Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Cardiobacterium hominis	VBICarHom6741_1531	Phosphatidate cytidyltransferase EC 2.7.7.41
Cardiobacterium hominis	VBICarHom6741_1622	Phosphatidate cytidyltransferase EC 2.7.7.41
Cardiobacterium hominis	VBICarHom6741_1740	Phosphoglucomutase EC 5.4.2.2
Cardiobacterium hominis	VBICarHom6741_2353	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Cardiobacterium hominis	VBICarHom6741_1843	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Cardiobacterium hominis	VBICarHom6741_0798	Pleiotropic regulatory protein
Cardiobacterium hominis	VBICarHom6741_2049	Porphobilinogen deaminase EC 2.5.1.61
Cardiobacterium hominis	VBICarHom6741_2242	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Cardiobacterium hominis	VBICarHom6741_2225	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Cardiobacterium hominis	VBICarHom6741_0473	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Cardiobacterium hominis	VBICarHom6741_1818	putative ABC transporter ATP-binding protein
Cardiobacterium hominis	VBICarHom6741_2254	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Cardiobacterium hominis	VBICarHom6741_1504	RNA polymerase sigma factor RpoD
Cardiobacterium hominis	VBICarHom6741_1046	RNA polymerase sigma factor RpoD
Cardiobacterium hominis	VBICarHom6741_1122	RteB 2C two-component system response regulator
Cardiobacterium hominis	VBICarHom6741_0552	Sialidase EC 3.2.1.18
Cardiobacterium hominis	VBICarHom6741_0213	Sigma-54 dependent transcriptional regulator response regulator
Cardiobacterium hominis	VBICarHom6741_0652	Sigma-54 dependent transcriptional regulator response regulator
Cardiobacterium hominis	VBICarHom6741_1418	TonB-dependent receptor
Cardiobacterium hominis	VBICarHom6741_0799	Transcriptional regulator
Cardiobacterium hominis	VBICarHom6741_1181	Transcriptional regulatory protein rprY
Cardiobacterium hominis	VBICarHom6741_1858	UDP-glucose 4-epimerase EC 5.1.3.2
Cardiobacterium hominis	VBICarHom6741_1877	UDP-glucose dehydrogenase EC 1.1.1.22
Cardiobacterium hominis	VBICarHom6741_2084	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Cardiobacterium hominis	VBICarHom6741_0451	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Cardiobacterium valvarum	VBICarVal163892_0357	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Cardiobacterium valvarum	VBICarVal163892_1264	1-acyl-sn-glycerol-3-phosphate acyltransferase EC 2.3.1.51
Cardiobacterium valvarum	VBICarVal163892_0355	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Cardiobacterium valvarum	VBICarVal163892_0906	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Cardiobacterium valvarum	VBICarVal163892_0939	ABC transporter related
Cardiobacterium valvarum	VBICarVal163892_1615	ABC-type polar amino acid transport system 2C ATPase component
Cardiobacterium valvarum	VBICarVal163892_0870	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Cardiobacterium valvarum	VBICarVal163892_0811	Alkaline phosphatase EC 3.1.3.1
Cardiobacterium valvarum	VBICarVal163892_1899	Alkaline protease secretion protein aprE
Cardiobacterium valvarum	VBICarVal163892_1880	Arabinose 5-phosphate isomerase EC 5.3.1.13
Cardiobacterium valvarum	VBICarVal163892_1352	ATP synthase beta chain EC 3.6.3.14
Cardiobacterium valvarum	VBICarVal163892_1230	Branched-chain amino acid transport ATP-binding protein LivG TC 3.A.1.4.1
Cardiobacterium valvarum	VBICarVal163892_0276	Enolase EC 4.2.1.11
Cardiobacterium valvarum	VBICarVal163892_0001	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Cardiobacterium valvarum	VBICarVal163892_1553	Gamma-glutamyltranspeptidase EC 2.3.2.2
Cardiobacterium valvarum	VBICarVal163892_1820	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Cardiobacterium valvarum	VBICarVal163892_0054	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Cardiobacterium valvarum	VBICarVal163892_0623	Hemolysins and related proteins containing CBS domains
Cardiobacterium valvarum	VBICarVal163892_0959	hypothetical protein
Cardiobacterium valvarum	VBICarVal163892_0788	Leader peptidase Prepilin peptidase EC 3.4.23.43 N-methyltransferase EC 2.1.1.-
Cardiobacterium valvarum	VBICarVal163892_1543	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Cardiobacterium valvarum	VBICarVal163892_0810	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Cardiobacterium valvarum	VBICarVal163892_2258	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Cardiobacterium valvarum	VBICarVal163892_0270	O-antigen export system 2C ATP-binding protein
Cardiobacterium valvarum	VBICarVal163892_0167	Petrobactin ABC transporter 2C permease protein II
Cardiobacterium valvarum	VBICarVal163892_0132	Phosphoglucosamine mutase EC 5.4.2.10
Cardiobacterium valvarum	VBICarVal163892_0968	Porphobilinogen deaminase EC 2.5.1.61
Cardiobacterium valvarum	VBICarVal163892_2256	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Cardiobacterium valvarum	VBICarVal163892_0421	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Cardiobacterium valvarum	VBICarVal163892_1216	twitching motility protein PilH
Cardiobacterium valvarum	VBICarVal163892_0515	two-component system 2C regulatory protein
Cardiobacterium valvarum	VBICarVal163892_0353	type IV pilus biogenesis protein PilJ
Catonella morbi	VBICatMor38740_1072	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Catonella morbi	VBICatMor38740_0399	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Catonella morbi	VBICatMor38740_0737	Anthranyl phosphate transferase EC 2.4.2.18
Catonella morbi	VBICatMor38740_0508	capsular polysaccharide biosynthesis protein
Catonella morbi	VBICatMor38740_1541	Glutamyl-tRNA reductase EC 1.2.1.70
Catonella morbi	VBICatMor38740_1677	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Catonella morbi	VBICatMor38740_1676	hypothetical protein
Catonella morbi	VBICatMor38740_0654	hypothetical protein
Catonella morbi	VBICatMor38740_0588	hypothetical protein
Catonella morbi	VBICatMor38740_1485	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
		Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
		Manganese ABC transporter 2C ATP-binding protein SitB

Catonella morbi	VBICatMor38740_1262	Manganese ABC transporter 2C inner membrane permease protein SitD
Catonella morbi	VBICatMor38740_1736	Nucleoside 5-triphosphatase RdgB dHAPTP 2C dITP 2C XTP-specific EC 3.6.1.15
Catonella morbi	VBICatMor38740_0984	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Catonella morbi	VBICatMor38740_1134	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Catonella morbi	VBICatMor38740_0795	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Catonella morbi	VBICatMor38740_0400	Radical SAM family enzyme 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent
Centipeda periodontii	VBICenPer171199_1181	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Centipeda periodontii	VBICenPer171199_2339	Arginine ornithine ABC transporter 2C ATP-binding protein AotP
Centipeda periodontii	VBICenPer171199_2231	Phosphonate ABC transporter ATP-binding protein TC 3.A.1.9.1
Centipeda periodontii	VBICenPer171199_1288	Two-component response regulator CreB
Chlamydomophila pneumoniae	VBIChlPne35719_1097	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Chlamydomophila pneumoniae	VBIChlPne35719_0103	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Chlamydomophila pneumoniae	VBIChlPne119813_0108	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Chlamydomophila pneumoniae	VBIChlPne35719_0095	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Chlamydomophila pneumoniae	VBIChlPne5522_0103	ABC transporter 2C transmembrane regionABC transporterPeptidase C39 2C bacteriocin processing
Chlamydomophila pneumoniae	VBIChlPne27823_1156	ABC-type bacteriocin lantibiotic exporters 2C contain an N-terminal double-glycine peptidase domain
Chlamydomophila pneumoniae	VBIChlPne35719_0915	ABC-type Fe3+-hydroxamate transport system 2C periplasmic component
Chlamydomophila pneumoniae	VBIChlPne119813_0101	ABC-type spermidine putrescine transport systems 2C ATPase components
Chlamydomophila pneumoniae	VBIChlPne119813_1123	amino acid ABC transporter 2C ATP-binding protein
Chlamydomophila pneumoniae	VBIChlPne27823_0184	Anthranilate synthase 2C aminase component EC 4.1.3.27
Chlamydomophila pneumoniae	VBIChlPne35719_0757	ATP synthase alpha chain EC 3.6.3.14
Chlamydomophila pneumoniae	VBIChlPne27823_0415	ATP-dependent Clp protease ATP-binding subunit ClpA
Chlamydomophila pneumoniae	VBIChlPne5522_0224	ATP-dependent Clp protease ATP-binding subunit ClpA
Chlamydomophila pneumoniae	VBIChlPne5522_0361	ATP-dependent Clp protease ATP-binding subunit ClpA
Chlamydomophila pneumoniae	VBIChlPne5522_0066	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Chlamydomophila pneumoniae	VBIChlPne35719_0063	Ferrichrome transport ATP-binding protein FhuC TC 3.A.1.14.3
Chlamydomophila pneumoniae	VBIChlPne27823_1067	Gamma-glutamyltranspeptidase EC 2.3.2.2
Chlamydomophila pneumoniae	VBIChlPne35719_1091	Glutamyl-tRNA reductase EC 1.2.1.70
Chlamydomophila pneumoniae	VBIChlPne35719_0144	Glycerol-3-phosphate transporter
Chlamydomophila pneumoniae	VBIChlPne119813_0694	Glycerol-3-phosphate transporter
Chlamydomophila pneumoniae	VBIChlPne5522_0087	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Chlamydomophila pneumoniae	VBIChlPne35719_0372	Histidine ABC transporter 2C permease protein HisQ TC 3.A.1.3.1
Chlamydomophila pneumoniae	VBIChlPne35719_1033	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Chlamydomophila pneumoniae	VBIChlPne119813_1100	IS629 ORF2
Chlamydomophila pneumoniae	VBIChlPne35719_0671	Lipid A export ATP-binding permease protein MsbA
Chlamydomophila pneumoniae	VBIChlPne27823_0090	Lipid A export ATP-binding permease protein MsbA
Chlamydomophila pneumoniae	VBIChlPne27823_1016	Lipid-A-disaccharide synthase EC 2.4.1.182
Chlamydomophila pneumoniae	VBIChlPne5522_1118	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Chlamydomophila pneumoniae	VBIChlPne119813_0890	Magnesium and cobalt efflux protein CorC
Chlamydomophila pneumoniae	VBIChlPne35719_0613	Manganese ABC transporter 2C periplasmic-binding protein SitA
Chlamydomophila pneumoniae	VBIChlPne119813_1058	Membrane-associated zinc metalloprotease
Chlamydomophila pneumoniae	VBIChlPne27823_0711	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Chlamydomophila pneumoniae	VBIChlPne119813_0151	Molybdate-binding domain of ModE
Chlamydomophila pneumoniae	VBIChlPne5522_0779	Ornithine carbamoyltransferase EC 2.1.3.3
Chlamydomophila pneumoniae	VBIChlPne35719_0810	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Chlamydomophila pneumoniae	VBIChlPne27823_0168	Polyphosphate kinase 2 EC 2.7.4.1
Chlamydomophila pneumoniae	VBIChlPne35719_0866	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Chlamydomophila pneumoniae	VBIChlPne27823_0549	Proposed peptidoglycan lipid II flippase MurJ
Chlamydomophila pneumoniae	VBIChlPne5522_0404	putative cytolysin secretion ABC transporter
Chlamydomophila pneumoniae	VBIChlPne5522_0110	Putative HlyD family secretion protein
Chlamydomophila pneumoniae	VBIChlPne119813_0102	RNA polymerase sigma factor RpoD
Chlamydomophila pneumoniae	VBIChlPne27823_0728	RNA polymerase sigma factor RpoH
Chlamydomophila pneumoniae	VBIChlPne119813_0064	TonB-dependent siderophore receptor
Chlamydomophila pneumoniae	VBIChlPne27823_0127	Transcriptional regulatory protein RtcR
Chlamydomophila pneumoniae	VBIChlPne27823_1082	Two-component sensor PilS
Chlamydomophila pneumoniae	VBIChlPne27823_0704	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Chlamydomophila pneumoniae	VBIChlPne27823_0652	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Chlamydomophila pneumoniae	VBIChlPne119813_0902	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Comamonas testosteroni	VBIComTes187647_0845	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Comamonas testosteroni	VBIComTes225622_0256	calcium binding hemolysin protein 2C putative
Comamonas testosteroni	VBIComTes187647_1346	Lipopolysaccharide core biosynthesis glycosyl transferase kdtX EC 2.-.-.-
Comamonas testosteroni	VBIComTes225622_1664	Transcriptional regulatory protein RtcR
Comamonas testosteroni	VBIComTes187647_1816	twitching motility protein PilG
Comamonas testosteroni	VBIComTes225622_0795	Twitching motility protein PilT
Corynebacterium diphtheriae	VBICorDip47633_1042	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Corynebacterium diphtheriae	VBICorDip47633_1154	Nitrogen assimilation regulatory protein NtrX
Corynebacterium diphtheriae	VBICorDip47633_0569	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Corynebacterium matruchotii	VBICorMat118582_1830	2 C3-dihydroxybenzoate-AMP ligase EC 2.7.7.58 bacillibactin siderophore
Corynebacterium matruchotii	VBICorMat102808_1306	2-component regulator
Corynebacterium matruchotii	VBICorMat102808_1419	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Corynebacterium matruchotii	VBICorMat102808_2200	3-methylmercaptopyruvate-CoA ligase DmdB
Corynebacterium matruchotii	VBICorMat102808_2258	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Corynebacterium matruchotii	VBICorMat102808_2332	ABC transporter 2C ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_0902	ABC transporter 2C ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_0502	ABC transporter 2C ATP-binding protein
Corynebacterium matruchotii	VBICorMat102808_0720	ABC transporter 2C ATP-binding transmembrane protein
Corynebacterium matruchotii	VBICorMat118582_2326	ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_2328	ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_0560	ABC transporter ATP-binding protein

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Corynebacterium matruchotii	VBICorMat118582_0416	ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat102808_2366	ABC transporter iron.B12.siderophore.hemin 2C permease component
Corynebacterium matruchotii	VBICorMat118582_0431	ABC transporter related
Corynebacterium matruchotii	VBICorMat118582_0645	ABC transporter TetB
Corynebacterium matruchotii	VBICorMat118582_0652	ABC-type multidrug transport system 2C ATPase component
Corynebacterium matruchotii	VBICorMat102808_2322	ABC-type multidrug transport system ATP-binding component yhiH
Corynebacterium matruchotii	VBICorMat102808_2279	ABC-type transporter 2C ATPase component
Corynebacterium matruchotii	VBICorMat118582_0715	ABC-type transporter 2C ATPase component
Corynebacterium matruchotii	VBICorMat102808_2307	Acetylornithine aminotransferase EC 2.6.1.11
Corynebacterium matruchotii	VBICorMat102808_0823	Acyl carrier protein
Corynebacterium matruchotii	VBICorMat118582_0330	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Corynebacterium matruchotii	VBICorMat118582_2489	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Corynebacterium matruchotii	VBICorMat102808_0706	Amino acid transport ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_2257	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Corynebacterium matruchotii	VBICorMat118582_0138	Anthranilate synthase 2C aminase component EC 4.1.3.27
Corynebacterium matruchotii	VBICorMat118582_0950	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Corynebacterium matruchotii	VBICorMat118582_1406	ATP synthase alpha chain EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat102808_2149	ATP synthase beta chain EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat118582_1423	ATP synthase beta chain EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat118582_0331	Bifunctional protein zinc-containing alcohol dehydrogenase 3B quinone oxidoreductase NADPHquinone reductase EC 1.
Corynebacterium matruchotii	VBICorMat118582_2412	Bifunctional protein zinc-containing alcohol dehydrogenase 3B quinone oxidoreductase NADPHquinone reductase EC 1.
Corynebacterium matruchotii	VBICorMat118582_1449	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Corynebacterium matruchotii	VBICorMat102808_0562	Cell division trigger factor EC 5.2.1.8
Corynebacterium matruchotii	VBICorMat118582_0437	Cell division trigger factor EC 5.2.1.8
Corynebacterium matruchotii	VBICorMat102808_0888	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Corynebacterium matruchotii	VBICorMat102808_1516	ClpB protein
Corynebacterium matruchotii	VBICorMat118582_2171	COG1131 ABC-type multidrug transport system 2C ATPase component
Corynebacterium matruchotii	VBICorMat102808_1604	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Corynebacterium matruchotii	VBICorMat102808_0673	D-alanine--polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Corynebacterium matruchotii	VBICorMat102808_0672	D-alanine--polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Corynebacterium matruchotii	VBICorMat102808_2328	DNA-binding response regulator 2C LuxR family
Corynebacterium matruchotii	VBICorMat118582_1464	DNA-binding response regulator mtrA
Corynebacterium matruchotii	VBICorMat102808_2187	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Corynebacterium matruchotii	VBICorMat118582_2564	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Corynebacterium matruchotii	VBICorMat118582_0256	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Corynebacterium matruchotii	VBICorMat118582_2566	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Corynebacterium matruchotii	VBICorMat102808_0007	Enolase EC 4.2.1.11
Corynebacterium matruchotii	VBICorMat118582_1622	Ferrous iron transport protein B
Corynebacterium matruchotii	VBICorMat102808_2171	FIG00494002 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_2037	FIG00494002 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_1190	FIG00494338 hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_0333	FIG00545214 hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_2401	FIG00545214 hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_0487	FIG00545275 hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_2536	FIG00546606 hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_0309	FIG00546606 hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_0724	FIG00547760 hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_2334	FIG00548523 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_2367	FIG00549429 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_1362	FIG01260812 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_1315	FIG01260812 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_1901	FIG01260812 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_1868	FIG01260812 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_0594	FIG01288044 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_0591	FIG01288044 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_0595	FIG01288044 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_0600	FIG01288044 hypothetical protein
Corynebacterium matruchotii	VBICorMat102808_1252	FKBP-type peptidyl-prolyl cis-trans isomerase FkIB EC 5.2.1.8
Corynebacterium matruchotii	VBICorMat102808_1418	Flagellar biosynthesis protein FlhA
Corynebacterium matruchotii	VBICorMat102808_2115	Flagellar biosynthesis protein FlhA
Corynebacterium matruchotii	VBICorMat102808_1016	Flagellin protein FlaA
Corynebacterium matruchotii	VBICorMat102808_1933	Flagellum-specific ATP synthase FliI
Corynebacterium matruchotii	VBICorMat102808_1906	Flagellum-specific ATP synthase FliI
Corynebacterium matruchotii	VBICorMat118582_0144	Flp pilus assembly protein 2C ATPase CpaF
Corynebacterium matruchotii	VBICorMat118582_1720	FtsK SpoIIIE family protein
Corynebacterium matruchotii	VBICorMat118582_2083	FtsK SpoIIIE family protein
Corynebacterium matruchotii	VBICorMat118582_0259	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Corynebacterium matruchotii	VBICorMat118582_2557	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Corynebacterium matruchotii	VBICorMat118582_0562	Glucose-6-phosphate isomerase EC 5.3.1.9
Corynebacterium matruchotii	VBICorMat102808_1198	Glucose-6-phosphate isomerase EC 5.3.1.9
Corynebacterium matruchotii	VBICorMat102808_2050	Glucose-6-phosphate isomerase EC 5.3.1.9
Corynebacterium matruchotii	VBICorMat118582_0158	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Corynebacterium matruchotii	VBICorMat118582_0975	Glutamine synthetase type I EC 6.3.1.2
Corynebacterium matruchotii	VBICorMat118582_1015	Glutamine synthetase type I EC 6.3.1.2
Corynebacterium matruchotii	VBICorMat118582_0247	Glutamyl-tRNA reductase EC 1.2.1.70
Corynebacterium matruchotii	VBICorMat118582_2586	Glutamyl-tRNA reductase EC 1.2.1.70
Corynebacterium matruchotii	VBICorMat118582_0703	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Corynebacterium matruchotii	VBICorMat102808_0815	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Corynebacterium matruchotii	VBICorMat118582_0088	Heat shock protein 60 family chaperone GroEL

Table S8

Corynebacterium matruchotii	VBICorMat102808_1787	Heat shock protein 60 family chaperone GroEL
Corynebacterium matruchotii	VBICorMat118582_1690	Heat shock protein 60 family chaperone GroEL
Corynebacterium matruchotii	VBICorMat102808_1092	Heat shock protein 60 family chaperone GroEL
Corynebacterium matruchotii	VBICorMat102808_2276	Heme transporter analogous to IsdDEF 2C ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_1956	Hemoglobin 2C heme-dependent two component system response regulator ChrA
Corynebacterium matruchotii	VBICorMat118582_0611	Hemolysins and related proteins containing CBS domains
Corynebacterium matruchotii	VBICorMat102808_0751	hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_1753	hypothetical protein
Corynebacterium matruchotii	VBICorMat118582_0887	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Corynebacterium matruchotii	VBICorMat118582_0816	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Corynebacterium matruchotii	VBICorMat118582_1796	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Corynebacterium matruchotii	VBICorMat118582_2365	Iron compound ABC uptake transporter substrate-binding protein PiaA
Corynebacterium matruchotii	VBICorMat118582_0364	Iron compound ABC uptake transporter substrate-binding protein PiaA
Corynebacterium matruchotii	VBICorMat118582_0705	Iron-dependent repressor IdeR DtxR
Corynebacterium matruchotii	VBICorMat118582_1829	Isochorismatase EC 3.3.2.1 of siderophore biosynthesis
Corynebacterium matruchotii	VBICorMat118582_2033	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Corynebacterium matruchotii	VBICorMat102808_0739	Lipid A export ATP-binding permease protein MsbA
Corynebacterium matruchotii	VBICorMat102808_1991	Lipid-A-disaccharide synthase EC 2.4.1.182
Corynebacterium matruchotii	VBICorMat118582_1848	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Corynebacterium matruchotii	VBICorMat118582_0254	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Corynebacterium matruchotii	VBICorMat118582_2567	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Corynebacterium matruchotii	VBICorMat102808_2430	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Corynebacterium matruchotii	VBICorMat102808_2109	Low Calcium Response D Type III secretion inner membrane protein SctV
Corynebacterium matruchotii	VBICorMat102808_1104	Low Calcium Response Protein H
Corynebacterium matruchotii	VBICorMat102808_1931	Low Calcium Response Protein H
Corynebacterium matruchotii	VBICorMat118582_1057	Magnesium and cobalt efflux protein CorC
Corynebacterium matruchotii	VBICorMat102808_2407	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Corynebacterium matruchotii	VBICorMat118582_0349	Manganese ABC transporter 2C ATP-binding protein SitB
Corynebacterium matruchotii	VBICorMat118582_2387	Manganese ABC transporter 2C ATP-binding protein SitB
Corynebacterium matruchotii	VBICorMat118582_0363	Manganese ABC transporter 2C periplasmic-binding protein SitA
Corynebacterium matruchotii	VBICorMat118582_2386	Manganese ABC transporter 2C periplasmic-binding protein SitA
Corynebacterium matruchotii	VBICorMat118582_1614	Mannose-1-phosphate guanylyltransferase EC 2.7.7.13
Corynebacterium matruchotii	VBICorMat118582_1497	Mannose-6-phosphate isomerase EC 5.3.1.8
Corynebacterium matruchotii	VBICorMat118582_2358	Methionine ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_1673	Methionine ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_0367	Methionine ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_0699	Methionyl-tRNA formyltransferase EC 2.1.2.9
Corynebacterium matruchotii	VBICorMat102808_1291	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Corynebacterium matruchotii	VBICorMat118582_0692	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Corynebacterium matruchotii	VBICorMat102808_0038	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Corynebacterium matruchotii	VBICorMat102808_1905	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Corynebacterium matruchotii	VBICorMat102808_1093	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Corynebacterium matruchotii	VBICorMat118582_0486	NADPH-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.13
Corynebacterium matruchotii	VBICorMat102808_2196	Nitrate ABC transporter 2C ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_1279	Nitrate nitrite transporter
Corynebacterium matruchotii	VBICorMat118582_0427	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Corynebacterium matruchotii	VBICorMat118582_0332	O-antigen export system 2C ATP-binding protein
Corynebacterium matruchotii	VBICorMat102808_2070	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Corynebacterium matruchotii	VBICorMat102808_0668	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Corynebacterium matruchotii	VBICorMat118582_1849	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Corynebacterium matruchotii	VBICorMat102808_2295	Ornithine carbamoyltransferase EC 2.1.3.3
Corynebacterium matruchotii	VBICorMat102808_0094	Outer membrane protein assembly factor YaeT precursor
Corynebacterium matruchotii	VBICorMat102808_2538	Pantoate--beta-alanine ligase EC 6.3.2.1
Corynebacterium matruchotii	VBICorMat102808_0576	Phage-encoded chromosome degrading nuclease YokF
Corynebacterium matruchotii	VBICorMat118582_2163	Phenazine biosynthesis protein PhzF like
Corynebacterium matruchotii	VBICorMat102808_1120	Phosphoglucosamine mutase EC 5.4.2.10
Corynebacterium matruchotii	VBICorMat102808_0663	Phosphoglucosamine mutase EC 5.4.2.10
Corynebacterium matruchotii	VBICorMat118582_1715	Phosphoglucosamine mutase EC 5.4.2.10
Corynebacterium matruchotii	VBICorMat118582_1581	Phosphomannomutase EC 5.4.2.8
Corynebacterium matruchotii	VBICorMat102808_1055	Phosphomannomutase EC 5.4.2.8
Corynebacterium matruchotii	VBICorMat102808_1722	Phosphomannomutase EC 5.4.2.8
Corynebacterium matruchotii	VBICorMat102808_2051	Phosphomannomutase EC 5.4.2.8
Corynebacterium matruchotii	VBICorMat102808_2539	Polyphosphate kinase 2 EC 2.7.4.1
Corynebacterium matruchotii	VBICorMat118582_2594	Porphobilinogen deaminase EC 2.5.1.61
Corynebacterium matruchotii	VBICorMat118582_0186	Porphobilinogen deaminase EC 2.5.1.61
Corynebacterium matruchotii	VBICorMat118582_0174	Porphobilinogen synthase EC 4.2.1.24
Corynebacterium matruchotii	VBICorMat118582_0907	Probable serine threonine-protein kinase pknL EC 2.7.11.1
Corynebacterium matruchotii	VBICorMat118582_0796	Prolipoprotein diacylglyceryl transferase EC 2.4.99.-
Corynebacterium matruchotii	VBICorMat102808_0666	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Corynebacterium matruchotii	VBICorMat118582_0574	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Corynebacterium matruchotii	VBICorMat102808_1625	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Corynebacterium matruchotii	VBICorMat102808_1667	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Corynebacterium matruchotii	VBICorMat118582_1952	Putative ABC transport system ATP-binding protein
Corynebacterium matruchotii	VBICorMat102808_2403	Putative ABC transport system exported protein
Corynebacterium matruchotii	VBICorMat118582_2205	putative ABC transporter
Corynebacterium matruchotii	VBICorMat118582_2273	putative ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_2170	putative ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_0426	putative ABC transporter ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_1154	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent in heat shock gene cluster

Table S8

Corynebacterium matruchotii	VBICorMat102808_0567	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent in heat shock gene cluster
Corynebacterium matruchotii	VBICorMat102808_2511	putative esterase
Corynebacterium matruchotii	VBICorMat102808_2448	putative esterase
Corynebacterium matruchotii	VBICorMat102808_0486	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0175	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0360	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0105	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0172	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0252	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0180	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0550	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0248	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0106	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0151	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0231	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0561	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0559	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0179	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0271	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0150	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0462	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0189	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_0506	Putative hemagglutinin hemolysin-related protein
Corynebacterium matruchotii	VBICorMat102808_2333	Putative iron ABC transport system 2C ATP-binding protein
Corynebacterium matruchotii	VBICorMat118582_1652	putative phospho-sugar mutase
Corynebacterium matruchotii	VBICorMat118582_1264	putative sensor kinase
Corynebacterium matruchotii	VBICorMat118582_1456	Putative two component system sensor kinase
Corynebacterium matruchotii	VBICorMat118582_2149	Putative two-component system response regulator
Corynebacterium matruchotii	VBICorMat118582_0248	Pyroline-5-carboxylate reductase EC 1.5.1.2
Corynebacterium matruchotii	VBICorMat118582_1376	Respiratory nitrate reductase delta chain EC 1.7.99.4
Corynebacterium matruchotii	VBICorMat118582_1321	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Corynebacterium matruchotii	VBICorMat102808_1705	RNA polymerase sigma factor RpoD
Corynebacterium matruchotii	VBICorMat102808_1925	RNA polymerase sigma factor RpoD
Corynebacterium matruchotii	VBICorMat118582_1453	RNA polymerase sigma-70 factor
Corynebacterium matruchotii	VBICorMat118582_1997	sensor histidine kinase
Corynebacterium matruchotii	VBICorMat118582_0500	Sensor protein basS pmrB EC 2.7.3.-
Corynebacterium matruchotii	VBICorMat102808_0697	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Corynebacterium matruchotii	VBICorMat118582_0497	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Corynebacterium matruchotii	VBICorMat118582_0135	serine threonine protein kinase
Corynebacterium matruchotii	VBICorMat118582_2353	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Corynebacterium matruchotii	VBICorMat118582_2354	Serine threonine-protein kinase PknA EC 2.7.11.1
Corynebacterium matruchotii	VBICorMat118582_0372	Serine threonine-protein kinase PknA EC 2.7.11.1
Corynebacterium matruchotii	VBICorMat102808_2063	Serine threonine-protein kinase pknD EC 2.7.11.1
Corynebacterium matruchotii	VBICorMat102808_1781	Serine threonine-protein kinase pknD EC 2.7.11.1
Corynebacterium matruchotii	VBICorMat102808_1518	Serine threonine-protein kinase pknD EC 2.7.11.1
Corynebacterium matruchotii	VBICorMat102808_1090	Serine threonine-protein kinase pknD EC 2.7.11.1
Corynebacterium matruchotii	VBICorMat102808_0618	Sialidase EC 3.2.1.18
Corynebacterium matruchotii	VBICorMat102808_2198	Sigma-54 dependent transcriptional regulator
Corynebacterium matruchotii	VBICorMat118582_1617	SN-glycerol-3-phosphate transport ATP-binding protein UgpC TC 3.A.1.1.3
Corynebacterium matruchotii	VBICorMat118582_1914	SN-glycerol-3-phosphate transport ATP-binding protein UgpC TC 3.A.1.1.3
Corynebacterium matruchotii	VBICorMat118582_1745	subtilase family protein
Corynebacterium matruchotii	VBICorMat118582_0145	Superoxide dismutase Mn EC 1.15.1.1
Corynebacterium matruchotii	VBICorMat102808_1601	Translation elongation factor Tu
Corynebacterium matruchotii	VBICorMat118582_1862	Translation elongation factor Tu
Corynebacterium matruchotii	VBICorMat102808_2056	Translation elongation factor Tu
Corynebacterium matruchotii	VBICorMat118582_2220	Transport ATP-binding protein CydD
Corynebacterium matruchotii	VBICorMat118582_1996	two-component system 2C response regulator
Corynebacterium matruchotii	VBICorMat118582_1254	two-component system 2C response regulator
Corynebacterium matruchotii	VBICorMat118582_0501	two-component system 2C response regulator
Corynebacterium matruchotii	VBICorMat102808_1112	Type III secretion inner membrane protein SctT
Corynebacterium matruchotii	VBICorMat102808_1686	Type III secretion protein SctJ
Corynebacterium matruchotii	VBICorMat102808_2274	Type IV pilus biogenesis protein PilP
Corynebacterium matruchotii	VBICorMat102808_0090	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Corynebacterium matruchotii	VBICorMat102808_2524	UDP-galactopyranose mutase EC 5.4.99.9
Corynebacterium matruchotii	VBICorMat118582_2501	UDP-glucose 4-epimerase EC 5.1.3.2
Corynebacterium matruchotii	VBICorMat118582_0325	UDP-glucose 4-epimerase EC 5.1.3.2
Corynebacterium matruchotii	VBICorMat118582_0157	UDP-glucose 4-epimerase EC 5.1.3.2
Corynebacterium matruchotii	VBICorMat118582_0710	UDP-glucose 4-epimerase EC 5.1.3.2
Corynebacterium matruchotii	VBICorMat118582_1867	UDP-glucose dehydrogenase EC 1.1.1.22
Corynebacterium matruchotii	VBICorMat118582_1055	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Corynebacterium matruchotii	VBICorMat118582_0466	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Corynebacterium matruchotii	VBICorMat118582_1384	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Corynebacterium matruchotii	VBICorMat118582_0488	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Corynebacterium matruchotii	VBICorMat102808_1597	V-type ATP synthase subunit A EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat102808_1063	V-type ATP synthase subunit A EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat102808_2059	V-type ATP synthase subunit A EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat102808_1774	V-type ATP synthase subunit A EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat102808_1084	V-type ATP synthase subunit B EC 3.6.3.14
Corynebacterium matruchotii	VBICorMat102808_1867	Zinc ABC transporter 2C ATP-binding protein ZnuC

Table S8

<i>Corynebacterium urealyticum</i>	VBICorUre58120_0590	Hemoglobin 2C heme-dependent two component system response regulator ChrA
<i>Corynebacterium urealyticum</i>	VBICorUre58120_0238	Porphobilinogen synthase EC 4.2.1.24
<i>Corynebacterium urealyticum</i>	VBICorUre58120_0679	Putative ABC transport system ATP-binding protein
<i>Corynebacterium urealyticum</i>	VBICorUre58120_0488	UDP-glucose 4-epimerase EC 5.1.3.2
<i>Corynebacterium urealyticum</i>	VBICorUre58120_0332	Uroporphyrinogen III decarboxylase EC 4.1.1.37
<i>Cronobacter sakazakii</i>	VBICroSak107175_0875	2 2C3-dihydroxybenzoate-AMP ligase EC 2.7.7.58 bacillibactin siderophore
<i>Cronobacter sakazakii</i>	VBICroSak107175_3293	ABC transporter
<i>Cronobacter sakazakii</i>	VBICroSak196695_3861	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
<i>Cronobacter sakazakii</i>	VBICroSak196695_2867	DNA-binding response regulator mtrA
<i>Cronobacter sakazakii</i>	VBICroSak107175_1761	Fe-bacillibactin uptake system FeuA 2C Fe-bacillibactin binding
<i>Cronobacter sakazakii</i>	VBICroSak196695_1697	Ferrous iron transport protein B
<i>Cronobacter sakazakii</i>	VBICroSak196695_0028	hypothetical protein
<i>Cronobacter sakazakii</i>	VBICroSak107175_2902	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
<i>Cronobacter sakazakii</i>	VBICroSak107175_2817	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
<i>Cronobacter sakazakii</i>	VBICroSak107175_1050	Isochorismatase EC 3.3.2.1 of siderophore biosynthesis
<i>Cronobacter sakazakii</i>	VBICroSak107175_1041	Isochorismate synthase EC 5.4.4.2
<i>Cronobacter sakazakii</i>	VBICroSak196695_2612	Mannose-1-phosphate guanylyltransferase EC 2.7.7.13
<i>Cronobacter sakazakii</i>	VBICroSak196695_2714	Mannose-6-phosphate isomerase EC 5.3.1.8
<i>Cronobacter sakazakii</i>	VBICroSak196695_1442	Methionine ABC transporter ATP-binding protein
<i>Cronobacter sakazakii</i>	VBICroSak107175_0708	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
<i>Cronobacter sakazakii</i>	VBICroSak196695_0194	Phosphoglucosamine mutase EC 5.4.2.10
<i>Cronobacter sakazakii</i>	VBICroSak196695_2663	Phosphomannomutase EC 5.4.2.8
<i>Cronobacter sakazakii</i>	VBICroSak196695_3704	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
<i>Cronobacter sakazakii</i>	VBICroSak196695_1563	putative phospho-sugar mutase
<i>Cronobacter sakazakii</i>	VBICroSak196695_3773	RNA polymerase sigma-70 factor
<i>Cronobacter sakazakii</i>	VBICroSak196695_2248	SN-glycerol-3-phosphate transport ATP-binding protein UgpC TC 3.A.1.1.3
<i>Cronobacter sakazakii</i>	VBICroSak196695_0074	subtilase family protein
<i>Cryptobacterium curtum</i>	VBICryCur116861_0481	2-keto-3-deoxy-D-arabino-heptulosonate-7- phosphate synthase II EC 2.5.1.54
<i>Cryptobacterium curtum</i>	VBICryCur116861_1313	ABC transporter related
<i>Cryptobacterium curtum</i>	VBICryCur116861_1043	ABC transporter TetB
<i>Cryptobacterium curtum</i>	VBICryCur116861_1001	ABC-type multidrug transport system 2C ATPase component
<i>Cryptobacterium curtum</i>	VBICryCur116861_0640	ABC-type transporter 2C ATPase component
<i>Cryptobacterium curtum</i>	VBICryCur116861_0114	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
<i>Cryptobacterium curtum</i>	VBICryCur116861_1094	Hemolysins and related proteins containing CBS domains
<i>Cryptobacterium curtum</i>	VBICryCur116861_0793	Iron-dependent repressor IdeR DtxR
<i>Cryptobacterium curtum</i>	VBICryCur116861_0925	Methionyl-tRNA formyltransferase EC 2.1.2.9
<i>Cryptobacterium curtum</i>	VBICryCur116861_0995	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
<i>Cryptobacterium curtum</i>	VBICryCur116861_1239	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
<i>Cryptobacterium curtum</i>	VBICryCur116861_0571	Probable serine threonine-protein kinase pknL EC 2.7.11.1
<i>Cryptobacterium curtum</i>	VBICryCur116861_1149	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
<i>Cryptobacterium curtum</i>	VBICryCur116861_0068	putative ABC transporter ATP-binding protein
<i>Cryptobacterium curtum</i>	VBICryCur116861_1180	RNA binding methyltransferase FtsJ like
<i>Cryptobacterium curtum</i>	VBICryCur116861_1183	Transport protein
<i>Dialister invisus</i>	VBIDialInv115189_0602	Daunorubicin resistance ATP-binding protein drrA
<i>Dialister invisus</i>	VBIDialInv115189_1739	Daunorubicin resistance ATP-binding protein drrA
<i>Dialister invisus</i>	VBIDialInv115189_0165	glucosaminyltransferase
<i>Dialister invisus</i>	VBIDialInv115189_0922	Magnesium and cobalt efflux protein CorC
<i>Dialister invisus</i>	VBIDialInv115189_0701	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
<i>Dialister microaerophilus</i>	VBIDiaMic173032_1220	Glutamine synthetase type I EC 6.3.1.2
<i>Dialister microaerophilus</i>	VBIDiaMic173032_0471	hypothetical protein
<i>Dialister microaerophilus</i>	VBIDiaMic173032_0046	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
<i>Dialister microaerophilus</i>	VBIDiaMic169777_0098	Glutamine synthetase type I EC 6.3.1.2
<i>Dialister microaerophilus</i>	VBIDiaMic169777_0650	Hemoglobin-dependent two component system response regulator HrrA
<i>Dolosigranulum pigrum</i>	VBIDolPig169739_1368	ABC transporter 2C ATP-binding protein
<i>Dolosigranulum pigrum</i>	VBIDolPig169739_1063	FIG00550139 hypothetical protein
<i>Dolosigranulum pigrum</i>	VBIDolPig169739_0539	Flp pilus assembly protein 2C ATPase CpaF
<i>Dolosigranulum pigrum</i>	VBIDolPig169739_0414	Superoxide dismutase Mn EC 1.15.1.1
<i>Eggerthella lenta</i>	VBIEggLen106823_2501	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
<i>Eggerthella lenta</i>	VBIEggLen106823_2066	ClpB protein
<i>Eggerthella lenta</i>	VBIEggLen106823_1685	COG1131 ABC-type multidrug transport system 2C ATPase component
<i>Eggerthella lenta</i>	VBIEggLen106823_1543	hypothetical protein
<i>Eggerthella lenta</i>	VBIEggLen106823_2139	Pantoate--beta-alanine ligase EC 6.3.2.1
<i>Eggerthella lenta</i>	VBIEggLen106823_1448	putative ABC transporter
<i>Eggerthella lenta</i>	VBIEggLen106823_1799	putative ABC transporter ATP-binding protein
<i>Eggerthella lenta</i>	VBIEggLen106823_2098	serine threonine protein kinase
<i>Eggerthella lenta</i>	VBIEggLen106823_0102	Transport ATP-binding protein CydD
<i>Eikenella corrodens</i>	VBIEikCor39471_0505	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
<i>Eikenella corrodens</i>	VBIEikCor39471_1649	ABC transporter ATP-binding protein
<i>Eikenella corrodens</i>	VBIEikCor39471_0647	ABC transporter iron.B12.siderophore.hemin 2C permease component
<i>Eikenella corrodens</i>	VBIEikCor39471_1762	ABC-type Fe3+-siderophore transport system 2C ATPase component
<i>Eikenella corrodens</i>	VBIEikCor39471_0487	ABC-type multidrug transport system ATP-binding component yhiH
<i>Eikenella corrodens</i>	VBIEikCor39471_0454	Acetylmethionine aminotransferase EC 2.6.1.11
<i>Eikenella corrodens</i>	VBIEikCor39471_0657	ATP synthase alpha chain EC 3.6.3.14
<i>Eikenella corrodens</i>	VBIEikCor39471_0806	Diaminopimelate decarboxylase EC 4.1.1.20
<i>Eikenella corrodens</i>	VBIEikCor39471_0586	DNA-binding response regulator 2C LuxR family
<i>Eikenella corrodens</i>	VBIEikCor39471_1729	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
<i>Eikenella corrodens</i>	VBIEikCor39471_1961	Enolase EC 4.2.1.11
<i>Eikenella corrodens</i>	VBIEikCor39471_1366	Enolase EC 4.2.1.11
<i>Eikenella corrodens</i>	VBIEikCor39471_2075	FIG00543822 hypothetical protein

Eikenella corrodens	VBIEikCor39471_1269	FIG00543822 hypothetical protein
Eikenella corrodens	VBIEikCor39471_2102	FIG00543822 hypothetical protein
Eikenella corrodens	VBIEikCor39471_2032	FIG00543822 hypothetical protein
Eikenella corrodens	VBIEikCor39471_1248	FIG00543822 hypothetical protein
Eikenella corrodens	VBIEikCor39471_1387	FIG00545275 hypothetical protein
Eikenella corrodens	VBIEikCor39471_1726	Glucose-6-phosphate isomerase EC 5.3.1.9
Eikenella corrodens	VBIEikCor39471_2116	Isochorismatase EC 3.3.2.1 enterobactin siderophore Apo-aryl carrier domain of EntB
Eikenella corrodens	VBIEikCor39471_0107	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Eikenella corrodens	VBIEikCor39471_2278	Lipopolysaccharide biosynthesis protein WzxC
Eikenella corrodens	VBIEikCor39471_0452	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Eikenella corrodens	VBIEikCor39471_0805	Nitrate nitrite transporter
Eikenella corrodens	VBIEikCor39471_0453	Ornithine carbamoyltransferase EC 2.1.3.3
Eikenella corrodens	VBIEikCor39471_0240	Phenazine biosynthesis protein PhzF like
Eikenella corrodens	VBIEikCor39471_1879	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Eikenella corrodens	VBIEikCor39471_2133	Putative ATP-binding component of a transport system
Eikenella corrodens	VBIEikCor39471_1276	putative RNA polymerase sigma factor
Eikenella corrodens	VBIEikCor39471_1024	putative sensor kinase
Eikenella corrodens	VBIEikCor39471_0749	Respiratory nitrate reductase delta chain EC 1.7.99.4
Eikenella corrodens	VBIEikCor39471_0788	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Eikenella corrodens	VBIEikCor39471_0086	sensor histidine kinase
Eikenella corrodens	VBIEikCor39471_1578	Sensor protein basS pmrB EC 2.7.3.-
Eikenella corrodens	VBIEikCor39471_1571	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Eikenella corrodens	VBIEikCor39471_1176	two-component system 2C response regulator
Eikenella corrodens	VBIEikCor39471_0048	two-component system 2C response regulator
Eikenella corrodens	VBIEikCor39471_1579	two-component system 2C response regulator
Eikenella corrodens	VBIEikCor39471_0259	UDP-galactopyranose mutase EC 5.4.99.9
Eikenella corrodens	VBIEikCor39471_1364	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Eikenella corrodens	VBIEikCor39471_0736	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Eikenella corrodens	VBIEikCor39471_1457	UTP-glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Enterobacter cancerogenus	VBIEntCan670_4032	2-amino-3-ketobutyrate coenzyme A ligase EC 2.3.1.29
Enterobacter cancerogenus	VBIEntCan670_1957	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Enterobacter cancerogenus	VBIEntCan670_0947	Aminotransferase
Enterobacter cancerogenus	VBIEntCan670_1620	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Enterobacter cancerogenus	VBIEntCan670_2120	Ferric enterobactin transport ATP-binding protein FepC TC 3.A.1.14.2
Enterobacter cancerogenus	VBIEntCan670_1772	Flagellar motor rotation protein MotA
Enterobacter cancerogenus	VBIEntCan670_1049	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Enterobacter cancerogenus	VBIEntCan670_2893	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Enterobacter cancerogenus	VBIEntCan670_2997	Nitrogen regulation protein NRI
Enterobacter cancerogenus	VBIEntCan670_2476	Putative ATP-binding component of a transport system
Enterobacter cancerogenus	VBIEntCan670_1489	Thiamin ABC transporter 2C ATPase component Thiamine transport ATP-binding protein thiQ
Enterobacter cancerogenus	VBIEntCan670_1965	Thiamin ABC transporter 2C ATPase component Thiamine transport ATP-binding protein thiQ
Enterobacter cancerogenus	VBIEntCan670_1610	Translation elongation factor Tu
Enterobacter cancerogenus	VBIEntCan670_2306	Translation elongation factor Tu
Enterobacter cancerogenus	VBIEntCan670_1964	Two-component response regulator CreC
Enterobacter cancerogenus	VBIEntCan670_0986	type 1 fimbriae anchoring protein FimD
Enterobacter hormaechei	VBIEntHor171080_0875	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Enterobacter hormaechei	VBIEntHor171080_2996	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Enterobacter hormaechei	VBIEntHor171080_4323	Choline binding protein A
Enterobacter hormaechei	VBIEntHor171080_3010	Choline binding protein A
Enterobacter hormaechei	VBIEntHor171080_2888	ClpB protein
Enterobacter hormaechei	VBIEntHor171080_0876	Methionyl-tRNA formyltransferase EC 2.1.2.9
Enterococcus casseliflavus	VBIEntCas2262_0756	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Enterococcus casseliflavus	VBIEntCas2262_0303	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Enterococcus casseliflavus	VBIEntCas2262_1979	ABC-type multidrug transport system 2C ATPase and permease component
Enterococcus casseliflavus	VBIEntCas127762_1838	CDP-4-dehydro-6-deoxy-D-glucose 3-dehydratase EC 4.2.1.-
Enterococcus casseliflavus	VBIEntCas127762_0800	Choline binding protein A
Enterococcus casseliflavus	VBIEntCas127762_1113	Choline binding protein A
Enterococcus casseliflavus	VBIEntCas127762_1038	Choline binding protein A
Enterococcus casseliflavus	VBIEntCas127762_2296	Enolase EC 4.2.1.11
Enterococcus casseliflavus	VBIEntCas127762_2604	Ferrous iron transport protein B
Enterococcus casseliflavus	VBIEntCas127762_2606	Ferrous iron transport protein B
Enterococcus casseliflavus	VBIEntCas2262_0116	Heat shock protein 60 family chaperone GroEL
Enterococcus casseliflavus	VBIEntCas2262_0569	hypothetical protein
Enterococcus casseliflavus	VBIEntCas2262_2239	Lanthionine biosynthesis protein LanM
Enterococcus casseliflavus	VBIEntCas2262_2686	Manganese superoxide dismutase EC 1.15.1.1
Enterococcus casseliflavus	VBIEntCas127762_1239	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Enterococcus casseliflavus	VBIEntCas26554_1503	Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Enterococcus casseliflavus	VBIEntCas2262_1545	Phosphate regulon sensor protein PhoR SphS EC 2.7.13.3
Enterococcus casseliflavus	VBIEntCas127762_2716	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Enterococcus casseliflavus	VBIEntCas2262_1487	Phosphatidate cytidyltransferase EC 2.7.7.41
Enterococcus casseliflavus	VBIEntCas127762_2599	Porphobilinogen synthase EC 4.2.1.24
Enterococcus casseliflavus	VBIEntCas127762_2993	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Enterococcus casseliflavus	VBIEntCas2262_1036	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Enterococcus casseliflavus	VBIEntCas2262_0313	Translation elongation factor Tu
Enterococcus casseliflavus	VBIEntCas127762_1629	Translation elongation factor Tu
Enterococcus casseliflavus	VBIEntCas2262_1592	Translation elongation factor Tu
Enterococcus casseliflavus	VBIEntCas26554_2368	Twitching motility protein PilT
Enterococcus casseliflavus	VBIEntCas26554_2604	Two-component response regulator
Enterococcus casseliflavus	VBIEntCas127762_1312	UDP-galactopyranose mutase EC 5.4.99.9

Enterococcus casseliflavus	VBIEntCas127762_2301	Undecaprenyl diphosphate synthase EC 2.5.1.31
Enterococcus faecalis	VBIEntFae2828_2195	Ferrous iron transport protein B
Enterococcus faecalis	VBIEntFae2828_0680	hypothetical protein
Enterococcus faecalis	VBIEntFae2828_2268	hypothetical protein
Enterococcus faecalis	VBIEntFae2828_1273	iron-siderophore uptake ABC system ATP-binding component
Enterococcus faecalis	VBIEntFae66666_1552	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Enterococcus faecalis	VBIEntFae2828_2277	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Enterococcus faecalis	VBIEntFae91541_0468	Nitrogen regulation protein NtrX
Enterococcus faecalis	VBIEntFae2828_2049	Outer membrane hemoglobin-haptoglobin utilization protein HpuB
Enterococcus faecalis	VBIEntFae2828_0042	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Enterococcus faecalis	VBIEntFae2828_1999	putative glycosyltransferase protein
Enterococcus faecalis	VBIEntFae91541_1082	sigma-54 dependent response regulator
Enterococcus faecalis	VBIEntFae66666_1223	Type IV pilus biogenesis protein PilM
Enterococcus faecalis	VBIEntFae66666_0288	Type IV pilus biogenesis protein PilN
Enterococcus faecalis	VBIEntFae2828_2379	Type IV pilus biogenesis protein PilO
Enterococcus italicus	VBIEntIta172006_0220	ABC-type multidrug transport system 2C permease component
Enterococcus italicus	VBIEntIta172006_0356	ABC-type multidrug transport system 2C permease component
Enterococcus italicus	VBIEntIta172006_2036	CipB protein
Enterococcus italicus	VBIEntIta172006_2176	Manganese ABC transporter 2C ATP-binding protein SitB
Enterococcus italicus	VBIEntIta172006_0465	MotA TolQ ExbB proton channel family protein
Enterococcus italicus	VBIEntIta172006_1653	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Enterococcus italicus	VBIEntIta172006_1025	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Enterococcus saccharolyticus	VBIEntSac158325_1701	ATP synthase alpha chain EC 3.6.3.14
Enterococcus saccharolyticus	VBIEntSac158325_0146	Manganese ABC transporter 2C periplasmic-binding protein SitA
Enterococcus saccharolyticus	VBIEntSac158325_0270	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Enterococcus saccharolyticus	VBIEntSac158325_0707	probable ABC transport ATP-binding protein NMA0485
Enterococcus saccharolyticus	VBIEntSac158325_1192	RNA polymerase sigma factor RpoH
Enterococcus saccharolyticus	VBIEntSac158325_0995	Type IV fimbrial assembly 2C ATPase PilB
Eubacterium limosum	VBIEubLim172772_3577	Choline kinase EC 2.7.1.32
Eubacterium limosum	VBIEubLim172772_3203	Enolase EC 4.2.1.11
Eubacterium limosum	VBIEubLim172772_3070	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Eubacterium limosum	VBIEubLim172772_3379	Nitrate nitrite transporter
Eubacterium limosum	VBIEubLim172772_0621	Respiratory nitrate reductase alpha chain EC 1.7.99.4
Eubacterium limosum	VBIEubLim172772_1377	Respiratory nitrate reductase beta chain EC 1.7.99.4
Eubacterium saburreum	VBIEubSab170007_2805	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Eubacterium saburreum	VBIEubSab170007_1151	Choline permease LicB
Eubacterium saburreum	VBIEubSab170007_1603	Phosphoglucosamine mutase EC 5.4.2.10
Eubacterium saphenum	VBIEubSap96619_0497	Glutamyl-tRNA reductase EC 1.2.1.70
Eubacterium saphenum	VBIEubSap96619_0583	Macrolide export ATP-binding permease protein MacB EC 3.6.3.-
Eubacterium saphenum	VBIEubSap96619_0747	Manganese superoxide dismutase EC 1.15.1.1
Eubacterium saphenum	VBIEubSap96619_0432	Phosphatidate cytidyltransferase EC 2.7.7.41
Eubacterium saphenum	VBIEubSap96619_0750	Type IV fimbrial biogenesis protein PilY1
Eubacterium yurii	VBIEubYur165861_0975	ABC transporter 2C ATP-binding protein
Eubacterium yurii	VBIEubYur165861_1988	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Eubacterium yurii	VBIEubYur165861_1281	Beta-1 2C4-N-acetylgalactosaminyltransferase EC 2.4.1.-
Eubacterium yurii	VBIEubYur165861_0618	Copper-sensing two-component system response regulator CpxR
Eubacterium yurii	VBIEubYur165861_0985	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Eubacterium yurii	VBIEubYur165861_1904	Multiple sugar ABC transporter 2C ATP-binding protein
Eubacterium yurii	VBIEubYur165861_1368	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Eubacterium yurii	VBIEubYur165861_1842	Periplasmic hemin-binding protein
Eubacterium yurii	VBIEubYur165861_0223	Porphobilinogen synthase EC 4.2.1.24
Eubacterium yurii	VBIEubYur165861_1284	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Filifactor aloclis	VBIFilAlo43218_1298	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Filifactor aloclis	VBIFilAlo43218_1254	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Filifactor aloclis	VBIFilAlo43218_0881	Lipid carrier UDP-N-acetylgalactosaminyltransferase Alpha-1 2C3-N-acetylgalactosamine transferase PglA
Filifactor aloclis	VBIFilAlo43218_1666	Manganese ABC transporter 2C ATP-binding protein SitB
Filifactor aloclis	VBIFilAlo43218_0742	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Filifactor aloclis	VBIFilAlo43218_0763	Signal transduction histidine kinase CheA EC 2.7.3.-
Fingoldia magna	VBIFinMag33027_0152	ABC transporter 2C ATP-binding permease protein
Fingoldia magna	VBIFinMag136925_1563	ABC transporter multidrug efflux pump 2C fused ATP-binding domains
Fingoldia magna	VBIFinMag136925_0548	ABC transporter multidrug efflux pump 2C fused ATP-binding domains
Fingoldia magna	VBIFinMag167610_1747	Acetylornithine aminotransferase EC 2.6.1.11 N-succinyl-L 2CL-diaminopimelate aminotransferase EC 2.6.1.17
Fingoldia magna	VBIFinMag33027_0588	FIG00633188 hypothetical protein
Fingoldia magna	VBIFinMag33027_1416	FIG00633188 hypothetical protein
Fingoldia magna	VBIFinMag33027_1181	FIG00633188 hypothetical protein
Fingoldia magna	VBIFinMag33027_0696	FIG00633188 hypothetical protein
Fingoldia magna	VBIFinMag33027_1780	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Fingoldia magna	VBIFinMag33027_0433	Hyaluronate lyase precursor EC 4.2.2.1
Fingoldia magna	VBIFinMag33027_0229	hypothetical protein
Fingoldia magna	VBIFinMag167610_1860	Ornithine carbamoyltransferase EC 2.1.3.3
Fingoldia magna	VBIFinMag167610_0041	Ribose ABC transport system 2C ATP-binding protein RbsA TC 3.A.1.2.1
Fingoldia magna	VBIFinMag136925_1613	YjbH outer membrane lipoprotein
Fusobacterium gonidiaformans	VBIFusGon64844_0172	Lipopolysaccharide biosynthesis protein
Fusobacterium gonidiaformans	VBIFusGon64844_0992	regulatory protein 2C LuxRRresponse regulator receiver
Fusobacterium gonidiaformans	VBIFusGon64844_0109	rhamnose-containing polysaccharide translocation permease
Fusobacterium necrophorum	VBIFusNec223292_0997	Cation transport ATPase
Fusobacterium necrophorum	VBIFusNec223292_1215	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Fusobacterium nucleatum	VBIFusNuc247698_0567	ABC transporter 2C ATP-binding permease protein
Fusobacterium nucleatum	VBIFusNuc129935_1252	sensor histidine kinase

Table S8

Fusobacterium periodonticum	VBIFusPer130431_2357	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Fusobacterium periodonticum	VBIFusPer130431_0073	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Fusobacterium sp. oral taxon 370	VBIFusSp164945_1454	RNA polymerase sigma factor RpoD
Fusobacterium sp. oral taxon 370	VBIFusSp164945_1240	Translation elongation factor Tu
Gardnerella vaginalis	VBIGarVag4823_0753	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Gardnerella vaginalis	VBIGarVag136958_0321	ABC transporter 2C ATP-binding permease protein
Gardnerella vaginalis	VBIGarVag136958_0603	Alpha-1 2C4-N-acetylgalactosamine transferase PglJ EC 2.4.1.-
Gardnerella vaginalis	VBIGarVag39333_0713	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Gardnerella vaginalis	VBIGarVag136958_0633	ATPase component of general energizing module of ECF transporters
Gardnerella vaginalis	VBIGarVag39333_0829	Candidate zinc-binding lipoprotein ZinT
Gardnerella vaginalis	VBIGarVag4823_0546	COG2274 ABC-type bacteriocin lantibiotic exporters 2C contain an N-terminal double-glycine peptidase domain
Gardnerella vaginalis	VBIGarVag136958_0620	Ferric iron ABC transporter 2C ATP-binding protein
Gardnerella vaginalis	VBIGarVag4823_0384	Ferrous iron transport protein B
Gardnerella vaginalis	VBIGarVag39333_0949	FIG00632052 hypothetical protein
Gardnerella vaginalis	VBIGarVag39333_0992	FIG00632052 hypothetical protein
Gardnerella vaginalis	VBIGarVag136958_0819	FIG00633188 hypothetical protein
Gardnerella vaginalis	VBIGarVag136958_0949	FIG00633188 hypothetical protein
Gardnerella vaginalis	VBIGarVag136958_0637	FIG00633188 hypothetical protein
Gardnerella vaginalis	VBIGarVag39333_0003	FIG00633188 hypothetical protein
Gardnerella vaginalis	VBIGarVag39333_0590	FtsK SpoIIIE family protein 2C putative secretion system component EssC YukA
Gardnerella vaginalis	VBIGarVag39333_0427	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Gardnerella vaginalis	VBIGarVag39333_0833	Histidine kinase of the competence regulon ComD
Gardnerella vaginalis	VBIGarVag4823_0723	Late competence protein ComGA 2C access of DNA to ComEA
Gardnerella vaginalis	VBIGarVag39333_1026	Lead 2C cadmium 2C zinc and mercury transporting ATPase EC 3.6.3.3 EC 3.6.3.5
Gardnerella vaginalis	VBIGarVag4823_0928	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Gardnerella vaginalis	VBIGarVag4823_1096	Lipopolysaccharide biosynthesis protein WzxC
Gardnerella vaginalis	VBIGarVag39333_0519	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Gardnerella vaginalis	VBIGarVag39333_0652	Membrane-associated zinc metalloprotease
Gardnerella vaginalis	VBIGarVag4823_0272	MurB family protein
Gardnerella vaginalis	VBIGarVag136958_0084	Ornithine carbamoyltransferase EC 2.1.3.3
Gardnerella vaginalis	VBIGarVag4823_1190	Putative ABC transporter ATP-binding protein
Gardnerella vaginalis	VBIGarVag136958_0135	Teichoic acid biosynthesis protein
Gardnerella vaginalis	VBIGarVag4823_0927	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Gardnerella vaginalis	VBIGarVag4823_0239	Translation elongation factor Tu
Gemella haemolysans	VBIGemHae124407_0467	CFA I fimbrial auxiliary subunit
Gemella haemolysans	VBIGemHae124407_0510	Multidrug resistance ABC transporter ATP-binding and permease protein
Gemella haemolysans	VBIGemHae122965_0303	Putative ABC transporter ATP-binding protein
Gemella haemolysans	VBIGemHae122965_0849	Putative ATP-binding component of a transport system
Gemella haemolysans	VBIGemHae124407_1294	Translation elongation factor Tu
Gemella sanguinis	VBIGemSan95479_1224	ABC transporter 2C ATP-binding permease protein
Gemella sanguinis	VBIGemSan95479_0533	ABC transporter ATP-binding protein
Gemella sanguinis	VBIGemSan95479_0433	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Gemella sanguinis	VBIGemSan95479_1281	ATP synthase beta chain EC 3.6.3.14
Gemella sanguinis	VBIGemSan95479_0042	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Gemella sanguinis	VBIGemSan95479_0862	ATPase component of general energizing module of ECF transporters
Gemella sanguinis	VBIGemSan95479_0043	Cell envelope-associated transcriptional attenuator LytR-CpsA-Prs 2C subfamily F2 as in PMID19099556
Gemella sanguinis	VBIGemSan95479_0111	Heat shock protein 60 family chaperone GroEL
Gemella sanguinis	VBIGemSan95479_1015	Lipid A export ATP-binding permease protein MsbA
Gemella sanguinis	VBIGemSan95479_1463	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Gemella sanguinis	VBIGemSan95479_1228	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Gemella sanguinis	VBIGemSan95479_0524	V-type ATP synthase subunit B EC 3.6.3.14
Granulicatella adiacens	VBIGraAdi114642_0346	ABC-type multidrug protein lipid transport system 2C ATPase component
Granulicatella adiacens	VBIGraAdi114642_1411	Enolase EC 4.2.1.11
Granulicatella adiacens	VBIGraAdi114642_0980	Enolase EC 4.2.1.11
Granulicatella adiacens	VBIGraAdi114642_1376	Fibronectin fibrinogen-binding protein
Granulicatella adiacens	VBIGraAdi114642_1399	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Granulicatella adiacens	VBIGraAdi114642_1498	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Granulicatella adiacens	VBIGraAdi114642_0674	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Granulicatella adiacens	VBIGraAdi114642_0314	Protein serine threonine phosphatase PrpC 2C regulation of stationary phase
Granulicatella adiacens	VBIGraAdi114642_0974	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Granulicatella adiacens	VBIGraAdi114642_1285	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Granulicatella adiacens	VBIGraAdi114642_1112	Translation elongation factor Tu
Granulicatella adiacens	VBIGraAdi114642_1205	Translation elongation factor Tu
Granulicatella adiacens	VBIGraAdi114642_0074	Vancomycin response regulator VanR
Granulicatella elegans	VBIGraEle24208_1107	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Granulicatella elegans	VBIGraEle24208_0251	ClpB protein
Haemophilus aegyptius	VBIIHaeAeg171656_1467	Alkyl hydroperoxide reductase subunit C-like protein
Haemophilus aegyptius	VBIIHaeAeg171656_0798	ClpB protein
Haemophilus aegyptius	VBIIHaeAeg171656_0651	Enolase EC 4.2.1.11
Haemophilus aegyptius	VBIIHaeAeg171656_1970	Ferrous iron transport protein B
Haemophilus aegyptius	VBIIHaeAeg171656_1899	FIG00648460 hypothetical protein
Haemophilus aegyptius	VBIIHaeAeg171656_1840	hypothetical protein
Haemophilus aegyptius	VBIIHaeAeg171656_0734	hypothetical protein
Haemophilus aegyptius	VBIIHaeAeg171656_0464	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Haemophilus aegyptius	VBIIHaeAeg171656_1478	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Haemophilus aegyptius	VBIIHaeAeg171656_0227	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Haemophilus aegyptius	VBIIHaeAeg171656_1894	Translation elongation factor Tu
Haemophilus aegyptius	VBIIHaeAeg171656_0705	Type IV fimbrial assembly protein PilC
Haemophilus aegyptius	VBIIHaeAeg171656_1347	V-type ATP synthase subunit A EC 3.6.3.14

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Haemophilus ducreyi	VBIHaeDuc133973_0563	DNA polymerase III alpha subunit EC 2.7.7.7
Haemophilus ducreyi	VBIHaeDuc133973_0734	DNA polymerase III alpha subunit EC 2.7.7.7
Haemophilus ducreyi	VBIHaeDuc133973_0541	Glutamine synthetase type III 2C GlnN EC 6.3.1.2
Haemophilus ducreyi	VBIHaeDuc133973_1258	hypothetical protein
Haemophilus ducreyi	VBIHaeDuc133973_1532	hypothetical protein
Haemophilus ducreyi	VBIHaeDuc133973_1087	hypothetical protein
Haemophilus ducreyi	VBIHaeDuc133973_0008	hypothetical protein
Haemophilus ducreyi	VBIHaeDuc133973_1624	hypothetical protein
Haemophilus ducreyi	VBIHaeDuc133973_0010	Lysozyme M1 1 2C4-beta-N-acetylmuramidase
Haemophilus ducreyi	VBIHaeDuc133973_0227	Translation elongation factor Tu
Haemophilus haemolyticus	VBIHaeHae200538_1772	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Haemophilus haemolyticus	VBIHaeHae200538_1718	ABC transporter 2C ATP-binding protein permease protein
Haemophilus haemolyticus	VBIHaeHae200538_0590	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Haemophilus haemolyticus	VBIHaeHae200538_1952	ATP synthase alpha chain EC 3.6.3.14
Haemophilus haemolyticus	VBIHaeHae200538_0125	ATP synthase beta chain EC 3.6.3.14
Haemophilus haemolyticus	VBIHaeHae195991_0284	Cell wall-binding protein
Haemophilus haemolyticus	VBIHaeHae200538_1852	ClpB protein
Haemophilus haemolyticus	VBIHaeHae195991_2474	Ferrous iron transport protein B
Haemophilus haemolyticus	VBIHaeHae195991_1073	Ferrous iron transport protein B
Haemophilus haemolyticus	VBIHaeHae195991_1823	Ferrous iron transport protein B
Haemophilus haemolyticus	VBIHaeHae200538_1693	Heat shock protein 60 family chaperone GroEL
Haemophilus haemolyticus	VBIHaeHae195991_0224	hypothetical protein
Haemophilus haemolyticus	VBIHaeHae200538_0510	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Haemophilus haemolyticus	VBIHaeHae200538_0892	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Haemophilus haemolyticus	VBIHaeHae200538_1658	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Haemophilus haemolyticus	VBIHaeHae195991_2153	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Haemophilus haemolyticus	VBIHaeHae195991_1950	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Haemophilus haemolyticus	VBIHaeHae200538_0689	Putative periplasmic binding protein
Haemophilus haemolyticus	VBIHaeHae195991_0435	Translation elongation factor Tu
Haemophilus parainfluenzae	VBIHaePar172879_1055	ABC transporter 2C ATP-binding protein
Haemophilus parainfluenzae	VBIHaePar172879_1213	ABC transporter ATP-binding membrane spanning protein - multidrug resistance
Haemophilus parainfluenzae	VBIHaePar172879_1722	ABC transporter ATP-binding protein
Haemophilus parainfluenzae	VBIHaePar172879_0001	ABC-type nitrate sulfonate bicarbonate transport system 2C ATPase component
Haemophilus parainfluenzae	VBIHaePar172879_0402	ABC-type nitrate sulfonate bicarbonate transport system 2C ATPase component
Haemophilus parainfluenzae	VBIHaePar172879_1617	Acetylmethionine aminotransferase EC 2.6.1.11
Haemophilus parainfluenzae	VBIHaePar172879_1584	Aerobic respiration control protein arcA
Haemophilus parainfluenzae	VBIHaePar172879_0987	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Haemophilus parainfluenzae	VBIHaePar172879_0213	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Haemophilus parainfluenzae	VBIHaePar172879_1478	Arginine ABC transporter 2C permease protein ArtQ
Haemophilus parainfluenzae	VBIHaePar172879_1740	ATP synthase alpha chain EC 3.6.3.14
Haemophilus parainfluenzae	VBIHaePar172879_1560	ATP synthase alpha chain EC 3.6.3.14
Haemophilus parainfluenzae	VBIHaePar172879_1970	ATP synthase beta chain EC 3.6.3.14
Haemophilus parainfluenzae	VBIHaePar172879_0162	ATP synthase beta chain EC 3.6.3.14
Haemophilus parainfluenzae	VBIHaePar172879_1581	ATP synthase beta chain EC 3.6.3.14
Haemophilus parainfluenzae	VBIHaePar172879_0485	ATPase component of general energizing module of ECF transporters
Haemophilus parainfluenzae	VBIHaePar172879_0214	ATPase component of general energizing module of ECF transporters
Haemophilus parainfluenzae	VBIHaePar172879_0811	C5a peptidase EC 3.4.21.-
Haemophilus parainfluenzae	VBIHaePar172879_1295	capsular polysaccharide biosynthesis protein
Haemophilus parainfluenzae	VBIHaePar172879_0452	Cell division protein FtsK
Haemophilus parainfluenzae	VBIHaePar172879_0216	Cell division protein FtsK
Haemophilus parainfluenzae	VBIHaePar172879_1729	Cell envelope opacity-associated protein A
Haemophilus parainfluenzae	VBIHaePar172879_1279	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Haemophilus parainfluenzae	VBIHaePar172879_1104	Choline binding protein A
Haemophilus parainfluenzae	VBIHaePar172879_1102	Choline binding protein A
Haemophilus parainfluenzae	VBIHaePar172879_1559	Choline permease LicB
Haemophilus parainfluenzae	VBIHaePar172879_1298	ClpB protein
Haemophilus parainfluenzae	VBIHaePar172879_0697	ClpB protein
Haemophilus parainfluenzae	VBIHaePar172879_1751	Cytochrome c heme lyase subunit CcmF
Haemophilus parainfluenzae	VBIHaePar172879_0687	D-alanyl transfer protein DltB
Haemophilus parainfluenzae	VBIHaePar172879_0280	Daunorubicin resistance ATP-binding protein drrA
Haemophilus parainfluenzae	VBIHaePar172879_1859	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Haemophilus parainfluenzae	VBIHaePar172879_1721	Enolase EC 4.2.1.11
Haemophilus parainfluenzae	VBIHaePar172879_1345	Enolase EC 4.2.1.11
Haemophilus parainfluenzae	VBIHaePar172879_0085	FIG00672414 hypothetical protein
Haemophilus parainfluenzae	VBIHaePar172879_0829	FIG01114802 hypothetical protein
Haemophilus parainfluenzae	VBIHaePar172879_1589	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Haemophilus parainfluenzae	VBIHaePar172879_0794	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Haemophilus parainfluenzae	VBIHaePar172879_0019	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Haemophilus parainfluenzae	VBIHaePar172879_1296	Heat shock protein 60 family chaperone GroEL
Haemophilus parainfluenzae	VBIHaePar172879_0028	Heat shock protein 60 family chaperone GroEL
Haemophilus parainfluenzae	VBIHaePar172879_1125	Heme efflux system ATPase HrtA
Haemophilus parainfluenzae	VBIHaePar172879_0823	hypothetical protein
Haemophilus parainfluenzae	VBIHaePar172879_0990	hypothetical protein
Haemophilus parainfluenzae	VBIHaePar172879_1434	Large exoproteins involved in heme utilization or adhesion
Haemophilus parainfluenzae	VBIHaePar172879_1138	Lipid A export ATP-binding permease protein MsbA
Haemophilus parainfluenzae	VBIHaePar172879_1156	Lipid A export ATP-binding permease protein MsbA
Haemophilus parainfluenzae	VBIHaePar172879_1933	Macrolide export ATP-binding permease protein MacB EC 3.6.3.-
Haemophilus parainfluenzae	VBIHaePar172879_0298	Magnesium and cobalt efflux protein CorC
Haemophilus parainfluenzae	VBIHaePar172879_0215	Magnesium and cobalt efflux protein CorC

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Haemophilus parainfluenzae	VBIIHaePar172879_0296	Manganese ABC transporter 2C inner membrane permease protein SitD
Haemophilus parainfluenzae	VBIIHaePar172879_1216	Methionine ABC transporter ATP-binding protein
Haemophilus parainfluenzae	VBIIHaePar172879_0956	Mg2+ transport ATPase 2C P-type EC 3.6.3.2
Haemophilus parainfluenzae	VBIIHaePar172879_1297	Nitrate nitrite response regulator protein
Haemophilus parainfluenzae	VBIIHaePar172879_1494	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Haemophilus parainfluenzae	VBIIHaePar172879_0294	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Haemophilus parainfluenzae	VBIIHaePar172879_1209	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Haemophilus parainfluenzae	VBIIHaePar172879_1518	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Haemophilus parainfluenzae	VBIIHaePar172879_1724	Outer membrane protein assembly factor YaeT precursor
Haemophilus parainfluenzae	VBIIHaePar172879_1953	Outer membrane protein assembly factor YaeT precursor
Haemophilus parainfluenzae	VBIIHaePar172879_1346	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Haemophilus parainfluenzae	VBIIHaePar172879_1430	probable integral membrane protein NMA0408
Haemophilus parainfluenzae	VBIIHaePar172879_0002	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Haemophilus parainfluenzae	VBIIHaePar172879_1344	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Haemophilus parainfluenzae	VBIIHaePar172879_1680	putative ABC transporter 2C ATP-binding protein
Haemophilus parainfluenzae	VBIIHaePar172879_1651	Putative large exoprotein involved in heme utilization or adhesion of ShlA HecA FhaA family
Haemophilus parainfluenzae	VBIIHaePar172879_0522	Putative secretion accessory protein EsaA YueB
Haemophilus parainfluenzae	VBIIHaePar172879_0521	RNA binding methyltransferase FtsJ like
Haemophilus parainfluenzae	VBIIHaePar172879_0830	RNA binding methyltransferase FtsJ like
Haemophilus parainfluenzae	VBIIHaePar172879_0455	Serine threonine protein kinase
Haemophilus parainfluenzae	VBIIHaePar172879_0456	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Haemophilus parainfluenzae	VBIIHaePar172879_1860	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1
Haemophilus parainfluenzae	VBIIHaePar172879_1856	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Haemophilus parainfluenzae	VBIIHaePar172879_1392	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Haemophilus parainfluenzae	VBIIHaePar172879_1417	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Haemophilus parainfluenzae	VBIIHaePar172879_1356	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Haemophilus parainfluenzae	VBIIHaePar172879_1352	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Haemophilus parainfluenzae	VBIIHaePar172879_1956	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Haemophilus parainfluenzae	VBIIHaePar172879_1847	Translation elongation factor Tu
Haemophilus parainfluenzae	VBIIHaePar172879_1586	Translation elongation factor Tu
Haemophilus parainfluenzae	VBIIHaePar172879_1629	Type II IV secretion system ATP hydrolase TadA VirB11 CpaF 2C TadA subfamily
Haemophilus parainfluenzae	VBIIHaePar172879_1697	UDP-2 2C3-diacylglucosamine hydrolase EC 3.6.1.-
Haemophilus parainfluenzae	VBIIHaePar172879_0544	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158
Haemophilus parainfluenzae	VBIIHaePar172879_0281	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Haemophilus parainfluenzae	VBIIHaePar172879_0104	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Haemophilus parainfluenzae	VBIIHaePar172879_1817	Urease alpha subunit EC 3.5.1.5
Haemophilus parainfluenzae	VBIIHaePar172879_0837	V-type ATP synthase subunit B EC 3.6.3.14
Haemophilus parainfluenzae	VBIIHaePar172879_0833	Xanthine dehydrogenase 2C molybdenum binding subunit EC 1.17.1.4
Haemophilus parainfluenzae	VBIIHaePar172879_0526	Zinc metalloprotease zmpB precursor EC 3.4.24.-
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1530	8-amino-7-oxononanoate synthase EC 2.3.1.47
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1322	ABC transporter ATP-binding protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1143	ABC transporter involved in cytochrome c biogenesis 2C ATPase component CcmA
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1491	ABC-type cobalamin Fe3+-siderophores transport systems 2C ATPase components
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1478	ABC-type Fe3+-siderophore transport system 2C permease component
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1519	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0452	adhesion and penetration protein Hap
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0104	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1168	Cytochrome c-type biogenesis protein CcmC 2C putative heme lyase for CcmE
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1188	Cytochrome c-type biogenesis protein CcmE 2C heme chaperone
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0168	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1707	FIG00497364 hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1638	FIG00497364 hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1644	FIG00497364 hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0117	Glycerol-3-phosphate transporter
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0718	hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0616	hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0669	hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0678	hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0747	hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0799	hypothetical protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1534	Lipoprotein releasing system ATP-binding protein LolD
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1142	Manganese ABC transporter 2C inner membrane permease protein SitC
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1016	Manganese ABC transporter 2C inner membrane permease protein SitD
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0341	Methionine ABC transporter ATP-binding protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0359	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1499	Outer membrane lipoprotein LolB precursor
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1615	Peptide transport system ATP-binding protein SapF
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1272	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0487	Porphobilinogen synthase EC 4.2.1.24
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0133	probable integral membrane protein NMA0408
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0459	probable integral membrane protein NMA0408
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1008	protein transport protein
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0805	type 4 prepilin-like protein specific leader peptidase
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1004	Type II secretory pathway 2C component PulF Type IV fimbrial assembly protein PilC
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_1009	Type IV pilin PilA
Haemophilus sp. oral taxon 851	VBIIHaeSp161369_0132	Urease alpha subunit EC 3.5.1.5
Helicobacter pylori	VBIIHelPyl144313_0894	FIG00497364 hypothetical protein
Helicobacter pylori	VBIIHelPyl144313_0840	FIG00497364 hypothetical protein
Helicobacter pylori	VBIIHelPyl144313_0260	FIG00497364 hypothetical protein

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Helicobacter pylori	VBHelPyl144313_0067	FIG00497364 hypothetical protein
Helicobacter pylori	VBHelPyl144313_0038	FIG00497364 hypothetical protein
Helicobacter pylori	VBHelPyl144313_1027	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Helicobacter pylori	VBHelPyl144313_1171	Phosphoglucosamine mutase EC 5.4.2.10
Johnsonella ignava	VBJohnIgn140542_1172	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Kingella denitrificans	VBKinDen171475_1124	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Kingella denitrificans	VBKinDen171475_0453	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Kingella denitrificans	VBKinDen171475_0196	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Kingella denitrificans	VBKinDen171475_0417	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Kingella denitrificans	VBKinDen171475_1897	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Kingella denitrificans	VBKinDen171475_0413	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Kingella denitrificans	VBKinDen171475_1112	8-amino-7-oxononanoate synthase EC 2.3.1.47
Kingella denitrificans	VBKinDen171475_1265	ABC transporter 2C ATP-binding protein
Kingella denitrificans	VBKinDen171475_0032	ABC transporter 2C ATP-binding subunit precursor
Kingella denitrificans	VBKinDen171475_2222	ABC-type polar amino acid transport system 2C ATPase component
Kingella denitrificans	VBKinDen171475_0236	ABC-type polar amino acid transport system 2C ATPase component
Kingella denitrificans	VBKinDen171475_0400	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Kingella denitrificans	VBKinDen171475_1115	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Kingella denitrificans	VBKinDen171475_0452	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Kingella denitrificans	VBKinDen171475_0701	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Kingella denitrificans	VBKinDen171475_0504	Amino-acid ABC transporter ATP-binding protein
Kingella denitrificans	VBKinDen171475_2128	Amylovoran biosynthesis glycosyltransferase amsE EC 2.-.-.-
Kingella denitrificans	VBKinDen171475_0950	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Kingella denitrificans	VBKinDen171475_2086	Anthranilate synthase 2C aminase component EC 4.1.3.27
Kingella denitrificans	VBKinDen171475_0227	Arginine ABC transporter 2C ATP-binding protein ArtP
Kingella denitrificans	VBKinDen171475_0224	Arginine ABC transporter 2C permease protein ArtQ
Kingella denitrificans	VBKinDen171475_0680	Aspartate racemase EC 5.1.1.13
Kingella denitrificans	VBKinDen171475_0786	ATP synthase alpha chain EC 3.6.3.14
Kingella denitrificans	VBKinDen171475_2361	ATP synthase alpha chain EC 3.6.3.14
Kingella denitrificans	VBKinDen171475_2327	ATP synthase beta chain EC 3.6.3.14
Kingella denitrificans	VBKinDen171475_1768	ATPase provides energy for both assembly of type IV secretion complex and secretion of T-DNA complex VirB11
Kingella denitrificans	VBKinDen171475_1928	Bacillosamine Legionaminic acid biosynthesis aminotransferase PglE 3B 4-keto-6-deoxy-N-Acetyl-D-hexosaminyl-Lipid c:
Kingella denitrificans	VBKinDen171475_0709	Biofilm PGA synthesis N-glycosyltransferase PgaC EC 2.4.-.-
Kingella denitrificans	VBKinDen171475_1844	CDP-6-deoxy-delta-3 2C4-glucoseen reductase-like
Kingella denitrificans	VBKinDen171475_2198	Cell division trigger factor EC 5.2.1.8
Kingella denitrificans	VBKinDen171475_1280	ClpB protein
Kingella denitrificans	VBKinDen171475_0416	Dca
Kingella denitrificans	VBKinDen171475_0941	Dca
Kingella denitrificans	VBKinDen171475_0190	Dipeptide transport ATP-binding protein DppF TC 3.A.1.5.2
Kingella denitrificans	VBKinDen171475_1548	DNA transformation competency
Kingella denitrificans	VBKinDen171475_1237	FepC protein
Kingella denitrificans	VBKinDen171475_0759	FepC protein
Kingella denitrificans	VBKinDen171475_2089	Ferric anguibactin-binding protein
Kingella denitrificans	VBKinDen171475_0650	Ferric vulnibactin receptor VuuA
Kingella denitrificans	VBKinDen171475_0447	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Kingella denitrificans	VBKinDen171475_2260	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Kingella denitrificans	VBKinDen171475_0954	FKBP-type peptidyl-prolyl cis-trans isomerase fkIB EC 5.2.1.8
Kingella denitrificans	VBKinDen171475_1590	Flagellar hook protein FlgE
Kingella denitrificans	VBKinDen171475_0757	Glutamine synthetase type I EC 6.3.1.2
Kingella denitrificans	VBKinDen171475_1927	Glutamine synthetase type I EC 6.3.1.2
Kingella denitrificans	VBKinDen171475_1579	Glutamine synthetase type I EC 6.3.1.2
Kingella denitrificans	VBKinDen171475_0795	Glycerol-3-phosphate transporter
Kingella denitrificans	VBKinDen171475_0316	Glycerol-3-phosphate transporter
Kingella denitrificans	VBKinDen171475_1078	glycosyl transferase
Kingella denitrificans	VBKinDen171475_1702	glycosyl transferase
Kingella denitrificans	VBKinDen171475_2098	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Kingella denitrificans	VBKinDen171475_1231	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Kingella denitrificans	VBKinDen171475_1981	Heat shock protein 60 family chaperone GroEL
Kingella denitrificans	VBKinDen171475_0527	Hemolysins and related proteins containing CBS domains
Kingella denitrificans	VBKinDen171475_0906	Hemolysins and related proteins containing CBS domains
Kingella denitrificans	VBKinDen171475_0797	Homolog of E. coli HemY protein
Kingella denitrificans	VBKinDen171475_0503	Homolog of E. coli HemY protein
Kingella denitrificans	VBKinDen171475_0235	Hydroxymethylpyrimidine ABC transporter 2C ATPase component
Kingella denitrificans	VBKinDen171475_1533	hypothetical protein
Kingella denitrificans	VBKinDen171475_2065	hypothetical protein
Kingella denitrificans	VBKinDen171475_0850	hypothetical protein
Kingella denitrificans	VBKinDen171475_0903	hypothetical protein
Kingella denitrificans	VBKinDen171475_2035	hypothetical protein
Kingella denitrificans	VBKinDen171475_1670	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Kingella denitrificans	VBKinDen171475_1689	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Kingella denitrificans	VBKinDen171475_0639	Inner membrane ABC-transporter YbtQ
Kingella denitrificans	VBKinDen171475_1767	Inner membrane protein forms channel for type IV secretion of T-DNA complex VirB10
Kingella denitrificans	VBKinDen171475_0034	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Kingella denitrificans	VBKinDen171475_0711	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Kingella denitrificans	VBKinDen171475_0720	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Kingella denitrificans	VBKinDen171475_0043	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Kingella denitrificans	VBKinDen171475_0358	Iron compound ABC uptake transporter ATP-binding protein
Kingella denitrificans	VBKinDen171475_0373	Iron compound ABC uptake transporter permease protein
Kingella denitrificans	VBKinDen171475_0336	Iron compound ABC uptake transporter substrate-binding protein

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Kingella denitrificans	VBIKinDen171475_0949	Large exoproteins involved in heme utilization or adhesion
Kingella denitrificans	VBIKinDen171475_2005	Leader peptidase Prepilin peptidase EC 3.4.23.43 N-methyltransferase EC 2.1.1.-
Kingella denitrificans	VBIKinDen171475_0936	Lipid A biosynthesis KDO 2-lauroyl-lipid IVA acyltransferase EC 2.3.1.-
Kingella denitrificans	VBIKinDen171475_0201	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Kingella denitrificans	VBIKinDen171475_1202	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Kingella denitrificans	VBIKinDen171475_2197	Lipid-A-disaccharide synthase EC 2.4.1.182
Kingella denitrificans	VBIKinDen171475_0381	Lipid-A-disaccharide synthase EC 2.4.1.182
Kingella denitrificans	VBIKinDen171475_0474	Lipopolysaccharide biosynthesis glycosyltransferase
Kingella denitrificans	VBIKinDen171475_2264	lipopolysaccharide biosynthesis protein
Kingella denitrificans	VBIKinDen171475_0837	lipopolysaccharide biosynthesis protein
Kingella denitrificans	VBIKinDen171475_0181	Lipopolysaccharide core biosynthesis glycosyltransferase WadA
Kingella denitrificans	VBIKinDen171475_1232	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Kingella denitrificans	VBIKinDen171475_0647	lipoprotein inner membrane ABC-transporter
Kingella denitrificans	VBIKinDen171475_1100	Lipoprotein releasing system ATP-binding protein LolD
Kingella denitrificans	VBIKinDen171475_2285	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Kingella denitrificans	VBIKinDen171475_1143	Manganese ABC transporter 2C inner membrane permease protein SitD
Kingella denitrificans	VBIKinDen171475_2374	Manganese superoxide dismutase EC 1.15.1.1
Kingella denitrificans	VBIKinDen171475_0120	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Kingella denitrificans	VBIKinDen171475_0945	Methionine ABC transporter ATP-binding protein
Kingella denitrificans	VBIKinDen171475_0676	Methionyl-tRNA formyltransferase EC 2.1.2.9
Kingella denitrificans	VBIKinDen171475_2266	MotA TolQ ExbB proton channel family protein
Kingella denitrificans	VBIKinDen171475_2293	N-acetylneuraminate synthase EC 2.5.1.56
Kingella denitrificans	VBIKinDen171475_0497	Nitrate nitrite response regulator protein
Kingella denitrificans	VBIKinDen171475_2466	Nitrate nitrite transporter
Kingella denitrificans	VBIKinDen171475_0751	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Kingella denitrificans	VBIKinDen171475_2301	Ornithine carbamoyltransferase EC 2.1.3.3
Kingella denitrificans	VBIKinDen171475_0570	Ornithine carbamoyltransferase EC 2.1.3.3
Kingella denitrificans	VBIKinDen171475_1145	Outer membrane protein P2 precursor
Kingella denitrificans	VBIKinDen171475_2256	Pantoate--beta-alanine ligase EC 6.3.2.1
Kingella denitrificans	VBIKinDen171475_1159	Peptidyl-prolyl cis-trans isomerase ppiB EC 5.2.1.8
Kingella denitrificans	VBIKinDen171475_0448	Phosphoglucosamine mutase EC 5.4.2.10
Kingella denitrificans	VBIKinDen171475_2240	Phosphoheptose isomerase EC 5.3.1.-
Kingella denitrificans	VBIKinDen171475_1401	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Kingella denitrificans	VBIKinDen171475_1971	Porphobilinogen deaminase EC 2.5.1.61
Kingella denitrificans	VBIKinDen171475_1266	probable integral membrane protein NMA0408
Kingella denitrificans	VBIKinDen171475_0250	Protein ImpG VasA
Kingella denitrificans	VBIKinDen171475_0580	putative accessory processing protein
Kingella denitrificans	VBIKinDen171475_2087	Putative two-domain glycosyltransferase
Kingella denitrificans	VBIKinDen171475_0516	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Kingella denitrificans	VBIKinDen171475_0755	Pyrrrole-5-carboxylate reductase EC 1.5.1.2
Kingella denitrificans	VBIKinDen171475_0660	Radical SAM family enzyme 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent
Kingella denitrificans	VBIKinDen171475_2184	Radical SAM family protein HutW 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent
Kingella denitrificans	VBIKinDen171475_1698	RNA polymerase sigma factor RpoH
Kingella denitrificans	VBIKinDen171475_0606	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Kingella denitrificans	VBIKinDen171475_2031	Sel1 domain protein repeat-containing protein
Kingella denitrificans	VBIKinDen171475_2032	Sel1 domain protein repeat-containing protein
Kingella denitrificans	VBIKinDen171475_2030	Sel1 domain protein repeat-containing protein
Kingella denitrificans	VBIKinDen171475_1895	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Kingella denitrificans	VBIKinDen171475_0974	Sigma factor RpoE negative regulatory protein RseB precursor
Kingella denitrificans	VBIKinDen171475_1233	Superoxide dismutase Cu-Zn precursor EC 1.15.1.1
Kingella denitrificans	VBIKinDen171475_1597	Superoxide dismutase Fe EC 1.15.1.1
Kingella denitrificans	VBIKinDen171475_0667	TonB-dependent hemin 2C ferrichrome receptor
Kingella denitrificans	VBIKinDen171475_0328	Transcriptional repressor protein TyrR
Kingella denitrificans	VBIKinDen171475_1605	Translation elongation factor Tu
Kingella denitrificans	VBIKinDen171475_1628	Translation elongation factor Tu
Kingella denitrificans	VBIKinDen171475_0223	Transport ATP-binding protein CydC
Kingella denitrificans	VBIKinDen171475_1217	Transport ATP-binding protein CydD
Kingella denitrificans	VBIKinDen171475_1894	Twitching motility protein PilT
Kingella denitrificans	VBIKinDen171475_2088	Two component system histidine kinase EC 2.7.3.-
Kingella denitrificans	VBIKinDen171475_2026	Type IV fimbrial assembly 2C ATPase PilB
Kingella denitrificans	VBIKinDen171475_2028	Type IV fimbrial assembly 2C ATPase PilB
Kingella denitrificans	VBIKinDen171475_2016	Type IV fimbrial assembly protein PilC
Kingella denitrificans	VBIKinDen171475_0943	Type IV pilus biogenesis protein PilQ
Kingella denitrificans	VBIKinDen171475_0229	Type IV pilus biogenesis protein PilQ
Kingella denitrificans	VBIKinDen171475_1823	Type IV secretion system protein VirD4
Kingella denitrificans	VBIKinDen171475_1696	UDP-2 2C3-diacetylglucosamine hydrolase EC 3.6.1.-
Kingella denitrificans	VBIKinDen171475_0833	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Kingella denitrificans	VBIKinDen171475_2549	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Kingella denitrificans	VBIKinDen171475_0237	Uncharacterized protein ImpJ VasE
Kingella denitrificans	VBIKinDen171475_0415	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Kingella denitrificans	VBIKinDen171475_2140	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Kingella denitrificans	VBIKinDen171475_1421	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Kingella denitrificans	VBIKinDen171475_1555	Urease accessory protein UreG
Kingella denitrificans	VBIKinDen171475_0796	Uroporphyrinogen-III methyltransferase EC 2.1.1.107
Kingella denitrificans	VBIKinDen171475_0500	Uroporphyrinogen-III synthase EC 4.2.1.75
Kingella denitrificans	VBIKinDen171475_0291	VgrG protein
Kingella denitrificans	VBIKinDen171475_2221	Zinc ABC transporter 2C ATP-binding protein ZnuC
Kingella denitrificans	VBIKinDen171475_2442	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Kingella kingae	VBIKinDen174532_1422	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-

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Kingella kingae	VBIKinKin174532_1356	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Kingella kingae	VBIKinKin174532_1887	ABC transporter 2C ATP-binding protein
Kingella kingae	VBIKinKin174532_1903	ABC transporter related
Kingella kingae	VBIKinKin174532_1298	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Kingella kingae	VBIKinKin174532_1270	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Kingella kingae	VBIKinKin174532_1933	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Kingella kingae	VBIKinKin174532_1558	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Kingella kingae	VBIKinKin174532_0299	Magnesium and cobalt efflux protein CorC
Kingella kingae	VBIKinKin174532_1418	Membrane-associated zinc metalloprotease
Kingella kingae	VBIKinKin174532_1679	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Kingella kingae	VBIKinKin174532_2078	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Kingella kingae	VBIKinKin174532_1127	Outer membrane protein A precursor
Kingella kingae	VBIKinKin174532_1404	Outer membrane protein assembly factor YaeT precursor
Kingella kingae	VBIKinKin174532_0087	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Kingella kingae	VBIKinKin174532_1864	TonB-dependent siderophore receptor
Kingella kingae	VBIKinKin174532_1629	Transcriptional regulatory protein RtcR
Kingella kingae	VBIKinKin174532_1397	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Kingella kingae	VBIKinKin174532_1724	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Kingella kingae	VBIKinKin174532_1557	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Kingella oralis	VBIKinOra3868_2198	1-acyl-sn-glycerol-3-phosphate acyltransferase EC 2.3.1.51
Kingella oralis	VBIKinOra3868_0266	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Kingella oralis	VBIKinOra3868_1021	ABC transporter-related protein
Kingella oralis	VBIKinOra3868_1357	Alkaline protease secretion protein AprE
Kingella oralis	VBIKinOra3868_2531	Aspartate 1-decarboxylase EC 4.1.1.11
Kingella oralis	VBIKinOra3868_1234	ATP-dependent Clp protease ATP-binding subunit ClpA
Kingella oralis	VBIKinOra3868_1057	ClpB protein
Kingella oralis	VBIKinOra3868_0713	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Kingella oralis	VBIKinOra3868_2958	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Kingella oralis	VBIKinOra3868_2989	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Kingella oralis	VBIKinOra3868_2365	Enolase EC 4.2.1.11
Kingella oralis	VBIKinOra3868_0818	Ferrous iron transport protein B
Kingella oralis	VBIKinOra3868_1435	fimbrial biogenesis and twitching motility protein 2C probable NMB1309
Kingella oralis	VBIKinOra3868_2698	GDP-mannose 4 2C6-dehydratase EC 4.2.1.47
Kingella oralis	VBIKinOra3868_3016	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Kingella oralis	VBIKinOra3868_1560	Glutamate transport ATP-binding protein
Kingella oralis	VBIKinOra3868_2684	glycosyl transferase
Kingella oralis	VBIKinOra3868_2780	glycosyl transferase
Kingella oralis	VBIKinOra3868_1092	hypothetical protein
Kingella oralis	VBIKinOra3868_1074	hypothetical protein
Kingella oralis	VBIKinOra3868_1638	hypothetical protein
Kingella oralis	VBIKinOra3868_1637	hypothetical protein
Kingella oralis	VBIKinOra3868_1726	hypothetical protein
Kingella oralis	VBIKinOra3868_2572	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Kingella oralis	VBIKinOra3868_0033	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Kingella oralis	VBIKinOra3868_2686	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Kingella oralis	VBIKinOra3868_2951	N-Acetylneuraminatase cytidyltransferase EC 2.7.7.43
Kingella oralis	VBIKinOra3868_2754	NAD-dependent epimerase dehydratase family protein
Kingella oralis	VBIKinOra3868_2408	Nitrogen assimilation regulatory protein NtrX
Kingella oralis	VBIKinOra3868_2503	Nitrous oxide reductase maturation protein NosF ATPase
Kingella oralis	VBIKinOra3868_0725	outer membrane protein I precursor
Kingella oralis	VBIKinOra3868_1519	Phosphoglucosamine mutase EC 5.4.2.10
Kingella oralis	VBIKinOra3868_1381	putative cytolysin secretion ABC transporter
Kingella oralis	VBIKinOra3868_2202	Pyrrrole-5-carboxylate reductase EC 1.5.1.2
Kingella oralis	VBIKinOra3868_0416	sigma-54 dependent response regulator
Kingella oralis	VBIKinOra3868_0302	sigma-54 dependent response regulator
Kingella oralis	VBIKinOra3868_0559	sigma-54 dependent response regulator
Kingella oralis	VBIKinOra3868_1984	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_2047	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_1907	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_2134	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_1988	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_1889	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_2001	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_2002	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Kingella oralis	VBIKinOra3868_2516	Twitching motility protein PilT
Kingella oralis	VBIKinOra3868_2437	Two-component system response regulator QseB
Kingella oralis	VBIKinOra3868_0160	Type IV pilus biogenesis protein PilM
Kingella oralis	VBIKinOra3868_0206	Type IV pilus biogenesis protein PilN
Kingella oralis	VBIKinOra3868_0224	Type IV pilus biogenesis protein PilQ
Kingella oralis	VBIKinOra3868_1581	UDP-glucose 4-epimerase EC 5.1.3.2
Klebsiella pneumoniae	VBIKlePne146004_3147	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Klebsiella pneumoniae	VBIKlePne146004_1120	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Klebsiella pneumoniae	VBIKlePne146004_5164	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Klebsiella pneumoniae	VBIKlePne146004_3997	Phosphate regulon transcriptional regulatory protein PhoB SphR
Klebsiella pneumoniae	VBIKlePne146004_3080	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Klebsiella pneumoniae	VBIKlePne146004_2447	TonB-dependent siderophore receptor
Klebsiella pneumoniae	VBIKlePne146004_2429	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Klebsiella pneumoniae	VBIKlePne146004_3630	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Kytococcus sedentarius	VBIKytSed14067_2014	Ferric anguibactin transport system permease protein fatD

Kytococcus sedentarius	VBIKytSed14067_2133	Iron compound ABC uptake transporter substrate-binding protein PiuA
Kytococcus sedentarius	VBIKytSed14067_0817	Petrobactin ABC transporter 2C permease protein II
Kytococcus sedentarius	VBIKytSed14067_0671	Radical SAM family enzyme 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C clustered with nucleoside-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Kytococcus sedentarius	VBIKytSed14067_2291	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Lachnospiraceae oral taxon 082	VBILacBac168637_0702	Lipid A acylation protein PagP 2C palmitoyltransferase
Lachnospiraceae oral taxon 082	VBILacBac168637_2021	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Lachnospiraceae oral taxon 082	VBILacBac168637_0822	ABC-type multidrug transport system 2C ATPase component
Lachnospiraceae oral taxon 107	VBILacOra53760_2698	ABC-type multidrug transport system 2C permease component
Lachnospiraceae oral taxon 107	VBILacOra53760_0830	ABC-type multidrug transport system 2C permease component
Lachnospiraceae oral taxon 107	VBILacOra53760_0562	Alkaline protease secretion protein AprE
Lachnospiraceae oral taxon 107	VBILacOra53760_2799	Arabinose 5-phosphate isomerase EC 5.3.1.13
Lachnospiraceae oral taxon 107	VBILacOra53760_0019	Arabinose 5-phosphate isomerase EC 5.3.1.13
Lachnospiraceae oral taxon 107	VBILacOra53760_1636	ATP synthase beta chain EC 3.6.3.14
Lachnospiraceae oral taxon 107	VBILacOra53760_1800	bifunctional hemolysin-adenylate cyclase precursor
Lachnospiraceae oral taxon 107	VBILacOra53760_2645	CipB protein
Lachnospiraceae oral taxon 107	VBILacOra53760_2150	Enolase EC 4.2.1.11
Lachnospiraceae oral taxon 107	VBILacOra53760_2202	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bis(diphosphate) 3'-pyrophosphohydrolyase
Lachnospiraceae oral taxon 107	VBILacOra53760_0431	iron-regulated protein FrpA
Lachnospiraceae oral taxon 107	VBILacOra53760_2041	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Lachnospiraceae oral taxon 107	VBILacOra53760_2711	Membrane-associated zinc metalloprotease
Lachnospiraceae oral taxon 107	VBILacOra53760_2837	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Lachnospiraceae oral taxon 107	VBILacOra53760_2720	Nitrous oxide reductase maturation protein NosF ATPase
Lachnospiraceae oral taxon 107	VBILacOra53760_1941	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lachnospiraceae oral taxon 107	VBILacOra53760_2276	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lachnospiraceae oral taxon 107	VBILacOra53760_2204	Outer membrane hemoglobin-haptoglobin utilization protein HpuA
Lachnospiraceae oral taxon 107	VBILacOra53760_0265	Outer membrane protein class 1
Lachnospiraceae oral taxon 107	VBILacOra53760_2423	Porphobilinogen synthase EC 4.2.1.24
Lachnospiraceae oral taxon 107	VBILacOra53760_2845	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Lachnospiraceae oral taxon 107	VBILacOra53760_2847	Sel1 domain protein
Lachnospiraceae oral taxon 107	VBILacOra53760_1475	Sel1 domain protein
Lachnospiraceae oral taxon 107	VBILacOra53760_1322	Sel1 domain protein
Lachnospiraceae oral taxon 107	VBILacOra53760_0999	Sel1 domain protein
Lachnospiraceae oral taxon 107	VBILacOra53760_1003	Sel1 domain protein
Lachnospiraceae oral taxon 107	VBILacOra53760_1137	Sel1 domain protein repeat-containing protein
Lachnospiraceae oral taxon 107	VBILacOra53760_0876	Sel1 domain protein repeat-containing protein
Lachnospiraceae oral taxon 107	VBILacOra53760_0976	Sel1 domain protein repeat-containing protein
Lachnospiraceae oral taxon 107	VBILacOra53760_0892	Translation elongation factor Tu
Lachnospiraceae oral taxon 107	VBILacOra53760_0987	Two component system histidine kinase EC 2.7.3.-
Lachnospiraceae oral taxon 107	VBILacOra53760_2838	Type IV fimbrial assembly 2C ATPase PilB
Lachnospiraceae oral taxon 107	VBILacOra53760_2279	Type IV fimbrial assembly protein PilC
Lachnospiraceae oral taxon 107	VBILacOra53760_2404	Type IV fimbrial biogenesis protein PilY1
Lachnospiraceae oral taxon 107	VBILacOra53760_1629	Zinc ABC transporter 2C inner membrane permease protein ZnuB
Lachnospiraceae oral taxon 107	VBILacOra53760_2431	2 2C3-butanediol dehydrogenase 2C S-alcohol forming 2C S-acetoin-specific EC 1.1.1.76
Lactobacillus acidophilus	VBILacAci7974_0202	ABC-transport system ATP-binding protein
Lactobacillus acidophilus	VBILacAci137213_1690	Bacillosamine Legionaminic acid biosynthesis aminotransferase PglE 3B 4-keto-6-deoxy-N-Acetyl-D-hexosaminy-Lipid c
Lactobacillus acidophilus	VBILacAci137213_0387	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus acidophilus	VBILacAci137213_1453	Ferric iron ABC transporter 2C iron-binding protein
Lactobacillus acidophilus	VBILacAci137213_1887	Ferric iron ABC transporter 2C permease protein
Lactobacillus acidophilus	VBILacAci137213_1756	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Lactobacillus acidophilus	VBILacAci137213_0944	FIG00850595 hypothetical protein
Lactobacillus acidophilus	VBILacAci137213_0451	FKBP-type peptidyl-prolyl cis-trans isomerase fklB EC 5.2.1.8
Lactobacillus acidophilus	VBILacAci7974_0442	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Lactobacillus acidophilus	VBILacAci137213_0895	Glucose-6-phosphate isomerase EC 5.3.1.9
Lactobacillus acidophilus	VBILacAci137213_1603	Glutamate transport ATP-binding protein
Lactobacillus acidophilus	VBILacAci137213_0318	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bis(diphosphate) 3'-pyrophosphohydrolyase
Lactobacillus acidophilus	VBILacAci137213_0423	hypothetical protein
Lactobacillus acidophilus	VBILacAci7974_0678	hypothetical protein
Lactobacillus acidophilus	VBILacAci7974_1236	hypothetical protein
Lactobacillus acidophilus	VBILacAci7974_1179	hypothetical protein
Lactobacillus acidophilus	VBILacAci7974_0709	hypothetical protein
Lactobacillus acidophilus	VBILacAci7974_0698	hypothetical protein
Lactobacillus acidophilus	VBILacAci7974_1134	hypothetical protein
Lactobacillus acidophilus	VBILacAci7974_0192	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Lactobacillus acidophilus	VBILacAci7974_1555	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Lactobacillus acidophilus	VBILacAci137213_1494	MotA TolQ ExbB proton channel family protein
Lactobacillus acidophilus	VBILacAci7974_1765	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Lactobacillus acidophilus	VBILacAci137213_1734	Nitrogen assimilation regulatory protein NtrX
Lactobacillus acidophilus	VBILacAci137213_1699	Phosphoglucosamine mutase EC 5.4.2.10
Lactobacillus acidophilus	VBILacAci137213_1913	Porphobilinogen deaminase EC 2.5.1.61
Lactobacillus acidophilus	VBILacAci7974_1656	Putrescine transport ATP-binding protein PotG TC 3.A.1.11.2
Lactobacillus acidophilus	VBILacAci7974_0500	RNA polymerase sigma factor RpoD
Lactobacillus acidophilus	VBILacAci137213_1079	Sel1 domain protein repeat-containing protein
Lactobacillus acidophilus	VBILacAci137213_0040	Twitching motility protein PilT
Lactobacillus acidophilus	VBILacAci137213_0408	Type IV pilus biogenesis protein PilF
Lactobacillus acidophilus	VBILacAci137213_1888	UDP-2 2C3-diacetylglucosamine hydrolase EC 3.6.1.-
Lactobacillus acidophilus	VBILacAci7974_0153	UDP-glucose 4-epimerase EC 5.1.3.2
Lactobacillus brevis	VBILacBre13134_1571	ABC transporter 2C ATP-binding protein
Lactobacillus brevis	VBILacBre134470_1517	ABC transporter protein IroC
Lactobacillus brevis	VBILacBre134470_1674	ABC transporter protein IroC

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Lactobacillus brevis	VBILacBre134470_0951	Cell division trigger factor EC 5.2.1.8
Lactobacillus brevis	VBILacBre134470_1325	Enolase EC 4.2.1.11
Lactobacillus brevis	VBILacBre134470_1768	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Lactobacillus brevis	VBILacBre13134_1962	Lipid-A-disaccharide synthase EC 2.4.1.182
Lactobacillus brevis	VBILacBre134470_1489	mannose-specific adhesin FimH
Lactobacillus brevis	VBILacBre134470_0667	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Lactobacillus brevis	VBILacBre13134_1858	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Lactobacillus brevis	VBILacBre13134_2817	Transcriptional regulatory protein RtcR
Lactobacillus brevis	VBILacBre13134_1099	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Lactobacillus brevis	VBILacBre134470_0608	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Lactobacillus buchneri	VBILacBuc113131_0208	ABC transporter 2C ATP-binding protein
Lactobacillus buchneri	VBILacBuc105504_1912	ABC-type Fe3+-siderophore transport system 2C ATPase component
Lactobacillus buchneri	VBILacBuc105504_0957	ABC-type multidrug transport system 2C ATPase component
Lactobacillus buchneri	VBILacBuc105504_0111	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Lactobacillus buchneri	VBILacBuc113131_1472	ATP synthase beta chain EC 3.6.3.14
Lactobacillus buchneri	VBILacBuc113131_0829	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus buchneri	VBILacBuc113131_2491	Cation transport ATPase
Lactobacillus buchneri	VBILacBuc105504_0933	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Lactobacillus buchneri	VBILacBuc113131_1097	Late competence protein ComGA 2C access of DNA to ComEA
Lactobacillus buchneri	VBILacBuc113131_2632	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Lactobacillus buchneri	VBILacBuc113131_0288	PII-type proteinase precursor EC 3.4.21.96
Lactobacillus buchneri	VBILacBuc105504_0970	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus buchneri	VBILacBuc113131_1704	RNA polymerase sigma factor RpoD
Lactobacillus buchneri	VBILacBuc105504_0050	Selenocysteine-specific translation elongation factor
Lactobacillus buchneri	VBILacBuc113131_2036	Sortase A 2C LPXTG specific
Lactobacillus buchneri	VBILacBuc105504_1235	Translation elongation factor Tu
Lactobacillus buchneri	VBILacBuc113131_1367	Two-component system histidine kinase
Lactobacillus buchneri	VBILacBuc105504_0511	Type IV pilus biogenesis protein PilQ
Lactobacillus buchneri	VBILacBuc113131_0912	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158
Lactobacillus casei	VBILacCas45142_1891	ABC-type multidrug transport system 2C ATPase and permease components
Lactobacillus casei	VBILacCas89204_0105	ABC-type multidrug transport system 2C ATPase and permease components
Lactobacillus casei	VBILacCas89204_2269	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Lactobacillus casei	VBILacCas89204_0981	Bacteriocin ABC-transporter 2C ATP-binding and permease component
Lactobacillus casei	VBILacCas45142_0261	Heat shock protein 60 family chaperone GroEL
Lactobacillus casei	VBILacCas45142_1869	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Lactobacillus casei	VBILacCas89204_2977	Mg2+ transport ATPase 2C P-type EC 3.6.3.2
Lactobacillus casei	VBILacCas45142_1052	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus casei	VBILacCas89204_2636	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lactobacillus casei	VBILacCas89204_1466	sensor protein
Lactobacillus casei	VBILacCas89204_1988	Surface protein Rib
Lactobacillus casei	VBILacCas89204_1942	Surface protein Rib
Lactobacillus casei	VBILacCas89204_2121	Surface protein Rib
Lactobacillus casei	VBILacCas89204_2119	Surface protein Rib
Lactobacillus casei	VBILacCas89204_2256	Surface protein Rib
Lactobacillus casei	VBILacCas89204_1603	two-component system response regulator
Lactobacillus coleohominis	VBILacCol129754_1676	ABC-type multidrug transport system 2C ATPase and permease components
Lactobacillus coleohominis	VBILacCol129754_0061	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Lactobacillus coleohominis	VBILacCol129754_0251	Late competence protein ComGA 2C access of DNA to ComEA
Lactobacillus coleohominis	VBILacCol129754_0380	Mannose-6-phosphate isomerase EC 5.3.1.8
Lactobacillus coleohominis	VBILacCol129754_0968	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lactobacillus coleohominis	VBILacCol129754_0106	Putative mannosyltransferase involved in polysaccharide biosynthesis
Lactobacillus coleohominis	VBILacCol129754_0250	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus coleohominis	VBILacCol129754_0955	RNA polymerase sigma factor RpoD
Lactobacillus coleohominis	VBILacCol129754_0957	Sortase A 2C LPXTG specific
Lactobacillus coleohominis	VBILacCol129754_1571	Surface protein Rib
Lactobacillus coleohominis	VBILacCol129754_1135	Surface protein Rib
Lactobacillus coleohominis	VBILacCol129754_1095	Surface protein Rib
Lactobacillus coleohominis	VBILacCol129754_1011	Surface protein Rib
Lactobacillus coleohominis	VBILacCol129754_1193	Surface protein Rib
Lactobacillus crispatus	VBILacCri16252_0580	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Lactobacillus crispatus	VBILacCri16252_0874	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Lactobacillus crispatus	VBILacCri68631_0447	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Lactobacillus crispatus	VBILacCri90530_1226	ABC transporter 2C ATP-binding protein
Lactobacillus crispatus	VBILacCri66009_1376	ABC transporter 2C ATP-binding protein
Lactobacillus crispatus	VBILacCri68631_0021	ABC transporter 2C ATP-binding protein
Lactobacillus crispatus	VBILacCri90530_1805	Alpha-D-GlcNAc alpha-1 2C2-L-rhamnosyltransferase EC 2.4.1.-
Lactobacillus crispatus	VBILacCri16252_0491	ATP synthase beta chain EC 3.6.3.14
Lactobacillus crispatus	VBILacCri66009_1304	ATP synthase beta chain EC 3.6.3.14
Lactobacillus crispatus	VBILacCri68631_1403	ATP-dependent protease ATP-binding subunit clpL
Lactobacillus crispatus	VBILacCri68631_1858	Cell division trigger factor EC 5.2.1.8
Lactobacillus crispatus	VBILacCri68631_1310	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Lactobacillus crispatus	VBILacCri66009_0509	CoA-acylating propionaldehyde dehydrogenase
Lactobacillus crispatus	VBILacCri66009_1088	DNA-binding response regulator 2C OmpR family
Lactobacillus crispatus	VBILacCri68631_1584	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Lactobacillus crispatus	VBILacCri16252_0252	Enolase EC 4.2.1.11
Lactobacillus crispatus	VBILacCri90530_0158	Ferrous iron transport protein B
Lactobacillus crispatus	VBILacCri68631_1681	FIG00745314 hypothetical protein
Lactobacillus crispatus	VBILacCri68631_0173	FIG00751048 hypothetical protein
Lactobacillus crispatus	VBILacCri66009_1035	glycosyl transferase 2C group 1

Lactobacillus crispatus	VBILacCri90530_1507	glycosyl transferase family 2
Lactobacillus crispatus	VBILacCri68631_0710	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Lactobacillus crispatus	VBILacCri68631_0400	Hemolysins and related proteins containing CBS domains
Lactobacillus crispatus	VBILacCri68631_1311	Lipid A export ATP-binding permease protein MsbA
Lactobacillus crispatus	VBILacCri16252_0045	Lipid A export ATP-binding permease protein MsbA
Lactobacillus crispatus	VBILacCri90530_0019	Lipoate-protein ligase A
Lactobacillus crispatus	VBILacCri68631_0484	Lipoate-protein ligase A
Lactobacillus crispatus	VBILacCri16252_1804	N-acetylmuramoyl-L-alanine amidase 2C family 4
Lactobacillus crispatus	VBILacCri16252_0528	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Lactobacillus crispatus	VBILacCri68631_0206	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Lactobacillus crispatus	VBILacCri66009_1985	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Lactobacillus crispatus	VBILacCri66009_0524	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Lactobacillus crispatus	VBILacCri68631_1768	Prolipoprotein diacylglycerol transferase EC 2.4.99.-
Lactobacillus crispatus	VBILacCri16252_1781	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus crispatus	VBILacCri68631_0620	PrfP precursor
Lactobacillus crispatus	VBILacCri16252_0904	PrfP precursor
Lactobacillus crispatus	VBILacCri90530_1967	Putative ABC transporter ATP-binding protein 2C spy1790 homolog
Lactobacillus crispatus	VBILacCri66009_0535	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus crispatus	VBILacCri66009_1853	RNA binding methyltransferase FtsJ like
Lactobacillus crispatus	VBILacCri16252_1810	RNA binding methyltransferase FtsJ like
Lactobacillus crispatus	VBILacCri66009_0974	Serine protease 2C DegP Htra 2C do-like EC 3.4.21.-
Lactobacillus crispatus	VBILacCri16252_1839	Translation elongation factor Tu
Lactobacillus crispatus	VBILacCri16252_1275	Translation elongation factor Tu
Lactobacillus crispatus	VBILacCri90530_2164	Transport ATP-binding protein CydC
Lactobacillus crispatus	VBILacCri68631_1025	Transport ATP-binding protein CydD
Lactobacillus crispatus	VBILacCri68631_0333	Two-component response regulator SA14-24
Lactobacillus crispatus	VBILacCri66009_0908	Tyrosine-protein kinase EpsD EC 2.7.10.2
Lactobacillus crispatus	VBILacCri68631_0798	Tyrosine-protein kinase EpsD EC 2.7.10.2
Lactobacillus crispatus	VBILacCri66009_0377	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Lactobacillus fermentum	VBILacFer68609_0152	ABC transporter ATP-binding protein YvcR
Lactobacillus fermentum	VBILacFer94112_0288	Catabolite control protein A
Lactobacillus fermentum	VBILacFer68609_0274	Cell division trigger factor EC 5.2.1.8
Lactobacillus fermentum	VBILacFer94112_0873	Enolase EC 4.2.1.11
Lactobacillus fermentum	VBILacFer94112_0180	Glycosyltransferase
Lactobacillus fermentum	VBILacFer94112_0393	Lipid A export ATP-binding permease protein MsbA
Lactobacillus fermentum	VBILacFer68609_1289	Lipoate-protein ligase A
Lactobacillus fermentum	VBILacFer68609_1057	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lactobacillus fermentum	VBILacFer68609_0741	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Lactobacillus fermentum	VBILacFer68609_1630	Polyglycerol-phosphate alpha-glucosyltransferase EC 2.4.1.52
Lactobacillus fermentum	VBILacFer94112_1207	putative ATP-dependent Clp proteinase ATP-binding subunit
Lactobacillus fermentum	VBILacFer94112_1136	putative ATP-dependent Clp proteinase ATP-binding subunit
Lactobacillus fermentum	VBILacFer94112_1769	sensor histidine kinase
Lactobacillus fermentum	VBILacFer68609_0434	two component transcriptional regulator 2C winged helix family
Lactobacillus fermentum	VBILacFer68609_1602	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus fermentum	VBILacFer94112_1109	UDP-glucose 4-epimerase EC 5.1.3.2
Lactobacillus gasseri	VBILacGas62225_1515	2 C3-butanediol dehydrogenase 2C S-alcohol forming 2C R-acetoin-specific EC 1.1.1.4 Acetoin diacetyl reductase EC
Lactobacillus gasseri	VBILacGas103493_1276	ABC transporter 2C ATP-binding and permease protein
Lactobacillus gasseri	VBILacGas62225_0215	ABC transporter 2C ATP-binding and permease protein
Lactobacillus gasseri	VBILacGas62225_0158	ABC transporter 2C ATP-binding permease protein
Lactobacillus gasseri	VBILacGas39627_0591	ABC transporter 2C ATP-binding permease protein
Lactobacillus gasseri	VBILacGas62225_1101	ABC transporter 2C ATP-binding permease protein
Lactobacillus gasseri	VBILacGas103493_0903	ABC transporter 2C ATP-binding permease protein
Lactobacillus gasseri	VBILacGas103493_0117	ABC transporter 2C ATP-binding permease protein
Lactobacillus gasseri	VBILacGas103493_1336	ABC transporter 2C ATP-binding protein
Lactobacillus gasseri	VBILacGas39627_0419	ABC transporter permease component
Lactobacillus gasseri	VBILacGas103493_0968	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Lactobacillus gasseri	VBILacGas103492_0899	ATP synthase beta chain EC 3.6.3.14
Lactobacillus gasseri	VBILacGas39627_0045	ATP synthase beta chain EC 3.6.3.14
Lactobacillus gasseri	VBILacGas39627_0678	ATP synthase beta chain EC 3.6.3.14
Lactobacillus gasseri	VBILacGas39627_0958	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus gasseri	VBILacGas39627_1648	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus gasseri	VBILacGas62225_1158	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus gasseri	VBILacGas39627_1622	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus gasseri	VBILacGas39627_1608	ATPase component of general energizing module of ECF transporters
Lactobacillus gasseri	VBILacGas39627_1602	Bactoprenol glucosyl transferase EC 2.4.1.-
Lactobacillus gasseri	VBILacGas103492_0002	Beta-1 2C3-glucosyltransferase
Lactobacillus gasseri	VBILacGas103492_0207	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Lactobacillus gasseri	VBILacGas62225_1275	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Lactobacillus gasseri	VBILacGas39627_0548	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Lactobacillus gasseri	VBILacGas39627_1532	Diaminopimelate decarboxylase EC 4.1.1.20
Lactobacillus gasseri	VBILacGas39627_0256	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Lactobacillus gasseri	VBILacGas103493_0561	Glutamine ABC transporter 2C periplasmic glutamine-binding protein TC 3.A.1.3.2
Lactobacillus gasseri	VBILacGas39627_1643	Heat shock protein 60 family chaperone GroEL
Lactobacillus gasseri	VBILacGas62225_1298	Membrane protein
Lactobacillus gasseri	VBILacGas62225_1308	Membrane protein
Lactobacillus gasseri	VBILacGas62225_1264	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Lactobacillus gasseri	VBILacGas62225_0353	Methionine ABC transporter ATP-binding protein
Lactobacillus gasseri	VBILacGas39627_0459	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus gasseri	VBILacGas103493_0435	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1

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Lactobacillus gasseri	VBILacGas103493_1617	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Lactobacillus gasseri	VBILacGas62225_0067	Phosphate regulon sensor protein PhoR SphS EC 2.7.13.3
Lactobacillus gasseri	VBILacGas39627_1631	Phosphonate ABC transporter ATP-binding protein TC 3.A.1.9.1
Lactobacillus gasseri	VBILacGas62225_0553	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus gasseri	VBILacGas39627_0956	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus gasseri	VBILacGas103492_0453	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus gasseri	VBILacGas62225_0826	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus gasseri	VBILacGas103492_0472	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus gasseri	VBILacGas103493_1242	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus gasseri	VBILacGas62225_0352	Response regulators consisting of a CheY-like receiver domain and a winged-helix DNA-binding domain
Lactobacillus gasseri	VBILacGas62225_0403	RNA polymerase sigma factor RpoD
Lactobacillus gasseri	VBILacGas62225_0276	Sortase A 2C LPXTG specific
Lactobacillus gasseri	VBILacGas39627_0295	Translation elongation factor Tu
Lactobacillus gasseri	VBILacGas103493_0518	Transport ATP-binding protein CydC
Lactobacillus gasseri	VBILacGas62225_1724	two-component system response regulator
Lactobacillus gasseri	VBILacGas39627_0440	Tyrosine-protein kinase EpsD EC 2.7.10.2
Lactobacillus gasseri	VBILacGas62225_0538	Tyrosine-protein kinase EpsD EC 2.7.10.2
Lactobacillus iners	VBILacIne171003_0120	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Lactobacillus iners	VBILacIne96327_1034	ABC transporter 2C ATP-binding permease protein
Lactobacillus iners	VBILacIne171003_0335	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Lactobacillus iners	VBILacIne170485_0556	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Lactobacillus iners	VBILacIne154546_0846	ATP-dependent Clp protease 2C ATP-binding subunit ClpE
Lactobacillus iners	VBILacIne96327_0242	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus iners	VBILacIne171003_0453	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus iners	VBILacIne96327_0033	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus iners	VBILacIne96327_0728	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus iners	VBILacIne96327_0767	Calcium-transporting ATPase EC 3.6.3.8
Lactobacillus iners	VBILacIne170485_0582	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Lactobacillus iners	VBILacIne154546_0100	chologylglycine hydrolase
Lactobacillus iners	VBILacIne154546_0879	chologylglycine hydrolase
Lactobacillus iners	VBILacIne96327_0489	COG1272 Predicted membrane protein hemolysin III homolog
Lactobacillus iners	VBILacIne96327_0747	Glutamate transport ATP-binding protein
Lactobacillus iners	VBILacIne154546_0074	Glycosyl transferase 2C family 2
Lactobacillus iners	VBILacIne96327_0243	Hemolysins and related proteins containing CBS domains
Lactobacillus iners	VBILacIne96327_1002	Lipid A export ATP-binding permease protein MsbA
Lactobacillus iners	VBILacIne170485_0025	Lipoate-protein ligase A
Lactobacillus iners	VBILacIne171003_0838	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lactobacillus iners	VBILacIne170485_0726	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Lactobacillus iners	VBILacIne170485_1094	Phosphoglucosamine mutase EC 5.4.2.10
Lactobacillus iners	VBILacIne171003_0731	Polysaccharide biosynthesis protein CpsMV
Lactobacillus iners	VBILacIne171003_0145	Polysaccharide biosynthesis protein CpsMV
Lactobacillus iners	VBILacIne154546_0442	Respiratory nitrate reductase beta chain EC 1.7.99.4
Lactobacillus iners	VBILacIne96327_0507	Translation elongation factor Tu
Lactobacillus iners	VBILacIne171003_0525	Translation elongation factor Tu
Lactobacillus iners	VBILacIne96327_0721	Two-component system histidine kinase
Lactobacillus iners	VBILacIne154546_0717	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus iners	VBILacIne171003_0894	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Lactobacillus jensenii	VBILacJen111417_0313	ABC transporter ATP-binding protein
Lactobacillus jensenii	VBILacJen111417_0115	ABC transporter ATPase and permease components
Lactobacillus jensenii	VBILacJen111417_0335	ABC transporter ATPase and permease components
Lactobacillus jensenii	VBILacJen15106_0651	ABC transporter membrane-spanning permease - glutamine transport
Lactobacillus jensenii	VBILacJen111417_0587	ABC-type multidrug transport system 2C ATPase and permease components
Lactobacillus jensenii	VBILacJen15106_0758	ABC-type polar amino acid transport system 2C ATPase component
Lactobacillus jensenii	VBILacJen111417_1056	Amino acid transport ATP-binding protein
Lactobacillus jensenii	VBILacJen111417_0370	ATP synthase beta chain EC 3.6.3.14
Lactobacillus jensenii	VBILacJen15106_0558	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus jensenii	VBILacJen42595_1007	D-alanyl transfer protein DltB
Lactobacillus jensenii	VBILacJen111417_1103	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus jensenii	VBILacJen42595_1501	Enolase EC 4.2.1.11
Lactobacillus jensenii	VBILacJen42595_1211	Enolase EC 4.2.1.11
Lactobacillus jensenii	VBILacJen15106_0128	FIG00746850 hypothetical protein
Lactobacillus jensenii	VBILacJen111417_0758	Heat shock protein 60 family chaperone GroEL
Lactobacillus jensenii	VBILacJen42595_1282	Heat shock protein 60 family chaperone GroEL
Lactobacillus jensenii	VBILacJen34656_0250	Heat shock protein 60 family chaperone GroEL
Lactobacillus jensenii	VBILacJen111417_0016	Hemolysins and related proteins containing CBS domains
Lactobacillus jensenii	VBILacJen34656_1334	Hemolysins and related proteins containing CBS domains
Lactobacillus jensenii	VBILacJen111417_1258	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Lactobacillus jensenii	VBILacJen111417_0489	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Lactobacillus jensenii	VBILacJen42595_0085	Methionine ABC transporter ATP-binding protein
Lactobacillus jensenii	VBILacJen15106_0249	Multiple sugar ABC transporter 2C ATP-binding protein
Lactobacillus jensenii	VBILacJen34656_1177	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Lactobacillus jensenii	VBILacJen111417_0470	Phosphoglucosamine mutase EC 5.4.2.10
Lactobacillus jensenii	VBILacJen111417_1471	Phosphoglucosamine mutase EC 5.4.2.10 Phosphomannomutase EC 5.4.2.8
Lactobacillus jensenii	VBILacJen15106_0047	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus jensenii	VBILacJen42595_1497	Putative mannosyltransferase involved in polysaccharide biosynthesis
Lactobacillus jensenii	VBILacJen42595_0655	RNA polymerase sigma factor RpoD
Lactobacillus jensenii	VBILacJen15106_0116	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Lactobacillus jensenii	VBILacJen42595_1171	Two-component system histidine kinase
Lactobacillus jensenii	VBILacJen42595_1153	Two-component system histidine kinase

Table S8

Lactobacillus jensenii	VBILacJen111417_1259	Tyrosine-protein kinase EpsD EC 2.7.10.2
Lactobacillus jensenii	VBILacJen15106_0113	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Lactobacillus johnsonii	VBILacJoh137736_1249	Amino acid transport ATP-binding protein
Lactobacillus johnsonii	VBILacJoh137736_0701	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Lactobacillus johnsonii	VBILacJoh1832_1716	Cell division trigger factor EC 5.2.1.8
Lactobacillus johnsonii	VBILacJoh81045_1610	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Lactobacillus johnsonii	VBILacJoh81045_0396	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Lactobacillus johnsonii	VBILacJoh137736_0821	D-alanyl transfer protein DltB
Lactobacillus johnsonii	VBILacJoh81045_0129	D-alanyl transfer protein DltB
Lactobacillus johnsonii	VBILacJoh137736_0691	Enolase EC 4.2.1.11
Lactobacillus johnsonii	VBILacJoh1832_1024	Enolase EC 4.2.1.11
Lactobacillus johnsonii	VBILacJoh1832_0410	Enolase EC 4.2.1.11
Lactobacillus johnsonii	VBILacJoh1832_1841	Fibronectin-binding protein
Lactobacillus johnsonii	VBILacJoh137736_1103	Fibronectin-binding protein
Lactobacillus johnsonii	VBILacJoh81045_0027	fructose response regulator of fruA and EII fructose mannose
Lactobacillus johnsonii	VBILacJoh81045_0876	Glycosyltransferase
Lactobacillus johnsonii	VBILacJoh1832_1677	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Lactobacillus johnsonii	VBILacJoh137736_1104	Heat shock protein 60 family chaperone GroEL
Lactobacillus johnsonii	VBILacJoh137736_1285	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Lactobacillus johnsonii	VBILacJoh137736_1446	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Lactobacillus johnsonii	VBILacJoh81045_0631	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Lactobacillus johnsonii	VBILacJoh1832_0608	Methionine ABC transporter ATP-binding protein
Lactobacillus johnsonii	VBILacJoh137736_0824	Na ⁺ ABC transporter ATP-binding protein
Lactobacillus johnsonii	VBILacJoh137736_0926	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lactobacillus johnsonii	VBILacJoh137736_1106	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lactobacillus johnsonii	VBILacJoh137736_1248	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Lactobacillus johnsonii	VBILacJoh81045_0719	Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Lactobacillus johnsonii	VBILacJoh137736_1494	Phosphoglucosamine mutase EC 5.4.2.10 Phosphomannomutase EC 5.4.2.8
Lactobacillus johnsonii	VBILacJoh1832_1112	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus johnsonii	VBILacJoh137736_1472	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus johnsonii	VBILacJoh137736_0553	putative bacteriocin ABC transporter
Lactobacillus johnsonii	VBILacJoh137736_0659	Putative mannosyltransferase involved in polysaccharide biosynthesis
Lactobacillus johnsonii	VBILacJoh1832_1715	RNA polymerase sigma factor RpoD
Lactobacillus johnsonii	VBILacJoh1832_1022	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Lactobacillus johnsonii	VBILacJoh137736_1102	Translation elongation factor Tu
Lactobacillus johnsonii	VBILacJoh81045_0002	Two-component response regulator SA14-24
Lactobacillus johnsonii	VBILacJoh1832_0349	Two-component system histidine kinase
Lactobacillus johnsonii	VBILacJoh81045_1232	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus johnsonii	VBILacJoh1832_1550	UDP-glucose 4-epimerase EC 5.1.3.2
Lactobacillus johnsonii	VBILacJoh137736_1656	Zinc ABC transporter 2C ATP-binding protein ZnuC
Lactobacillus kisonensis	VBILacKis163084_0974	ABC transporter 2C ATP-binding protein EcsA
Lactobacillus kisonensis	VBILacKis163084_0603	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus kisonensis	VBILacKis163084_0160	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus kisonensis	VBILacKis163084_2258	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_1324	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_2080	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_1334	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_2485	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_2987	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_2929	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_1807	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_2450	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_2634	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus kisonensis	VBILacKis163084_0106	Methionine ABC transporter ATP-binding protein
Lactobacillus kisonensis	VBILacKis163084_0011	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Lactobacillus kisonensis	VBILacKis163084_1248	Sortase A 2C LPXTG specific
Lactobacillus kisonensis	VBILacKis163084_0320	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Lactobacillus oris	VBILacOri177432_1519	ABC transporter 2C ATP-binding permease protein
Lactobacillus oris	VBILacOri169381_1182	cation-transporting ATPase 2C E1-E2 family
Lactobacillus oris	VBILacOri169381_1259	Enolase EC 4.2.1.11
Lactobacillus oris	VBILacOri177432_0574	Glutamate transport ATP-binding protein
Lactobacillus oris	VBILacOri177432_0077	hypothetical protein
Lactobacillus oris	VBILacOri169381_1990	hypothetical protein
Lactobacillus oris	VBILacOri169381_0064	Indole-3-glycerol phosphate synthase EC 4.1.1.48
Lactobacillus oris	VBILacOri169381_1569	Ornithine carbamoyltransferase EC 2.1.3.3
Lactobacillus oris	VBILacOri169381_0374	RNA polymerase sigma factor RpoD
Lactobacillus oris	VBILacOri177432_1375	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Lactobacillus oris	VBILacOri169381_0694	UDP-glucose 4-epimerase EC 5.1.3.2
Lactobacillus paracasei	VBILacPar51859_1587	ABC transporter ATPase component
Lactobacillus paracasei	VBILacPar51859_2647	Fibronectin-binding protein
Lactobacillus paracasei	VBILacPar66337_0966	Glycosyltransferases involved in cell wall biogenesis
Lactobacillus paracasei	VBILacPar51859_0508	Phosphatidate cytidyltransferase EC 2.7.7.41
Lactobacillus paracasei	VBILacPar66337_0892	Polysaccharide biosynthesis protein CpsMV
Lactobacillus paracasei	VBILacPar51859_0545	RNA polymerase sigma factor RpoD
Lactobacillus parafarraginis	VBILacPar162065_0995	Beta-1 2C3-glucosyltransferase
Lactobacillus parafarraginis	VBILacPar162065_2748	Calcium-transporting ATPase EC 3.6.3.8
Lactobacillus parafarraginis	VBILacPar162065_2601	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus parafarraginis	VBILacPar162065_1522	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus parafarraginis	VBILacPar162065_1655	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158

Table S8

Lactobacillus parafarraginis	VBILacPar162065_1288	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Lactobacillus pentosus	VBILacPen232155_2393	ABC transporter ATPase and permease components
Lactobacillus pentosus	VBILacPen232155_1889	ABC transporter ATPase component
Lactobacillus pentosus	VBILacPen232155_2262	ABC-type multidrug transport system 2C ATPase and permease components
Lactobacillus pentosus	VBILacPen232155_0986	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus pentosus	VBILacPen232155_0228	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus pentosus	VBILacPen232155_0186	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus pentosus	VBILacPen232155_1788	Enolase EC 4.2.1.11
Lactobacillus pentosus	VBILacPen232155_2573	FIG00745466 hypothetical protein
Lactobacillus pentosus	VBILacPen232155_1295	Glutamate transport ATP-binding protein
Lactobacillus pentosus	VBILacPen232155_0171	hypothetical protein
Lactobacillus pentosus	VBILacPen232155_1622	Lipid A export ATP-binding permease protein MsbA
Lactobacillus pentosus	VBILacPen232155_1866	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Lactobacillus pentosus	VBILacPen232155_1500	Mg2+ transport ATPase 2C P-type EC 3.6.3.2
Lactobacillus pentosus	VBILacPen232155_1087	Protein export cytoplasm protein SecA2 ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus pentosus	VBILacPen232155_0144	UDP-glucose 4-epimerase EC 5.1.3.2
Lactobacillus plantarum	VBILacPla68346_1031	ABC-type multidrug protein lipid transport system 2C ATPase component
Lactobacillus plantarum	VBILacPla14617_0236	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Lactobacillus plantarum	VBILacPla68346_2011	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Lactobacillus plantarum	VBILacPla68346_1681	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Lactobacillus plantarum	VBILacPla68346_1651	ATP synthase beta chain EC 3.6.3.14
Lactobacillus plantarum	VBILacPla14617_1119	ATP synthase beta chain EC 3.6.3.14
Lactobacillus plantarum	VBILacPla14617_1369	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus plantarum	VBILacPla14617_1544	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus plantarum	VBILacPla14617_1395	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus plantarum	VBILacPla68346_1136	CDP-glycerolpolyglycerophosphate glycerophosphotransferase EC 2.7.8.12
Lactobacillus plantarum	VBILacPla14617_2276	Cell division trigger factor EC 5.2.1.8
Lactobacillus plantarum	VBILacPla68346_2738	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Lactobacillus plantarum	VBILacPla14617_1923	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus plantarum	VBILacPla14617_1941	Enolase EC 4.2.1.11
Lactobacillus plantarum	VBILacPla68346_0279	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Lactobacillus plantarum	VBILacPla68346_0631	Glycerol-3-phosphate ABC transporter 2C ATP-binding protein UgpC TC 3.A.1.1.3
Lactobacillus plantarum	VBILacPla14617_2791	Heat shock protein 60 family chaperone GroEL
Lactobacillus plantarum	VBILacPla14617_1135	Lipid A export ATP-binding permease protein MsbA
Lactobacillus plantarum	VBILacPla14617_2105	Lipoate-protein ligase A
Lactobacillus plantarum	VBILacPla14617_0732	N-acetylmannosaminyltransferase EC 2.4.1.187
Lactobacillus plantarum	VBILacPla14617_2563	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus plantarum	VBILacPla68346_0054	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus plantarum	VBILacPla68346_1353	Phosphatidate cytidyltransferase EC 2.7.7.41
Lactobacillus plantarum	VBILacPla68346_1720	Phosphoglucosamine mutase EC 5.4.2.10
Lactobacillus plantarum	VBILacPla68346_2032	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Lactobacillus plantarum	VBILacPla68346_0654	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Lactobacillus plantarum	VBILacPla68346_1072	Transport ATP-binding protein CydD
Lactobacillus plantarum	VBILacPla68346_2929	Two component system histidine kinase EC 2.7.3.-
Lactobacillus plantarum	VBILacPla14617_1090	Two-component system histidine kinase
Lactobacillus plantarum	VBILacPla14617_1123	wbcl
Lactobacillus plantarum	VBILacPla14617_1100	YbbL ABC transporter ATP-binding protein
Lactobacillus reuteri	VBILacReu111271_1426	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Lactobacillus reuteri	VBILacReu127513_1208	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Lactobacillus reuteri	VBILacReu87937_1341	ABC transporter ATP-binding protein YvcR
Lactobacillus reuteri	VBILacReu127513_1383	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Lactobacillus reuteri	VBILacReu127513_1295	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Lactobacillus reuteri	VBILacReu111271_0037	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Lactobacillus reuteri	VBILacReu111271_1217	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Lactobacillus reuteri	VBILacReu87937_1083	ATP synthase alpha chain EC 3.6.3.14
Lactobacillus reuteri	VBILacReu112121_1135	ATP synthase alpha chain EC 3.6.3.14
Lactobacillus reuteri	VBILacReu111271_1100	ATP synthase beta chain EC 3.6.3.14
Lactobacillus reuteri	VBILacReu87937_1303	ATP synthase beta chain EC 3.6.3.14
Lactobacillus reuteri	VBILacReu127513_1219	capsular polysaccharide biosynthesis protein
Lactobacillus reuteri	VBILacReu127513_1362	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Lactobacillus reuteri	VBILacReu87937_0429	Choline binding protein A
Lactobacillus reuteri	VBILacReu87937_0438	Choline binding protein A
Lactobacillus reuteri	VBILacReu87937_0421	Choline binding protein A
Lactobacillus reuteri	VBILacReu87937_0666	Choline binding protein A
Lactobacillus reuteri	VBILacReu87937_0667	Choline binding protein A
Lactobacillus reuteri	VBILacReu87937_0906	Choline binding protein A
Lactobacillus reuteri	VBILacReu87937_0483	Choline binding protein A
Lactobacillus reuteri	VBILacReu112121_0094	ClpB protein
Lactobacillus reuteri	VBILacReu127513_0927	COG1272 Predicted membrane protein hemolysin III homolog
Lactobacillus reuteri	VBILacReu87937_1677	conjugation protein
Lactobacillus reuteri	VBILacReu87937_0135	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Lactobacillus reuteri	VBILacReu111271_1566	Diaminopimelate decarboxylase EC 4.1.1.20
Lactobacillus reuteri	VBILacReu112121_0908	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Lactobacillus reuteri	VBILacReu111271_1509	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Lactobacillus reuteri	VBILacReu127513_1634	Enolase EC 4.2.1.11
Lactobacillus reuteri	VBILacReu111271_0101	EpsX
Lactobacillus reuteri	VBILacReu111271_0404	Exopolysaccharide biosynthesis glycosyltransferase EpsF EC 2.4.1.-
Lactobacillus reuteri	VBILacReu112121_1170	Ferrous iron transport protein B
Lactobacillus reuteri	VBILacReu112121_0024	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24

Table S8

Lactobacillus reuteri	VBILacReu127513_0107	Glutamine synthetase type I EC 6.3.1.2
Lactobacillus reuteri	VBILacReu112121_0518	Histidine protein kinase 3B sensor protein EC 2.7.3.-
Lactobacillus reuteri	VBILacReu127513_0117	hypothetical protein
Lactobacillus reuteri	VBILacReu112121_0535	hypothetical protein
Lactobacillus reuteri	VBILacReu127513_1142	hypothetical protein
Lactobacillus reuteri	VBILacReu112121_1899	Lead 2C cadmium 2C zinc and mercury transporting ATPase EC 3.6.3.3 EC 3.6.3.5 3B Copper-translocating P-type ATP;
Lactobacillus reuteri	VBILacReu127513_1150	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Lactobacillus reuteri	VBILacReu111271_0671	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Lactobacillus reuteri	VBILacReu111271_0741	Manganese ABC transporter 2C ATP-binding protein SitB
Lactobacillus reuteri	VBILacReu127513_1480	Manganese superoxide dismutase EC 1.15.1.1
Lactobacillus reuteri	VBILacReu111271_0132	Manganese-dependent protein-tyrosine phosphatase EC 3.1.3.48
Lactobacillus reuteri	VBILacReu112121_1211	Methionine ABC transporter ATP-binding protein
Lactobacillus reuteri	VBILacReu112121_1292	Multiple sugar ABC transporter 2C ATP-binding protein
Lactobacillus reuteri	VBILacReu112121_1476	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus reuteri	VBILacReu112121_1481	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus reuteri	VBILacReu112121_1240	Ornithine carbamoyltransferase EC 2.1.3.3
Lactobacillus reuteri	VBILacReu87937_1403	Osmosensitive K+ channel histidine kinase KdpD EC 2.7.3.-
Lactobacillus reuteri	VBILacReu111271_0763	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Lactobacillus reuteri	VBILacReu112121_1150	Phosphoheptose isomerase EC 5.3.1.-
Lactobacillus reuteri	VBILacReu87937_0364	Phosphomannomutase EC 5.4.2.8
Lactobacillus reuteri	VBILacReu111271_1914	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus reuteri	VBILacReu87937_1875	putative ATP-dependent Clp proteinase ATP-binding subunit
Lactobacillus reuteri	VBILacReu112121_1824	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus reuteri	VBILacReu127513_0690	RNA polymerase sigma factor RpoD
Lactobacillus reuteri	VBILacReu111271_0433	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Lactobacillus reuteri	VBILacReu127513_1256	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Lactobacillus reuteri	VBILacReu111271_0442	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Lactobacillus reuteri	VBILacReu112121_0549	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Lactobacillus reuteri	VBILacReu111271_0750	Two component system histidine kinase EC 2.7.3.-
Lactobacillus reuteri	VBILacReu112121_1207	two-component response regulator
Lactobacillus reuteri	VBILacReu112121_0533	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus reuteri	VBILacReu112121_2134	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158
Lactobacillus reuteri	VBILacReu111271_0401	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Lactobacillus reuteri	VBILacReu87937_1752	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Lactobacillus reuteri	VBILacReu112121_1441	V-type ATP synthase subunit A EC 3.6.3.14
Lactobacillus reuteri	VBILacReu112121_1727	Vitamin B12 ABC transporter 2C permease component BtuC
Lactobacillus rhamnosus	VBILacRha123537_1746	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Lactobacillus rhamnosus	VBILacRha3627_0467	ABC transporter 2C ATP-binding protein
Lactobacillus rhamnosus	VBILacRha3627_1823	ABC transporter ATP-binding protein
Lactobacillus rhamnosus	VBILacRha3627_1714	ABC-type multidrug protein lipid transport system 2C ATPase component
Lactobacillus rhamnosus	VBILacRha3627_0398	ABC-type uncharacterized transport system 2C ATPase component
Lactobacillus rhamnosus	VBILacRha123537_2411	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Lactobacillus rhamnosus	VBILacRha123537_2406	ATP synthase alpha chain EC 3.6.3.14
Lactobacillus rhamnosus	VBILacRha3627_1701	ATP synthase beta chain EC 3.6.3.14
Lactobacillus rhamnosus	VBILacRha123537_2212	Cation transport ATPase
Lactobacillus rhamnosus	VBILacRha58455_1351	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Lactobacillus rhamnosus	VBILacRha3627_2089	Cyclopropane-fatty-acyl-phospholipid synthase EC 2.1.1.79
Lactobacillus rhamnosus	VBILacRha2892_1929	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Lactobacillus rhamnosus	VBILacRha58455_2556	Enolase EC 4.2.1.11
Lactobacillus rhamnosus	VBILacRha2892_1930	Enolase EC 4.2.1.11
Lactobacillus rhamnosus	VBILacRha58455_1025	Enolase EC 4.2.1.11
Lactobacillus rhamnosus	VBILacRha58455_1881	Fibronectin fibrinogen-binding protein
Lactobacillus rhamnosus	VBILacRha58455_1703	FIG00750130 hypothetical protein
Lactobacillus rhamnosus	VBILacRha123537_2769	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Lactobacillus rhamnosus	VBILacRha58455_1716	Glycerol-3-phosphate ABC transporter 2C ATP-binding protein UgpC TC 3.A.1.1.3
Lactobacillus rhamnosus	VBILacRha58455_1884	Glycosyltransferase
Lactobacillus rhamnosus	VBILacRha123537_1260	glycosyltransferase 2C group 2 family protein
Lactobacillus rhamnosus	VBILacRha58455_0437	Glycosyltransferase EC 2.4.1.-
Lactobacillus rhamnosus	VBILacRha58455_1788	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Lactobacillus rhamnosus	VBILacRha123537_0875	Hemolysins and related proteins containing CBS domains
Lactobacillus rhamnosus	VBILacRha123537_2397	hypothetical protein
Lactobacillus rhamnosus	VBILacRha58455_1909	Lipid A export ATP-binding permease protein MsbA
Lactobacillus rhamnosus	VBILacRha3627_1922	Lipid A export ATP-binding permease protein MsbA
Lactobacillus rhamnosus	VBILacRha2892_0571	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19 3B Multiple sugar ABC transporter 2C ATP-binding
Lactobacillus rhamnosus	VBILacRha3627_0940	Maltose operon transcriptional repressor MalR 2C LacI family
Lactobacillus rhamnosus	VBILacRha3627_2549	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Lactobacillus rhamnosus	VBILacRha123537_0806	Methionine biosynthesis and transport regulator MtaR 2C LysR family
Lactobacillus rhamnosus	VBILacRha123537_2413	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Lactobacillus rhamnosus	VBILacRha3627_1324	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Lactobacillus rhamnosus	VBILacRha2892_2631	Osmotically activated L-carnitine choline ABC transporter 2C ATP-binding protein OpuCA
Lactobacillus rhamnosus	VBILacRha2892_0990	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Lactobacillus rhamnosus	VBILacRha58455_2072	Phosphoglucomutase EC 5.4.2.2
Lactobacillus rhamnosus	VBILacRha123537_2402	Phosphoglucoamine mutase EC 5.4.2.10
Lactobacillus rhamnosus	VBILacRha58455_1264	Phosphoglucoamine mutase EC 5.4.2.10
Lactobacillus rhamnosus	VBILacRha2892_0857	Phosphonate ABC transporter ATP-binding protein TC 3.A.1.9.1
Lactobacillus rhamnosus	VBILacRha58455_0633	predicted glycosyltransferase
Lactobacillus rhamnosus	VBILacRha123537_2415	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus rhamnosus	VBILacRha123537_0060	putative ATP-dependent Clp proteinase ATP-binding subunit
Lactobacillus rhamnosus	VBILacRha3627_2122	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1

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Lactobacillus rhamnosus	VBILacRha58455_2040	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactobacillus rhamnosus	VBILacRha123537_0307	Selenocysteine-specific translation elongation factor
Lactobacillus rhamnosus	VBILacRha58455_1995	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Lactobacillus rhamnosus	VBILacRha3627_2126	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Lactobacillus rhamnosus	VBILacRha123537_0929	Translation elongation factor Tu
Lactobacillus rhamnosus	VBILacRha123537_2505	Transport ATP-binding protein CydD
Lactobacillus rhamnosus	VBILacRha3627_0763	Two-component response regulator SA14-24
Lactobacillus rhamnosus	VBILacRha3627_2415	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus rhamnosus	VBILacRha58455_0936	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus rhamnosus	VBILacRha2892_0625	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Lactobacillus rhamnosus	VBILacRha123537_1537	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Lactobacillus salivarius	VBILacSal150030_1352	ABC transporter 2C ATP-binding and permease protein
Lactobacillus salivarius	VBILacSal150030_1404	ABC-type antimicrobial peptide transport system 2C ATPase component
Lactobacillus salivarius	VBILacSal150030_0725	ABC-type multidrug transport system 2C ATPase component
Lactobacillus salivarius	VBILacSal202740_0196	Alcohol dehydrogenase EC 1.1.1.1
Lactobacillus salivarius	VBILacSal82003_0274	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Lactobacillus salivarius	VBILacSal82003_0859	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus salivarius	VBILacSal43464_0386	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus salivarius	VBILacSal194107_1250	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus salivarius	VBILacSal150030_0363	ATP-dependent Clp protease ATP-binding subunit ClpA
Lactobacillus salivarius	VBILacSal82003_1438	ATP-dependent protease ATP-binding subunit clpL
Lactobacillus salivarius	VBILacSal194107_0533	ATPase component of general energizing module of ECF transporters
Lactobacillus salivarius	VBILacSal43464_0252	Cation transport ATPase
Lactobacillus salivarius	VBILacSal82003_0047	Cell division trigger factor EC 5.2.1.8
Lactobacillus salivarius	VBILacSal82003_1274	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Lactobacillus salivarius	VBILacSal164140_1694	Choloylglycine hydrolase EC 3.5.1.24
Lactobacillus salivarius	VBILacSal150030_1885	Cyclopropane-fatty-acyl-phospholipid synthase EC 2.1.1.79
Lactobacillus salivarius	VBILacSal202740_0804	Cyclopropane-fatty-acyl-phospholipid synthase EC 2.1.1.79
Lactobacillus salivarius	VBILacSal43464_1637	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Lactobacillus salivarius	VBILacSal43464_1060	Diaminopimelate decarboxylase EC 4.1.1.20
Lactobacillus salivarius	VBILacSal150030_0080	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus salivarius	VBILacSal43464_1560	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus salivarius	VBILacSal194107_1282	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus salivarius	VBILacSal194107_0236	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus salivarius	VBILacSal194107_0742	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactobacillus salivarius	VBILacSal150030_2090	Enolase EC 4.2.1.11
Lactobacillus salivarius	VBILacSal202740_1503	Fibronectin-binding protein
Lactobacillus salivarius	VBILacSal202740_0040	FIG00743683 hypothetical protein
Lactobacillus salivarius	VBILacSal194107_0674	FIG00745580 hypothetical protein
Lactobacillus salivarius	VBILacSal150030_1364	FIG00747311 hypothetical protein
Lactobacillus salivarius	VBILacSal150030_0596	FIG00750130 hypothetical protein
Lactobacillus salivarius	VBILacSal202740_1286	FIG00754934 hypothetical protein
Lactobacillus salivarius	VBILacSal43464_0282	Glucose 1-dehydrogenase EC 1.1.1.47
Lactobacillus salivarius	VBILacSal194107_1484	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Lactobacillus salivarius	VBILacSal82003_0877	Glutamate transport ATP-binding protein
Lactobacillus salivarius	VBILacSal194107_0545	Glutamine ABC transporter 2C periplasmic glutamine-binding protein TC 3.A.1.3.2
Lactobacillus salivarius	VBILacSal202740_0694	Glutamine transport ATP-binding protein GlnQ TC 3.A.1.3.2
Lactobacillus salivarius	VBILacSal150030_1679	Glutamine transport ATP-binding protein GlnQ TC 3.A.1.3.2
Lactobacillus salivarius	VBILacSal82003_0949	glycosyltransferase family 2
Lactobacillus salivarius	VBILacSal164140_1687	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Lactobacillus salivarius	VBILacSal150030_1007	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Lactobacillus salivarius	VBILacSal202740_1361	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Lactobacillus salivarius	VBILacSal43464_1667	Heat shock protein 60 family chaperone GroEL
Lactobacillus salivarius	VBILacSal43464_0986	Heat shock protein 60 family chaperone GroEL
Lactobacillus salivarius	VBILacSal82003_1499	Heat shock protein 60 family chaperone GroEL
Lactobacillus salivarius	VBILacSal194107_1779	Lipid A export ATP-binding permease protein MsbA
Lactobacillus salivarius	VBILacSal82003_1581	Lipid A export ATP-binding permease protein MsbA
Lactobacillus salivarius	VBILacSal150030_1338	Lipid A export ATP-binding permease protein MsbA
Lactobacillus salivarius	VBILacSal82003_0275	Mannosyl-glycoprotein endo-beta-N-acetylglucosamidase
Lactobacillus salivarius	VBILacSal202740_1101	Methionine ABC transporter ATP-binding protein
Lactobacillus salivarius	VBILacSal150030_1367	Multiple sugar ABC transporter 2C ATP-binding protein
Lactobacillus salivarius	VBILacSal150030_1948	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Lactobacillus salivarius	VBILacSal82003_1479	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus salivarius	VBILacSal202740_1481	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Lactobacillus salivarius	VBILacSal43464_1880	Ornithine carbamoyltransferase EC 2.1.3.3
Lactobacillus salivarius	VBILacSal164140_0273	Ornithine carbamoyltransferase EC 2.1.3.3
Lactobacillus salivarius	VBILacSal43464_0642	Ornithine carbamoyltransferase EC 2.1.3.3
Lactobacillus salivarius	VBILacSal150030_0708	Osmotically activated L-carnitine choline ABC transporter 2C ATP-binding protein OpuCA
Lactobacillus salivarius	VBILacSal43464_0060	Phosphoglucosamine mutase EC 5.4.2.10
Lactobacillus salivarius	VBILacSal43464_1701	Phosphoglucosamine mutase EC 5.4.2.10
Lactobacillus salivarius	VBILacSal43464_0948	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lactobacillus salivarius	VBILacSal194107_0243	Protein serine threonine phosphatase PrpC 2C regulation of stationary phase
Lactobacillus salivarius	VBILacSal202740_0292	putative ATP-dependent Clp proteinase ATP-binding subunit
Lactobacillus salivarius	VBILacSal43464_0054	Pyrraline-5-carboxylate reductase EC 1.5.1.2
Lactobacillus salivarius	VBILacSal194107_1091	Respiratory nitrate reductase alpha chain EC 1.7.99.4
Lactobacillus salivarius	VBILacSal43464_1538	RNA polymerase sigma factor RpoD
Lactobacillus salivarius	VBILacSal194107_0219	RNA polymerase sigma factor RpoD
Lactobacillus salivarius	VBILacSal43464_0803	sensor histidine kinase
Lactobacillus salivarius	VBILacSal150030_2176	sensor histidine kinase

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Lactobacillus salivarius	VBILacSal43464_1794	sensor histidine kinase
Lactobacillus salivarius	VBILacSal202740_0431	Surface protein Rib
Lactobacillus salivarius	VBILacSal202740_0422	Surface protein Rib
Lactobacillus salivarius	VBILacSal202740_0625	Surface protein Rib
Lactobacillus salivarius	VBILacSal202740_0383	Surface protein Rib
Lactobacillus salivarius	VBILacSal43464_2034	Translation elongation factor Tu
Lactobacillus salivarius	VBILacSal43464_1483	Translation elongation factor Tu
Lactobacillus salivarius	VBILacSal164140_0602	Translation elongation factor Tu
Lactobacillus salivarius	VBILacSal43464_0110	Translation elongation factor Tu
Lactobacillus salivarius	VBILacSal82003_0933	Two component system response regulator CiaR
Lactobacillus salivarius	VBILacSal82003_0943	Tyrosine-protein kinase EpsD EC 2.7.10.2
Lactobacillus salivarius	VBILacSal194107_1515	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus salivarius	VBILacSal82003_1337	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus salivarius	VBILacSal194107_0516	UDP-galactopyranose mutase EC 5.4.99.9
Lactobacillus salivarius	VBILacSal82003_1876	UDP-glucose 4-epimerase EC 5.1.3.2
Lactobacillus salivarius	VBILacSal150030_1218	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Lactobacillus salivarius	VBILacSal82003_1146	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Lactobacillus vaginalis	VBILacVag81158_0479	ABC transporter 2C ATP-binding permease protein
Lactobacillus vaginalis	VBILacVag81158_1375	ABC transporter 2C ATP-binding protein
Lactobacillus vaginalis	VBILacVag81158_0945	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Lactobacillus vaginalis	VBILacVag81158_1313	ATP-dependent protease ATP-binding subunit clpL
Lactobacillus vaginalis	VBILacVag81158_0464	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Lactobacillus vaginalis	VBILacVag81158_0879	ClpB protein
Lactobacillus vaginalis	VBILacVag81158_1340	Ferrous iron transport protein B
Lactobacillus vaginalis	VBILacVag81158_0988	FIG00745466 hypothetical protein
Lactobacillus vaginalis	VBILacVag81158_0471	Glycerol-3-phosphate ABC transporter 2C ATP-binding protein UgpC TC 3.A.1.1.3
Lactobacillus vaginalis	VBILacVag81158_0325	Glycosyltransferase related enzyme
Lactobacillus vaginalis	VBILacVag81158_1113	Heat shock protein 60 family chaperone GroEL
Lactobacillus vaginalis	VBILacVag81158_0752	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactobacillus vaginalis	VBILacVag81158_0221	Phosphoglucosamine mutase EC 5.4.2.10 Phosphomannomutase EC 5.4.2.8
Lactobacillus vaginalis	VBILacVag81158_0482	Translation elongation factor Tu
Lactobacillus vaginalis	VBILacVag81158_0837	Tyrosine-protein kinase EpsD EC 2.7.10.2
Lactococcus lactis	VBILacLac4574_0121	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Lactococcus lactis	VBILacLac141273_0133	ABC-type antimicrobial peptide transport system 2C ATPase component
Lactococcus lactis	VBILacLac136773_0229	Arabinose 5-phosphate isomerase EC 5.3.1.13
Lactococcus lactis	VBILacLac141273_0267	ATP-dependent protease ATP-binding subunit clpL
Lactococcus lactis	VBILacLac141273_0132	Calcium-transporting ATPase EC 3.6.3.8
Lactococcus lactis	VBILacLac38071_0978	Cell division trigger factor EC 5.2.1.8
Lactococcus lactis	VBILacLac4574_1996	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Lactococcus lactis	VBILacLac136773_2393	ClpB protein
Lactococcus lactis	VBILacLac4574_1658	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Lactococcus lactis	VBILacLac38071_1575	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lactococcus lactis	VBILacLac141273_0129	Fibronectin fibrinogen-binding protein
Lactococcus lactis	VBILacLac38071_1105	Fibronectin-binding protein
Lactococcus lactis	VBILacLac4574_1664	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Lactococcus lactis	VBILacLac4574_1007	Glutamine ABC transporter 2C periplasmic glutamine-binding protein TC 3.A.1.3.2
Lactococcus lactis	VBILacLac141273_1946	Glycerol-3-phosphate ABC transporter 2C ATP-binding protein UgpC TC 3.A.1.1.3
Lactococcus lactis	VBILacLac136773_1795	Glycosyltransferase related enzyme
Lactococcus lactis	VBILacLac141273_1896	Heat shock protein 60 family chaperone GroEL
Lactococcus lactis	VBILacLac4574_2390	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Lactococcus lactis	VBILacLac141273_2502	O-antigen export system ATP-binding protein RfbE
Lactococcus lactis	VBILacLac141273_0134	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactococcus lactis	VBILacLac141273_1234	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lactococcus lactis	VBILacLac4574_1651	Possible glycosyltransferase
Lactococcus lactis	VBILacLac136773_0728	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Lactococcus lactis	VBILacLac4574_0207	Pyrroline-5-carboxylate reductase EC 1.5.1.2
Lactococcus lactis	VBILacLac4574_1708	Sortase A 2C LPXTG specific
Lactococcus lactis	VBILacLac141273_1426	Sortase A 2C LPXTG specific
Lactococcus lactis	VBILacLac141273_1842	Transport ATP-binding protein CydD
Lactococcus lactis	VBILacLac136773_0292	Two component system response regulator CiaR
Lactococcus lactis	VBILacLac4574_1555	UDP-galactopyranose mutase EC 5.4.99.9
Lactococcus lactis	VBILacLac141273_0956	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Lautropia mirabilis	VBILauMir174490_1971	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Lautropia mirabilis	VBILauMir174490_0028	ABC transporter 2C ATP-binding protein
Lautropia mirabilis	VBILauMir174490_1970	ABC transporter 2C ATP-binding protein EcsA
Lautropia mirabilis	VBILauMir174490_1801	ATP synthase beta chain EC 3.6.3.14
Lautropia mirabilis	VBILauMir174490_0086	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Lautropia mirabilis	VBILauMir174490_1462	Cation transport ATPase
Lautropia mirabilis	VBILauMir174490_1740	ClpB protein
Lautropia mirabilis	VBILauMir174490_2175	Collagen-binding A protein-like
Lautropia mirabilis	VBILauMir174490_0206	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lautropia mirabilis	VBILauMir174490_0620	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Lautropia mirabilis	VBILauMir174490_1337	Enolase EC 4.2.1.11
Lautropia mirabilis	VBILauMir174490_1071	Fibronectin-binding protein
Lautropia mirabilis	VBILauMir174490_1608	Glucosyltransferase GtfG
Lautropia mirabilis	VBILauMir174490_0298	glycosyl transferase 2C group 2 family protein
Lautropia mirabilis	VBILauMir174490_0113	Glycosyltransferase involved in cell wall biogenesis-like
Lautropia mirabilis	VBILauMir174490_0306	glycosyltransferases involved in cell wall biogenesis
Lautropia mirabilis	VBILauMir174490_1152	Heat shock protein 60 family chaperone GroEL

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Lautropia mirabilis	VBILauMir174490_1405	hypothetical protein
Lautropia mirabilis	VBILauMir174490_1493	hypothetical protein
Lautropia mirabilis	VBILauMir174490_2457	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Lautropia mirabilis	VBILauMir174490_1675	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Lautropia mirabilis	VBILauMir174490_2526	O-succinylbenzoic acid-CoA ligase EC 6.2.1.26
Lautropia mirabilis	VBILauMir174490_0059	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lautropia mirabilis	VBILauMir174490_1345	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lautropia mirabilis	VBILauMir174490_1442	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lautropia mirabilis	VBILauMir174490_0685	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Lautropia mirabilis	VBILauMir174490_1473	polymerization and export protein
Lautropia mirabilis	VBILauMir174490_1735	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Lautropia mirabilis	VBILauMir174490_0249	putative ATP-dependent Clp proteinase ATP-binding subunit
Lautropia mirabilis	VBILauMir174490_0617	putative lipopolysaccharide biosynthesis protein
Lautropia mirabilis	VBILauMir174490_0110	Pyrroline-5-carboxylate reductase EC 1.5.1.2
Lautropia mirabilis	VBILauMir174490_2528	response regulator
Lautropia mirabilis	VBILauMir174490_1150	RNA polymerase sigma factor RpoD
Lautropia mirabilis	VBILauMir174490_1366	sensor histidine kinase
Lautropia mirabilis	VBILauMir174490_0003	Sorbitol-6-phosphate 2-dehydrogenase EC 1.1.1.140
Lautropia mirabilis	VBILauMir174490_0815	Translation elongation factor Tu
Lautropia mirabilis	VBILauMir174490_2536	tRNA 5-methylaminomethyl-2-thiouridylate-methyltransferase EC 2.1.1.61
Lautropia mirabilis	VBILauMir174490_2584	tRNA 5-methylaminomethyl-2-thiouridylate-methyltransferase EC 2.1.1.61
Lautropia mirabilis	VBILauMir174490_2465	Two-component response regulator SA14-24
Lautropia mirabilis	VBILauMir174490_0795	Two-component response regulator SA14-24
Lautropia mirabilis	VBILauMir174490_1965	Two-component system histidine kinase
Lautropia mirabilis	VBILauMir174490_0406	UDP-galactopyranose mutase EC 5.4.99.9
Lautropia mirabilis	VBILepBuc70646_2602	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Leptotrichia buccalis	VBILepBuc70646_1222	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Leptotrichia buccalis	VBILepBuc70646_2079	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Leptotrichia buccalis	VBILepBuc70646_2081	ABC transporter 2C ATP-binding protein
Leptotrichia buccalis	VBILepBuc70646_2219	ABC transporter iron.B12.siderophore.hemin 2C ATP-binding component
Leptotrichia buccalis	VBILepBuc70646_0026	ABC-type multidrug transport system 2C ATPase component
Leptotrichia buccalis	VBILepBuc70646_0450	Accessory gene regulator protein C
Leptotrichia buccalis	VBILepBuc70646_0070	Alcohol dehydrogenase EC 1.1.1.1
Leptotrichia buccalis	VBILepBuc70646_0076	Alcohol dehydrogenase EC 1.1.1.1
Leptotrichia buccalis	VBILepBuc70646_1906	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Leptotrichia buccalis	VBILepBuc70646_2311	Asparagine synthetase glutamine-hydrolyzing EC 6.3.5.4
Leptotrichia buccalis	VBILepBuc70646_2282	ATP synthase alpha chain EC 3.6.3.14
Leptotrichia buccalis	VBILepBuc70646_2310	ATP synthase beta chain EC 3.6.3.14
Leptotrichia buccalis	VBILepBuc70646_0406	ATP-dependent Clp protease 2C ATP-binding subunit ClpC
Leptotrichia buccalis	VBILepBuc70646_0447	ATP-dependent Clp protease 2C ATP-binding subunit ClpC
Leptotrichia buccalis	VBILepBuc70646_1294	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Leptotrichia buccalis	VBILepBuc70646_0360	Bacteriocin ABC-transporter 2C ATP-binding and permease component
Leptotrichia buccalis	VBILepBuc70646_2113	Benzoate-CoA ligase EC 6.2.1.25
Leptotrichia buccalis	VBILepBuc70646_1183	Cation transport ATPase
Leptotrichia buccalis	VBILepBuc70646_0115	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Leptotrichia buccalis	VBILepBuc70646_1577	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Leptotrichia buccalis	VBILepBuc70646_0131	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_1382	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_1504	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_1399	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_0171	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_1335	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_1469	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_1296	Choline binding protein A
Leptotrichia buccalis	VBILepBuc70646_0639	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0534	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0656	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0539	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0568	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0716	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0559	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0567	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0555	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0771	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0658	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_0536	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Leptotrichia buccalis	VBILepBuc70646_2080	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Leptotrichia buccalis	VBILepBuc70646_1592	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Leptotrichia buccalis	VBILepBuc70646_1983	Enolase EC 4.2.1.11
Leptotrichia buccalis	VBILepBuc70646_2099	Ferrichrome-iron receptor
Leptotrichia buccalis	VBILepBuc70646_0027	Fibronectin-binding protein
Leptotrichia buccalis	VBILepBuc70646_0824	FIG00754400 hypothetical protein
Leptotrichia buccalis	VBILepBuc70646_0332	FIG01114247 hypothetical protein
Leptotrichia buccalis	VBILepBuc70646_0350	FIG01114247 hypothetical protein
Leptotrichia buccalis	VBILepBuc70646_2112	Gamma-glutamyltranspeptidase EC 2.3.2.2
Leptotrichia buccalis	VBILepBuc70646_0239	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Leptotrichia buccalis	VBILepBuc70646_2171	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Leptotrichia buccalis	VBILepBuc70646_2257	Glycerol-3-phosphate transporter
Leptotrichia buccalis	VBILepBuc70646_1878	Glycerol-3-phosphate transporter

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Leptotrichia buccalis	VBILepBuc70646_0831	Glycosyl transferase 2C group 1
Leptotrichia buccalis	VBILepBuc70646_1473	Glycosyltransferase
Leptotrichia buccalis	VBILepBuc70646_0030	Glycosyltransferase involved in cell wall biogenesis-like
Leptotrichia buccalis	VBILepBuc70646_2241	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Leptotrichia buccalis	VBILepBuc70646_1941	Heat shock protein 60 family chaperone GroEL
Leptotrichia buccalis	VBILepBuc70646_0983	Heat shock protein 60 family chaperone GroEL
Leptotrichia buccalis	VBILepBuc70646_0095	Hemolysins and related proteins containing CBS domains
Leptotrichia buccalis	VBILepBuc70646_2094	Isochorismate synthase EC 5.4.4.2 of siderophore biosynthesis
Leptotrichia buccalis	VBILepBuc70646_2235	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Leptotrichia buccalis	VBILepBuc70646_1995	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Leptotrichia buccalis	VBILepBuc70646_2147	Manganese ABC transporter 2C inner membrane permease protein SitD
Leptotrichia buccalis	VBILepBuc70646_1811	Membrane protein
Leptotrichia buccalis	VBILepBuc70646_1014	Methionine ABC transporter ATP-binding protein
Leptotrichia buccalis	VBILepBuc70646_2196	Nitrate nitrite transporter
Leptotrichia buccalis	VBILepBuc70646_1182	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Leptotrichia buccalis	VBILepBuc70646_0306	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Leptotrichia buccalis	VBILepBuc70646_2312	Phetidoglycan-binding domain 1 protein
Leptotrichia buccalis	VBILepBuc70646_1243	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Leptotrichia buccalis	VBILepBuc70646_1773	Phosphatidate cytidyltransferase EC 2.7.7.41
Leptotrichia buccalis	VBILepBuc70646_1247	putative ATP-dependent Clp proteinase ATP-binding subunit
Leptotrichia buccalis	VBILepBuc70646_1206	putative glycosyltransferase - possibly involved in cell wall localization and side chain formation of rhamnose-glucose poly
Leptotrichia buccalis	VBILepBuc70646_2313	Putative OMR family iron-siderophore receptor precursor
Leptotrichia buccalis	VBILepBuc70646_2188	Respiratory nitrate reductase beta chain EC 1.7.99.4
Leptotrichia buccalis	VBILepBuc70646_0449	response regulator
Leptotrichia buccalis	VBILepBuc70646_0772	RNA polymerase sigma factor RpoD
Leptotrichia buccalis	VBILepBuc70646_0029	RNA polymerase sigma factor RpoD
Leptotrichia buccalis	VBILepBuc70646_1796	RNA polymerase sigma factor RpoD
Leptotrichia buccalis	VBILepBuc70646_0285	Sortase A 2C LPXTG specific
Leptotrichia buccalis	VBILepBuc70646_2314	TonB-dependent siderophore receptor
Leptotrichia buccalis	VBILepBuc70646_1718	Translation elongation factor Tu
Leptotrichia buccalis	VBILepBuc70646_2160	Twitching motility protein PilT
Leptotrichia buccalis	VBILepBuc70646_1221	UDP-galactopyranose mutase EC 5.4.99.9
Leptotrichia buccalis	VBILepBuc70646_0863	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Leptotrichia goodfellowii	VBILepGoo29969_2037	ABC transporter ATP-binding protein
Leptotrichia goodfellowii	VBILepGoo29969_0601	ABC transporter related
Leptotrichia goodfellowii	VBILepGoo29969_0181	ABC-type multidrug transport system 2C ATPase component
Leptotrichia goodfellowii	VBILepGoo29969_1284	ABC-type polar amino acid transport system 2C ATPase component
Leptotrichia goodfellowii	VBILepGoo29969_0978	Acetaldehyde dehydrogenase 2C ethanolamine utilization cluster
Leptotrichia goodfellowii	VBILepGoo29969_0339	Acetoacetyl-CoA reductase EC 1.1.1.36
Leptotrichia goodfellowii	VBILepGoo29969_1678	Acetoin dehydrogenase E1 component beta-subunit EC 1.2.4.-
Leptotrichia goodfellowii	VBILepGoo29969_1211	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Leptotrichia goodfellowii	VBILepGoo29969_1793	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Leptotrichia goodfellowii	VBILepGoo29969_0921	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Leptotrichia goodfellowii	VBILepGoo29969_1199	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Leptotrichia goodfellowii	VBILepGoo29969_1986	Amino acid transport ATP-binding protein
Leptotrichia goodfellowii	VBILepGoo29969_0322	Anthranilate synthase 2C aminase component EC 4.1.3.27
Leptotrichia goodfellowii	VBILepGoo29969_1543	Arabinose 5-phosphate isomerase EC 5.3.1.13
Leptotrichia goodfellowii	VBILepGoo29969_1826	ATP synthase alpha chain EC 3.6.3.14
Leptotrichia goodfellowii	VBILepGoo29969_1960	ATP synthase beta chain EC 3.6.3.14
Leptotrichia goodfellowii	VBILepGoo29969_1041	ATPase component CbiO of energizing module of cobalt ECF transporter
Leptotrichia goodfellowii	VBILepGoo29969_0035	capsular polysaccharide biosynthesis protein
Leptotrichia goodfellowii	VBILepGoo29969_0029	chain length determinant protein
Leptotrichia goodfellowii	VBILepGoo29969_2187	ClpB protein
Leptotrichia goodfellowii	VBILepGoo29969_1209	cobalt ABC transporter ATP-binding protein
Leptotrichia goodfellowii	VBILepGoo29969_1670	COG1272 Predicted membrane protein hemolysin III homolog
Leptotrichia goodfellowii	VBILepGoo29969_2169	Conjugative transfer protein TrbE
Leptotrichia goodfellowii	VBILepGoo29969_0705	Cytochrome c heme lyase subunit CcmF
Leptotrichia goodfellowii	VBILepGoo29969_0810	Dipeptide transport ATP-binding protein dppD
Leptotrichia goodfellowii	VBILepGoo29969_1285	Ferrous iron transport protein B
Leptotrichia goodfellowii	VBILepGoo29969_0600	General secretion pathway protein D
Leptotrichia goodfellowii	VBILepGoo29969_2195	Glutamine ABC transporter ATP-binding protein
Leptotrichia goodfellowii	VBILepGoo29969_2035	Glutamine transport ATP-binding protein GlnQ TC 3.A.1.3.2
Leptotrichia goodfellowii	VBILepGoo29969_0881	Glutamyl-tRNA reductase EC 1.2.1.70
Leptotrichia goodfellowii	VBILepGoo29969_2137	Heat shock protein 60 family chaperone GroEL
Leptotrichia goodfellowii	VBILepGoo29969_1080	HtrA protease chaperone protein
Leptotrichia goodfellowii	VBILepGoo29969_1086	Integral membrane protein with CBS domains
Leptotrichia goodfellowii	VBILepGoo29969_0793	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Leptotrichia goodfellowii	VBILepGoo29969_0345	Lipid-A-disaccharide synthase EC 2.4.1.182
Leptotrichia goodfellowii	VBILepGoo29969_1725	Lipoate-protein ligase A
Leptotrichia goodfellowii	VBILepGoo29969_1489	Manganese ABC transporter 2C ATP-binding protein SitB
Leptotrichia goodfellowii	VBILepGoo29969_1372	Manganese ABC transporter 2C inner membrane permease protein SitD
Leptotrichia goodfellowii	VBILepGoo29969_1517	Manganese ABC transporter 2C periplasmic-binding protein SitA
Leptotrichia goodfellowii	VBILepGoo29969_0503	Membrane-associated zinc metalloprotease
Leptotrichia goodfellowii	VBILepGoo29969_0019	Myo-inositol 2-dehydrogenase EC 1.1.1.18
Leptotrichia goodfellowii	VBILepGoo29969_1053	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Leptotrichia goodfellowii	VBILepGoo29969_0324	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Leptotrichia goodfellowii	VBILepGoo29969_1791	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Leptotrichia goodfellowii	VBILepGoo29969_1759	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Leptotrichia goodfellowii	VBILepGoo29969_0813	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1

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Leptotrichia goodfellowii	VBILepGoo29969_0425	Outer membrane protein assembly factor YaeT precursor
Leptotrichia goodfellowii	VBILepGoo29969_0824	Porphobilinogen deaminase EC 2.5.1.61
Leptotrichia goodfellowii	VBILepGoo29969_1558	Probable beta-glycosyltransferase
Leptotrichia goodfellowii	VBILepGoo29969_1283	RNA binding methyltransferase FtsI like
Leptotrichia goodfellowii	VBILepGoo29969_0755	RNA polymerase sigma factor RpoD
Leptotrichia goodfellowii	VBILepGoo29969_1147	Translation elongation factor Tu
Leptotrichia goodfellowii	VBILepGoo29969_0748	Type IV fimbrial biogenesis protein PilY1
Leptotrichia goodfellowii	VBILepGoo29969_0754	Type IV fimbrial biogenesis protein PilY1
Leptotrichia goodfellowii	VBILepGoo29969_0194	Tyrosine-protein kinase Wzc EC 2.7.10.2
Leptotrichia goodfellowii	VBILepGoo29969_0018	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Leptotrichia goodfellowii	VBILepGoo29969_0782	Urease alpha subunit EC 3.5.1.5
Leptotrichia goodfellowii	VBILepGoo29969_1998	V-type ATP synthase subunit A EC 3.6.3.14
Leptotrichia goodfellowii	VBILepGoo29969_2021	V-type ATP synthase subunit B EC 3.6.3.14
Leptotrichia hofstadii	VBILepHof63998_2141	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Leptotrichia hofstadii	VBILepHof63998_1009	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Leptotrichia hofstadii	VBILepHof63998_1523	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Leptotrichia hofstadii	VBILepHof63998_1794	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Leptotrichia hofstadii	VBILepHof63998_0097	ABC transporter 2C ATP-binding permease protein
Leptotrichia hofstadii	VBILepHof63998_0072	ABC transporter related
Leptotrichia hofstadii	VBILepHof63998_1899	Acetoin dehydrogenase E1 component beta-subunit EC 1.2.4.-
Leptotrichia hofstadii	VBILepHof63998_1762	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Leptotrichia hofstadii	VBILepHof63998_0143	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Leptotrichia hofstadii	VBILepHof63998_2448	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Leptotrichia hofstadii	VBILepHof63998_1076	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Leptotrichia hofstadii	VBILepHof63998_1948	Amino acid transport ATP-binding protein
Leptotrichia hofstadii	VBILepHof63998_0634	Aspartate racemase EC 5.1.1.13
Leptotrichia hofstadii	VBILepHof63998_1953	ATP synthase alpha chain EC 3.6.3.14
Leptotrichia hofstadii	VBILepHof63998_1952	ATP synthase beta chain EC 3.6.3.14
Leptotrichia hofstadii	VBILepHof63998_1690	ATPase component of general energizing module of ECF transporters ATPase component of general energizing module
Leptotrichia hofstadii	VBILepHof63998_1270	Branched-chain amino acid transport ATP-binding protein LivG TC 3.A.1.4.1
Leptotrichia hofstadii	VBILepHof63998_0301	Cell division trigger factor EC 5.2.1.8
Leptotrichia hofstadii	VBILepHof63998_1460	Cell division trigger factor EC 5.2.1.8
Leptotrichia hofstadii	VBILepHof63998_2504	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Leptotrichia hofstadii	VBILepHof63998_2671	CipB protein
Leptotrichia hofstadii	VBILepHof63998_0320	Diaminopimelate decarboxylase EC 4.1.1.20
Leptotrichia hofstadii	VBILepHof63998_1947	Diaminopimelate decarboxylase EC 4.1.1.20
Leptotrichia hofstadii	VBILepHof63998_2262	DNA-binding response regulator
Leptotrichia hofstadii	VBILepHof63998_1626	DNA-binding response regulator
Leptotrichia hofstadii	VBILepHof63998_1429	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Leptotrichia hofstadii	VBILepHof63998_1126	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Leptotrichia hofstadii	VBILepHof63998_1417	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Leptotrichia hofstadii	VBILepHof63998_1262	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Leptotrichia hofstadii	VBILepHof63998_0421	Duplicated ATPase component MtsB of energizing module of methionine-regulated ECF transporter
Leptotrichia hofstadii	VBILepHof63998_0994	Enolase EC 4.2.1.11
Leptotrichia hofstadii	VBILepHof63998_2610	Enolase EC 4.2.1.11
Leptotrichia hofstadii	VBILepHof63998_1251	Fibronectin fibrinogen-binding protein
Leptotrichia hofstadii	VBILepHof63998_1872	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Leptotrichia hofstadii	VBILepHof63998_1903	Haemin uptake system permease protein
Leptotrichia hofstadii	VBILepHof63998_2627	HtrA protease chaperone protein
Leptotrichia hofstadii	VBILepHof63998_1610	Hydroxymethylpyrimidine ABC transporter 2C ATPase component
Leptotrichia hofstadii	VBILepHof63998_0130	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Leptotrichia hofstadii	VBILepHof63998_0125	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Leptotrichia hofstadii	VBILepHof63998_0683	Lactaldehyde reductase EC 1.1.1.77
Leptotrichia hofstadii	VBILepHof63998_1883	Lipoate-protein ligase A
Leptotrichia hofstadii	VBILepHof63998_1921	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Leptotrichia hofstadii	VBILepHof63998_0698	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Leptotrichia hofstadii	VBILepHof63998_1507	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Leptotrichia hofstadii	VBILepHof63998_2140	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Leptotrichia hofstadii	VBILepHof63998_2417	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Leptotrichia hofstadii	VBILepHof63998_1570	Manganese ABC transporter 2C ATP-binding protein SitB
Leptotrichia hofstadii	VBILepHof63998_1101	Mannose-6-phosphate isomerase EC 5.3.1.8
Leptotrichia hofstadii	VBILepHof63998_2082	Mannose-6-phosphate isomerase EC 5.3.1.8
Leptotrichia hofstadii	VBILepHof63998_0045	Methionine ABC transporter ATP-binding protein
Leptotrichia hofstadii	VBILepHof63998_1945	Methionine ABC transporter ATP-binding protein
Leptotrichia hofstadii	VBILepHof63998_1950	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Leptotrichia hofstadii	VBILepHof63998_0633	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Leptotrichia hofstadii	VBILepHof63998_1353	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_1351	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_1360	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_1301	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_2179	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_1654	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_1397	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_1689	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Leptotrichia hofstadii	VBILepHof63998_1580	Ornithine carbamoyltransferase EC 2.1.3.3
Leptotrichia hofstadii	VBILepHof63998_1059	Phosphoglucosamine mutase EC 5.4.2.10
Leptotrichia hofstadii	VBILepHof63998_1980	Phosphoglucosamine mutase EC 5.4.2.10
Leptotrichia hofstadii	VBILepHof63998_2290	Phosphoglucosamine mutase EC 5.4.2.10
Leptotrichia hofstadii	VBILepHof63998_1083	Phosphoglucosamine mutase EC 5.4.2.10

Table S8

Leptotrichia hofstadii	VBILepHof63998_0432	Phosphoheptose isomerase EC 5.3.1.-
Leptotrichia hofstadii	VBILepHof63998_1949	Phosphoheptose isomerase EC 5.3.1.-
Leptotrichia hofstadii	VBILepHof63998_1446	Phospholipid-lipopolysaccharide ABC transporter
Leptotrichia hofstadii	VBILepHof63998_2670	Phosphomannomutase EC 5.4.2.8
Leptotrichia hofstadii	VBILepHof63998_1093	Phosphomannomutase EC 5.4.2.8
Leptotrichia hofstadii	VBILepHof63998_2156	Phosphonate ABC transporter ATP-binding protein TC 3.A.1.9.1
Leptotrichia hofstadii	VBILepHof63998_1074	possible serine protease homolog
Leptotrichia hofstadii	VBILepHof63998_1878	Proposed peptidoglycan lipid II flippase MurJ
Leptotrichia hofstadii	VBILepHof63998_1478	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Leptotrichia hofstadii	VBILepHof63998_1092	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Leptotrichia hofstadii	VBILepHof63998_2272	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Leptotrichia hofstadii	VBILepHof63998_1430	Putative mannosyltransferase involved in polysaccharide biosynthesis
Leptotrichia hofstadii	VBILepHof63998_1219	putative response regulator 3B homolog of RumR and ScnR
Leptotrichia hofstadii	VBILepHof63998_2644	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Leptotrichia hofstadii	VBILepHof63998_1944	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Leptotrichia hofstadii	VBILepHof63998_0438	Pyrroline-5-carboxylate reductase EC 1.5.1.2
Leptotrichia hofstadii	VBILepHof63998_0343	Response regulator receiver/Transcriptional regulatory protein 2C C-terminal
Leptotrichia hofstadii	VBILepHof63998_2608	RNA binding methyltransferase FtsJ like
Leptotrichia hofstadii	VBILepHof63998_1938	RNA polymerase sigma factor RpoD
Leptotrichia hofstadii	VBILepHof63998_0930	RNA polymerase sigma factor RpoD
Leptotrichia hofstadii	VBILepHof63998_1703	RNA polymerase sigma factor RpoD
Leptotrichia hofstadii	VBILepHof63998_1041	Sensory transduction histidine kinase
Leptotrichia hofstadii	VBILepHof63998_2002	Sensory transduction histidine kinase
Leptotrichia hofstadii	VBILepHof63998_0354	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Leptotrichia hofstadii	VBILepHof63998_0335	sugar transferase
Leptotrichia hofstadii	VBILepHof63998_2539	Translation elongation factor Tu
Leptotrichia hofstadii	VBILepHof63998_2178	Translation elongation factor Tu
Leptotrichia hofstadii	VBILepHof63998_0964	Translation elongation factor Tu
Leptotrichia hofstadii	VBILepHof63998_2261	transporter
Leptotrichia hofstadii	VBILepHof63998_2057	Two-component system regulator IlrE
Leptotrichia hofstadii	VBILepHof63998_1030	Two-component system regulator IlrE
Leptotrichia hofstadii	VBILepHof63998_0674	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Leptotrichia hofstadii	VBILepHof63998_2242	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Leptotrichia hofstadii	VBILepHof63998_0149	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Leptotrichia hofstadii	VBILepHof63998_1281	Undecaprenyl diphosphate synthase EC 2.5.1.31
Leptotrichia hofstadii	VBILepHof63998_1185	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Leptotrichia hofstadii	VBILepHof63998_0057	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Leptotrichia hofstadii	VBILepHof63998_1946	V-type ATP synthase subunit B EC 3.6.3.14
Listeria monocytogenes	VBILisMon53391_1311	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-. tRNA guanine46-N7--methyltransferase EC 2.1.1.33
Listeria monocytogenes	VBILisMon37419_0475	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Listeria monocytogenes	VBILisMon53391_0659	Acetylmethionine aminotransferase EC 2.6.1.11
Listeria monocytogenes	VBILisMon53391_0644	ADP-heptose synthase EC 2.7.-. D-glycero-beta-D-manno-heptose 7-phosphate kinase
Listeria monocytogenes	VBILisMon53391_1704	Amino acid transport ATP-binding protein
Listeria monocytogenes	VBILisMon53391_1193	ATP synthase beta chain EC 3.6.3.14
Listeria monocytogenes	VBILisMon53391_2521	DNA-binding response regulator
Listeria monocytogenes	VBILisMon37419_1843	Haemin uptake system permease protein
Listeria monocytogenes	VBILisMon53391_2268	Hemolysins and related proteins containing CBS domains
Listeria monocytogenes	VBILisMon37419_1446	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Listeria monocytogenes	VBILisMon53391_0578	Lactaldehyde reductase EC 1.1.1.77
Listeria monocytogenes	VBILisMon37419_0942	Lipoate-protein ligase A
Listeria monocytogenes	VBILisMon53391_2209	Lipoprotein releasing system ATP-binding protein LolD
Listeria monocytogenes	VBILisMon53391_0610	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Listeria monocytogenes	VBILisMon37419_0623	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Listeria monocytogenes	VBILisMon37419_2325	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Listeria monocytogenes	VBILisMon37419_0099	Porphobilinogen synthase EC 4.2.1.24
Listeria monocytogenes	VBILisMon53391_0635	sensor histidine kinase
Listeria monocytogenes	VBILisMon37419_1337	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Listeria monocytogenes	VBILisMon53391_2700	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Listeria monocytogenes	VBILisMon53391_2015	V-type ATP synthase subunit A EC 3.6.3.14
Listeria monocytogenes	VBILisMon53391_2164	V-type ATP synthase subunit B EC 3.6.3.14
Lysinibacillus fusiformis	VBILysFus158234_3097	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Lysinibacillus fusiformis	VBILysFus158234_2525	DNA-binding response regulator
Lysinibacillus fusiformis	VBILysFus158234_0994	Histidinol-phosphate aminotransferase EC 2.6.1.9
Lysinibacillus fusiformis	VBILysFus158234_1223	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Lysinibacillus fusiformis	VBILysFus158234_1614	Manganese superoxide dismutase EC 1.15.1.1
Lysinibacillus fusiformis	VBILysFus158234_1563	Proposed peptidoglycan lipid II flippase MurJ
Lysinibacillus fusiformis	VBILysFus158234_2970	RNA polymerase sigma factor RpoD
Lysinibacillus fusiformis	VBILysFus158234_3790	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Megasphaera micronuciformis	VBIMegMic155926_0875	Cell division trigger factor EC 5.2.1.8
Megasphaera micronuciformis	VBIMegMic155926_0048	hypothetical protein
Megasphaera micronuciformis	VBIMegMic155926_0863	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Megasphaera micronuciformis	VBIMegMic155926_0662	Methionine ABC transporter ATP-binding protein
Mesorhizobium loti	VBIMesLot2464_0208	DNA-binding response regulator
Mesorhizobium loti	VBIMesLot2464_6572	FIG00771820 hypothetical protein
Mesorhizobium loti	VBIMesLot2464_5803	FIG00771820 hypothetical protein
Mesorhizobium loti	VBIMesLot2464_3087	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Methanobrevibacter smithii	Msm_1308	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Methanobrevibacter smithii	Msm_1026	Arabinose 5-phosphate isomerase EC 5.3.1.13
Methanobrevibacter smithii	Msm_1327	Aspartate racemase EC 5.1.1.13

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Methanobrevibacter smithii	Msm_1303	COG1272 Predicted membrane protein hemolysin III homolog
Methanobrevibacter smithii	Msm_0330	Diaminopimelate decarboxylase EC 4.1.1.20
Methanobrevibacter smithii	Msm_1594	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Methanobrevibacter smithii	Msm_1516	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Methanobrevibacter smithii	Msm_0990	Probable beta-glycosyltransferase
Methanobrevibacter smithii	Msm_0895	sugar transferase
Mitsuokella multacida	VBIMitMul54707_0756	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Mitsuokella multacida	VBIMitMul54707_2151	Branched-chain amino acid transport ATP-binding protein LivG TC 3.A.1.4.1
Mitsuokella multacida	VBIMitMul54707_0710	Calcium-transporting ATPase EC 3.6.3.8
Mitsuokella multacida	VBIMitMul54707_2016	cobalt ABC transporter ATP-binding protein
Mitsuokella multacida	VBIMitMul54707_0720	Duplicated ATPase component MtsB of energizing module of methionine-regulated ECF transporter
Mitsuokella multacida	VBIMitMul54707_1803	Integral membrane protein with CBS domains
Mitsuokella multacida	VBIMitMul54707_0792	Phosphoheptose isomerase EC 5.3.1.-
Mitsuokella multacida	VBIMitMul54707_2153	putative BglB fragment
Mitsuokella multacida	VBIMitMul54707_1090	Pyrraline-5-carboxylate reductase EC 1.5.1.2
Mobiluncus mulieris	VBIMobMul167063_1187	Acetaldehyde dehydrogenase 2C ethanolamine utilization cluster
Mobiluncus mulieris	VBIMobMul42155_0879	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Mobiluncus mulieris	VBIMobMul167063_0645	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Mobiluncus mulieris	VBIMobMul25232_0346	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Mobiluncus mulieris	VBIMobMul167063_0232	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Mobiluncus mulieris	VBIMobMul167063_1544	Glutamyl-tRNA reductase EC 1.2.1.70
Mobiluncus mulieris	VBIMobMul25232_0704	HtrA protease chaperone protein
Mobiluncus mulieris	VBIMobMul42155_2012	Mannose-6-phosphate isomerase EC 5.3.1.8
Mobiluncus mulieris	VBIMobMul167063_0882	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Mobiluncus mulieris	VBIMobMul42155_0342	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Mobiluncus mulieris	VBIMobMul25232_2120	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Mobiluncus mulieris	VBIMobMul42155_0431	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Mobiluncus mulieris	VBIMobMul42155_0213	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Mobiluncus mulieris	VBIMobMul42155_0231	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Mobiluncus mulieris	VBIMobMul25232_1112	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Mobiluncus mulieris	VBIMobMul25232_1262	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Mobiluncus mulieris	VBIMobMul167063_1753	Phospholipid-lipopolysaccharide ABC transporter
Mobiluncus mulieris	VBIMobMul167063_1928	putative capsular polysaccharide synthesis protein
Mobiluncus mulieris	VBIMobMul167063_1858	Putative two-domain glycosyltransferase
Mobiluncus mulieris	VBIMobMul42155_1539	RNA binding methyltransferase FtsJ like
Mobiluncus mulieris	VBIMobMul167063_2046	Serine acetyltransferase EC 2.3.1.30
Mobiluncus mulieris	VBIMobMul167063_0085	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Mobiluncus mulieris	VBIMobMul167063_2156	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Moraxella catarrhalis	VBIMorCat148474_1431	3-deoxy-manno-octulosonate cytidyllyltransferase EC 2.7.7.38
Moraxella catarrhalis	VBIMorCat148474_0681	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Moraxella catarrhalis	VBIMorCat148474_0337	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Moraxella catarrhalis	VBIMorCat148474_1367	Cell envelope-associated transcriptional attenuator LytR-CpsA-Prs 2C subfamily F2 as in PMID19099556
Moraxella catarrhalis	VBIMorCat148474_1680	DNA-binding response regulator
Moraxella catarrhalis	VBIMorCat148474_0455	Enolase EC 4.2.1.11
Moraxella catarrhalis	VBIMorCat148474_0381	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Moraxella catarrhalis	VBIMorCat148474_0384	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Moraxella catarrhalis	VBIMorCat148474_1828	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Moraxella catarrhalis	VBIMorCat148474_0218	Phosphoglucosamine mutase EC 5.4.2.10
Moraxella catarrhalis	VBIMorCat148474_0183	Phosphomannomutase EC 5.4.2.8
Moraxella catarrhalis	VBIMorCat148474_0716	Porphobilinogen synthase EC 4.2.1.24
Moraxella catarrhalis	VBIMorCat148474_0750	Porphobilinogen synthase EC 4.2.1.24
Moraxella catarrhalis	VBIMorCat148474_0543	Translation elongation factor Tu
Moraxella catarrhalis	VBIMorCat148474_0544	Translation elongation factor Tu
Moraxella catarrhalis	VBIMorCat148474_1041	Two-component system regulator IlrE
Mycobacterium leprae	VBIMycLep78757_3551	ClpB protein
Mycobacterium leprae	VBIMycLep78757_0060	ESAT-6 Esx family secreted protein EsxA YukE
Mycobacterium leprae	VBIMycLep121698_4828	Heat shock protein 60 family chaperone GroEL
Mycobacterium leprae	VBIMycLep121698_0019	Manganese ABC transporter 2C ATP-binding protein SitB
Mycobacterium leprae	VBIMycLep121698_0061	Manganese ABC transporter 2C inner membrane permease protein SitD
Mycobacterium leprae	VBIMycLep121698_4737	Mg2+ transport ATPase 2C P-type EC 3.6.3.2
Mycobacterium leprae	VBIMycLep78757_4514	Multidrug resistance ABC transporter ATP-binding and permease protein
Mycobacterium leprae	VBIMycLep121698_3265	Phosphonate ABC transporter ATP-binding protein TC 3.A.1.9.1
Mycobacterium leprae	VBIMycLep121698_2820	possible serine protease homolog
Mycobacterium leprae	VBIMycLep78757_2065	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Mycobacterium leprae	VBIMycLep78757_3744	RNA binding methyltransferase FtsJ like
Mycobacterium leprae	VBIMycLep78757_2814	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Mycobacterium leprae	VBIMycLep121698_4682	Translation elongation factor Tu
Mycobacterium leprae	VBIMycLep121698_3571	Translation elongation factor Tu
Mycobacterium tuberculosis	VBIMycTub38905_3177	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Mycobacterium tuberculosis	VBIMycTub22151_1526	ABC transporter 2C ATP-binding protein
Mycobacterium tuberculosis	VBIMycTub38905_1391	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Mycobacterium tuberculosis	VBIMycTub38905_1680	cation-transporting ATPase
Mycobacterium tuberculosis	VBIMycTub38905_2800	Cell division trigger factor EC 5.2.1.8
Mycobacterium tuberculosis	VBIMycTub22151_0570	Chemotaxis protein CheV EC 2.7.3.-
Mycobacterium tuberculosis	VBIMycTub22151_0766	Flagellar biosynthesis protein FlhA
Mycobacterium tuberculosis	VBIMycTub22151_0329	Flagellar motor switch protein FlhG
Mycobacterium tuberculosis	VBIMycTub22151_3745	Heat shock protein 60 family chaperone GroEL
Mycobacterium tuberculosis	VBIMycTub22151_3301	Heme efflux system ATPase HrtA
Mycobacterium tuberculosis	VBIMycTub38905_0557	Internalin-like protein LPXTG motif Lmo0333 homolog

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Mycobacterium tuberculosis	VBIMycTub38905_0151	Internalin-like protein LPXTG motif Lmo0333 homolog
Mycobacterium tuberculosis	VBIMycTub22151_4351	Internalin-like protein LPXTG motif Lmo0333 homolog
Mycobacterium tuberculosis	VBIMycTub38905_1241	Internalin-like protein LPXTG motif Lmo0333 homolog
Mycobacterium tuberculosis	VBIMycTub38905_1836	Lipid A export ATP-binding permease protein MsbA
Mycobacterium tuberculosis	VBIMycTub22151_1530	Membrane-bound lytic murein transglycosylase D precursor EC 3.2.1.-
Mycobacterium tuberculosis	VBIMycTub38905_3223	motility accessory factor
Mycobacterium tuberculosis	VBIMycTub38905_2541	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Mycobacterium tuberculosis	VBIMycTub38905_4312	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Mycobacterium tuberculosis	VBIMycTub22151_3306	Putative peptidoglycan bound protein LPXTG motif Lmo2179 homolog
Mycobacterium tuberculosis	VBIMycTub22151_3520	Putative peptidoglycan bound protein LPXTG motif Lmo2179 homolog
Mycobacterium tuberculosis	VBIMycTub38905_1387	Two-component sensor kinase SA14-24
Mycoplasma fermentans	VBIMycFer34481_0477	ABC transporter iron.B12.siderophore.hemin 2C ATP-binding component
Mycoplasma fermentans	VBIMycFer34481_0692	Acetylmethionine aminotransferase EC 2.6.1.11
Mycoplasma fermentans	VBIMycFer34481_0728	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Mycoplasma fermentans	VBIMycFer34481_0599	Ferrichrome transport system permease protein fluB TC 3.A.1.14.3
Mycoplasma fermentans	VBIMycFer34481_0529	Lipid-A-disaccharide synthase EC 2.4.1.182
Mycoplasma fermentans	VBIMycFer179416_0256	Lipoate-protein ligase A
Mycoplasma fermentans	VBIMycFer179416_0494	Manganese ABC transporter 2C periplasmic-binding protein SitA
Mycoplasma fermentans	VBIMycFer34481_0257	Phosphoglucosamine mutase EC 5.4.2.10
Mycoplasma fermentans	VBIMycFer179416_0843	Phosphomannomutase EC 5.4.2.8
Mycoplasma fermentans	VBIMycFer34481_0364	Predicted erythritol ABC transporter 1 2C ATP-binding component 1
Mycoplasma fermentans	VBIMycFer34481_0199	Translation elongation factor Tu
Mycoplasma fermentans	VBIMycFer179416_0681	Translation elongation factor Tu
Mycoplasma fermentans	VBIMycFer34481_0048	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
Mycoplasma fermentans	VBIMycFer179416_0608	Uncharacterized iron compound ABC uptake transporter 2C permease protein
Mycoplasma genitalium	VBIMycGen98045_0015	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Mycoplasma genitalium	VBIMycGen98045_0417	ABC transporter ATP-binding protein
Mycoplasma genitalium	VBIMycGen98045_0466	ABC transporter ATP-binding protein
Mycoplasma genitalium	VBIMycGen98045_0014	Beta-1 2C3-glucosyltransferase
Mycoplasma genitalium	VBIMycGen98045_0369	ClpB protein
Mycoplasma genitalium	VBIMycGen98045_0458	daunorubicin resistance ATP-binding protein drrA
Mycoplasma genitalium	VBIMycGen98045_0519	Flp pilus assembly protein 2C ATPase CpaF
Mycoplasma genitalium	VBIMycGen98045_0090	Magnesium and cobalt efflux protein CorC
Mycoplasma genitalium	VBIMycGen98045_0061	Membrane-associated zinc metalloprotease
Mycoplasma genitalium	VBIMycGen98045_0023	Phosphatidate cytidyltransferase EC 2.7.7.41
Mycoplasma genitalium	VBIMycGen98045_0468	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Mycoplasma genitalium	VBIMycGen98045_0363	Putative fimbrial subunit
Mycoplasma genitalium	VBIMycGen98045_0081	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Mycoplasma genitalium	VBIMycGen98045_0253	Thioic acid export ATP-binding protein TagH EC 3.6.3.40
Mycoplasma hominis	VBIMycHom120329_0515	ABC transporter ATP-binding protein
Mycoplasma hominis	VBIMycHom120329_0247	Putative fimbrial subunit
Mycoplasma hominis	VBIMycHom120329_0080	Signal transduction histidine kinase CheA EC 2.7.3.-
Mycoplasma pneumoniae	VBIMycPne110_0669	ATP synthase alpha chain EC 3.6.3.14
Mycoplasma pneumoniae	VBIMycPne110_0018	Flagellin protein FlaA
Mycoplasma pneumoniae	VBIMycPne110_0298	Flagellin protein FlaA
Mycoplasma pneumoniae	VBIMycPne110_0225	Flp pilus assembly protein 2C ATPase CpaF
Mycoplasma pneumoniae	VBIMycPne110_0428	Manganese ABC transporter 2C inner membrane permease protein SitD
Mycoplasma pneumoniae	VBIMycPne110_0229	Signal transduction histidine kinase CheA EC 2.7.3.-
Mycoplasma pneumoniae	VBIMycPne110_0730	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Neisseria bacilliformis	VBINeiBac171574_2717	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Neisseria bacilliformis	VBINeiBac171574_2065	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Neisseria bacilliformis	VBINeiBac171574_2713	Arginine ABC transporter 2C permease protein ArtQ
Neisseria bacilliformis	VBINeiBac171574_0620	ATP synthase alpha chain EC 3.6.3.14
Neisseria bacilliformis	VBINeiBac171574_0772	ATP synthase beta chain EC 3.6.3.14
Neisseria bacilliformis	VBINeiBac171574_2885	ATP synthase beta chain EC 3.6.3.14
Neisseria bacilliformis	VBINeiBac171574_2567	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria bacilliformis	VBINeiBac171574_2926	MEMBRANE NUCLEASE
Neisseria bacilliformis	VBINeiBac171574_0031	Methionine ABC transporter ATP-binding protein
Neisseria bacilliformis	VBINeiBac171574_2365	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria bacilliformis	VBINeiBac171574_2924	Ornithine carbamoyltransferase EC 2.1.3.3
Neisseria bacilliformis	VBINeiBac171574_1043	Porphobilinogen synthase EC 4.2.1.24
Neisseria bacilliformis	VBINeiBac171574_2630	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Neisseria bacilliformis	VBINeiBac171574_0148	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria bacilliformis	VBINeiBac171574_2558	Respiratory nitrate reductase alpha chain EC 1.7.99.4
Neisseria bacilliformis	VBINeiBac171574_2118	RNA polymerase sigma factor RpoD
Neisseria bacilliformis	VBINeiBac171574_0329	Twitching motility protein PilT
Neisseria bacilliformis	VBINeiBac171574_2678	Type IV pilus biogenesis protein PilQ
Neisseria elongata	VBINeiElo48274_0329	2-deoxy-D-gluconate 3-dehydrogenase EC 1.1.1.125
Neisseria elongata	VBINeiElo48274_2436	ABC transporter ATP-binding protein
Neisseria elongata	VBINeiElo48274_2574	ABC transporter ATP-binding protein
Neisseria elongata	VBINeiElo48274_1803	ATP synthase alpha chain EC 3.6.3.14
Neisseria elongata	VBINeiElo48274_0838	ATP synthase alpha chain EC 3.6.3.14
Neisseria elongata	VBINeiElo48274_0825	ATP synthase beta chain EC 3.6.3.14
Neisseria elongata	VBINeiElo48274_0731	Cation-transporting ATPase 2C E1-E2 family
Neisseria elongata	VBINeiElo48274_1732	Cell division protein DivIC FtsB 2C stabilizes FtsL against RasP cleavage
Neisseria elongata	VBINeiElo48274_1402	Cell division protein DivIC FtsB 2C stabilizes FtsL against RasP cleavage
Neisseria elongata	VBINeiElo48274_0678	COG0463 Glycosyltransferases involved in cell wall biogenesis
Neisseria elongata	VBINeiElo48274_1659	Cyclopropane-fatty-acyl-phospholipid synthase 1 2C CmaA1 EC 2.1.1.79
Neisseria elongata	VBINeiElo48274_1607	Cyclopropane-fatty-acyl-phospholipid synthase 2 2C CmaA2 EC 2.1.1.79

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Neisseria elongata	VBINeiElo48274_0765	cytadherence accessory protein HMW1
Neisseria elongata	VBINeiElo48274_2215	Enolase EC 4.2.1.11
Neisseria elongata	VBINeiElo48274_0086	Enolase EC 4.2.1.11
Neisseria elongata	VBINeiElo48274_2242	ESX-3 secretion system protein EccE3
Neisseria elongata	VBINeiElo48274_0750	FIG00834532 hypothetical protein
Neisseria elongata	VBINeiElo48274_0099	FIG00837007 hypothetical protein
Neisseria elongata	VBINeiElo48274_2517	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria elongata	VBINeiElo48274_1706	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria elongata	VBINeiElo48274_0084	glycosyl transferase 2C group 2 family protein EC2.4.1.-
Neisseria elongata	VBINeiElo48274_2214	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria elongata	VBINeiElo48274_0824	Heat shock protein 60 family chaperone GroEL
Neisseria elongata	VBINeiElo48274_2113	hypothetical protein
Neisseria elongata	VBINeiElo48274_1297	hypothetical protein
Neisseria elongata	VBINeiElo48274_1169	hypothetical protein
Neisseria elongata	VBINeiElo48274_2578	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Neisseria elongata	VBINeiElo48274_1505	Iron (III) dicitrate transport system 2C periplasmic iron-binding protein FecB TC 3.A.1.14.1
Neisseria elongata	VBINeiElo48274_2108	Isocitrate lyase EC 4.1.3.1 2C group III 2C Mycobacterial type ICL2
Neisseria elongata	VBINeiElo48274_2109	Isocitrate lyase EC 4.1.3.1 2C group III 2C Mycobacterial type ICL2
Neisseria elongata	VBINeiElo48274_1157	Lipid A export ATP-binding permease protein MsbA
Neisseria elongata	VBINeiElo48274_0562	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria elongata	VBINeiElo48274_2112	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria elongata	VBINeiElo48274_0917	LIPOPROTEIN
Neisseria elongata	VBINeiElo48274_2457	Long-chain fatty-acid-AMP ligase 2C Mycobacterial subgroup FadD29
Neisseria elongata	VBINeiElo48274_2432	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria elongata	VBINeiElo48274_2573	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria elongata	VBINeiElo48274_2110	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Neisseria elongata	VBINeiElo48274_2439	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Neisseria elongata	VBINeiElo48274_0375	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Neisseria elongata	VBINeiElo48274_0348	MEMBRANE NUCLEASE
Neisseria elongata	VBINeiElo48274_0001	MEMBRANE NUCLEASE
Neisseria elongata	VBINeiElo48274_0345	MEMBRANE NUCLEASE
Neisseria elongata	VBINeiElo48274_1086	Multiple sugar ABC transporter 2C ATP-binding protein
Neisseria elongata	VBINeiElo48274_0489	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria elongata	VBINeiElo48274_0083	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria elongata	VBINeiElo48274_0734	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Neisseria elongata	VBINeiElo48274_2463	Omega-amino acid--pyruvate aminotransferase EC 2.6.1.18
Neisseria elongata	VBINeiElo48274_0053	Phosphomannomutase
Neisseria elongata	VBINeiElo48274_2200	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria elongata	VBINeiElo48274_1313	Protein serine threonine phosphatase PrpC 2C regulation of stationary phase
Neisseria elongata	VBINeiElo48274_2732	Putative ESX-1 secretion system gating protein PPE68
Neisseria elongata	VBINeiElo48274_2515	Putative ESX-1 secretion system gating protein PPE68
Neisseria elongata	VBINeiElo48274_2270	Putative membrane protein
Neisseria elongata	VBINeiElo48274_0487	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Neisseria elongata	VBINeiElo48274_1437	Respiratory nitrate reductase beta chain EC 1.7.99.4
Neisseria elongata	VBINeiElo48274_1867	Respiratory nitrate reductase beta chain EC 1.7.99.4
Neisseria elongata	VBINeiElo48274_2583	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Neisseria elongata	VBINeiElo48274_0170	RNA polymerase sigma factor RpoD
Neisseria elongata	VBINeiElo48274_2555	RNA polymerase sigma-70 factor 2C ECF subfamily
Neisseria elongata	VBINeiElo48274_1342	Serine threonine-protein kinase PknB EC 2.7.11.1
Neisseria elongata	VBINeiElo48274_0649	sugar transferase
Neisseria elongata	VBINeiElo48274_2085	Translation elongation factor Tu
Neisseria elongata	VBINeiElo48274_2239	Translation elongation factor Tu
Neisseria elongata	VBINeiElo48274_0907	Translation elongation factor Tu
Neisseria elongata	VBINeiElo48274_2552	Translation elongation factor Tu
Neisseria elongata	VBINeiElo48274_1577	Translation elongation factor Tu
Neisseria elongata	VBINeiElo48274_2431	Transmembrane transport protein MmpL5
Neisseria elongata	VBINeiElo48274_0555	transport ATP-binding protein
Neisseria elongata	VBINeiElo48274_0787	Twitching motility protein PilT
Neisseria elongata	VBINeiElo48274_2462	Two component system sensor histidine kinase DevS
Neisseria elongata	VBINeiElo48274_2210	UDP-galactopyranose mutase EC 5.4.99.9
Neisseria flavescens	VBINeiFla25453_1896	1-acyl-sn-glycerol-3-phosphate acyltransferase EC 2.3.1.51
Neisseria flavescens	VBINeiFla25453_0527	1-acyl-sn-glycerol-3-phosphate acyltransferase EC 2.3.1.51
Neisseria flavescens	VBINeiFla25453_1498	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Neisseria flavescens	VBINeiFla114371_2028	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Neisseria flavescens	VBINeiFla114371_1032	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Neisseria flavescens	VBINeiFla25453_2044	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Neisseria flavescens	VBINeiFla25453_0219	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria flavescens	VBINeiFla114371_1784	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria flavescens	VBINeiFla25453_1296	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria flavescens	VBINeiFla114371_0957	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Neisseria flavescens	VBINeiFla25453_0388	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Neisseria flavescens	VBINeiFla25453_0624	3-oxoacyl-ACP reductase EC 1.1.1.100
Neisseria flavescens	VBINeiFla25453_0580	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
Neisseria flavescens	VBINeiFla25453_0883	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Neisseria flavescens	VBINeiFla114371_0947	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Neisseria flavescens	VBINeiFla25453_1951	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Neisseria flavescens	VBINeiFla25453_0256	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Neisseria flavescens	VBINeiFla25453_0692	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Neisseria flavescens	VBINeiFla114371_1877	ABC transporter 2C ATP-binding protein

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Neisseria flavescens	VBINeiFla25453_1431	ABC transporter 2C transmembrane region
Neisseria flavescens	VBINeiFla25453_1092	ABC-transporter system ATP-binding protein
Neisseria flavescens	VBINeiFla25453_2028	ABC-type Fe ³⁺ -hydroxamate transport system 2C periplasmic component
Neisseria flavescens	VBINeiFla114371_0210	ABC-type multidrug transport system 2C permease component
Neisseria flavescens	VBINeiFla114371_0209	ABC-type multidrug transport system 2C permease component
Neisseria flavescens	VBINeiFla25453_0711	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Neisseria flavescens	VBINeiFla114371_1986	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Neisseria flavescens	VBINeiFla25453_0586	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Neisseria flavescens	VBINeiFla25453_1272	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Neisseria flavescens	VBINeiFla114371_2013	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Neisseria flavescens	VBINeiFla25453_1257	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Neisseria flavescens	VBINeiFla25453_1838	Amino acid ABC transporter 2C ATP-binding protein
Neisseria flavescens	VBINeiFla25453_0525	amino acid ABC transporter 2C ATP-binding protein
Neisseria flavescens	VBINeiFla25453_0009	Amino acid ABC transporter 2C ATP-binding protein
Neisseria flavescens	VBINeiFla114371_2025	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Neisseria flavescens	VBINeiFla25453_1471	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Neisseria flavescens	VBINeiFla114371_0893	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria flavescens	VBINeiFla25453_1522	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria flavescens	VBINeiFla114371_2029	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria flavescens	VBINeiFla25453_0362	Arabinose 5-phosphate isomerase EC 5.3.1.13
Neisseria flavescens	VBINeiFla114371_0892	Aspartate racemase EC 5.1.1.13
Neisseria flavescens	VBINeiFla114371_0497	ATP synthase alpha chain EC 3.6.3.14
Neisseria flavescens	VBINeiFla25453_0396	ATP synthase alpha chain EC 3.6.3.14
Neisseria flavescens	VBINeiFla25453_1927	ATP synthase alpha chain EC 3.6.3.14
Neisseria flavescens	VBINeiFla25453_0402	ATP synthase beta chain EC 3.6.3.14
Neisseria flavescens	VBINeiFla114371_0534	ATP synthase beta chain EC 3.6.3.14
Neisseria flavescens	VBINeiFla25453_1901	ATP synthase beta chain EC 3.6.3.14
Neisseria flavescens	VBINeiFla114371_0787	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria flavescens	VBINeiFla25453_0238	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria flavescens	VBINeiFla114371_0736	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria flavescens	VBINeiFla25453_1227	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria flavescens	VBINeiFla25453_1248	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria flavescens	VBINeiFla25453_0227	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria flavescens	VBINeiFla25453_1892	ATPase provides energy for both assembly of type IV secretion complex and secretion of T-DNA complex VirB11
Neisseria flavescens	VBINeiFla25453_1890	ATPase provides energy for both assembly of type IV secretion complex and secretion of T-DNA complex VirB4
Neisseria flavescens	VBINeiFla25453_0372	Autolysin sensor kinase EC 2.7.3.-
Neisseria flavescens	VBINeiFla114371_1461	Beta 1 2C4 glucosyltransferase
Neisseria flavescens	VBINeiFla25453_1099	Beta-1 2C3-glucosyltransferase
Neisseria flavescens	VBINeiFla25453_0410	Biopolymer transport protein ExbD TolR
Neisseria flavescens	VBINeiFla25453_2014	Capsular polysaccharide biosynthesis export periplasmic protein WcbA
Neisseria flavescens	VBINeiFla25453_0733	Capsular polysaccharide export system protein KpsS
Neisseria flavescens	VBINeiFla25453_0308	CDP-6-deoxy-delta-3 2C4-glucoseen reductase-like
Neisseria flavescens	VBINeiFla25453_0006	Cell division trigger factor EC 5.2.1.8
Neisseria flavescens	VBINeiFla114371_1084	Cell division trigger factor EC 5.2.1.8
Neisseria flavescens	VBINeiFla25453_1789	Cell division trigger factor EC 5.2.1.8
Neisseria flavescens	VBINeiFla114371_1009	ClpB protein
Neisseria flavescens	VBINeiFla25453_1765	ClpB protein
Neisseria flavescens	VBINeiFla114371_0248	ClpB protein
Neisseria flavescens	VBINeiFla114371_2207	ClpB protein
Neisseria flavescens	VBINeiFla25453_2065	COG1272 Predicted membrane protein hemolysin III homolog
Neisseria flavescens	VBINeiFla25453_0740	COG1272 Predicted membrane protein hemolysin III homolog
Neisseria flavescens	VBINeiFla114371_1678	Copper-sensing two-component system response regulator CpxR
Neisseria flavescens	VBINeiFla25453_0093	Copper-sensing two-component system response regulator CpxR
Neisseria flavescens	VBINeiFla25453_0010	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Neisseria flavescens	VBINeiFla114371_0156	D-alanyl-D-alanine carboxypeptidase D-alanyl-D-alanine-endopeptidase
Neisseria flavescens	VBINeiFla114371_0549	DegT DnrJ EryC1 StrS family protein
Neisseria flavescens	VBINeiFla114371_1988	Diaminopimelate decarboxylase EC 4.1.1.20
Neisseria flavescens	VBINeiFla25453_0657	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Neisseria flavescens	VBINeiFla25453_2003	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Neisseria flavescens	VBINeiFla25453_1606	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Neisseria flavescens	VBINeiFla114371_1774	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Neisseria flavescens	VBINeiFla25453_1968	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Neisseria flavescens	VBINeiFla25453_0253	Enolase EC 4.2.1.11
Neisseria flavescens	VBINeiFla25453_2049	Ferrichrome-iron receptor
Neisseria flavescens	VBINeiFla25453_0640	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Neisseria flavescens	VBINeiFla114371_1783	Ferrous iron transport protein B
Neisseria flavescens	VBINeiFla114371_1779	Ferrous iron transport protein B
Neisseria flavescens	VBINeiFla25453_1738	Ferrous iron transport protein B
Neisseria flavescens	VBINeiFla25453_0777	FIG00848403 hypothetical protein
Neisseria flavescens	VBINeiFla25453_2050	FIG00848403 hypothetical protein
Neisseria flavescens	VBINeiFla114371_2118	FIG00849932 hypothetical protein
Neisseria flavescens	VBINeiFla114371_0359	FIG00850595 hypothetical protein
Neisseria flavescens	VBINeiFla25453_0592	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Neisseria flavescens	VBINeiFla114371_2059	fimbrial biogenesis and twitching motility protein 2C probable NMB1309
Neisseria flavescens	VBINeiFla114371_1775	fimbrial biogenesis and twitching motility protein 2C probable NMB1309
Neisseria flavescens	VBINeiFla25453_1598	fimbrial biogenesis and twitching motility protein 2C probable NMB1309
Neisseria flavescens	VBINeiFla114371_0989	FKBP-type peptidyl-prolyl cis-trans isomerase fKlB EC 5.2.1.8
Neisseria flavescens	VBINeiFla25453_0988	Gamma-glutamyltranspeptidase EC 2.3.2.2
Neisseria flavescens	VBINeiFla114371_0370	general secretion pathway protein H

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Neisseria flavescens	VBINeiFla25453_1988	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria flavescens	VBINeiFla114371_1998	Glucose-6-phosphate isomerase EC 5.3.1.9
Neisseria flavescens	VBINeiFla25453_0343	Glucose-6-phosphate isomerase EC 5.3.1.9
Neisseria flavescens	VBINeiFla25453_0272	Glutamate transport ATP-binding protein
Neisseria flavescens	VBINeiFla25453_0408	Glutamine synthetase type I EC 6.3.1.2
Neisseria flavescens	VBINeiFla114371_0353	Glutamine synthetase type I EC 6.3.1.2
Neisseria flavescens	VBINeiFla114371_1048	Glutamine synthetase type I EC 6.3.1.2
Neisseria flavescens	VBINeiFla25453_0032	Glutamyl-tRNA reductase EC 1.2.1.70
Neisseria flavescens	VBINeiFla25453_1893	Glycerol-3-phosphate cytidyltransferase EC 2.7.7.39
Neisseria flavescens	VBINeiFla25453_0526	Glycerol-3-phosphate cytidyltransferase EC 2.7.7.39
Neisseria flavescens	VBINeiFla25453_0472	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria flavescens	VBINeiFla25453_0912	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrola
Neisseria flavescens	VBINeiFla25453_2085	Heat shock protein 60 family chaperone GroEL
Neisseria flavescens	VBINeiFla114371_0180	Heat shock protein 60 family chaperone GroEL
Neisseria flavescens	VBINeiFla25453_0494	Heat shock protein 60 family chaperone GroEL
Neisseria flavescens	VBINeiFla25453_0573	Hemin ABC transporter 2C permease protein
Neisseria flavescens	VBINeiFla25453_0332	Hemolysins and related proteins containing CBS domains
Neisseria flavescens	VBINeiFla114371_1689	Imidazole glycerol phosphate synthase cyclase subunit EC 4.1.3.-
Neisseria flavescens	VBINeiFla25453_1891	Inner membrane protein forms channel for type IV secretion of T-DNA complex VirB10
Neisseria flavescens	VBINeiFla25453_2037	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Neisseria flavescens	VBINeiFla25453_0725	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Neisseria flavescens	VBINeiFla25453_2033	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Neisseria flavescens	VBINeiFla25453_2086	Iron compound ABC uptake transporter permease protein PiuC
Neisseria flavescens	VBINeiFla114371_0648	Iron compound ABC uptake transporter substrate-binding protein PiuA
Neisseria flavescens	VBINeiFla25453_0495	iron-regulated outer membrane protein FrpB
Neisseria flavescens	VBINeiFla114371_0488	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Neisseria flavescens	VBINeiFla114371_0419	Leader peptidase Prepilin peptidase EC 3.4.23.43 N-methyltransferase EC 2.1.1.-
Neisseria flavescens	VBINeiFla114371_0821	LgtG
Neisseria flavescens	VBINeiFla25453_1894	LgtG
Neisseria flavescens	VBINeiFla25453_0497	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Neisseria flavescens	VBINeiFla25453_0339	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria flavescens	VBINeiFla114371_0819	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria flavescens	VBINeiFla25453_0716	Lipid-A-disaccharide synthase EC 2.4.1.182
Neisseria flavescens	VBINeiFla114371_0685	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Neisseria flavescens	VBINeiFla25453_0348	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Neisseria flavescens	VBINeiFla25453_0913	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Neisseria flavescens	VBINeiFla25453_1329	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria flavescens	VBINeiFla25453_0798	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria flavescens	VBINeiFla25453_0650	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria flavescens	VBINeiFla114371_1045	Lysine-arginine-ornithine-binding periplasmic protein precursor TC 3.A.1.3.1
Neisseria flavescens	VBINeiFla25453_1340	Macrolide export ATP-binding permease protein MacB EC 3.6.3.-
Neisseria flavescens	VBINeiFla25453_0907	Macrophage infectivity potentiator GldI
Neisseria flavescens	VBINeiFla25453_0064	Magnesium and cobalt efflux protein CorC
Neisseria flavescens	VBINeiFla114371_0021	MCE-family protein Mce1B
Neisseria flavescens	VBINeiFla25453_0688	Membrane-associated zinc metalloprotease
Neisseria flavescens	VBINeiFla114371_2007	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Neisseria flavescens	VBINeiFla114371_1677	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Neisseria flavescens	VBINeiFla25453_0081	Methionine ABC transporter ATP-binding protein
Neisseria flavescens	VBINeiFla25453_0417	MotA ToIQ ExbB proton channel family protein
Neisseria flavescens	VBINeiFla25453_0914	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria flavescens	VBINeiFla114371_1866	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria flavescens	VBINeiFla114371_0869	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria flavescens	VBINeiFla114371_1097	NADPH-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.13
Neisseria flavescens	VBINeiFla25453_0437	Nitrate nitrite response regulator protein
Neisseria flavescens	VBINeiFla25453_1862	Nitrate nitrite response regulator protein
Neisseria flavescens	VBINeiFla25453_0215	Nitrogen regulation protein NtrX
Neisseria flavescens	VBINeiFla25453_0086	Nitrous oxide reductase maturation protein NosF ATPase
Neisseria flavescens	VBINeiFla25453_1600	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Neisseria flavescens	VBINeiFla114371_0681	Nucleoside-diphosphate sugar epimerase dehydratase
Neisseria flavescens	VBINeiFla25453_0631	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Neisseria flavescens	VBINeiFla25453_0629	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Neisseria flavescens	VBINeiFla114371_0135	Omega-amino acid--pyruvate aminotransferase EC 2.6.1.18
Neisseria flavescens	VBINeiFla25453_0493	Outer membrane hemoglobin-haptoglobin utilization protein HpuA
Neisseria flavescens	VBINeiFla25453_0146	Outer membrane protein A precursor
Neisseria flavescens	VBINeiFla114371_1985	Outer membrane protein assembly factor YaeT precursor
Neisseria flavescens	VBINeiFla114371_0160	Outer membrane protein class 1
Neisseria flavescens	VBINeiFla25453_0092	Outer membrane protein class 1
Neisseria flavescens	VBINeiFla114371_0294	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria flavescens	VBINeiFla114371_0327	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria flavescens	VBINeiFla25453_1897	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria flavescens	VBINeiFla114371_0447	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria flavescens	VBINeiFla25453_0429	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria flavescens	VBINeiFla25453_2069	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria flavescens	VBINeiFla25453_1390	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria flavescens	VBINeiFla25453_0224	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria flavescens	VBINeiFla25453_1391	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria flavescens	VBINeiFla114371_0638	Outer membrane receptor proteins 2C mostly Fe transport
Neisseria flavescens	VBINeiFla25453_0269	Pantoate--beta-alanine ligase EC 6.3.2.1
Neisseria flavescens	VBINeiFla114371_0671	Petrobactin ABC transporter 2C permease protein II

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Neisseria flavescens	VBINeiFla25453_0682	Phosphatidate cytidyltransferase EC 2.7.7.41
Neisseria flavescens	VBINeiFla114371_1976	Phosphatidate cytidyltransferase EC 2.7.7.41
Neisseria flavescens	VBINeiFla25453_1011	Phosphoglucosamine mutase EC 5.4.2.10
Neisseria flavescens	VBINeiFla114371_0337	Phosphoglucosamine mutase EC 5.4.2.10
Neisseria flavescens	VBINeiFla114371_0030	Phospholipase C 3 PlcC EC 3.1.4.3
Neisseria flavescens	VBINeiFla25453_1643	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Neisseria flavescens	VBINeiFla114371_2126	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Neisseria flavescens	VBINeiFla25453_1949	Polyphosphate kinase 2 EC 2.7.4.1
Neisseria flavescens	VBINeiFla25453_0393	Polyphosphate kinase 2 EC 2.7.4.1
Neisseria flavescens	VBINeiFla25453_0670	Polysaccharide export lipoprotein Wza
Neisseria flavescens	VBINeiFla25453_0043	Porphobilinogen deaminase EC 2.5.1.61
Neisseria flavescens	VBINeiFla25453_1655	Porphobilinogen synthase EC 4.2.1.24
Neisseria flavescens	VBINeiFla114371_2192	Porphobilinogen synthase EC 4.2.1.24
Neisseria flavescens	VBINeiFla25453_0991	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Neisseria flavescens	VBINeiFla25453_0717	Proposed peptidoglycan lipid II flippase MurJ
Neisseria flavescens	VBINeiFla25453_0024	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria flavescens	VBINeiFla114371_0912	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria flavescens	VBINeiFla114371_0122	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Neisseria flavescens	VBINeiFla25453_1436	Putative HlyD family secretion protein
Neisseria flavescens	VBINeiFla25453_0728	Putative periplasmic substrate-binding transport protein
Neisseria flavescens	VBINeiFla25453_0644	Putative two-domain glycosyltransferase
Neisseria flavescens	VBINeiFla114371_0456	Putrescine transport ATP-binding protein PotG TC 3.A.1.11.2
Neisseria flavescens	VBINeiFla114371_0936	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Neisseria flavescens	VBINeiFla25453_1599	Radical SAM family enzyme 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C clustered with nucl
Neisseria flavescens	VBINeiFla25453_0529	Radical SAM family protein HutW 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C associated wil
Neisseria flavescens	VBINeiFla114371_1787	Radical SAM family protein HutW 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C associated wil
Neisseria flavescens	VBINeiFla114371_0585	Respiratory nitrate reductase alpha chain EC 1.7.99.4
Neisseria flavescens	VBINeiFla25453_0031	RNA polymerase sigma factor RpoH
Neisseria flavescens	VBINeiFla25453_1342	RNA polymerase sigma factor RpoH
Neisseria flavescens	VBINeiFla114371_1026	Sel1 domain protein repeat-containing protein
Neisseria flavescens	VBINeiFla25453_0037	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Neisseria flavescens	VBINeiFla114371_1021	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Neisseria flavescens	VBINeiFla114371_0383	sigma-54 dependent response regulator
Neisseria flavescens	VBINeiFla25453_0447	Sulfate and thiosulfate import ATP-binding protein CysA EC 3.6.3.25
Neisseria flavescens	VBINeiFla25453_1850	Sulfate and thiosulfate import ATP-binding protein CysA EC 3.6.3.25
Neisseria flavescens	VBINeiFla114371_2030	Superoxide dismutase Fe EC 1.15.1.1
Neisseria flavescens	VBINeiFla114371_1799	Surface protein A
Neisseria flavescens	VBINeiFla114371_1798	Surface protein A
Neisseria flavescens	VBINeiFla25453_1325	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Neisseria flavescens	VBINeiFla114371_1786	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Neisseria flavescens	VBINeiFla25453_1758	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Neisseria flavescens	VBINeiFla25453_0874	TonB-dependent hemin 2C ferrichrome receptor
Neisseria flavescens	VBINeiFla114371_0175	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Neisseria flavescens	VBINeiFla114371_1989	Transcriptional regulatory protein RtcR
Neisseria flavescens	VBINeiFla114371_1872	Transcriptional regulatory protein RtcR
Neisseria flavescens	VBINeiFla114371_0438	Translation elongation factor Tu
Neisseria flavescens	VBINeiFla114371_0377	Translation elongation factor Tu
Neisseria flavescens	VBINeiFla25453_1100	Translation elongation factor Tu
Neisseria flavescens	VBINeiFla114371_0369	Translation elongation factor Tu
Neisseria flavescens	VBINeiFla25453_1174	Twitching motility protein PilT
Neisseria flavescens	VBINeiFla114371_1038	Twitching motility protein PilT
Neisseria flavescens	VBINeiFla25453_1208	Twitching motility protein PilT
Neisseria flavescens	VBINeiFla25453_0145	Two component system histidine kinase EC 2.7.3.-
Neisseria flavescens	VBINeiFla114371_1688	Two component system histidine kinase EC 2.7.3.-
Neisseria flavescens	VBINeiFla114371_0286	Two-component system response regulator QseB
Neisseria flavescens	VBINeiFla114371_0409	Type IV fimbrial assembly 2C ATPase PilB
Neisseria flavescens	VBINeiFla114371_0410	Type IV fimbrial assembly 2C ATPase PilB
Neisseria flavescens	VBINeiFla114371_0166	Type IV fimbrial assembly protein PilC
Neisseria flavescens	VBINeiFla114371_0289	Type IV fimbrial biogenesis protein PilY1
Neisseria flavescens	VBINeiFla114371_0425	Type IV fimbrial biogenesis protein PilY1
Neisseria flavescens	VBINeiFla25453_1552	Type IV pilus biogenesis protein PilE
Neisseria flavescens	VBINeiFla114371_1353	Type IV pilus biogenesis protein PilM
Neisseria flavescens	VBINeiFla25453_0887	Type IV pilus biogenesis protein PilM
Neisseria flavescens	VBINeiFla114371_0362	Type IV pilus biogenesis protein PilM
Neisseria flavescens	VBINeiFla114371_1354	Type IV pilus biogenesis protein PilN
Neisseria flavescens	VBINeiFla25453_0886	Type IV pilus biogenesis protein PilN
Neisseria flavescens	VBINeiFla114371_1425	Type IV pilus biogenesis protein PilO
Neisseria flavescens	VBINeiFla114371_1429	Type IV pilus biogenesis protein PilP
Neisseria flavescens	VBINeiFla25453_0885	Type IV pilus biogenesis protein PilP
Neisseria flavescens	VBINeiFla114371_1448	Type IV pilus biogenesis protein PilQ
Neisseria flavescens	VBINeiFla114371_0360	Type IV pilus biogenesis protein PilQ
Neisseria flavescens	VBINeiFla25453_0884	Type IV pilus biogenesis protein PilQ
Neisseria flavescens	VBINeiFla25453_0677	Tyrosine-protein kinase Wzc EC 2.7.10.2
Neisseria flavescens	VBINeiFla25453_0427	UDP-2 2C3-diacetylglucosamine hydrolase EC 3.6.1.-
Neisseria flavescens	VBINeiFla114371_1815	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Neisseria flavescens	VBINeiFla25453_0977	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Neisseria flavescens	VBINeiFla114371_0565	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Neisseria flavescens	VBINeiFla114371_0915	UDP-glucose dehydrogenase EC 1.1.1.22
Neisseria flavescens	VBINeiFla114371_0367	UDP-glucose dehydrogenase EC 1.1.1.22

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Neisseria flavescens	VBINeiFla25453_0902	UDP-glucose dehydrogenase EC 1.1.1.22
Neisseria flavescens	VBINeiFla114371_1011	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Neisseria flavescens	VBINeiFla25453_1954	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Neisseria flavescens	VBINeiFla114371_1909	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Neisseria flavescens	VBINeiFla25453_0681	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Neisseria flavescens	VBINeiFla25453_0315	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Neisseria flavescens	VBINeiFla114371_0811	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Neisseria flavescens	VBINeiFla25453_1062	Zinc ABC transporter 2C ATP-binding protein ZnuC
Neisseria gonorrhoeae	VBINeiGon41692_0269	amino acid ABC transporter 2C ATP-binding protein
Neisseria gonorrhoeae	VBINeiGon90175_0733	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Neisseria gonorrhoeae	VBINeiGon41692_2134	Glutamine synthetase type I EC 6.3.1.2
Neisseria gonorrhoeae	VBINeiGon90175_0003	Glutamyl-tRNA reductase EC 1.2.1.70
Neisseria gonorrhoeae	VBINeiGon90175_0596	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Neisseria gonorrhoeae	VBINeiGon41692_0017	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Neisseria gonorrhoeae	VBINeiGon41692_0158	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Neisseria gonorrhoeae	VBINeiGon41692_0466	Lipopolysaccharide heptosyltransferase III EC 2.4.1.-
Neisseria gonorrhoeae	VBINeiGon90175_0139	Magnesium and cobalt efflux protein CorC
Neisseria gonorrhoeae	VBINeiGon90175_0298	Methionine ABC transporter ATP-binding protein
Neisseria gonorrhoeae	VBINeiGon90175_0425	Nitrous oxide reductase maturation protein NosF ATPase
Neisseria gonorrhoeae	VBINeiGon90175_0735	Ornithine carbamoyltransferase EC 2.1.3.3
Neisseria gonorrhoeae	VBINeiGon90175_0710	Outer membrane protein A precursor
Neisseria gonorrhoeae	VBINeiGon90175_0483	Outer membrane protein class 1
Neisseria gonorrhoeae	VBINeiGon90175_0137	Porphobilinogen deaminase EC 2.5.1.61
Neisseria gonorrhoeae	VBINeiGon90175_1528	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria gonorrhoeae	VBINeiGon90175_0709	Two component system histidine kinase EC 2.7.3.-
Neisseria gonorrhoeae	VBINeiGon90175_2148	Type IV pilus biogenesis protein PilE
Neisseria lactamica	VBINeiLac92233_1880	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
Neisseria lactamica	VBINeiLac170077_0497	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Neisseria lactamica	VBINeiLac92233_0158	ABC-transport system ATP-binding protein
Neisseria lactamica	VBINeiLac92233_2254	CDP-6-deoxy-delta-3 2C4-glucoseen reductase-like
Neisseria lactamica	VBINeiLac170077_2467	Diaminopimelate decarboxylase EC 4.1.1.20
Neisseria lactamica	VBINeiLac170077_2280	FIG00848649 hypothetical protein
Neisseria lactamica	VBINeiLac170077_0099	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Neisseria lactamica	VBINeiLac92233_0562	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria lactamica	VBINeiLac170077_1889	Lipid carrier UDP-N-acetylgalactosaminyltransferase EC 2.4.1.-
Neisseria lactamica	VBINeiLac170077_2154	Low molecular weight protein-tyrosine-phosphatase Wzb EC 3.1.3.48
Neisseria lactamica	VBINeiLac92233_0650	Outer membrane hemoglobin-haptoglobin utilization protein HpuA
Neisseria lactamica	VBINeiLac92233_1376	Outer membrane hemoglobin-haptoglobin utilization protein HpuB
Neisseria lactamica	VBINeiLac170077_1922	Polysaccharide export lipoprotein Wza
Neisseria lactamica	VBINeiLac170077_2371	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Neisseria lactamica	VBINeiLac92233_0079	Translation elongation factor Tu
Neisseria lactamica	VBINeiLac92233_2351	Twitching motility protein PilT
Neisseria lactamica	VBINeiLac170077_1715	Type IV pilus biogenesis protein PilN
Neisseria lactamica	VBINeiLac170077_1144	Type IV pilus biogenesis protein PilO
Neisseria lactamica	VBINeiLac170077_0684	Type IV pilus biogenesis protein PilP
Neisseria lactamica	VBINeiLac170077_0660	Type IV pilus biogenesis protein PilQ
Neisseria lactamica	VBINeiLac170077_1888	UDP-glucose dehydrogenase EC 1.1.1.22
Neisseria lactamica	VBINeiLac92233_2230	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Neisseria meningitidis	VBINeiMen132687_0217	3-oxoacyl-ACP reductase EC 1.1.1.100
Neisseria meningitidis	VBINeiMen132687_2375	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Neisseria meningitidis	VBINeiMen141067_0750	ABC transporter 2C ATP-binding protein
Neisseria meningitidis	VBINeiMen132687_1682	Acetylornithine aminotransferase EC 2.6.1.11
Neisseria meningitidis	VBINeiMen132687_2370	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Neisseria meningitidis	VBINeiMen132687_0206	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Neisseria meningitidis	VBINeiMen132687_0758	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Neisseria meningitidis	VBINeiMen141067_1388	Arabinose 5-phosphate isomerase EC 5.3.1.13
Neisseria meningitidis	VBINeiMen132687_0934	Autolysin sensor kinase EC 2.7.3.-
Neisseria meningitidis	VBINeiMen141067_2489	Biopolymer transport protein ExbD TolR
Neisseria meningitidis	VBINeiMen141067_0443	ClpB protein
Neisseria meningitidis	VBINeiMen132687_0549	Enolase EC 4.2.1.11
Neisseria meningitidis	VBINeiMen132687_0209	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Neisseria meningitidis	VBINeiMen141067_0541	Gamma-glutamyltranspeptidase EC 2.3.2.2
Neisseria meningitidis	VBINeiMen132687_1106	Glucose-6-phosphate isomerase EC 5.3.1.9
Neisseria meningitidis	VBINeiMen132687_1461	Hemin ABC transporter 2C permease protein
Neisseria meningitidis	VBINeiMen132687_0223	Hemolysins and related proteins containing CBS domains
Neisseria meningitidis	VBINeiMen132687_0820	Leader peptidase Prepilin peptidase EC 3.4.23.43 N-methyltransferase EC 2.1.1.-
Neisseria meningitidis	VBINeiMen132687_0520	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria meningitidis	VBINeiMen132687_2073	Lipid-A-disaccharide synthase EC 2.4.1.182
Neisseria meningitidis	VBINeiMen141067_1579	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Neisseria meningitidis	VBINeiMen141067_0617	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Neisseria meningitidis	VBINeiMen132687_0933	Macrophage infectivity potentiator GldI
Neisseria meningitidis	VBINeiMen141067_0224	Membrane-associated zinc metalloprotease
Neisseria meningitidis	VBINeiMen132687_1160	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Neisseria meningitidis	VBINeiMen141067_2472	MotA TolQ ExbB proton channel family protein
Neisseria meningitidis	VBINeiMen141067_0550	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria meningitidis	VBINeiMen141067_0919	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria meningitidis	VBINeiMen132687_1218	Nitrogen regulation protein NtrX
Neisseria meningitidis	VBINeiMen141067_0216	Outer membrane protein assembly factor YaeT precursor
Neisseria meningitidis	VBINeiMen141067_2000	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid

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Neisseria meningitidis	VBINeiMen132687_0010	Pantoate--beta-alanine ligase EC 6.3.2.1
Neisseria meningitidis	VBINeiMen141067_2527	probable integral membrane protein NMA0408
Neisseria meningitidis	VBINeiMen132687_0155	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Neisseria meningitidis	VBINeiMen132687_1982	Proposed peptidoglycan lipid II flippase MurJ
Neisseria meningitidis	VBINeiMen132687_0170	Putative two-domain glycosyltransferase
Neisseria meningitidis	VBINeiMen132687_0607	Putrescine transport ATP-binding protein PotG TC 3.A.1.11.2
Neisseria meningitidis	VBINeiMen132687_1883	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Neisseria meningitidis	VBINeiMen132687_1884	RNA polymerase sigma factor RpoD
Neisseria meningitidis	VBINeiMen141067_1761	sigma-54 dependent response regulator
Neisseria meningitidis	VBINeiMen141067_0749	TonB-dependent siderophore receptor
Neisseria meningitidis	VBINeiMen132687_0523	Transcriptional regulatory protein RtcR
Neisseria meningitidis	VBINeiMen132687_0857	Type IV fimbrial assembly 2C ATPase PilB
Neisseria meningitidis	VBINeiMen132687_0847	Type IV fimbrial assembly protein PilC
Neisseria meningitidis	VBINeiMen141067_1212	Type IV fimbrial biogenesis protein PilY1
Neisseria meningitidis	VBINeiMen141067_2336	UDP-2 2C3-diacetylglucosamine hydrolase EC 3.6.1.-
Neisseria meningitidis	VBINeiMen132687_2655	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Neisseria meningitidis	VBINeiMen141067_0374	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Neisseria meningitidis	VBINeiMen132687_0207	Zinc ABC transporter 2C ATP-binding protein ZnuC
Neisseria meningitidis	VBINeiMen132687_0208	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Neisseria mucosa	VBINeiMuc94085_1974	1-acyl-sn-glycerol-3-phosphate acyltransferase EC 2.3.1.51
Neisseria mucosa	VBINeiMuc55442_0109	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria mucosa	VBINeiMuc94085_1313	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Neisseria mucosa	VBINeiMuc55442_2379	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Neisseria mucosa	VBINeiMuc94085_0460	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Neisseria mucosa	VBINeiMuc94085_1343	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Neisseria mucosa	VBINeiMuc94085_1303	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Neisseria mucosa	VBINeiMuc94085_1486	4-keto-6-deoxy-N-Acetyl-D-hexosaminyl-Lipid carrier aminotransferase
Neisseria mucosa	VBINeiMuc94085_1666	ABC-transport system ATP-binding protein
Neisseria mucosa	VBINeiMuc94085_1489	ABC-type Fe3+-hydroxamate transport system 2C periplasmic component
Neisseria mucosa	VBINeiMuc94085_1308	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Neisseria mucosa	VBINeiMuc55442_2321	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Neisseria mucosa	VBINeiMuc55442_0555	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Neisseria mucosa	VBINeiMuc94085_1138	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Neisseria mucosa	VBINeiMuc94085_1734	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Neisseria mucosa	VBINeiMuc94085_1747	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Neisseria mucosa	VBINeiMuc94085_0632	Alkaline protease secretion protein AprE
Neisseria mucosa	VBINeiMuc55442_2615	Alkaline protease secretion protein AprE
Neisseria mucosa	VBINeiMuc94085_1323	Amino acid ABC transporter 2C ATP-binding protein
Neisseria mucosa	VBINeiMuc94085_1315	Amino acid ABC transporter 2C permease protein
Neisseria mucosa	VBINeiMuc55442_0870	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria mucosa	VBINeiMuc94085_0406	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria mucosa	VBINeiMuc55442_2347	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria mucosa	VBINeiMuc94085_1327	Aspartate racemase EC 5.1.1.13
Neisseria mucosa	VBINeiMuc55442_1949	ATP synthase beta chain EC 3.6.3.14
Neisseria mucosa	VBINeiMuc55442_0935	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc55442_0586	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc55442_0599	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc55442_0954	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc55442_2336	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc94085_1178	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc55442_2338	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc94085_1179	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria mucosa	VBINeiMuc55442_1876	Capsular polysaccharide ABC transporter 2C permease protein KpsM
Neisseria mucosa	VBINeiMuc55442_1805	Capsular polysaccharide biosynthesis export periplasmic protein WcbA
Neisseria mucosa	VBINeiMuc55442_1799	Capsular polysaccharide export system protein KpsS
Neisseria mucosa	VBINeiMuc94085_1905	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Neisseria mucosa	VBINeiMuc94085_1312	Cell division trigger factor EC 5.2.1.8
Neisseria mucosa	VBINeiMuc55442_2408	ClpB protein
Neisseria mucosa	VBINeiMuc94085_1309	ClpB protein
Neisseria mucosa	VBINeiMuc94085_0910	Copper-sensing two-component system response regulator CpxR
Neisseria mucosa	VBINeiMuc94085_1971	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.- 3B Histidinol-phosphatase EC 3.1.3.15
Neisseria mucosa	VBINeiMuc94085_0778	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Neisseria mucosa	VBINeiMuc94085_0768	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Neisseria mucosa	VBINeiMuc55442_1833	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Neisseria mucosa	VBINeiMuc94085_0758	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Neisseria mucosa	VBINeiMuc94085_1473	Enolase EC 4.2.1.11
Neisseria mucosa	VBINeiMuc55442_1916	Ferric anguibactin transport system permease protein fatD
Neisseria mucosa	VBINeiMuc94085_1693	Ferric anguibactin transport system permease protein fatD
Neisseria mucosa	VBINeiMuc55442_0269	Ferric anguibactin-binding protein
Neisseria mucosa	VBINeiMuc55442_0003	Ferric anguibactin-binding protein
Neisseria mucosa	VBINeiMuc55442_2656	Ferrichrome-iron receptor
Neisseria mucosa	VBINeiMuc94085_0961	Ferrichrome-iron receptor
Neisseria mucosa	VBINeiMuc94085_1326	Ferrous iron transport protein B
Neisseria mucosa	VBINeiMuc55442_2380	FrpA C-related protein
Neisseria mucosa	VBINeiMuc55442_2089	FrpA C-related protein
Neisseria mucosa	VBINeiMuc94085_1671	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria mucosa	VBINeiMuc55442_1861	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria mucosa	VBINeiMuc55442_0779	Glucose-6-phosphate isomerase EC 5.3.1.9
Neisseria mucosa	VBINeiMuc94085_1058	Glutamine synthetase type I EC 6.3.1.2

Table S8

Neisseria mucosa	VBINeiMuc55442_1666	Glutamine synthetase type I EC 6.3.1.2
Neisseria mucosa	VBINeiMuc55442_0864	Glutamine synthetase type I EC 6.3.1.2
Neisseria mucosa	VBINeiMuc55442_2509	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria mucosa	VBINeiMuc55442_0868	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria mucosa	VBINeiMuc94085_2055	Heat shock protein 60 family chaperone GroEL
Neisseria mucosa	VBINeiMuc55442_0712	Heat shock protein 60 family chaperone GroEL
Neisseria mucosa	VBINeiMuc55442_1948	Heat shock protein 60 family chaperone GroEL
Neisseria mucosa	VBINeiMuc55442_1466	Heat shock protein 60 family chaperone GroEL
Neisseria mucosa	VBINeiMuc94085_0030	Heat shock protein 60 family chaperone GroEL
Neisseria mucosa	VBINeiMuc55442_2381	Hemolysin-type calcium-binding region
Neisseria mucosa	VBINeiMuc94085_0482	Hemolysin-type calcium-binding region
Neisseria mucosa	VBINeiMuc94085_0531	Hemolysin-type calcium-binding region
Neisseria mucosa	VBINeiMuc94085_0475	Hemolysin-type calcium-binding region
Neisseria mucosa	VBINeiMuc94085_1405	hypothetical protein
Neisseria mucosa	VBINeiMuc55442_2301	hypothetical protein
Neisseria mucosa	VBINeiMuc94085_1347	hypothetical protein
Neisseria mucosa	VBINeiMuc94085_1346	hypothetical protein
Neisseria mucosa	VBINeiMuc94085_0305	hypothetical protein
Neisseria mucosa	VBINeiMuc94085_1421	hypothetical protein
Neisseria mucosa	VBINeiMuc94085_1493	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Neisseria mucosa	VBINeiMuc55442_1219	iron-regulated outer membrane protein FrpB
Neisseria mucosa	VBINeiMuc55442_1945	iron-regulated outer membrane protein FrpB
Neisseria mucosa	VBINeiMuc55442_2676	iron-regulated outer membrane protein FrpB
Neisseria mucosa	VBINeiMuc55442_1195	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria mucosa	VBINeiMuc94085_0951	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria mucosa	VBINeiMuc94085_0761	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria mucosa	VBINeiMuc94085_1162	Magnesium and cobalt efflux protein CorC
Neisseria mucosa	VBINeiMuc94085_1261	Membrane-associated zinc metalloprotease
Neisseria mucosa	VBINeiMuc94085_1612	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Neisseria mucosa	VBINeiMuc94085_1885	MotA TolQ ExbB proton channel family protein
Neisseria mucosa	VBINeiMuc94085_1228	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria mucosa	VBINeiMuc94085_0691	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria mucosa	VBINeiMuc55442_1222	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria mucosa	VBINeiMuc55442_0838	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria mucosa	VBINeiMuc55442_1720	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria mucosa	VBINeiMuc55442_0106	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria mucosa	VBINeiMuc94085_1345	Nitrogen regulation protein NtrX
Neisseria mucosa	VBINeiMuc94085_0914	Nitrous oxide reductase maturation protein NosF ATPase
Neisseria mucosa	VBINeiMuc94085_1225	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Neisseria mucosa	VBINeiMuc94085_1598	Outer membrane protein A precursor
Neisseria mucosa	VBINeiMuc55442_0869	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria mucosa	VBINeiMuc55442_1092	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria mucosa	VBINeiMuc94085_0099	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria mucosa	VBINeiMuc55442_0130	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria mucosa	VBINeiMuc94085_1723	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria mucosa	VBINeiMuc55442_1236	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria mucosa	VBINeiMuc94085_0321	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria mucosa	VBINeiMuc94085_0349	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria mucosa	VBINeiMuc55442_1011	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria mucosa	VBINeiMuc55442_1007	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria mucosa	VBINeiMuc55442_1719	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria mucosa	VBINeiMuc55442_1718	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria mucosa	VBINeiMuc55442_0961	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria mucosa	VBINeiMuc94085_0365	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria mucosa	VBINeiMuc55442_0522	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria mucosa	VBINeiMuc55442_2499	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria mucosa	VBINeiMuc55442_2079	Porphobilinogen deaminase EC 2.5.1.61
Neisseria mucosa	VBINeiMuc94085_0240	Porphobilinogen deaminase EC 2.5.1.61
Neisseria mucosa	VBINeiMuc55442_0691	probable integral membrane protein NMA0408
Neisseria mucosa	VBINeiMuc55442_0702	probable integral membrane protein NMA0408
Neisseria mucosa	VBINeiMuc94085_1314	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Neisseria mucosa	VBINeiMuc94085_0612	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria mucosa	VBINeiMuc94085_1227	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria mucosa	VBINeiMuc55442_1909	putative capsule biosynthesis protein
Neisseria mucosa	VBINeiMuc55442_2013	Putative large exoprotein involved in heme utilization or adhesion of ShIA HecA FhaA family
Neisseria mucosa	VBINeiMuc55442_1691	Putative large exoprotein involved in heme utilization or adhesion of ShIA HecA FhaA family
Neisseria mucosa	VBINeiMuc94085_1551	Putative periplasmic substrate-binding transport protein
Neisseria mucosa	VBINeiMuc94085_0786	Putative Ton-B dependent hemine receptor
Neisseria mucosa	VBINeiMuc94085_1740	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Neisseria mucosa	VBINeiMuc55442_1012	Radical SAM family enzyme 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C clustered with nucl
Neisseria mucosa	VBINeiMuc94085_0867	RNA polymerase sigma factor RpoD
Neisseria mucosa	VBINeiMuc94085_0134	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Neisseria mucosa	VBINeiMuc55442_0324	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Neisseria mucosa	VBINeiMuc55442_2047	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Neisseria mucosa	VBINeiMuc94085_1670	sigma-54 dependent response regulator
Neisseria mucosa	VBINeiMuc94085_1618	Sulfate and thiosulfate import ATP-binding protein CysA EC 3.6.3.25
Neisseria mucosa	VBINeiMuc94085_1153	TonB-dependent siderophore receptor
Neisseria mucosa	VBINeiMuc55442_1363	Translation elongation factor Tu
Neisseria mucosa	VBINeiMuc55442_1750	Translation elongation factor Tu

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Neisseria mucosa	VBINeiMuc94085_0706	Translation elongation factor Tu
Neisseria mucosa	VBINeiMuc55442_1740	Translation elongation factor Tu
Neisseria mucosa	VBINeiMuc94085_0704	Translation elongation factor Tu
Neisseria mucosa	VBINeiMuc55442_0859	Translation elongation factor Tu
Neisseria mucosa	VBINeiMuc94085_1904	Twitching motility protein PilT
Neisseria mucosa	VBINeiMuc94085_1887	Twitching motility protein PilT
Neisseria mucosa	VBINeiMuc94085_1423	Twitching motility protein PilT
Neisseria mucosa	VBINeiMuc94085_1886	Type IV fimbrial biogenesis protein PilY1
Neisseria mucosa	VBINeiMuc94085_1681	Type IV pilus biogenesis protein PilM
Neisseria mucosa	VBINeiMuc94085_1678	Type IV pilus biogenesis protein PilN
Neisseria mucosa	VBINeiMuc94085_1672	Type IV pilus biogenesis protein PilQ
Neisseria mucosa	VBINeiMuc94085_1289	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Neisseria mucosa	VBINeiMuc94085_1639	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Neisseria mucosa	VBINeiMuc55442_0047	UDP-N-acetylglucosamine 4 C2C6-dehydratase EC 4.2.1.-
Neisseria mucosa	VBINeiMuc55442_1992	UDP-N-acetylglucosamine 4 C2C6-dehydratase EC 4.2.1.-
Neisseria mucosa	VBINeiMuc94085_1579	Uncharacterized protein ImpD
Neisseria mucosa	VBINeiMuc94085_1231	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Neisseria mucosa	VBINeiMuc55442_2327	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Neisseria mucosa	VBINeiMuc94085_1724	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Neisseria mucosa	VBINeiMuc94085_1578	VgrG protein
Neisseria polysaccharea	VBINeiPol102132_1110	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria polysaccharea	VBINeiPol177493_0629	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Neisseria polysaccharea	VBINeiPol177493_0509	3-oxoacyl-ACP reductase EC 1.1.1.100
Neisseria polysaccharea	VBINeiPol177493_2144	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Neisseria polysaccharea	VBINeiPol177493_1838	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Neisseria polysaccharea	VBINeiPol102132_0829	Alkaline phosphatase EC 3.1.3.1
Neisseria polysaccharea	VBINeiPol102132_0803	Alkaline phosphatase EC 3.1.3.1
Neisseria polysaccharea	VBINeiPol102132_1303	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria polysaccharea	VBINeiPol102132_2131	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria polysaccharea	VBINeiPol177493_0706	ATPase provides energy for both assembly of type IV secretion complex and secretion of T-DNA complex VirB11
Neisseria polysaccharea	VBINeiPol177493_0834	Cell division trigger factor EC 5.2.1.8
Neisseria polysaccharea	VBINeiPol177493_0992	ClpB protein
Neisseria polysaccharea	VBINeiPol102132_0604	Diaminopimelate decarboxylase EC 4.1.1.20
Neisseria polysaccharea	VBINeiPol177493_0396	Enolase EC 4.2.1.11
Neisseria polysaccharea	VBINeiPol177493_1192	Ferrous iron transport protein B
Neisseria polysaccharea	VBINeiPol102132_0886	Glucose-6-phosphate isomerase EC 5.3.1.9
Neisseria polysaccharea	VBINeiPol177493_2360	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria polysaccharea	VBINeiPol177493_1983	Hemolysin
Neisseria polysaccharea	VBINeiPol177493_0431	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria polysaccharea	VBINeiPol102132_1073	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria polysaccharea	VBINeiPol102132_0677	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Neisseria polysaccharea	VBINeiPol102132_0477	Outer membrane hemoglobin-haptoglobin utilization protein HpuB
Neisseria polysaccharea	VBINeiPol177493_0398	Outer membrane receptor proteins 2C mostly Fe transport
Neisseria polysaccharea	VBINeiPol102132_0326	Outer membrane receptor proteins 2C mostly Fe transport
Neisseria polysaccharea	VBINeiPol177493_2071	Pantoate--beta-alanine ligase EC 6.3.2.1
Neisseria polysaccharea	VBINeiPol102132_0569	Phosphoheptose isomerase EC 5.3.1.-
Neisseria polysaccharea	VBINeiPol177493_1238	Porphobilinogen synthase EC 4.2.1.24
Neisseria polysaccharea	VBINeiPol177493_1967	Putative two-domain glycosyltransferase
Neisseria polysaccharea	VBINeiPol177493_0628	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Neisseria polysaccharea	VBINeiPol102132_0675	Respiratory nitrate reductase beta chain EC 1.7.99.4
Neisseria polysaccharea	VBINeiPol177493_1278	Superoxide dismutase Fe EC 1.15.1.1
Neisseria polysaccharea	VBINeiPol177493_1134	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Neisseria polysaccharea	VBINeiPol177493_0707	Type IV secretion system protein VirD4
Neisseria polysaccharea	VBINeiPol102132_0462	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Neisseria sicca	VBINeiSic1915_0595	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Neisseria sicca	VBINeiSic1915_2308	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Neisseria sicca	VBINeiSic181086_0676	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Neisseria sicca	VBINeiSic1915_0991	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria sicca	VBINeiSic1915_2183	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria sicca	VBINeiSic1915_2888	3-oxoacyl-ACP reductase EC 1.1.1.100
Neisseria sicca	VBINeiSic1915_2589	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Neisseria sicca	VBINeiSic181086_0994	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Neisseria sicca	VBINeiSic1915_0325	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Neisseria sicca	VBINeiSic181086_0502	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Neisseria sicca	VBINeiSic181086_2378	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Neisseria sicca	VBINeiSic1915_1401	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Neisseria sicca	VBINeiSic1915_0658	ABC transporter 2C ATP-binding protein
Neisseria sicca	VBINeiSic1915_1897	ABC transporter 2C ATP-binding protein
Neisseria sicca	VBINeiSic1915_0461	ABC transporter 2C ATP-binding protein
Neisseria sicca	VBINeiSic181086_2525	ABC transporter 2C ATP-binding protein
Neisseria sicca	VBINeiSic1915_2697	ABC transporter 2C transmembrane regionABC transporterPeptidase C39 2C bacteriocin processing
Neisseria sicca	VBINeiSic1915_0704	ABC-transport system ATP-binding protein
Neisseria sicca	VBINeiSic1915_1403	ABC-type Fe3+-hydroxamate transport system 2C periplasmic component
Neisseria sicca	VBINeiSic1915_2021	ABC-type Fe3+-hydroxamate transport system 2C periplasmic component
Neisseria sicca	VBINeiSic181086_0745	ABC-type Fe3+-hydroxamate transport system 2C periplasmic component
Neisseria sicca	VBINeiSic1915_1868	ABC-type multidrug transport system 2C permease component
Neisseria sicca	VBINeiSic1915_1867	ABC-type multidrug transport system 2C permease component
Neisseria sicca	VBINeiSic1915_2690	Acetylornithine aminotransferase EC 2.6.1.11
Neisseria sicca	VBINeiSic181086_0526	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129

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Neisseria sicca	VBINeiSic1915_0840	Adenosylmethionine-8-amino-7-oxononoate aminotransferase EC 2.6.1.62
Neisseria sicca	VBINeiSic1915_0291	Adenosylmethionine-8-amino-7-oxononoate aminotransferase EC 2.6.1.62
Neisseria sicca	VBINeiSic1915_2154	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Neisseria sicca	VBINeiSic1915_2149	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Neisseria sicca	VBINeiSic1915_0268	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Neisseria sicca	VBINeiSic1915_1011	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Neisseria sicca	VBINeiSic1915_2743	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Neisseria sicca	VBINeiSic1915_1058	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Neisseria sicca	VBINeiSic181086_1241	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Neisseria sicca	VBINeiSic1915_0550	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria sicca	VBINeiSic1915_1420	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria sicca	VBINeiSic181086_2522	Arabinose 5-phosphate isomerase EC 5.3.1.13
Neisseria sicca	VBINeiSic181086_1243	Arabinose 5-phosphate isomerase EC 5.3.1.13
Neisseria sicca	VBINeiSic1915_2733	Arabinose 5-phosphate isomerase EC 5.3.1.13
Neisseria sicca	VBINeiSic1915_2274	Aspartate 1-decarboxylase EC 4.1.1.11
Neisseria sicca	VBINeiSic1915_0712	ATP synthase alpha chain EC 3.6.3.14
Neisseria sicca	VBINeiSic181086_2563	ATP synthase alpha chain EC 3.6.3.14
Neisseria sicca	VBINeiSic181086_1055	ATP synthase alpha chain EC 3.6.3.14
Neisseria sicca	VBINeiSic181086_1088	ATP synthase beta chain EC 3.6.3.14
Neisseria sicca	VBINeiSic1915_0717	ATP synthase beta chain EC 3.6.3.14
Neisseria sicca	VBINeiSic1915_0021	ATP synthase beta chain EC 3.6.3.14
Neisseria sicca	VBINeiSic1915_1225	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria sicca	VBINeiSic1915_1818	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria sicca	VBINeiSic1915_0267	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria sicca	VBINeiSic1915_1805	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria sicca	VBINeiSic1915_1223	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria sicca	VBINeiSic1915_0255	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria sicca	VBINeiSic181086_1334	Biopolymer transport protein ExbD TolR
Neisseria sicca	VBINeiSic181086_0839	Capsular polysaccharide export system protein KpsC
Neisseria sicca	VBINeiSic181086_0798	Capsular polysaccharide export system protein KpsC
Neisseria sicca	VBINeiSic1915_2212	CDP-6-deoxy-delta-3 2C4-glucoseen reductase-like
Neisseria sicca	VBINeiSic1915_0639	ClpB protein
Neisseria sicca	VBINeiSic1915_0096	ClpB protein
Neisseria sicca	VBINeiSic181086_1853	Copper-sensing two-component system response regulator CpxR
Neisseria sicca	VBINeiSic181086_1154	Diaminopimelate decarboxylase EC 4.1.1.20
Neisseria sicca	VBINeiSic181086_0990	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Neisseria sicca	VBINeiSic181086_0993	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Neisseria sicca	VBINeiSic1915_2637	Enolase EC 4.2.1.11
Neisseria sicca	VBINeiSic1915_0914	Ferric anguibactin transport system permease protein fatD
Neisseria sicca	VBINeiSic1915_1090	Ferric anguibactin-binding protein
Neisseria sicca	VBINeiSic1915_1173	Ferrichrome transport ATP-binding protein FhuC TC 3.A.1.14.3
Neisseria sicca	VBINeiSic1915_1419	Ferrous iron transport protein B
Neisseria sicca	VBINeiSic1915_0560	FIG00698529 hypothetical protein
Neisseria sicca	VBINeiSic1915_0559	FIG00698529 hypothetical protein
Neisseria sicca	VBINeiSic1915_0551	FIG00698529 hypothetical protein
Neisseria sicca	VBINeiSic181086_1092	FIG00848649 hypothetical protein
Neisseria sicca	VBINeiSic181086_0235	Gamma-glutamyltranspeptidase EC 2.3.2.2
Neisseria sicca	VBINeiSic1915_1560	Gamma-glutamyltranspeptidase EC 2.3.2.2
Neisseria sicca	VBINeiSic1915_1616	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria sicca	VBINeiSic181086_0992	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria sicca	VBINeiSic1915_2492	Glutamine synthetase type I EC 6.3.1.2
Neisseria sicca	VBINeiSic1915_0134	Glutamine synthetase type I EC 6.3.1.2
Neisseria sicca	VBINeiSic181086_1448	Glutamine synthetase type I EC 6.3.1.2
Neisseria sicca	VBINeiSic181086_1573	Glutaryl-tRNA reductase EC 1.2.1.70
Neisseria sicca	VBINeiSic1915_2399	Glycerol-3-phosphate cytidyltransferase EC 2.7.7.39
Neisseria sicca	VBINeiSic1915_0996	Glycerol-3-phosphate cytidyltransferase EC 2.7.7.39
Neisseria sicca	VBINeiSic1915_2738	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria sicca	VBINeiSic1915_1586	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria sicca	VBINeiSic181086_2382	Heat shock protein 60 family chaperone GroEL
Neisseria sicca	VBINeiSic1915_0521	Heat shock protein 60 family chaperone GroEL
Neisseria sicca	VBINeiSic1915_1900	Heat shock protein 60 family chaperone GroEL
Neisseria sicca	VBINeiSic1915_1899	Heat shock protein 60 family chaperone GroEL
Neisseria sicca	VBINeiSic1915_2683	hypothetical protein
Neisseria sicca	VBINeiSic1915_2639	hypothetical protein
Neisseria sicca	VBINeiSic1915_2659	hypothetical protein
Neisseria sicca	VBINeiSic1915_2642	hypothetical protein
Neisseria sicca	VBINeiSic1915_0844	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Neisseria sicca	VBINeiSic1915_2009	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Neisseria sicca	VBINeiSic181086_0690	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Neisseria sicca	VBINeiSic1915_2011	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Neisseria sicca	VBINeiSic1915_0879	Iron compound ABC uptake transporter permease protein PiuC
Neisseria sicca	VBINeiSic181086_2427	Iron compound ABC uptake transporter substrate-binding protein PiuA
Neisseria sicca	VBINeiSic1915_1169	iron-regulated outer membrane protein FrpB
Neisseria sicca	VBINeiSic1915_2737	Leader peptidase Prepilin peptidase EC 3.4.23.43 N-methyltransferase EC 2.1.1.-
Neisseria sicca	VBINeiSic1915_1734	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Neisseria sicca	VBINeiSic181086_0648	Lipid-A-disaccharide synthase EC 2.4.1.182
Neisseria sicca	VBINeiSic1915_1255	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Neisseria sicca	VBINeiSic1915_2732	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Neisseria sicca	VBINeiSic1915_0451	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-

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Neisseria sicca	VBINeiSic1915_0755	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Neisseria sicca	VBINeiSic1915_2096	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Neisseria sicca	VBINeiSic181086_0332	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Neisseria sicca	VBINeiSic181086_1438	Lipopolysaccharide heptosyltransferase III EC 2.4.1.-
Neisseria sicca	VBINeiSic1915_1445	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Neisseria sicca	VBINeiSic1915_2745	Long-chain-fatty-acid-CoA ligase EC 6.2.1.3
Neisseria sicca	VBINeiSic1915_2813	Macrophage infectivity potentiator GldI
Neisseria sicca	VBINeiSic181086_0394	Membrane-associated zinc metalloprotease
Neisseria sicca	VBINeiSic1915_2765	Membrane-bound lytic murein transglycosylase B precursor EC 3.2.1.-
Neisseria sicca	VBINeiSic1915_0973	Methionine ABC transporter ATP-binding protein
Neisseria sicca	VBINeiSic181086_1779	Methionine ABC transporter ATP-binding protein
Neisseria sicca	VBINeiSic181086_0303	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria sicca	VBINeiSic1915_2087	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria sicca	VBINeiSic1915_1568	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Neisseria sicca	VBINeiSic1915_0455	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria sicca	VBINeiSic1915_1099	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria sicca	VBINeiSic181086_2526	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria sicca	VBINeiSic181086_0367	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria sicca	VBINeiSic1915_2335	NADPH-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.13
Neisseria sicca	VBINeiSic1915_1664	Nitrogen regulation protein NtrX
Neisseria sicca	VBINeiSic1915_2725	Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Neisseria sicca	VBINeiSic181086_2380	Nucleoside-diphosphate sugar epimerase dehydratase
Neisseria sicca	VBINeiSic1915_0878	O-antigen acetylase
Neisseria sicca	VBINeiSic1915_0812	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Neisseria sicca	VBINeiSic181086_2079	Ornithine carbamoyltransferase EC 2.1.3.3
Neisseria sicca	VBINeiSic1915_0407	Ornithine carbamoyltransferase EC 2.1.3.3
Neisseria sicca	VBINeiSic1915_2135	Outer membrane hemoglobin utilization protein HmbR
Neisseria sicca	VBINeiSic181086_2013	Outer membrane protein A precursor
Neisseria sicca	VBINeiSic181086_0454	Outer membrane protein assembly factor YaeT precursor
Neisseria sicca	VBINeiSic1915_1606	Outer membrane protein class 1
Neisseria sicca	VBINeiSic181086_1464	Outer membrane protein class 1
Neisseria sicca	VBINeiSic181086_1844	Outer membrane protein class 1
Neisseria sicca	VBINeiSic181086_1272	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria sicca	VBINeiSic1915_2744	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria sicca	VBINeiSic1915_2260	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria sicca	VBINeiSic1915_2628	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria sicca	VBINeiSic1915_1882	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria sicca	VBINeiSic1915_2224	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria sicca	VBINeiSic181086_1302	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria sicca	VBINeiSic1915_0293	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria sicca	VBINeiSic1915_0296	Outer membrane receptor for lactoferrin or transferrin 2C lipoprotein B
Neisseria sicca	VBINeiSic1915_0292	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria sicca	VBINeiSic1915_0586	Outer membrane receptor for lactoferrin or transferrin 2C TonB-dependent protein A
Neisseria sicca	VBINeiSic1915_1901	Outer membrane receptor proteins 2C mostly Fe transport
Neisseria sicca	VBINeiSic1915_1819	Pantoate-beta-alanine ligase EC 6.3.2.1
Neisseria sicca	VBINeiSic1915_0270	Phosphoglucomutase EC 5.4.2.2
Neisseria sicca	VBINeiSic181086_2561	Phosphoglucomutase EC 5.4.2.2
Neisseria sicca	VBINeiSic1915_1728	Phosphoglucosamine mutase EC 5.4.2.10
Neisseria sicca	VBINeiSic181086_2550	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Neisseria sicca	VBINeiSic1915_0587	Porphobilinogen deaminase EC 2.5.1.61
Neisseria sicca	VBINeiSic181086_1753	Porphobilinogen deaminase EC 2.5.1.61
Neisseria sicca	VBINeiSic181086_0675	Proposed peptidoglycan lipid II flippase MurJ
Neisseria sicca	VBINeiSic1915_0449	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria sicca	VBINeiSic1915_1558	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria sicca	VBINeiSic181086_2264	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Neisseria sicca	VBINeiSic1915_0721	Putative HlyD family secretion protein
Neisseria sicca	VBINeiSic1915_2699	Putative HlyD family secretion protein
Neisseria sicca	VBINeiSic181086_0342	Putative periplasmic substrate-binding transport protein
Neisseria sicca	VBINeiSic1915_2010	Putative periplasmic substrate-binding transport protein
Neisseria sicca	VBINeiSic1915_2859	Pyridoxamine 5'-phosphate oxidase EC 1.4.3.5
Neisseria sicca	VBINeiSic1915_1673	Radical SAM family protein HutW 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C associated wit
Neisseria sicca	VBINeiSic1915_1428	RNA polymerase sigma factor RpoD
Neisseria sicca	VBINeiSic181086_1483	RNA polymerase sigma factor RpoH
Neisseria sicca	VBINeiSic181086_1093	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Neisseria sicca	VBINeiSic1915_1898	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Neisseria sicca	VBINeiSic181086_1605	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Neisseria sicca	VBINeiSic1915_1619	sigma-54 dependent response regulator
Neisseria sicca	VBINeiSic1915_1626	sigma-54 dependent response regulator
Neisseria sicca	VBINeiSic1915_0219	Superoxide dismutase Fe EC 1.15.1.1
Neisseria sicca	VBINeiSic1915_0756	Surface protein A
Neisseria sicca	VBINeiSic1915_1329	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Neisseria sicca	VBINeiSic1915_2200	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Neisseria sicca	VBINeiSic1915_0208	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Neisseria sicca	VBINeiSic1915_0149	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Neisseria sicca	VBINeiSic1915_0052	TonB-dependent siderophore receptor
Neisseria sicca	VBINeiSic1915_2133	TonB-dependent siderophore receptor
Neisseria sicca	VBINeiSic1915_0326	Translation elongation factor Tu
Neisseria sicca	VBINeiSic1915_0331	Translation elongation factor Tu
Neisseria sicca	VBINeiSic181086_2471	Translation elongation factor Tu

Table S8

Neisseria sicca	VBINeiSic1915_0252	Translation elongation factor Tu
Neisseria sicca	VBINeiSic1915_1089	Twitching motility protein PilT
Neisseria sicca	VBINeiSic181086_0172	Twitching motility protein PilT
Neisseria sicca	VBINeiSic1915_1074	Twitching motility protein PilT
Neisseria sicca	VBINeiSic181086_0084	Twitching motility protein PilT
Neisseria sicca	VBINeiSic181086_1887	Two component system histidine kinase EC 2.7.3.-
Neisseria sicca	VBINeiSic1915_2734	Type IV fimbrial assembly protein PilC
Neisseria sicca	VBINeiSic1915_2636	Type IV pilus biogenesis protein PilE
Neisseria sicca	VBINeiSic1915_0383	Type IV pilus biogenesis protein PilE
Neisseria sicca	VBINeiSic1915_1460	Type IV pilus biogenesis protein PilE
Neisseria sicca	VBINeiSic1915_1288	Type IV pilus biogenesis protein PilF
Neisseria sicca	VBINeiSic181086_2368	Type IV pilus biogenesis protein PilO
Neisseria sicca	VBINeiSic181086_2334	Type IV pilus biogenesis protein PilP
Neisseria sicca	VBINeiSic181086_2286	Type IV pilus biogenesis protein PilQ
Neisseria sicca	VBINeiSic1915_1094	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Neisseria sicca	VBINeiSic181086_0271	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Neisseria sicca	VBINeiSic1915_1561	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Neisseria sicca	VBINeiSic1915_2061	UDP-3-O-3-hydroxymyristoyl N-acetylglucosamine deacetylase EC 3.5.1.-
Neisseria sicca	VBINeiSic1915_2044	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Neisseria sicca	VBINeiSic1915_1715	UDP-galactose-lipid carrier transferase EC 2.-.-.-
Neisseria sicca	VBINeiSic1915_0633	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Neisseria sicca	VBINeiSic1915_0301	Uncharacterized protein ImpC
Neisseria sicca	VBINeiSic1915_0323	Uncharacterized protein ImpD
Neisseria sicca	VBINeiSic181086_0369	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Neisseria sicca	VBINeiSic1915_1748	Zinc ABC transporter 2C ATP-binding protein ZnuC
Neisseria sicca	VBINeiSic1915_2366	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Neisseria sp. oral taxon 014	VBINeiSp28275_1062	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Neisseria sp. oral taxon 014	VBINeiSp28275_2073	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
Neisseria sp. oral taxon 014	VBINeiSp28275_2354	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Neisseria sp. oral taxon 014	VBINeiSp28275_1065	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Neisseria sp. oral taxon 014	VBINeiSp28275_2222	adherence and invasion outer membrane protein binds collagen 2Cfibronectin and laminins 2Cprovides protection against
Neisseria sp. oral taxon 014	VBINeiSp28275_0172	ADP-heptose--lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Neisseria sp. oral taxon 014	VBINeiSp28275_0437	Alkaline phosphatase EC 3.1.3.1
Neisseria sp. oral taxon 014	VBINeiSp28275_0553	Alkaline phosphatase EC 3.1.3.1
Neisseria sp. oral taxon 014	VBINeiSp28275_0432	Alkaline phosphatase EC 3.1.3.1
Neisseria sp. oral taxon 014	VBINeiSp28275_1365	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria sp. oral taxon 014	VBINeiSp28275_1710	Biopolymer transport protein ExbD TolR
Neisseria sp. oral taxon 014	VBINeiSp28275_0951	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Neisseria sp. oral taxon 014	VBINeiSp28275_2063	ClpB protein
Neisseria sp. oral taxon 014	VBINeiSp28275_0323	COG1272 Predicted membrane protein hemolysin III homolog
Neisseria sp. oral taxon 014	VBINeiSp28275_0185	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Neisseria sp. oral taxon 014	VBINeiSp28275_0183	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Neisseria sp. oral taxon 014	VBINeiSp28275_2378	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Neisseria sp. oral taxon 014	VBINeiSp28275_2504	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Neisseria sp. oral taxon 014	VBINeiSp28275_0592	Ferric anguibactin transport system permease protein fatD
Neisseria sp. oral taxon 014	VBINeiSp28275_2365	Ferrichrome transport ATP-binding protein FhuC TC 3.A.1.14.3
Neisseria sp. oral taxon 014	VBINeiSp28275_2060	Ferrichrome-iron receptor
Neisseria sp. oral taxon 014	VBINeiSp28275_2594	FIG00497364 hypothetical protein
Neisseria sp. oral taxon 014	VBINeiSp28275_2509	FIG00497364 hypothetical protein
Neisseria sp. oral taxon 014	VBINeiSp28275_2508	FIG00497364 hypothetical protein
Neisseria sp. oral taxon 014	VBINeiSp28275_2506	FIG00497364 hypothetical protein
Neisseria sp. oral taxon 014	VBINeiSp28275_1352	FIG00848649 hypothetical protein
Neisseria sp. oral taxon 014	VBINeiSp28275_0068	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Neisseria sp. oral taxon 014	VBINeiSp28275_1424	fimbrial biogenesis and twitching motility protein 2C probable NMB1309
Neisseria sp. oral taxon 014	VBINeiSp28275_2462	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Neisseria sp. oral taxon 014	VBINeiSp28275_0233	Glucose-6-phosphate isomerase EC 5.3.1.9
Neisseria sp. oral taxon 014	VBINeiSp28275_2342	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolyta
Neisseria sp. oral taxon 014	VBINeiSp28275_0673	Iron compound ABC uptake transporter permease protein PiuC
Neisseria sp. oral taxon 014	VBINeiSp28275_0174	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Neisseria sp. oral taxon 014	VBINeiSp28275_0175	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Neisseria sp. oral taxon 014	VBINeiSp28275_1804	Low molecular weight protein-tyrosine-phosphatase Wzb EC 3.1.3.48
Neisseria sp. oral taxon 014	VBINeiSp28275_2034	Macrophage infectivity potentiator GldI
Neisseria sp. oral taxon 014	VBINeiSp28275_0145	Magnesium and cobalt efflux protein CorC
Neisseria sp. oral taxon 014	VBINeiSp28275_2064	Methionine ABC transporter ATP-binding protein
Neisseria sp. oral taxon 014	VBINeiSp28275_1559	MotA TolQ ExbB proton channel family protein
Neisseria sp. oral taxon 014	VBINeiSp28275_1182	Nitrous oxide reductase maturation protein NosF ATPase
Neisseria sp. oral taxon 014	VBINeiSp28275_1058	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Neisseria sp. oral taxon 014	VBINeiSp28275_2353	Ornithine carbamoyltransferase EC 2.1.3.3
Neisseria sp. oral taxon 014	VBINeiSp28275_1486	Outer membrane protein class 1
Neisseria sp. oral taxon 014	VBINeiSp28275_2220	Oxidoreductase EC 1.1.1.-
Neisseria sp. oral taxon 014	VBINeiSp28275_2198	Phosphoglucomutase EC 5.4.2.2
Neisseria sp. oral taxon 014	VBINeiSp28275_2224	Phosphoheptose isomerase EC 5.3.1.-
Neisseria sp. oral taxon 014	VBINeiSp28275_2377	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Neisseria sp. oral taxon 014	VBINeiSp28275_0119	Porphobilinogen deaminase EC 2.5.1.61
Neisseria sp. oral taxon 014	VBINeiSp28275_0786	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Neisseria sp. oral taxon 014	VBINeiSp28275_0706	Protein ImpG Vasa
Neisseria sp. oral taxon 014	VBINeiSp28275_0860	RNA polymerase sigma factor RpoE
Neisseria sp. oral taxon 014	VBINeiSp28275_2062	Sel1 domain protein repeat-containing protein
Neisseria sp. oral taxon 014	VBINeiSp28275_2061	Sel1 domain protein repeat-containing protein

Table S8

Neisseria sp. oral taxon 014	VBINeiSp28275_1040	sigma-54 dependent response regulator
Neisseria sp. oral taxon 014	VBINeiSp28275_1003	sigma-54 dependent response regulator
Neisseria sp. oral taxon 014	VBINeiSp28275_1391	Sulfate and thiosulfate import ATP-binding protein CysA EC 3.6.3.25
Neisseria sp. oral taxon 014	VBINeiSp28275_2186	Superoxide dismutase Fe EC 1.15.1.1
Neisseria sp. oral taxon 014	VBINeiSp28275_2315	TETRATRICOPEPTIDE REPEAT FAMILY PROTEIN
Neisseria sp. oral taxon 014	VBINeiSp28275_2221	Transcriptional regulatory protein RtcR
Neisseria sp. oral taxon 014	VBINeiSp28275_2251	Translation elongation factor Tu
Neisseria sp. oral taxon 014	VBINeiSp28275_1153	Twitching motility protein PilT
Neisseria sp. oral taxon 014	VBINeiSp28275_2018	Twitching motility protein PilT
Neisseria sp. oral taxon 014	VBINeiSp28275_2032	Twitching motility protein PilT
Neisseria sp. oral taxon 014	VBINeiSp28275_1876	Type IV pilus biogenesis protein PilM
Neisseria sp. oral taxon 014	VBINeiSp28275_1879	Type IV pilus biogenesis protein PilN
Neisseria sp. oral taxon 014	VBINeiSp28275_1900	Type IV pilus biogenesis protein PilO
Neisseria sp. oral taxon 014	VBINeiSp28275_1908	Type IV pilus biogenesis protein PilP
Neisseria sp. oral taxon 014	VBINeiSp28275_1927	Type IV pilus biogenesis protein PilQ
Neisseria sp. oral taxon 014	VBINeiSp28275_1768	Tyrosine-protein kinase Wzc EC 2.7.10.2
Neisseria sp. oral taxon 014	VBINeiSp28275_1138	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Neisseria sp. oral taxon 014	VBINeiSp28275_1855	UDP-glucose dehydrogenase EC 1.1.1.22
Neisseria sp. oral taxon 014	VBINeiSp28275_2309	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Neisseria sp. oral taxon 014	VBINeiSp28275_2141	Uncharacterized protein ImpC
Neisseria sp. oral taxon 014	VBINeiSp28275_0752	Uncharacterized protein ImpH VasB
Neisseria sp. oral taxon 014	VBINeiSp28275_2087	Uncharacterized protein ImpJ VasE
Neisseria sp. oral taxon 014	VBINeiSp28275_1142	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Neisseria sp. oral taxon 014	VBINeiSp28275_2208	UTP-glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Neisseria sp. oral taxon 014	VBINeiSp28275_1044	VgrG protein
Neisseria subflava	VBINeiSub99872_1789	1-acyl-sn-glycerol-3-phosphate acyltransferase EC 2.3.1.51
Neisseria subflava	VBINeiSub99872_1005	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Neisseria subflava	VBINeiSub99872_0920	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Neisseria subflava	VBINeiSub99872_0036	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Neisseria subflava	VBINeiSub99872_2150	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Neisseria subflava	VBINeiSub99872_1081	ABC transporter 2C transmembrane regionABC transporterPeptidase C39 2C bacteriocin processing
Neisseria subflava	VBINeiSub99872_1794	ABC-transport system ATP-binding protein
Neisseria subflava	VBINeiSub99872_0999	Acetylornithine aminotransferase EC 2.6.1.11
Neisseria subflava	VBINeiSub99872_0908	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Neisseria subflava	VBINeiSub99872_0664	ADP-heptose-lipooligosaccharide heptosyltransferase II EC 2.4.1.-
Neisseria subflava	VBINeiSub99872_1952	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Neisseria subflava	VBINeiSub99872_0861	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Neisseria subflava	VBINeiSub99872_0328	Anthranilate synthase 2C aminase component EC 4.1.3.27
Neisseria subflava	VBINeiSub99872_0772	Aspartate racemase EC 5.1.1.13
Neisseria subflava	VBINeiSub99872_1831	ATP synthase beta chain EC 3.6.3.14
Neisseria subflava	VBINeiSub99872_0844	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria subflava	VBINeiSub99872_0830	ATP-dependent Clp protease ATP-binding subunit ClpA
Neisseria subflava	VBINeiSub99872_1990	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Neisseria subflava	VBINeiSub99872_0855	ClpB protein
Neisseria subflava	VBINeiSub99872_0294	Coproporphyrinogen III oxidase 2C oxygen-independent EC 1.3.99.22
Neisseria subflava	VBINeiSub99872_0324	Enolase EC 4.2.1.11
Neisseria subflava	VBINeiSub99872_0106	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Neisseria subflava	VBINeiSub99872_1134	Ferrous iron transport protein B
Neisseria subflava	VBINeiSub99872_0213	FIG00847125 hypothetical protein
Neisseria subflava	VBINeiSub99872_1336	FIG00848649 hypothetical protein
Neisseria subflava	VBINeiSub99872_0699	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Neisseria subflava	VBINeiSub99872_0794	fimbrial biogenesis and twitching motility protein 2C probable NMB1309
Neisseria subflava	VBINeiSub99872_0035	Glutamate transport ATP-binding protein
Neisseria subflava	VBINeiSub99872_1797	Glutamine synthetase type I EC 6.3.1.2
Neisseria subflava	VBINeiSub99872_1369	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Neisseria subflava	VBINeiSub99872_0233	IcmF-related protein
Neisseria subflava	VBINeiSub99872_0376	IcmF-related protein
Neisseria subflava	VBINeiSub99872_0068	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Neisseria subflava	VBINeiSub99872_1992	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Neisseria subflava	VBINeiSub99872_1743	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Neisseria subflava	VBINeiSub99872_0323	Lipid-A-disaccharide synthase EC 2.4.1.182
Neisseria subflava	VBINeiSub99872_1985	Lipopolysaccharide heptosyltransferase I EC 2.4.1.-
Neisseria subflava	VBINeiSub99872_0291	Lipopolysaccharide heptosyltransferase III EC 2.4.1.-
Neisseria subflava	VBINeiSub99872_0567	Methionine ABC transporter ATP-binding protein
Neisseria subflava	VBINeiSub99872_1824	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Neisseria subflava	VBINeiSub99872_0407	Ornithine carbamoyltransferase EC 2.1.3.3
Neisseria subflava	VBINeiSub99872_0668	Outer membrane hemoglobin utilization protein HmbR
Neisseria subflava	VBINeiSub99872_0223	Outer membrane protein ImpK VasF 2C OmpA MotB domain
Neisseria subflava	VBINeiSub99872_0902	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid
Neisseria subflava	VBINeiSub99872_0903	Outer membrane receptor proteins 2C mostly Fe transport
Neisseria subflava	VBINeiSub99872_2145	Oxidoreductase EC 1.1.1.-
Neisseria subflava	VBINeiSub99872_2035	Porphobilinogen deaminase EC 2.5.1.61
Neisseria subflava	VBINeiSub99872_0215	Protein ImpG VasA
Neisseria subflava	VBINeiSub99872_0893	Putrescine transport ATP-binding protein PotG TC 3.A.1.11.2
Neisseria subflava	VBINeiSub99872_0620	RNA polymerase sigma factor RpoD
Neisseria subflava	VBINeiSub99872_0882	RNA polymerase sigma factor RpoE
Neisseria subflava	VBINeiSub99872_1543	RNA polymerase sigma factor RpoH
Neisseria subflava	VBINeiSub99872_0082	RNA polymerase sigma factor RpoH
Neisseria subflava	VBINeiSub99872_2031	Serine protease precursor MucD AlgY associated with sigma factor RpoE

Neisseria subflava	VBINeiSub99872_0326	Sulfate and thiosulfate import ATP-binding protein CysA EC 3.6.3.25
Neisseria subflava	VBINeiSub99872_0968	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Neisseria subflava	VBINeiSub99872_0312	Translation elongation factor Tu
Neisseria subflava	VBINeiSub99872_2112	Type IV pilus biogenesis protein PilM
Neisseria subflava	VBINeiSub99872_2126	Type IV pilus biogenesis protein PilN
Neisseria subflava	VBINeiSub99872_2134	Type IV pilus biogenesis protein PilO
Neisseria subflava	VBINeiSub99872_2141	Type IV pilus biogenesis protein PilP
Neisseria subflava	VBINeiSub99872_2144	Type IV pilus biogenesis protein PilQ
Neisseria subflava	VBINeiSub99872_2024	Type IV secretion system protein VirD4
Neisseria subflava	VBINeiSub99872_0329	Uncharacterized protein ImpA
Neisseria subflava	VBINeiSub99872_0139	Uncharacterized protein ImpB
Neisseria subflava	VBINeiSub99872_0144	Uncharacterized protein ImpC
Neisseria subflava	VBINeiSub99872_0346	Uncharacterized protein ImpC
Neisseria subflava	VBINeiSub99872_0358	Uncharacterized protein ImpD
Neisseria subflava	VBINeiSub99872_0404	Uncharacterized protein ImpJ VasE
Neisseria subflava	VBINeiSub99872_0262	VgrG protein
Neisseria subflava	VBINeiSub99872_2230	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Neisseria weaveri	VBINeiWea214817_0236	3-oxoacyl-ACP synthase EC 2.3.1.41 FabV like
Neisseria weaveri	VBINeiWea214817_1931	Capsular polysaccharide biosynthesis export periplasmic protein WcbC
Neisseria weaveri	VBINeiWea214817_2027	Capsular polysaccharide export system inner membrane protein KpsE
Neisseria weaveri	VBINeiWea214817_1486	Heat shock protein 60 family chaperone GroEL
Neisseria weaveri	VBINeiWea214817_1618	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Neisseria weaveri	VBINeiWea214817_1546	Iron compound ABC uptake transporter substrate-binding protein PiuA
Neisseria weaveri	VBINeiWea214817_0650	Leader peptidase Prepilin peptidase EC 3.4.23.43 N-methyltransferase EC 2.1.1.-
Neisseria weaveri	VBINeiWea214817_1820	MotA TolQ ExbB proton channel family protein
Neisseria weaveri	VBINeiWea214817_1545	Outer membrane protein class 1
Neisseria weaveri	VBINeiWea214817_0349	Outer membrane receptor proteins 2C mostly Fe transport
Neisseria weaveri	VBINeiWea214817_0394	Respiratory nitrate reductase beta chain EC 1.7.99.4
Neisseria weaveri	VBINeiWea214817_1225	Type IV fimbrial assembly 2C ATPase PilB
Neisseria weaveri	VBINeiWea214817_0796	Type IV fimbrial assembly protein PilC
Ochrobactrum anthropi	VBIOchAnt73124_0296	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Ochrobactrum anthropi	VBIOchAnt73124_3635	Type IV fimbrial biogenesis protein PilY1
Ochrobactrum anthropi	VBIOchAnt73124_2818	Type IV fimbrial biogenesis protein PilY1
Olsenella sp. oral taxon 809	VBIOIsSp138764_0105	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Olsenella sp. oral taxon 809	VBIOIsSp138764_0146	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Olsenella sp. oral taxon 809	VBIOIsSp138764_1213	Biopolymer transport protein ExbD TolR
Olsenella sp. oral taxon 809	VBIOIsSp138764_1585	Glucose-6-phosphate isomerase EC 5.3.1.9
Olsenella sp. oral taxon 809	VBIOIsSp138764_1705	hypothetical protein
Olsenella sp. oral taxon 809	VBIOIsSp138764_1743	hypothetical protein
Olsenella sp. oral taxon 809	VBIOIsSp138764_0780	Membrane-associated zinc metalloprotease
Olsenella sp. oral taxon 809	VBIOIsSp138764_1419	MotA TolQ ExbB proton channel family protein
Olsenella sp. oral taxon 809	VBIOIsSp138764_0538	Outer membrane protein assembly factor YaeT precursor
Olsenella sp. oral taxon 809	VBIOIsSp138764_1105	Translation elongation factor Tu
Olsenella sp. oral taxon 809	VBIOIsSp138764_1614	Type IV fimbrial biogenesis protein PilY1
Olsenella uli	VBIOIsUli28891_1272	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Olsenella uli	VBIOIsUli28891_0147	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Olsenella uli	VBIOIsUli28891_1140	ATP synthase alpha chain EC 3.6.3.14
Olsenella uli	VBIOIsUli28891_0660	ATP synthase beta chain EC 3.6.3.14
Olsenella uli	VBIOIsUli28891_0356	Diaminopimelate decarboxylase EC 4.1.1.20
Olsenella uli	VBIOIsUli28891_1371	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Olsenella uli	VBIOIsUli28891_0082	hypothetical protein
Olsenella uli	VBIOIsUli28891_1780	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Olsenella uli	VBIOIsUli28891_1165	Polyphosphate kinase 2 EC 2.7.4.1
Olsenella uli	VBIOIsUli28891_1357	Uncharacterized ABC transporter 2C ATP-binding protein YrbF
Oribacterium sinus	VBIOriSin4127_1841	Lipid-A-disaccharide synthase EC 2.4.1.182
Oribacterium sp. oral taxon 108	VBIOriSp172601_1333	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Oribacterium sp. oral taxon 108	VBIOriSp172601_1729	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Paenibacillus sp. oral taxon 786	VBIPaeSp50414_2761	ABC transporter 2C ATP-binding protein
Paenibacillus sp. oral taxon 786	VBIPaeSp50414_0410	Membrane-associated zinc metalloprotease
Paenibacillus sp. oral taxon 786	VBIPaeSp50414_2689	NADH-ubiquinone oxidoreductase chain G EC 1.6.5.3
Paenibacillus sp. oral taxon 786	VBIPaeSp50414_0162	Outer membrane protein assembly factor YaeT precursor
Parascardovia denticolens	VBIParDen168656_0171	Copper-sensing two-component system response regulator CpxR
Parascardovia denticolens	VBIParDen168656_0904	Ferrous iron transport protein B
Parascardovia denticolens	VBIParDen120515_0719	FIG00848403 hypothetical protein
Parascardovia denticolens	VBIParDen168656_1345	fimbrial biogenesis and twitching motility protein 2C probable NMB1309
Parascardovia denticolens	VBIParDen120515_0598	Glucose-6-phosphate isomerase EC 5.3.1.9
Parascardovia denticolens	VBIParDen168656_1560	Glutamate transport ATP-binding protein
Parascardovia denticolens	VBIParDen120515_1380	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Parascardovia denticolens	VBIParDen168656_0631	Glutamyl-tRNA reductase EC 1.2.1.70
Parascardovia denticolens	VBIParDen168656_0198	Imidazole glycerol phosphate synthase amidotransferase subunit EC 2.4.2.-
Parascardovia denticolens	VBIParDen120515_0696	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Parascardovia denticolens	VBIParDen168656_0729	Macrolide export ATP-binding permease protein MacB EC 3.6.3.-
Parascardovia denticolens	VBIParDen120515_0665	Macrophage infectivity potentiator GldI
Parascardovia denticolens	VBIParDen168656_0440	Methionine ABC transporter ATP-binding protein
Parascardovia denticolens	VBIParDen120515_0092	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Parascardovia denticolens	VBIParDen120515_1176	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Parascardovia denticolens	VBIParDen168656_0145	Outer membrane protein A precursor
Parascardovia denticolens	VBIParDen168656_0254	Outer membrane protein class 1
Parascardovia denticolens	VBIParDen168656_1121	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6

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Parascardovia denticolens	VBIParDen168656_1547	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Parascardovia denticolens	VBIParDen168656_0137	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Parascardovia denticolens	VBIParDen120515_0045	Putative periplasmic substrate-binding transport protein
Parascardovia denticolens	VBIParDen168656_0539	Serine protease precursor MucD AlgY associated with sigma factor RpoE
Parascardovia denticolens	VBIParDen168656_1465	Superoxide dismutase Fe EC 1.15.1.1
Parascardovia denticolens	VBIParDen120515_1410	Type IV pilus biogenesis protein PilE
Parvimonas sp. oral taxon 110	VBIParSp162507_1066	Acetylmethionine aminotransferase EC 2.6.1.11
Parvimonas sp. oral taxon 110	VBIParSp162507_0760	Nitrogen regulation protein NtrX
Parvimonas sp. oral taxon 393	VBIParSp177393_0391	Amino acid ABC transporter 2C ATP-binding protein
Parvimonas sp. oral taxon 393	VBIParSp177393_1568	ATP-dependent Clp protease ATP-binding subunit ClpA
Parvimonas sp. oral taxon 393	VBIParSp177393_0415	Cell division trigger factor EC 5.2.1.8
Parvimonas sp. oral taxon 393	VBIParSp177393_0743	ClpB protein
Parvimonas sp. oral taxon 393	VBIParSp177393_1559	Enolase EC 4.2.1.11
Parvimonas sp. oral taxon 393	VBIParSp177393_0936	Phosphoglucosamine mutase EC 5.4.2.10
Parvimonas sp. oral taxon 393	VBIParSp177393_0257	Radical SAM family protein HutW 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C associated with
Parvimonas sp. oral taxon 393	VBIParSp177393_0921	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Peptoniphilus indolicus	VBIPepInd184400_0579	ATP-dependent Clp protease ATP-binding subunit ClpA
Peptoniphilus lacrimalis	VBIPepLac107565_0430	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Peptoniphilus sp. oral taxon 375	VBIPepSp173817_0218	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Peptoniphilus sp. oral taxon 375	VBIPepSp173817_0335	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Peptoniphilus sp. oral taxon 375	VBIPepSp173817_0228	Dipeptide transport ATP-binding protein DppD TC 3.A.1.5.2
Peptoniphilus sp. oral taxon 386	VBIPepSp24046_0784	Glycerol-3-phosphate cytidyltransferase EC 2.7.7.39
Peptoniphilus sp. oral taxon 386	VBIPepSp24046_0584	Type IV pilus biogenesis protein PilM
Peptoniphilus sp. oral taxon 386	VBIPepSp24046_0397	Type IV pilus biogenesis protein PilQ
Peptostreptococcus stomatis	VBIPepSto8168_1734	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Peptostreptococcus stomatis	VBIPepSto8168_0366	Ferric anguibactin transport system permease protein fatD
Peptostreptococcus stomatis	VBIPepSto8168_0528	Heat shock protein 60 family chaperone GroEL
Peptostreptococcus stomatis	VBIPepSto8168_0212	Iron (III) dicitrate transport ATP-binding protein FecE TC 3.A.1.14.1
Peptostreptococcus stomatis	VBIPepSto8168_0330	Iron compound ABC uptake transporter permease protein PiuC
Peptostreptococcus stomatis	VBIPepSto8168_0211	Lipid A biosynthesis lauroyl acyltransferase EC 2.3.1.-
Peptostreptococcus stomatis	VBIPepSto8168_1456	Outer membrane hemoglobin-haptoglobin utilization protein HpuB
Peptostreptococcus stomatis	VBIPepSto8168_0748	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Peptostreptococcus stomatis	VBIPepSto8168_0560	Translation elongation factor Tu
Peptostreptococcus stomatis	VBIPepSto8168_1729	Translation elongation factor Tu
Peptostreptococcus stomatis	VBIPepSto8168_0698	Type IV pilus biogenesis protein PilE
Peptostreptococcus stomatis	VBIPepSto8168_1733	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Porphyromonas asaccharolytica	VBIPorAsa172508_1021	ABC transporter 2C ATP-binding permease protein
Porphyromonas asaccharolytica	VBIPorAsa169717_0330	ABC transporter 2C transmembrane regionABC transporterPeptidase C39 2C bacteriocin processing
Porphyromonas asaccharolytica	VBIPorAsa169717_1171	ABC TRANSPORTER ATP-BINDING PROTEIN
Porphyromonas asaccharolytica	VBIPorAsa172508_0501	ATPase component STY3232 of energizing module of queuosine-regulated ECF transporter
Porphyromonas asaccharolytica	VBIPorAsa172508_1004	Branched-chain amino acid transport ATP-binding protein LivG TC 3.A.1.4.1
Porphyromonas asaccharolytica	VBIPorAsa169717_0987	Capsular polysaccharide ABC transporter 2C ATP-binding protein KpsT
Porphyromonas asaccharolytica	VBIPorAsa172508_1174	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Porphyromonas asaccharolytica	VBIPorAsa172508_1053	ClpB protein
Porphyromonas asaccharolytica	VBIPorAsa169717_0975	Enolase EC 4.2.1.11
Porphyromonas asaccharolytica	VBIPorAsa172508_1233	Enolase EC 4.2.1.11
Porphyromonas asaccharolytica	VBIPorAsa169717_1322	Ferric hydroxamate ABC transporter TC 3.A.1.14.3 2C ATP-binding protein FhuC
Porphyromonas asaccharolytica	VBIPorAsa169717_1456	Ferrous iron transport protein B
Porphyromonas asaccharolytica	VBIPorAsa169717_1397	Ferrous iron transport protein B
Porphyromonas asaccharolytica	VBIPorAsa172508_0719	FIG00534420 hypothetical protein
Porphyromonas asaccharolytica	VBIPorAsa169717_1604	FIG00555279 hypothetical protein
Porphyromonas asaccharolytica	VBIPorAsa169717_1464	Glucose-6-phosphate isomerase EC 5.3.1.9
Porphyromonas asaccharolytica	VBIPorAsa172508_0280	Glycosyl transferase 2C family 2
Porphyromonas asaccharolytica	VBIPorAsa169717_0039	Heat shock protein 60 family chaperone GroEL
Porphyromonas asaccharolytica	VBIPorAsa169717_0774	Outer membrane receptor proteins 2C mostly Fe transport
Porphyromonas asaccharolytica	VBIPorAsa169717_0414	Putative HlyD family secretion protein
Porphyromonas asaccharolytica	VBIPorAsa172508_1631	RNA polymerase sigma factor SigB
Porphyromonas asaccharolytica	VBIPorAsa169717_1256	Sensor histidine kinase
Porphyromonas asaccharolytica	VBIPorAsa172508_0172	Sortase A 2C LPXTG specific
Porphyromonas endodontalis	VBIPorEnd1195_1373	ABC transporter 2C ATP-binding permease protein
Porphyromonas endodontalis	VBIPorEnd1195_1060	ABC transporter 2C ATP-binding permease protein
Porphyromonas endodontalis	VBIPorEnd1195_1469	ABC transporter 2C ATP-binding protein
Porphyromonas endodontalis	VBIPorEnd1195_1411	ABC-type multidrug transport system 2C ATPase component
Porphyromonas endodontalis	VBIPorEnd1195_1120	ABC-type multidrug transport system 2C ATPase component
Porphyromonas endodontalis	VBIPorEnd1195_1456	ATP synthase alpha chain EC 3.6.3.14
Porphyromonas endodontalis	VBIPorEnd1195_1153	ATP synthase alpha chain EC 3.6.3.14
Porphyromonas endodontalis	VBIPorEnd1195_1361	ATP-dependent Clp protease ATP-binding subunit ClpA
Porphyromonas endodontalis	VBIPorEnd1195_0739	cation-transporting ATPase PaL
Porphyromonas endodontalis	VBIPorEnd1195_0720	cation-transporting ATPase PaL
Porphyromonas endodontalis	VBIPorEnd1195_0632	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Porphyromonas endodontalis	VBIPorEnd1195_0782	ClpB protein
Porphyromonas endodontalis	VBIPorEnd1195_1550	ClpB protein
Porphyromonas endodontalis	VBIPorEnd1195_0118	COG1272 Predicted membrane protein hemolysin III homolog
Porphyromonas endodontalis	VBIPorEnd1195_0645	Fe-bacillibactin uptake system FeuC
Porphyromonas endodontalis	VBIPorEnd1195_0262	Ferrous iron transport protein B
Porphyromonas endodontalis	VBIPorEnd1195_0274	Ferrous iron transport protein B
Porphyromonas endodontalis	VBIPorEnd1195_1410	FIG00745466 hypothetical protein
Porphyromonas endodontalis	VBIPorEnd1195_0712	Flagellin protein FlaA
Porphyromonas endodontalis	VBIPorEnd1195_0375	Heat shock protein 60 family chaperone GroEL

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Porphyromonas endodontalis	VBIPorEnd1195_0236	HtrA protease chaperone protein
Porphyromonas endodontalis	VBIPorEnd1195_1733	Lipid A export ATP-binding permease protein MsbA
Porphyromonas endodontalis	VBIPorEnd1195_0541	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas endodontalis	VBIPorEnd1195_0222	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Porphyromonas endodontalis	VBIPorEnd1195_0333	Osmosensitive K ⁺ channel histidine kinase KdpD EC 2.7.3.-
Porphyromonas endodontalis	VBIPorEnd1195_1314	probable permease protein of ABC transporter system
Porphyromonas endodontalis	VBIPorEnd1195_1329	putative ABC transporter ATP-binding protein
Porphyromonas endodontalis	VBIPorEnd1195_1727	Response regulator receiverTranscriptional regulatory protein 2C C-terminal
Porphyromonas endodontalis	VBIPorEnd1195_0858	Serine threonine-protein kinase PknA EC 2.7.11.1
Porphyromonas endodontalis	VBIPorEnd1195_0349	Translation elongation factor Tu
Porphyromonas endodontalis	VBIPorEnd1195_1542	UDP-glucose 4-epimerase EC 5.1.3.2
Porphyromonas endodontalis	VBIPorEnd1195_0718	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas gingivalis	VBIPorGin26334_1678	2 2C3 2C4 2C5-tetrahydropyridine-2 2C6-dicarboxylate N-acetyltransferase EC 2.3.1.89
Porphyromonas gingivalis	VBIPorGin239392_0427	2 2C3 2C4 2C5-tetrahydropyridine-2 2C6-dicarboxylate N-acetyltransferase EC 2.3.1.89
Porphyromonas gingivalis	VBIPorGin239392_1357	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Porphyromonas gingivalis	VBIPorGin26334_1494	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Porphyromonas gingivalis	VBIPorGin239392_1440	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Porphyromonas gingivalis	VBIPorGin239392_0254	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Porphyromonas gingivalis	VBIPorGin26334_1474	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Porphyromonas gingivalis	VBIPorGin195531_1782	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Porphyromonas gingivalis	VBIPorGin239392_1955	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Porphyromonas gingivalis	VBIPorGin239392_1965	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Porphyromonas gingivalis	VBIPorGin239392_0183	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Porphyromonas gingivalis	VBIPorGin134034_1182	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Porphyromonas gingivalis	VBIPorGin26334_1887	8-amino-7-oxononanoate synthase EC 2.3.1.47
Porphyromonas gingivalis	VBIPorGin26334_0993	8-amino-7-oxononanoate synthase EC 2.3.1.47
Porphyromonas gingivalis	VBIPorGin239392_1944	8-amino-7-oxononanoate synthase EC 2.3.1.47
Porphyromonas gingivalis	VBIPorGin239392_0191	8-amino-7-oxononanoate synthase EC 2.3.1.47
Porphyromonas gingivalis	VBIPorGin195531_1771	8-amino-7-oxononanoate synthase EC 2.3.1.47
Porphyromonas gingivalis	VBIPorGin134034_0687	ABC transporter 2C ATP-binding protein
Porphyromonas gingivalis	VBIPorGin26334_1434	ABC transporter 2C ATP-binding protein
Porphyromonas gingivalis	VBIPorGin239392_1690	ABC transporter 2C ATP-binding protein
Porphyromonas gingivalis	VBIPorGin26334_0670	ABC transporter 2C ATP-binding protein
Porphyromonas gingivalis	VBIPorGin239392_0156	ABC transporter 2C ATP-binding protein 2C MsbA family
Porphyromonas gingivalis	VBIPorGin26334_1485	ABC transporter 2C ATP-binding protein 2C MsbA family
Porphyromonas gingivalis	VBIPorGin239392_1848	ABC transporter 2C ATP-binding protein 2C putative
Porphyromonas gingivalis	VBIPorGin195531_1733	ABC transporter 2C ATP-binding protein 2C putative
Porphyromonas gingivalis	VBIPorGin26334_0697	ABC transporter 2C ATP-binding protein 2C putative
Porphyromonas gingivalis	VBIPorGin195531_0627	ABC transporter 2C ATP-binding protein 2C putative
Porphyromonas gingivalis	VBIPorGin26334_0698	ABC transporter ATP-binding protein
Porphyromonas gingivalis	VBIPorGin134034_0616	ABC transporter ATP-binding protein
Porphyromonas gingivalis	VBIPorGin195531_0043	ABC transporter ATP-binding protein
Porphyromonas gingivalis	VBIPorGin195531_1749	ABC transporter ATP-binding protein
Porphyromonas gingivalis	VBIPorGin239392_1936	ABC transporter ATP-binding protein
Porphyromonas gingivalis	VBIPorGin239392_0121	ABC transporter ATP-binding protein YvcR
Porphyromonas gingivalis	VBIPorGin195531_0711	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Porphyromonas gingivalis	VBIPorGin239392_0939	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Porphyromonas gingivalis	VBIPorGin26334_1202	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Porphyromonas gingivalis	VBIPorGin134034_0632	Alcohol dehydrogenase EC 1.1.1.1
Porphyromonas gingivalis	VBIPorGin134034_0649	Alcohol dehydrogenase EC 1.1.1.1
Porphyromonas gingivalis	VBIPorGin195531_1325	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Porphyromonas gingivalis	VBIPorGin134034_0398	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Porphyromonas gingivalis	VBIPorGin134034_1099	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Porphyromonas gingivalis	VBIPorGin26334_1563	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Porphyromonas gingivalis	VBIPorGin134034_1667	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Porphyromonas gingivalis	VBIPorGin26334_0230	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Porphyromonas gingivalis	VBIPorGin195531_0728	Arabinose 5-phosphate isomerase EC 5.3.1.13
Porphyromonas gingivalis	VBIPorGin239392_0960	Arabinose 5-phosphate isomerase EC 5.3.1.13
Porphyromonas gingivalis	VBIPorGin195531_0002	Aspartate 1-decarboxylase EC 4.1.1.11
Porphyromonas gingivalis	VBIPorGin134034_1680	ATP-dependent Clp protease ATP-binding subunit ClpA
Porphyromonas gingivalis	VBIPorGin195531_0708	ATP-dependent Clp protease ATP-binding subunit ClpA
Porphyromonas gingivalis	VBIPorGin134034_0589	ATPase component of general energizing module of ECF transporters
Porphyromonas gingivalis	VBIPorGin134034_0178	ATPase component of general energizing module of ECF transporters
Porphyromonas gingivalis	VBIPorGin195531_1679	bacterial sugar transferase
Porphyromonas gingivalis	VBIPorGin239392_0826	bacterial sugar transferase
Porphyromonas gingivalis	VBIPorGin26334_0927	bacterial sugar transferase
Porphyromonas gingivalis	VBIPorGin26334_1696	bacterial sugar transferase
Porphyromonas gingivalis	VBIPorGin239392_0295	bacterial sugar transferase
Porphyromonas gingivalis	VBIPorGin26334_0037	Carbonic anhydrase EC 4.2.1.1
Porphyromonas gingivalis	VBIPorGin134034_0078	cation-transporting ATPase PaCL
Porphyromonas gingivalis	VBIPorGin134034_0107	cation-transporting ATPase PaCL
Porphyromonas gingivalis	VBIPorGin239392_0409	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin26334_1738	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin195531_0369	ClpB protein
Porphyromonas gingivalis	VBIPorGin26334_0933	ClpB protein
Porphyromonas gingivalis	VBIPorGin134034_0543	ClpB protein
Porphyromonas gingivalis	VBIPorGin195531_1657	ClpB protein
Porphyromonas gingivalis	VBIPorGin239392_0375	Diaminopimelate decarboxylase EC 4.1.1.20
Porphyromonas gingivalis	VBIPorGin26334_1739	Diaminopimelate decarboxylase EC 4.1.1.20

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Porphyromonas gingivalis	VBIPorGin239392_0580	Diaminopimelate decarboxylase EC 4.1.1.20
Porphyromonas gingivalis	VBIPorGin26334_0369	DNA-binding response regulator
Porphyromonas gingivalis	VBIPorGin239392_1078	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Porphyromonas gingivalis	VBIPorGin239392_0023	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Porphyromonas gingivalis	VBIPorGin239392_1454	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Porphyromonas gingivalis	VBIPorGin195531_2154	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Porphyromonas gingivalis	VBIPorGin26334_1592	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Porphyromonas gingivalis	VBIPorGin134034_0063	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Porphyromonas gingivalis	VBIPorGin239392_0270	Enolase EC 4.2.1.11
Porphyromonas gingivalis	VBIPorGin134034_0542	Enolase EC 4.2.1.11
Porphyromonas gingivalis	VBIPorGin239392_0764	Enolase EC 4.2.1.11
Porphyromonas gingivalis	VBIPorGin134034_1066	Enolase EC 4.2.1.11
Porphyromonas gingivalis	VBIPorGin26334_1241	Enolase EC 4.2.1.11
Porphyromonas gingivalis	VBIPorGin26334_1998	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Porphyromonas gingivalis	VBIPorGin26334_0660	Ferrous iron transport protein B
Porphyromonas gingivalis	VBIPorGin26334_0544	Ferrous iron transport protein B
Porphyromonas gingivalis	VBIPorGin134034_1278	Ferrous iron transport protein B
Porphyromonas gingivalis	VBIPorGin239392_1698	Ferrous iron transport protein B
Porphyromonas gingivalis	VBIPorGin134034_1037	Ferrous iron transport protein B
Porphyromonas gingivalis	VBIPorGin195531_2118	FIG00935712 hypothetical protein
Porphyromonas gingivalis	VBIPorGin26334_1605	FIG00935712 hypothetical protein
Porphyromonas gingivalis	VBIPorGin239392_1573	FIG00935712 hypothetical protein
Porphyromonas gingivalis	VBIPorGin26334_0465	FIG00935743 hypothetical protein
Porphyromonas gingivalis	VBIPorGin195531_1111	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin26334_0007	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin26334_1070	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin26334_1069	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin239392_2041	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin26334_0999	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin195531_1112	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin239392_2009	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin195531_1076	FIG00936311 hypothetical protein
Porphyromonas gingivalis	VBIPorGin26334_0731	FKBP-type peptidyl-prolyl cis-trans isomerase FkIB EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin195531_1503	FKBP-type peptidyl-prolyl cis-trans isomerase FkIB EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin195531_0222	FKBP-type peptidyl-prolyl cis-trans isomerase fklB EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin195531_0082	FKBP-type peptidyl-prolyl cis-trans isomerase fklB EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin26334_0296	FKBP-type peptidyl-prolyl cis-trans isomerase FkIB EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin195531_1457	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin26334_0260	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin26334_0742	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Porphyromonas gingivalis	VBIPorGin195531_0377	GDP-L-fucose synthetase EC 1.1.1.271
Porphyromonas gingivalis	VBIPorGin26334_1229	GDP-L-fucose synthetase EC 1.1.1.271
Porphyromonas gingivalis	VBIPorGin26334_0545	GDP-mannose 4 2C6 dehydratase EC 4.2.1.47
Porphyromonas gingivalis	VBIPorGin195531_2015	GDP-mannose 4 2C6 dehydratase EC 4.2.1.47
Porphyromonas gingivalis	VBIPorGin134034_1449	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Porphyromonas gingivalis	VBIPorGin239392_1443	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Porphyromonas gingivalis	VBIPorGin239392_0081	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Porphyromonas gingivalis	VBIPorGin26334_1316	Glycosyl transferase
Porphyromonas gingivalis	VBIPorGin195531_1027	Glycosyl transferase
Porphyromonas gingivalis	VBIPorGin195531_1708	Glycosyl transferase 2C family 2
Porphyromonas gingivalis	VBIPorGin239392_1734	Glycosyl transferase 2C family 2
Porphyromonas gingivalis	VBIPorGin26334_0729	Glycosyl transferase 2C group 2 family protein
Porphyromonas gingivalis	VBIPorGin195531_1541	Glycosyl transferase 2C group 2 family protein
Porphyromonas gingivalis	VBIPorGin26334_1317	Glycosyltransferase
Porphyromonas gingivalis	VBIPorGin134034_1107	Glycosyltransferase EC 2.4.1.-
Porphyromonas gingivalis	VBIPorGin239392_0091	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Porphyromonas gingivalis	VBIPorGin134034_1056	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Porphyromonas gingivalis	VBIPorGin239392_1438	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Porphyromonas gingivalis	VBIPorGin195531_0041	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Porphyromonas gingivalis	VBIPorGin26334_1263	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Porphyromonas gingivalis	VBIPorGin134034_1978	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Porphyromonas gingivalis	VBIPorGin239392_0765	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Porphyromonas gingivalis	VBIPorGin134034_1448	Heat shock protein 60 family chaperone GroEL
Porphyromonas gingivalis	VBIPorGin26334_1888	Heat shock protein 60 family chaperone GroEL
Porphyromonas gingivalis	VBIPorGin134034_0042	Heat shock protein 60 family chaperone GroEL
Porphyromonas gingivalis	VBIPorGin134034_1053	Heat shock protein 60 family chaperone GroEL
Porphyromonas gingivalis	VBIPorGin239392_1345	Hemolysins and related proteins containing CBS domains
Porphyromonas gingivalis	VBIPorGin26334_0090	Hemolysins and related proteins containing CBS domains
Porphyromonas gingivalis	VBIPorGin26334_0651	Hemolysins and related proteins containing CBS domains
Porphyromonas gingivalis	VBIPorGin26334_1508	Hemolysins and related proteins containing CBS domains
Porphyromonas gingivalis	VBIPorGin195531_0580	Hemolysins and related proteins containing CBS domains
Porphyromonas gingivalis	VBIPorGin195531_1124	Hemolysins and related proteins containing CBS domains
Porphyromonas gingivalis	VBIPorGin195531_1015	Hemolysins and related proteins containing CBS domains
Porphyromonas gingivalis	VBIPorGin26334_1726	HtrA protease chaperone protein
Porphyromonas gingivalis	VBIPorGin26334_0223	HtrA protease chaperone protein
Porphyromonas gingivalis	VBIPorGin195531_1253	HtrA protease chaperone protein
Porphyromonas gingivalis	VBIPorGin134034_0065	HtrA protease chaperone protein
Porphyromonas gingivalis	VBIPorGin195531_0061	hypothetical protein
Porphyromonas gingivalis	VBIPorGin134034_1569	hypothetical protein

Porphyromonas gingivalis	VBIPorGin134034_1591	hypothetical protein
Porphyromonas gingivalis	VBIPorGin134034_1668	hypothetical protein
Porphyromonas gingivalis	VBIPorGin195531_1421	iron compound ABC transporter 2C ATP-binding protein
Porphyromonas gingivalis	VBIPorGin26334_0249	iron compound ABC transporter 2C ATP-binding protein
Porphyromonas gingivalis	VBIPorGin195531_0329	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Porphyromonas gingivalis	VBIPorGin26334_1589	Lipid-A-disaccharide synthase EC 2.4.1.182
Porphyromonas gingivalis	VBIPorGin134034_1631	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Porphyromonas gingivalis	VBIPorGin195531_0260	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Porphyromonas gingivalis	VBIPorGin26334_1517	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Porphyromonas gingivalis	VBIPorGin239392_0155	Lipoprotein releasing system ATP-binding protein LolD
Porphyromonas gingivalis	VBIPorGin26334_0675	Lipoprotein releasing system ATP-binding protein LolD
Porphyromonas gingivalis	VBIPorGin239392_1372	Lipoprotein releasing system ATP-binding protein LolD
Porphyromonas gingivalis	VBIPorGin239392_1319	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas gingivalis	VBIPorGin26334_2018	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas gingivalis	VBIPorGin239392_1219	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas gingivalis	VBIPorGin239392_1298	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas gingivalis	VBIPorGin239392_1229	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas gingivalis	VBIPorGin26334_2043	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas gingivalis	VBIPorGin134034_0108	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19
Porphyromonas gingivalis	VBIPorGin134034_0320	Manganese ABC transporter 2C periplasmic-binding protein SitA
Porphyromonas gingivalis	VBIPorGin134034_0904	Manganese superoxide dismutase EC 1.15.1.1
Porphyromonas gingivalis	VBIPorGin239392_1603	Manganese superoxide dismutase EC 1.15.1.1
Porphyromonas gingivalis	VBIPorGin195531_0397	Manganese superoxide dismutase EC 1.15.1.1
Porphyromonas gingivalis	VBIPorGin195531_2114	Manganese superoxide dismutase EC 1.15.1.1
Porphyromonas gingivalis	VBIPorGin239392_0414	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Porphyromonas gingivalis	VBIPorGin26334_0632	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Porphyromonas gingivalis	VBIPorGin26334_0168	Mannose-6-phosphate isomerase EC 5.3.1.8
Porphyromonas gingivalis	VBIPorGin195531_0524	Membrane-associated zinc metalloprotease
Porphyromonas gingivalis	VBIPorGin134034_0685	multidrug ABC transporter 2C ATPase component
Porphyromonas gingivalis	VBIPorGin26334_1182	N-acetylglucosamine deacetylase EC 3.5.1.- 3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Porphyromonas gingivalis	VBIPorGin195531_0445	N-acetylglucosamine deacetylase EC 3.5.1.- 3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Porphyromonas gingivalis	VBIPorGin134034_1091	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas gingivalis	VBIPorGin134034_0562	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas gingivalis	VBIPorGin195531_0077	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas gingivalis	VBIPorGin134034_1527	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas gingivalis	VBIPorGin134034_1092	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas gingivalis	VBIPorGin26334_0967	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas gingivalis	VBIPorGin239392_0343	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas gingivalis	VBIPorGin134034_0009	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Porphyromonas gingivalis	VBIPorGin26334_1922	Ornithine aminotransferase EC 2.6.1.13
Porphyromonas gingivalis	VBIPorGin195531_1805	Ornithine aminotransferase EC 2.6.1.13
Porphyromonas gingivalis	VBIPorGin26334_0631	Ornithine aminotransferase EC 2.6.1.13
Porphyromonas gingivalis	VBIPorGin134034_0471	Ornithine carbamoyltransferase EC 2.1.3.3
Porphyromonas gingivalis	VBIPorGin134034_0250	Ornithine carbamoyltransferase EC 2.1.3.3
Porphyromonas gingivalis	VBIPorGin134034_0651	Ornithine carbamoyltransferase EC 2.1.3.3
Porphyromonas gingivalis	VBIPorGin26334_0940	oxidoreductase 2C Gfo Idh MocA family
Porphyromonas gingivalis	VBIPorGin239392_0327	oxidoreductase 2C Gfo Idh MocA family
Porphyromonas gingivalis	VBIPorGin134034_2043	Pantoate-beta-alanine ligase EC 6.3.2.1
Porphyromonas gingivalis	VBIPorGin195531_0710	Phosphatidate cytidyltransferase EC 2.7.7.41
Porphyromonas gingivalis	VBIPorGin26334_0711	Phosphatidate cytidyltransferase EC 2.7.7.41
Porphyromonas gingivalis	VBIPorGin26334_1734	Phosphoglucomutase EC 5.4.2.2
Porphyromonas gingivalis	VBIPorGin239392_0875	Phosphoglucomutase EC 5.4.2.2
Porphyromonas gingivalis	VBIPorGin239392_0319	Phosphoglucomutase EC 5.4.2.2
Porphyromonas gingivalis	VBIPorGin239392_1816	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Porphyromonas gingivalis	VBIPorGin134034_1539	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Porphyromonas gingivalis	VBIPorGin195531_1587	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Porphyromonas gingivalis	VBIPorGin195531_0037	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Porphyromonas gingivalis	VBIPorGin239392_1644	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Porphyromonas gingivalis	VBIPorGin195531_1700	pigmentation and extracellular proteinase regulator
Porphyromonas gingivalis	VBIPorGin239392_1056	probable glycosyltransferase
Porphyromonas gingivalis	VBIPorGin134034_1151	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin195531_1769	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin134034_2066	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin26334_1234	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin239392_1937	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin195531_0864	Probable UDP-N-acetyl-D-mannosaminuronic acid transferase EC 2.4.1.-
Porphyromonas gingivalis	VBIPorGin26334_1982	Probable UDP-N-acetyl-D-mannosaminuronic acid transferase EC 2.4.1.-
Porphyromonas gingivalis	VBIPorGin134034_1435	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin195531_1162	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin26334_0201	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin195531_1214	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin134034_1863	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin134034_1437	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin134034_1822	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin26334_0222	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Porphyromonas gingivalis	VBIPorGin195531_0386	putative capsular polysaccharide glycosyltransferase
Porphyromonas gingivalis	VBIPorGin134034_1178	RNA polymerase sigma factor RpoD
Porphyromonas gingivalis	VBIPorGin26334_0229	RNA polymerase sigma factor RpoD
Porphyromonas gingivalis	VBIPorGin195531_1309	RNA polymerase sigma factor RpoD

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Porphyromonas gingivalis	VBIPorGin134034_1974	RNA polymerase sigma factor RpoD
Porphyromonas gingivalis	VBIPorGin195531_0367	RNA polymerase sigma factor RpoD
Porphyromonas gingivalis	VBIPorGin134034_0287	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Porphyromonas gingivalis	VBIPorGin134034_1061	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Porphyromonas gingivalis	VBIPorGin26334_0765	Succinate-semialdehyde dehydrogenase 2C CoA-dependent
Porphyromonas gingivalis	VBIPorGin195531_0327	Succinate-semialdehyde dehydrogenase 2C CoA-dependent
Porphyromonas gingivalis	VBIPorGin26334_1392	surface antigen 2C putative
Porphyromonas gingivalis	VBIPorGin26334_0543	surface antigen 2C putative
Porphyromonas gingivalis	VBIPorGin195531_2098	surface antigen 2C putative
Porphyromonas gingivalis	VBIPorGin195531_2104	surface antigen 2C putative
Porphyromonas gingivalis	VBIPorGin26334_1363	surface antigen 2C putative
Porphyromonas gingivalis	VBIPorGin26334_0540	surface antigen 2C putative
Porphyromonas gingivalis	VBIPorGin26334_0231	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Porphyromonas gingivalis	VBIPorGin134034_1196	TonB-dependent receptor
Porphyromonas gingivalis	VBIPorGin134034_1192	TonB-dependent receptor
Porphyromonas gingivalis	VBIPorGin134034_2041	Transcriptional regulator
Porphyromonas gingivalis	VBIPorGin134034_1006	Transcriptional regulator
Porphyromonas gingivalis	VBIPorGin239392_1832	Transcriptional regulatory protein rprY
Porphyromonas gingivalis	VBIPorGin26334_0939	Transcriptional regulatory protein rprY
Porphyromonas gingivalis	VBIPorGin195531_1656	Transcriptional regulatory protein rprY
Porphyromonas gingivalis	VBIPorGin134034_0411	Translation elongation factor Tu
Porphyromonas gingivalis	VBIPorGin134034_1446	Translation elongation factor Tu
Porphyromonas gingivalis	VBIPorGin134034_0954	Translation elongation factor Tu
Porphyromonas gingivalis	VBIPorGin134034_1647	Translation elongation factor Tu
Porphyromonas gingivalis	VBIPorGin26334_0012	Translation elongation factor Tu
Porphyromonas gingivalis	VBIPorGin195531_0379	two-component response regulator
Porphyromonas gingivalis	VBIPorGin26334_0449	Two-component system response regulator
Porphyromonas gingivalis	VBIPorGin195531_1528	Two-component system response regulator
Porphyromonas gingivalis	VBIPorGin239392_0577	Two-component system response regulator
Porphyromonas gingivalis	VBIPorGin195531_1118	Tyrosine-protein kinase Wzc EC 2.7.10.2
Porphyromonas gingivalis	VBIPorGin195531_0530	UDP-2-acetamido-2-deoxy-D-glucuronic acid dehydrogenase NAD+ cofactor
Porphyromonas gingivalis	VBIPorGin239392_0956	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin26334_1179	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin195531_0724	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Porphyromonas gingivalis	VBIPorGin26334_1073	UDP-glucose 4-epimerase EC 5.1.3.2
Porphyromonas gingivalis	VBIPorGin195531_1071	UDP-glucose 4-epimerase EC 5.1.3.2
Porphyromonas gingivalis	VBIPorGin195531_1707	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas gingivalis	VBIPorGin239392_1736	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas gingivalis	VBIPorGin26334_1226	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas gingivalis	VBIPorGin195531_0013	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas gingivalis	VBIPorGin195531_1960	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas gingivalis	VBIPorGin26334_0554	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas gingivalis	VBIPorGin239392_0961	UDP-N-acetyl-D-mannosamine dehydrogenase EC 1.1.1.-
Porphyromonas gingivalis	VBIPorGin195531_0919	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Porphyromonas gingivalis	VBIPorGin239392_1141	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Porphyromonas gingivalis	VBIPorGin26334_1984	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Porphyromonas gingivalis	VBIPorGin239392_1326	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Porphyromonas gingivalis	VBIPorGin195531_0929	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Porphyromonas gingivalis	VBIPorGin26334_1628	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Porphyromonas gingivalis	VBIPorGin195531_0343	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Porphyromonas gingivalis	VBIPorGin195531_0081	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Porphyromonas gingivalis	VBIPorGin134034_1688	V-type ATP synthase subunit A EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin26334_1306	V-type ATP synthase subunit A EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin239392_0231	V-type ATP synthase subunit A EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin239392_0815	V-type ATP synthase subunit A EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin26334_1297	V-type ATP synthase subunit B EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin134034_0323	V-type ATP synthase subunit B EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin239392_0234	V-type ATP synthase subunit B EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin239392_0766	V-type ATP synthase subunit B EC 3.6.3.14
Porphyromonas gingivalis	VBIPorGin26334_0767	Vitamin B12 ABC transporter 2C permease component BtuC
Porphyromonas gingivalis	VBIPorGin26334_0844	Vitamin B12 ABC transporter 2C permease component BtuC
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0775	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1357	8-amino-7-oxononanoate synthase EC 2.3.1.47
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1458	ABC transporter 2C ATP-binding protein
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1442	ABC transporter 2C ATP-binding protein 2C putative
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1436	ABC transporter ATP-binding protein
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0875	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0214	ATP-dependent Clp protease ATP-binding subunit ClpA
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1648	bacterial sugar transferase
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1461	Calcium-transporting ATPase
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0466	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1617	ClpB protein
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1133	DNA-binding response regulator
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0595	Dolichol-phosphate mannosyltransferase EC 2.4.1.83 in lipid-linked oligosaccharide synthesis cluster
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0776	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0777	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0782	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1497	Ferrous iron transport protein B
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0793	FIG00935712 hypothetical protein

Porphyromonas sp. oral taxon 279	VBIPorSp227785_0979	FIG00936204 hypothetical protein
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1108	FKBP-type peptidyl-prolyl cis-trans isomerase FkIB EC 5.2.1.8
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1033	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1488	GDP-L-fucose synthetase EC 1.1.1.271
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1487	GDP-mannose 4 2C6 dehydratase EC 4.2.1.47
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1281	Glycosyl transferase 2C group 2 family protein
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0196	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0812	HtrA protease chaperone protein
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0931	iron compound ABC transporter 2C ATP-binding protein
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0504	Lipid-A-disaccharide synthase EC 2.4.1.182
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0918	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0649	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0613	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0748	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0045	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0171	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0720	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0494	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0406	Phosphatidate cytidyltransferase EC 2.7.7.41
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1602	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1449	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0181	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1705	pigmentation and extracellular proteinase regulator
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0540	probable glycosyltransferase
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1373	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0596	Probable UDP-N-acetyl-D-mannosaminuronic acid transferase EC 2.4.1.-
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0829	RNA polymerase sigma factor RpoD
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0980	Succinate-semialdehyde dehydrogenase 2C CoA-dependent
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1327	surface antigen 2C putative
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1316	surface antigen 2C putative
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0928	Tetraacyldisaccharide 4'-kinase EC 2.7.1.130
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0177	Transcriptional regulator
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0763	Transcriptional regulator
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1530	Transcriptional regulatory protein rprY
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1210	Two-component system response regulator
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0255	Two-component system response regulator
Porphyromonas sp. oral taxon 279	VBIPorSp227785_1709	UDP-glucose dehydrogenase EC 1.1.1.22
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0505	UDP-N-acetyl-D-mannosamine dehydrogenase EC 1.1.1.-
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0607	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Porphyromonas sp. oral taxon 279	VBIPorSp227785_0940	Vitamin B12 ABC transporter 2C permease component BtuC
Prevotella bivia	VBIPreBiv94575_0160	Glycosyl transferase 2C family 2
Prevotella buccae	VBIPreBuc167547_2107	ABC transporter 2C ATP-binding protein
Prevotella buccae	VBIPreBuc31492_1479	branched chain amino acid transport ATP-binding protein
Prevotella buccae	VBIPreBuc167547_1908	Diaminopimelate decarboxylase EC 4.1.1.20
Prevotella buccae	VBIPreBuc167547_1943	Ferrous iron transport protein B
Prevotella buccalis	VBIPreBuc139135_0582	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Prevotella buccalis	VBIPreBuc139135_0269	branched-chain amino acid ABC transporter 2C ATP-binding protein
Prevotella buccalis	VBIPreBuc139135_1482	Carbonic anhydrase EC 4.2.1.1
Prevotella buccalis	VBIPreBuc139135_1971	FIG00936311 hypothetical protein
Prevotella buccalis	VBIPreBuc139135_2489	FIG00936311 hypothetical protein
Prevotella buccalis	VBIPreBuc139135_0717	Heat shock protein 60 family chaperone GroEL
Prevotella buccalis	VBIPreBuc139135_1403	Hemolysins and related proteins containing CBS domains
Prevotella buccalis	VBIPreBuc139135_1226	Mannose-6-phosphate isomerase EC 5.3.1.8
Prevotella buccalis	VBIPreBuc139135_1968	Membrane-associated zinc metalloprotease
Prevotella buccalis	VBIPreBuc139135_0614	Ornithine aminotransferase EC 2.6.1.13
Prevotella buccalis	VBIPreBuc139135_0931	Pantoate--beta-alanine ligase EC 6.3.2.1
Prevotella buccalis	VBIPreBuc139135_1415	Tyrosine-protein kinase Wzc EC 2.7.10.2
Prevotella dentalis	VBIPreDen174784_1921	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Prevotella dentalis	VBIPreDen174784_2244	8-amino-7-oxononanoate synthase EC 2.3.1.47
Prevotella dentalis	VBIPreDen174784_0554	Glycosyl transferase
Prevotella dentalis	VBIPreDen174784_0402	Glycosyltransferase
Prevotella dentalis	VBIPreDen174784_0049	UDP-glucose 4-epimerase EC 5.1.3.2
Prevotella denticola	VBIPreDen163057_0769	3-deoxy-manno-octulosonate cytidyltransferase EC 2.7.7.38
Prevotella denticola	VBIPreDen163057_1289	ABC transporter 2C ATP-binding protein 2C putative
Prevotella denticola	VBIPreDen163057_1357	ABC transporter ATP-binding protein
Prevotella denticola	VBIPreDen163057_1483	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Prevotella denticola	VBIPreDen163057_2026	Arabinose 5-phosphate isomerase EC 5.3.1.13
Prevotella denticola	VBIPreDen163057_0860	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolyase
Prevotella denticola	VBIPreDen177924_0861	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Prevotella denticola	VBIPreDen177924_0865	Mannose-6-phosphate isomerase EC 5.3.1.8
Prevotella denticola	VBIPreDen177924_2584	Nucleoside 5-triphosphatase RdgB dHAPT 2C dTTP 2C XTP-specific EC 3.6.1.15
Prevotella denticola	VBIPreDen177924_0382	oxidoreductase 2C short chain dehydrogenase reductase family
Prevotella denticola	VBIPreDen163057_1474	Phosphoglucosmutase EC 5.4.2.2
Prevotella denticola	VBIPreDen177924_2187	transferrin-binding protein A
Prevotella denticola	VBIPreDen163057_1649	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Prevotella denticola	VBIPreDen163057_1121	V-type ATP synthase subunit A EC 3.6.3.14
Prevotella denticola	VBIPreDen163057_0904	V-type ATP synthase subunit B EC 3.6.3.14
Prevotella histicola	VBIPreHis163117_0372	2-Keto-3-deoxy-D-manno-octulosonate-8-phosphate synthase EC 2.5.1.55
Prevotella histicola	VBIPreHis163117_0710	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1

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Prevotella histicola	VBIPreHis163117_2456	ClpB protein
Prevotella histicola	VBIPreHis163117_1180	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Prevotella histicola	VBIPreHis163117_0716	Pantoate-beta-alanine ligase EC 6.3.2.1
Prevotella histicola	VBIPreHis163117_0031	Superoxide dismutase Fe EC 1.15.1.1
Prevotella intermedia	VBIPreInt119176_0360	8-amino-7-oxononanoate synthase EC 2.3.1.47
Prevotella intermedia	VBIPreInt119176_1062	ABC transporter 2C ATP-binding protein
Prevotella intermedia	VBIPreInt119176_1760	Acetoin dehydrogenase E1 component beta-subunit EC 1.2.4.-
Prevotella intermedia	VBIPreInt119176_1011	Acyl-acyl-carrier-protein-UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Prevotella intermedia	VBIPreInt119176_0445	Acyl-acyl-carrier-protein-UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Prevotella intermedia	VBIPreInt119176_2040	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Prevotella intermedia	VBIPreInt119176_0311	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Prevotella intermedia	VBIPreInt119176_0102	bacterial sugar transferase
Prevotella intermedia	VBIPreInt119176_2001	Calcium-transporting ATPase
Prevotella intermedia	VBIPreInt119176_2158	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Prevotella intermedia	VBIPreInt119176_1745	Ferrous iron transport protein B
Prevotella intermedia	VBIPreInt119176_2202	Ferrous iron transport protein B
Prevotella intermedia	VBIPreInt119176_2197	GDP-L-fucose synthetase EC 1.1.1.1271
Prevotella intermedia	VBIPreInt119176_1647	Glutamyl-tRNA reductase EC 1.2.1.70
Prevotella intermedia	VBIPreInt119176_2194	Glycosyl transferase 2C group 2 family protein
Prevotella intermedia	VBIPreInt119176_2004	Glycosyltransferase
Prevotella intermedia	VBIPreInt119176_0175	Glycosyltransferase
Prevotella intermedia	VBIPreInt119176_1986	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Prevotella intermedia	VBIPreInt119176_1684	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II
Prevotella intermedia	VBIPreInt119176_2106	Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrola
Prevotella intermedia	VBIPreInt119176_2090	Hemolysins and related proteins containing CBS domains
Prevotella intermedia	VBIPreInt119176_2266	Hemolysins and related proteins containing CBS domains
Prevotella intermedia	VBIPreInt119176_2275	iron compound ABC transporter 2C ATP-binding protein
Prevotella intermedia	VBIPreInt119176_0219	iron compound ABC transporter 2C permease protein
Prevotella intermedia	VBIPreInt119176_2151	Lipid-A-disaccharide synthase EC 2.4.1.182
Prevotella intermedia	VBIPreInt119176_1061	Lipoate-protein ligase A
Prevotella intermedia	VBIPreInt119176_0601	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Prevotella intermedia	VBIPreInt119176_0601	Lipoprotein releasing system ATP-binding protein LolD
Prevotella intermedia	VBIPreInt119176_0632	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Prevotella intermedia	VBIPreInt119176_0730	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Prevotella intermedia	VBIPreInt119176_0634	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Prevotella intermedia	VBIPreInt119176_0661	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Prevotella intermedia	VBIPreInt119176_0680	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Prevotella intermedia	VBIPreInt119176_0879	N-acetylglucosamine deacetylase EC 3.5.1.-
Prevotella intermedia	VBIPreInt119176_2083	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Prevotella intermedia	VBIPreInt119176_1160	Phosphatidate cytidyltransferase EC 2.7.7.41
Prevotella intermedia	VBIPreInt119176_1487	Phosphomannomutase EC 5.4.2.8
Prevotella intermedia	VBIPreInt119176_2221	Phosphoglucomutase EC 5.4.2.2
Prevotella intermedia	VBIPreInt119176_0469	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Prevotella intermedia	VBIPreInt119176_2091	RNA polymerase sigma factor RpoD
Prevotella intermedia	VBIPreInt119176_0848	Superoxide dismutase Fe EC 1.15.1.1
Prevotella intermedia	VBIPreInt119176_0485	Transcriptional regulator
Prevotella intermedia	VBIPreInt119176_0010	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Prevotella intermedia	VBIPreInt119176_1883	UDP-glucose dehydrogenase EC 1.1.1.22
Prevotella intermedia	VBIPreInt119176_1884	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Prevotella maculosa	VBIPreMac187881_2620	V-type ATP synthase subunit A EC 3.6.3.14
Prevotella maculosa	VBIPreMac187881_0593	V-type ATP synthase subunit B EC 3.6.3.14
Prevotella maculosa	VBIPreMac187881_0216	Acetoin dehydrogenase E1 component alpha-subunit EC 1.2.4.-
Prevotella maculosa	VBIPreMac187881_0661	Acetoin dehydrogenase E1 component beta-subunit EC
Prevotella maculosa	VBIPreMac187881_2045	Ferrochelatase 2C protoheme ferro-lyase EC 4.99.1.1
Prevotella maculosa	VBIPreMac187881_0805	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Prevotella maculosa	VBIPreMac187881_2359	Glutamine synthetase type I EC 6.3.1.2
Prevotella marshii	VBIPreMar165560_1400	Glycosyl transferase 2C group 2 family protein
Prevotella marshii	VBIPreMar165560_0787	Membrane-associated zinc metalloprotease
Prevotella marshii	VBIPreMar165560_0721	Methionyl-tRNA formyltransferase EC 2.1.2.9
Prevotella marshii	VBIPreMar165560_0499	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Prevotella marshii	VBIPreMar165560_0671	Enolase EC 4.2.1.11
Prevotella marshii	VBIPreMar165560_0498	FIG00939874 hypothetical protein
Prevotella marshii	VBIPreMar165560_0485	Glutamine synthetase type I EC 6.3.1.2
Prevotella melaninogenica	VBIPreMel47739_0764	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella melaninogenica	VBIPreMel47739_0290	Phosphoglucomutase EC 5.4.2.2
Prevotella melaninogenica	VBIPreMel47739_0841	Translation elongation factor Tu
Prevotella melaninogenica	VBIPreMel53552_2085	8-amino-7-oxononanoate synthase EC 2.3.1.47
Prevotella melaninogenica	VBIPreMel53552_1462	Heat shock protein 60 family chaperone GroEL
Prevotella melaninogenica	VBIPreMel53552_0635	Mannose-6-phosphate isomerase EC 5.3.1.8
Prevotella micans	VBIPreMic169270_1030	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Prevotella micans	VBIPreMic169270_0691	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Prevotella micans	VBIPreMic169270_1392	Transcriptional regulatory protein rprY
Prevotella micans	VBIPreMic169270_0692	ABC transporter 2C ATP-binding permease protein
Prevotella micans	VBIPreMic169270_0305	ABC transporter ATP-binding protein
Prevotella micans	VBIPreMic169270_0850	ABC transporter ATP-binding protein
Prevotella micans	VBIPreMic169270_1539	Ferrous iron transport protein B
Prevotella micans	VBIPreMic169270_1452	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Prevotella nigrescens	VBIPreNig185369_0348	RNA polymerase sigma factor RpoD
Prevotella oralis	VBIPreOra166786_1547	RNA polymerase sigma factor RpoD
Prevotella oralis	VBIPreOra166786_1234	Translation elongation factor Tu
		Enolase EC 4.2.1.11
		4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
		ABC transporter ATP-binding protein

Table S8

Prevotella oralis	VBIPreOra166786_0895	ABC transporter ATP-binding protein
Prevotella oralis	VBIPreOra166786_2411	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Prevotella oralis	VBIPreOra166786_1336	Enolase EC 4.2.1.11
Prevotella oralis	VBIPreOra166786_0422	Glutamine synthetase type I EC 6.3.1.2
Prevotella oralis	VBIPreOra166786_0260	Heat shock protein 60 family chaperone GroEL
Prevotella oralis	VBIPreOra166786_0605	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella oralis	VBIPreOra166786_1876	Translation elongation factor Tu
Prevotella oris	VBIPreOri75361_0570	2-amino-3-ketobutyrate coenzyme A ligase EC 2.3.1.29
Prevotella oris	VBIPreOri75361_2029	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Prevotella oris	VBIPreOri75361_0690	ABC transporter ATP-binding protein
Prevotella oris	VBIPreOri75361_0825	ABC transporter ATP-binding protein
Prevotella oris	VBIPreOri75361_1391	ATP-dependent Clp protease ATP-binding subunit ClpA
Prevotella oris	VBIPreOri82342_0112	ATP-dependent Clp protease ATP-binding subunit ClpA
Prevotella oris	VBIPreOri82342_1428	DNA-binding response regulator 2C AraC family
Prevotella oris	VBIPreOri75361_1171	Enolase EC 4.2.1.11
Prevotella oris	VBIPreOri75361_2324	Ferrous iron transport protein B
Prevotella oris	VBIPreOri75361_1392	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Prevotella oris	VBIPreOri75361_1071	Heat shock protein 60 family chaperone GroEL
Prevotella oris	VBIPreOri75361_0283	Heat shock protein 60 family chaperone GroEL
Prevotella oris	VBIPreOri82342_0428	Lipid-A-disaccharide synthase EC 2.4.1.182
Prevotella oris	VBIPreOri82342_0309	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Prevotella oris	VBIPreOri82342_0125	Methionine ABC transporter ATP-binding protein
Prevotella oris	VBIPreOri75361_0939	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella oris	VBIPreOri75361_2340	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Prevotella oris	VBIPreOri75361_0691	Phosphomannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Prevotella oris	VBIPreOri75361_1873	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Prevotella oris	VBIPreOri75361_1559	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Prevotella oris	VBIPreOri75361_0936	putative lipopolysaccharide biosynthesis protein
Prevotella oris	VBIPreOri75361_2674	RNA polymerase sigma factor RpoD
Prevotella oris	VBIPreOri75361_1320	TonB-dependent receptor
Prevotella oris	VBIPreOri75361_0909	Translation elongation factor Tu
Prevotella oris	VBIPreOri75361_0290	Translation elongation factor Tu
Prevotella oulorum	VBIPreOul152235_1074	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Prevotella oulorum	VBIPreOul152235_0636	Calcium-transporting ATPase
Prevotella oulorum	VBIPreOul152235_2273	FKBP-type peptidyl-prolyl cis-trans isomerase fKlB EC 5.2.1.8
Prevotella oulorum	VBIPreOul152235_0257	Lipid A export ATP-binding permease protein MsbA
Prevotella oulorum	VBIPreOul152235_0736	streptococcal pyrogenic exotoxin B EC3.4.22.10
Prevotella pallens	VBIPrePal183129_1477	FKBP-type peptidyl-prolyl cis-trans isomerase fKlB EC 5.2.1.8
Prevotella pallens	VBIPrePal183129_2562	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Prevotella sp. oral taxon 299	VBIPreSp104905_0102	ABC transporter 2C ATP-binding permease protein
Prevotella sp. oral taxon 302	VBIPreSp140204_0099	ABC transporter 2C ATP-binding permease protein
Prevotella sp. oral taxon 302	VBIPreSp140204_2049	GDP-L-fucose synthetase EC 1.1.1.271
Prevotella sp. oral taxon 302	VBIPreSp140204_1827	GDP-mannose 4 2C6 dehydratase EC 4.2.1.47
Prevotella sp. oral taxon 302	VBIPreSp140204_1814	Glycosyl transferase
Prevotella sp. oral taxon 302	VBIPreSp140204_1826	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Prevotella sp. oral taxon 302	VBIPreSp140204_0844	Mannose-6-phosphate isomerase EC 5.3.1.8
Prevotella sp. oral taxon 302	VBIPreSp140204_0180	RNA polymerase sigma factor RpoD
Prevotella sp. oral taxon 302	VBIPreSp140204_1203	Transcriptional regulator
Prevotella sp. oral taxon 306	VBIPreSp216647_2372	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Prevotella sp. oral taxon 306	VBIPreSp216647_0216	4-keto-6-deoxy-N-Acetyl-D-hexosaminyL-Lipid carrier aminotransferase
Prevotella sp. oral taxon 306	VBIPreSp216647_1881	ABC transporter ATP-binding protein
Prevotella sp. oral taxon 306	VBIPreSp216647_1869	ABC transporter ATP-binding protein
Prevotella sp. oral taxon 306	VBIPreSp216647_2092	ABC transporter ATP-binding protein
Prevotella sp. oral taxon 306	VBIPreSp216647_1928	ABC transporter ATP-binding protein
Prevotella sp. oral taxon 306	VBIPreSp216647_1247	Acyl carrier protein
Prevotella sp. oral taxon 306	VBIPreSp216647_0123	Alpha-1 2C3-N-acetylgalactosamine transferase PglA EC 2.4.1.-
Prevotella sp. oral taxon 306	VBIPreSp216647_0730	Aminotransferase
Prevotella sp. oral taxon 306	VBIPreSp216647_0595	ATP synthase alpha chain EC 3.6.3.14
Prevotella sp. oral taxon 306	VBIPreSp216647_2146	ATP synthase beta chain EC 3.6.3.14
Prevotella sp. oral taxon 306	VBIPreSp216647_0613	ATP synthase beta chain EC 3.6.3.14
Prevotella sp. oral taxon 306	VBIPreSp216647_1438	Capsular polysaccharide biosynthesis protein capD
Prevotella sp. oral taxon 306	VBIPreSp216647_1071	Colanic acid biosynthesis glycosyl transferase WcaE
Prevotella sp. oral taxon 306	VBIPreSp216647_1055	dTDP-4-dehydrohamnose 3 2C5-epimerase EC 5.1.3.13
Prevotella sp. oral taxon 306	VBIPreSp216647_0636	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Prevotella sp. oral taxon 306	VBIPreSp216647_1403	Enolase EC 4.2.1.11
Prevotella sp. oral taxon 306	VBIPreSp216647_1073	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Prevotella sp. oral taxon 306	VBIPreSp216647_0563	Heat shock protein 60 family chaperone GroEL
Prevotella sp. oral taxon 306	VBIPreSp216647_1549	Heat shock protein 60 family chaperone GroEL
Prevotella sp. oral taxon 306	VBIPreSp216647_2284	Heat shock protein 60 family chaperone GroEL
Prevotella sp. oral taxon 306	VBIPreSp216647_0236	Hemolysins and related proteins containing CBS domains
Prevotella sp. oral taxon 306	VBIPreSp216647_0434	N-acetylglucosamine deacetylase EC 3.5.1.- 3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Prevotella sp. oral taxon 306	VBIPreSp216647_0244	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Prevotella sp. oral taxon 306	VBIPreSp216647_1299	Streptococcal cysteine protease Streptopain EC 3.4.22.10 Streptococcal pyrogenic exotoxin B SpeB
Prevotella sp. oral taxon 306	VBIPreSp216647_2476	Translation elongation factor Tu
Prevotella sp. oral taxon 306	VBIPreSp216647_0330	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Prevotella sp. oral taxon 306	VBIPreSp216647_1084	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Prevotella sp. oral taxon 306	VBIPreSp216647_1385	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Prevotella sp. oral taxon 317	VBIPreSp57183_1605	ATP-dependent Clp protease ATP-binding subunit ClpA
Prevotella sp. oral taxon 317	VBIPreSp57183_0981	Enolase EC 4.2.1.11

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Prevotella sp. oral taxon 317	VBIPreSp57183_2774	Heat shock protein 60 family chaperone GroEL
Prevotella sp. oral taxon 317	VBIPreSp57183_2048	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella sp. oral taxon 317	VBIPreSp57183_2031	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Prevotella tannerae	VBIPreTan62661_2672	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Prevotella tannerae	VBIPreTan62661_2993	ATP synthase alpha chain EC 3.6.3.14
Prevotella tannerae	VBIPreTan62661_1062	ATP synthase alpha chain EC 3.6.3.14
Prevotella tannerae	VBIPreTan62661_3092	ATP synthase beta chain EC 3.6.3.14
Prevotella tannerae	VBIPreTan62661_2914	CipB protein
Prevotella tannerae	VBIPreTan62661_2832	COG1272 Predicted membrane protein hemolysin III homolog
Prevotella tannerae	VBIPreTan62661_0695	D-alanine--polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Prevotella tannerae	VBIPreTan62661_0859	D-alanine--polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Prevotella tannerae	VBIPreTan62661_2887	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Prevotella tannerae	VBIPreTan62661_3303	FIG00939874 hypothetical protein
Prevotella tannerae	VBIPreTan62661_0225	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Prevotella tannerae	VBIPreTan62661_1741	Heat shock protein 60 family chaperone GroEL
Prevotella tannerae	VBIPreTan62661_0089	Lipid A export ATP-binding permease protein MsbA
Prevotella tannerae	VBIPreTan62661_0193	Lipid A export ATP-binding permease protein MsbA
Prevotella tannerae	VBIPreTan62661_4294	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella tannerae	VBIPreTan62661_1690	Phosphoglucomutase EC 5.4.2.2
Prevotella tannerae	VBIPreTan62661_3176	RNA polymerase sigma factor RpoD
Prevotella tannerae	VBIPreTan62661_2028	Superoxide dismutase Fe EC 1.15.1.1
Prevotella tannerae	VBIPreTan62661_3769	tetracycline resistance element regulator RteB - Bacteroides thetaiotaomicron
Prevotella tannerae	VBIPreTan62661_2542	Translation elongation factor Tu
Prevotella tannerae	VBIPreTan62661_1339	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Prevotella veroralis	VBIPreVer83495_1492	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Prevotella veroralis	VBIPreVer83495_0434	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Prevotella veroralis	VBIPreVer83495_1079	8-amino-7-oxononanoate synthase EC 2.3.1.47
Prevotella veroralis	VBIPreVer83495_1528	ABC transporter 2C ATP-binding permease protein
Prevotella veroralis	VBIPreVer83495_0175	ABC transporter 2C ATP-binding permease protein
Prevotella veroralis	VBIPreVer83495_0135	ABC transporter 2C ATP-binding permease protein
Prevotella veroralis	VBIPreVer83495_1520	ABC transporter ATP-binding protein
Prevotella veroralis	VBIPreVer83495_1311	ABC transporter ATP-binding protein
Prevotella veroralis	VBIPreVer83495_0908	ABC transporter ATP-binding protein
Prevotella veroralis	VBIPreVer83495_0527	Acyl carrier protein
Prevotella veroralis	VBIPreVer83495_2173	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Prevotella veroralis	VBIPreVer83495_1357	ATP synthase alpha chain EC 3.6.3.14
Prevotella veroralis	VBIPreVer83495_0906	ATP synthase beta chain EC 3.6.3.14
Prevotella veroralis	VBIPreVer83495_0002	Capsular polysaccharide biosynthesis protein capD
Prevotella veroralis	VBIPreVer83495_1264	Enolase EC 4.2.1.11
Prevotella veroralis	VBIPreVer83495_0537	FIG00937278 hypothetical protein
Prevotella veroralis	VBIPreVer83495_1148	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Prevotella veroralis	VBIPreVer83495_0671	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Prevotella veroralis	VBIPreVer83495_1206	Heat shock protein 60 family chaperone GroEL
Prevotella veroralis	VBIPreVer83495_2316	Heat shock protein 60 family chaperone GroEL
Prevotella veroralis	VBIPreVer83495_1353	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Prevotella veroralis	VBIPreVer83495_1453	Lipid A export ATP-binding permease protein MsbA
Prevotella veroralis	VBIPreVer83495_1280	Mannose-6-phosphate isomerase EC 5.3.1.8
Prevotella veroralis	VBIPreVer83495_2353	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella veroralis	VBIPreVer83495_1507	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella veroralis	VBIPreVer83495_0876	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Prevotella veroralis	VBIPreVer83495_0688	Phosphoglucomutase EC 5.4.2.2
Prevotella veroralis	VBIPreVer83495_1241	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Prevotella veroralis	VBIPreVer83495_0738	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Prevotella veroralis	VBIPreVer83495_0718	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Prevotella veroralis	VBIPreVer83495_0672	putative polysialic acid transport protein
Prevotella veroralis	VBIPreVer83495_0685	RNA polymerase sigma factor RpoD
Prevotella veroralis	VBIPreVer83495_2190	RNA polymerase sigma factor RpoD
Prevotella veroralis	VBIPreVer83495_1347	Superoxide dismutase Fe EC 1.15.1.1
Prevotella veroralis	VBIPreVer83495_0689	thiol protease hemagglutinin PrtT precursor 2C putative
Prevotella veroralis	VBIPreVer83495_0355	TonB-dependent receptor
Prevotella veroralis	VBIPreVer83495_0103	Transcriptional regulatory protein rprY
Prevotella veroralis	VBIPreVer83495_1879	Transcriptional regulatory protein rprY
Prevotella veroralis	VBIPreVer83495_0818	Translation elongation factor Tu
Prevotella veroralis	VBIPreVer83495_0091	Two-component system sensor histidine kinase
Propionibacterium acnes	VBIProAcn138375_0754	Tyrosine-protein kinase Wzc EC 2.7.10.2
Propionibacterium acnes	VBIProAcn10541_0727	ABC transporter ATP-binding protein
Propionibacterium avidum	VBIProAvi182898_0456	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Propionibacterium avidum	VBIProAvi182898_1322	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Propionibacterium avidum	VBIProAvi182898_1763	ABC transporter 2C ATP-binding protein
Propionibacterium avidum	VBIProAvi182898_2001	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Propionibacterium avidum	VBIProAvi182898_1680	Transcriptional regulatory protein rprY
Propionibacterium propionicum	VBIProPro161471_1001	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Propionibacterium propionicum	VBIProPro161471_0042	Glutamine synthetase type I EC 6.3.1.2
Proteus mirabilis	VBIProMir120933_3122	Transcriptional regulator
Proteus mirabilis	VBIProMir120933_0269	8-amino-7-oxononanoate synthase EC 2.3.1.47
Proteus mirabilis	VBIProMir120933_1017	ABC transporter 2C ATP-binding permease protein
Proteus mirabilis	VBIProMir92659_3193	ABC transporter 2C ATP-binding permease protein
Proteus mirabilis	VBIProMir92659_2202	ABC transporter ATP-binding protein
Proteus mirabilis	VBIProMir92659_3013	Adenylate cyclase EC 4.6.1.1
		ATP synthase beta chain EC 3.6.3.14

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Proteus mirabilis	VBIProMir92659_0964	ATP synthase beta chain EC 3.6.3.14
Proteus mirabilis	VBIProMir92659_0356	Capsular polysaccharide biosynthesis protein capD
Proteus mirabilis	VBIProMir92659_1614	ClpB protein
Proteus mirabilis	VBIProMir120933_1582	Enolase EC 4.2.1.11
Proteus mirabilis	VBIProMir120933_1581	Ferrous iron transport protein B
Proteus mirabilis	VBIProMir92659_2203	Ferrous iron transport protein B
Proteus mirabilis	VBIProMir92659_0588	FKBP-type peptidyl-prolyl cis-trans isomerase fklB EC 5.2.1.8
Proteus mirabilis	VBIProMir92659_1246	GDP-L-fucose synthetase EC 1.1.1.271
Proteus mirabilis	VBIProMir92659_3158	Glutamine amidotransferase 2C class I
Proteus mirabilis	VBIProMir120933_2227	Hemolysins and related proteins containing CBS domains
Proteus mirabilis	VBIProMir92659_0722	Hyaluronidase
Proteus mirabilis	VBIProMir92659_2531	hypothetical protein
Proteus mirabilis	VBIProMir120933_2485	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Proteus mirabilis	VBIProMir92659_1222	mannosyltransferase
Proteus mirabilis	VBIProMir92659_1738	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Proteus mirabilis	VBIProMir92659_3009	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Proteus mirabilis	VBIProMir92659_1822	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Proteus mirabilis	VBIProMir92659_2934	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Proteus mirabilis	VBIProMir92659_2040	TonB-dependent receptor
Proteus mirabilis	VBIProMir92659_2469	TonB-dependent siderophore receptor
Proteus mirabilis	VBIProMir92659_1536	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Proteus mirabilis	VBIProMir120933_0087	UDP-glucose dehydrogenase EC 1.1.1.22
Proteus mirabilis	VBIProMir92659_1710	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Pseudomonas aeruginosa	VBIPseAer80442_5851	ABC transporter related
Pseudomonas aeruginosa	VBIPseAer79785_4683	ATP-dependent Clp protease ATP-binding subunit ClpA
Pseudomonas aeruginosa	VBIPseAer79785_5810	ClpB protein
Pseudomonas aeruginosa	VBIPseAer113719_5037	ClpB protein
Pseudomonas aeruginosa	VBIPseAer80442_1590	Enolase EC 4.2.1.11
Pseudomonas aeruginosa	VBIPseAer80442_1190	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrola
Pseudomonas aeruginosa	VBIPseAer80442_0363	Hyaluronidase
Pseudomonas aeruginosa	VBIPseAer113719_4360	Hyaluronidase
Pseudomonas aeruginosa	VBIPseAer113719_5040	hypothetical protein
Pseudomonas aeruginosa	VBIPseAer113719_0306	Lipid A export ATP-binding permease protein MsbA
Pseudomonas aeruginosa	VBIPseAer113719_1562	Lipid A export ATP-binding permease protein MsbA
Pseudomonas aeruginosa	VBIPseAer80442_1357	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Pseudomonas aeruginosa	VBIPseAer80442_1313	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Pseudomonas aeruginosa	VBIPseAer79785_4768	Translation elongation factor Tu
Pseudomonas aeruginosa	VBIPseAer80442_5546	UDP-glucose dehydrogenase EC 1.1.1.22
Pseudomonas fluorescens	VBIPseFlu72549_3701	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Pseudomonas fluorescens	VBIPseFlu98510_1055	Calcium-transporting ATPase
Pseudomonas fluorescens	VBIPseFlu98510_5390	Capsular polysaccharide biosynthesis protein capD
Pseudomonas fluorescens	VBIPseFlu72549_3244	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Pseudomonas fluorescens	VBIPseFlu72549_4993	GDP-L-fucose synthetase EC 1.1.1.271
Pseudomonas fluorescens	VBIPseFlu44242_0341	Glutamine amidotransferase 2C class I
Pseudomonas fluorescens	VBIPseFlu98510_1369	Glutamine synthetase type I EC 6.3.1.2
Pseudomonas fluorescens	VBIPseFlu72549_6211	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase II Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrola
Pseudomonas fluorescens	VBIPseFlu44242_4055	HtrA protease chaperone protein
Pseudomonas fluorescens	VBIPseFlu44242_1548	Lipid A export ATP-binding permease protein MsbA
Pseudomonas fluorescens	VBIPseFlu44242_0490	Lipid A export ATP-binding permease protein MsbA
Pseudomonas fluorescens	VBIPseFlu44242_5098	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Pseudomonas fluorescens	VBIPseFlu44242_5111	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Pseudomonas fluorescens	VBIPseFlu98510_4033	RNA polymerase sigma factor RpoD
Pseudomonas fluorescens	VBIPseFlu98510_4864	Serine protease
Pseudomonas fluorescens	VBIPseFlu98510_2392	Transcriptional regulator
Pseudomonas pseudoalcaligenes	VBIPsePse236901_5643	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Pseudomonas pseudoalcaligenes	VBIPsePse236901_2436	ATP synthase alpha chain EC 3.6.3.14
Pseudomonas pseudoalcaligenes	VBIPsePse236901_5464	Diaminopimelate decarboxylase EC 4.1.1.20
Pseudomonas pseudoalcaligenes	VBIPsePse236901_4123	Enolase EC 4.2.1.11
Pseudomonas pseudoalcaligenes	VBIPsePse236901_0399	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Pseudomonas pseudoalcaligenes	VBIPsePse236901_3260	RNA polymerase sigma factor RpoD
Pseudomonas pseudoalcaligenes	VBIPsePse236901_0226	Tyrosine-protein kinase Wzc EC 2.7.10.2
Pseudomonas pseudoalcaligenes	VBIPsePse236901_6292	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Pseudomonas stutzeri	VBIPseStu31643_1050	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Pseudomonas stutzeri	VBIPseStu31643_0758	DNA-binding response regulator 2C AraC family
Pseudomonas stutzeri	VBIPseStu31643_0770	FKBP-type peptidyl-prolyl cis-trans isomerase fklB EC 5.2.1.8
Pseudomonas stutzeri	VBIPseStu31643_3618	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Pseudomonas stutzeri	VBIPseStu31643_2673	UDP-glucose 4-epimerase EC 5.1.3.2
Pseudomonas stutzeri	VBIPseStu31643_1931	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Pseudoramibacter alactolyticus	VBIPseAla174371_0933	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Pseudoramibacter alactolyticus	VBIPseAla174371_1683	Phosphoglucomutase EC 5.4.2.2
Pyramidobacter piscolens	VBIPyrPis26956_1263	4-keto-6-deoxy-N-Acetyl-D-hexosaminy-Lipid carrier aminotransferase
Pyramidobacter piscolens	VBIPyrPis26956_0014	ATP-dependent Clp protease ATP-binding subunit ClpA
Pyramidobacter piscolens	VBIPyrPis26956_1285	Ferrous iron transport protein B
Pyramidobacter piscolens	VBIPyrPis26956_0944	Heat shock protein 60 family chaperone GroEL
Pyramidobacter piscolens	VBIPyrPis26956_0880	Hemolysins and related proteins containing CBS domains
Pyramidobacter piscolens	VBIPyrPis26956_1046	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Pyramidobacter piscolens	VBIPyrPis26956_0145	Pantoate--beta-alanine ligase EC 6.3.2.1
Pyramidobacter piscolens	VBIPyrPis26956_1980	putative capsular polysaccharide biosynthesis glycosyltransferase
Pyramidobacter piscolens	VBIPyrPis26956_0466	Transcriptional regulatory protein rprY

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Pyramidobacter piscicola	VBIPyrPis26956_1880	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Ralstonia pickettii	VBIRalPic57998_0080	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Rhodobacter capsulatus	VBIRhoCap134200_1049	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Rhodobacter capsulatus	VBIRhoCap134200_3014	ATP synthase alpha chain EC 3.6.3.14
Rhodobacter capsulatus	VBIRhoCap134200_2826	Glutamine synthetase type I EC 6.3.1.2
Rhodobacter capsulatus	VBIRhoCap134200_3684	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Rothia aeria	VBIRotAer232443_2188	3-methylmercaptopyruvate-CoA ligase DmdB
Rothia aeria	VBIRotAer232443_0236	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41
Rothia aeria	VBIRotAer232443_1044	ABC transport ATP-binding subunit
Rothia aeria	VBIRotAer232443_0680	ABC transporter 2C transmembrane region ABC transporter Peptidase C39 2C bacteriocin processing
Rothia aeria	VBIRotAer232443_1467	ABC transporter related protein
Rothia aeria	VBIRotAer232443_1718	Acetoacetyl-CoA synthetase EC 6.2.1.16 Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Rothia aeria	VBIRotAer232443_2001	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Rothia aeria	VBIRotAer232443_1499	ADP-heptose synthase EC 2.7.-.- D-glycero-beta-D-manno-heptose 7-phosphate kinase
Rothia aeria	VBIRotAer232443_0205	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Rothia aeria	VBIRotAer232443_1632	Alkanesulfonates ABC transporter ATP-binding protein Sulfonate ABC transporter 2C ATP-binding subunit SsuB
Rothia aeria	VBIRotAer232443_1889	Arabinose 5-phosphate isomerase EC 5.3.1.13
Rothia aeria	VBIRotAer232443_0030	ATP synthase alpha chain EC 3.6.3.14
Rothia aeria	VBIRotAer232443_0791	ATP synthase beta chain EC 3.6.3.14
Rothia aeria	VBIRotAer232443_0012	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Rothia aeria	VBIRotAer232443_0967	CFA I fimbrial minor adhesin
Rothia aeria	VBIRotAer232443_0230	Chemotaxis response regulator protein-glutamate methyltransferase CheB EC 3.1.1.61
Rothia aeria	VBIRotAer232443_0596	ClpB protein
Rothia aeria	VBIRotAer232443_2198	ClpB protein
Rothia aeria	VBIRotAer232443_1683	Dipeptide transport ATP-binding protein DppF TC 3.A.1.5.2
Rothia aeria	VBIRotAer232443_1466	Enolase EC 4.2.1.11
Rothia aeria	VBIRotAer232443_2050	FIG00959769 hypothetical protein
Rothia aeria	VBIRotAer232443_0082	Flagellar assembly protein FliH
Rothia aeria	VBIRotAer232443_1725	Flagellar hook protein FlgE
Rothia aeria	VBIRotAer232443_2115	Flagellar hook-associated protein FlgK
Rothia aeria	VBIRotAer232443_0080	Flagellar motor switch protein FlIG
Rothia aeria	VBIRotAer232443_1099	Flagellin protein FlaB
Rothia aeria	VBIRotAer232443_1379	General secretion pathway protein F Type II secretory pathway 2C component PulF
Rothia aeria	VBIRotAer232443_1573	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Rothia aeria	VBIRotAer232443_2117	Glutamate Aspartate transport ATP-binding protein GltL TC 3.A.1.3.4
Rothia aeria	VBIRotAer232443_0203	Glycosyl transferase family protein
Rothia aeria	VBIRotAer232443_0825	Glycosyltransferase EC 2.4.1.-
Rothia aeria	VBIRotAer232443_2197	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Rothia aeria	VBIRotAer232443_0040	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Rothia aeria	VBIRotAer232443_0182	Heat shock protein 60 family chaperone GroEL
Rothia aeria	VBIRotAer232443_1163	Heat shock protein 60 family chaperone GroEL
Rothia aeria	VBIRotAer232443_1378	Hemolysins and related proteins containing CBS domains
Rothia aeria	VBIRotAer232443_0706	Hexose phosphate uptake regulatory protein UhpC
Rothia aeria	VBIRotAer232443_1411	Histidine ABC transporter 2C ATP-binding protein TC 3.A.1
Rothia aeria	VBIRotAer232443_0058	Lipoate-protein ligase A
Rothia aeria	VBIRotAer232443_0524	Lipoate-protein ligase A
Rothia aeria	VBIRotAer232443_1357	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Rothia aeria	VBIRotAer232443_0041	Magnesium and cobalt efflux protein CorC
Rothia aeria	VBIRotAer232443_1060	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Rothia aeria	VBIRotAer232443_0337	Manganese ABC transporter 2C periplasmic-binding protein SitA
Rothia aeria	VBIRotAer232443_1174	Manganese superoxide dismutase EC 1.15.1.1
Rothia aeria	VBIRotAer232443_0940	Manganese superoxide dismutase EC 1.15.1.1
Rothia aeria	VBIRotAer232443_0789	Membrane-associated zinc metalloprotease
Rothia aeria	VBIRotAer232443_1717	Mg ²⁺ transport ATPase 2C P-type EC 3.6.3.2
Rothia aeria	VBIRotAer232443_1551	N-Acetylneuraminic acid cytidyltransferase EC 2.7.7.43
Rothia aeria	VBIRotAer232443_1397	N-butyryl-L-homoserine lactone quorum-sensing transcriptional activator Transcriptional regulator RhlR
Rothia aeria	VBIRotAer232443_1495	Nitrogen regulation protein NtrC
Rothia aeria	VBIRotAer232443_2201	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Rothia aeria	VBIRotAer232443_2202	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Rothia aeria	VBIRotAer232443_1310	Omega-amino acid--pyruvate aminotransferase EC 2.6.1.18
Rothia aeria	VBIRotAer232443_1088	Omega-amino acid--pyruvate aminotransferase EC 2.6.1.18
Rothia aeria	VBIRotAer232443_0788	Outer membrane protein assembly factor YaeT precursor
Rothia aeria	VBIRotAer232443_1656	Outer membrane receptor proteins 2C mostly Fe transport
Rothia aeria	VBIRotAer232443_1226	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Rothia aeria	VBIRotAer232443_1463	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Rothia aeria	VBIRotAer232443_1752	Phosphoglucosamine mutase EC 5.4.2.10
Rothia aeria	VBIRotAer232443_1907	Predicted secretion system X protein GspE-like
Rothia aeria	VBIRotAer232443_0302	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Rothia aeria	VBIRotAer232443_0871	Putative N-acetylgalactosaminyl-diphosphoundecaprenol glucuronosyltransferase
Rothia aeria	VBIRotAer232443_0045	Ribose operon repressor
Rothia aeria	VBIRotAer232443_0046	Secreted alkaline metalloproteinase EC 3.4.24.- 2C PrtA B C G homolog
Rothia aeria	VBIRotAer232443_0693	Secreted alkaline metalloproteinase EC 3.4.24.- 2C PrtA B C G homolog
Rothia aeria	VBIRotAer232443_1096	Sodium-type flagellar protein motY precursor
Rothia aeria	VBIRotAer232443_1631	Translation elongation factor Tu
Rothia aeria	VBIRotAer232443_2146	Translation elongation factor Tu
Rothia aeria	VBIRotAer232443_1597	Translation elongation factor Tu
Rothia aeria	VBIRotAer232443_2136	Translation elongation factor Tu
Rothia aeria	VBIRotAer232443_0790	Transposase ERLG 01310
Rothia aeria	VBIRotAer232443_1685	Two component 2C Sigma-54 Specific 2C central transcriptional regulator of acidic amino acid uptake

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Rothia aeria	VBIRotAer232443_1679	Two component 2C Sigma-54 Specific 2C central transcriptional regulator of acidic amino acid uptake
Rothia aeria	VBIRotAer232443_2184	Type IV fimbrial assembly 2C ATPase PilB
Rothia aeria	VBIRotAer232443_1145	Type IV fimbrial assembly protein PilC
Rothia aeria	VBIRotAer232443_1108	Type IV pilin PilA
Rothia aeria	VBIRotAer232443_1680	Type VI secretion lipoprotein VasD
Rothia aeria	VBIRotAer232443_0792	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Rothia aeria	VBIRotAer232443_1862	Uncharacterized protein ImpB
Rothia aeria	VBIRotAer232443_0591	Uncharacterized protein ImpJ VasE
Rothia aeria	VBIRotAer232443_0087	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Rothia aeria	VBIRotAer232443_1926	Urea carboxylase-related ABC transporter 2C ATPase protein
Rothia aeria	VBIRotAer232443_0768	Urease alpha subunit EC 3.5.1.5
Rothia dentocariosa	VBIRotDen115472_0490	2 2C3-dihydro-2 2C3-dihydroxybenzoate dehydrogenase EC 1.3.1.28 of siderophore biosynthesis
Rothia dentocariosa	VBIRotDen160907_0577	2 2C3-dihydro-2 2C3-dihydroxybenzoate dehydrogenase EC 1.3.1.28 of siderophore biosynthesis
Rothia dentocariosa	VBIRotDen115472_2058	2 2C3-dihydroxybenzoate-AMP ligase EC 2.7.7.58
Rothia dentocariosa	VBIRotDen160907_0925	2 2C3-dihydroxybenzoate-AMP ligase EC 2.7.7.58
Rothia dentocariosa	VBIRotDen160907_0304	2-keto-3-deoxy-D-arabino-heptulosonate-7- phosphate synthase II EC 2.5.1.54
Rothia dentocariosa	VBIRotDen115472_1161	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Rothia dentocariosa	VBIRotDen160907_0924	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Rothia dentocariosa	VBIRotDen160907_0690	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Rothia dentocariosa	VBIRotDen115472_0666	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Rothia dentocariosa	VBIRotDen160907_0405	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Rothia dentocariosa	VBIRotDen160907_0218	ABC transporter
Rothia dentocariosa	VBIRotDen160907_0972	ABC transporter
Rothia dentocariosa	VBIRotDen160907_1151	ABC transporter
Rothia dentocariosa	VBIRotDen160907_0597	ABC transporter 2C ATP-binding protein
Rothia dentocariosa	VBIRotDen115472_0694	ABC transporter 2C ATP-binding protein
Rothia dentocariosa	VBIRotDen115472_1537	ABC transporter ATP-binding protein
Rothia dentocariosa	VBIRotDen115472_1244	ABC transporter ATPase component
Rothia dentocariosa	VBIRotDen160907_1787	ABC transporter ATPase component
Rothia dentocariosa	VBIRotDen115472_0452	ABC transporter related
Rothia dentocariosa	VBIRotDen115472_0127	ABC transporter related
Rothia dentocariosa	VBIRotDen160907_1917	ABC transporter related
Rothia dentocariosa	VBIRotDen115472_1056	ABC transporter related
Rothia dentocariosa	VBIRotDen160907_1403	ABC transporter related
Rothia dentocariosa	VBIRotDen160907_0977	ABC-type Fe3+-siderophore transport system 2C permease component
Rothia dentocariosa	VBIRotDen115472_2026	ABC-type Fe3+-siderophore transport system 2C permease component
Rothia dentocariosa	VBIRotDen160907_0476	ABC-type multidrug transport system 2C ATPase component
Rothia dentocariosa	VBIRotDen115472_0625	ABC-type multidrug transport system 2C ATPase component
Rothia dentocariosa	VBIRotDen160907_0001	ABC-type multidrug transport system 2C ATPase component
Rothia dentocariosa	VBIRotDen160907_0052	acyltransferase 3
Rothia dentocariosa	VBIRotDen115472_0099	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Rothia dentocariosa	VBIRotDen115472_0744	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Rothia dentocariosa	VBIRotDen160907_1333	Aspartate racemase EC 5.1.1.13
Rothia dentocariosa	VBIRotDen115472_2124	Aspartate racemase EC 5.1.1.13
Rothia dentocariosa	VBIRotDen160907_0339	ATP synthase alpha chain EC 3.6.3.14
Rothia dentocariosa	VBIRotDen115472_0290	ATP synthase alpha chain EC 3.6.3.14
Rothia dentocariosa	VBIRotDen160907_0749	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Rothia dentocariosa	VBIRotDen115472_1902	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Rothia dentocariosa	VBIRotDen115472_0236	ATPase component NikO of energizing module of nickel ECF transporter
Rothia dentocariosa	VBIRotDen160907_0686	Branched-chain alpha-keto acid dehydrogenase 2C E1 component 2C beta subunit EC 1.2.4.4
Rothia dentocariosa	VBIRotDen115472_1415	capsular polysaccharide biosynthesis protein
Rothia dentocariosa	VBIRotDen160907_1697	capsular polysaccharide biosynthesis protein
Rothia dentocariosa	VBIRotDen160907_2122	Cell division protein FtsK
Rothia dentocariosa	VBIRotDen115472_1231	Cell division trigger factor EC 5.2.1.8
Rothia dentocariosa	VBIRotDen160907_0551	ClpB protein
Rothia dentocariosa	VBIRotDen115472_0963	COG1126 ABC-type polar amino acid transport system 2C ATPase component
Rothia dentocariosa	VBIRotDen160907_0497	COG1316 Transcriptional regulator
Rothia dentocariosa	VBIRotDen115472_2055	COG4779 ABC-type enterobactin transport system 2C permease component
Rothia dentocariosa	VBIRotDen160907_0973	COG4779 ABC-type enterobactin transport system 2C permease component
Rothia dentocariosa	VBIRotDen115472_0211	Conjugative transfer protein TrbB
Rothia dentocariosa	VBIRotDen160907_2124	cytochrome P450
Rothia dentocariosa	VBIRotDen115472_0270	DegT DnrJ EryC1 StrS aminotransferase family enzyme
Rothia dentocariosa	VBIRotDen160907_0317	Diaminopimelate decarboxylase EC 4.1.1.20
Rothia dentocariosa	VBIRotDen160907_1069	DNA-binding response regulator 2C LuxR family
Rothia dentocariosa	VBIRotDen115472_1352	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Rothia dentocariosa	VBIRotDen160907_1715	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Rothia dentocariosa	VBIRotDen115472_0089	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Rothia dentocariosa	VBIRotDen160907_1708	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Rothia dentocariosa	VBIRotDen115472_1505	Enolase EC 4.2.1.11
Rothia dentocariosa	VBIRotDen115472_0297	Ferric hydroxamate ABC transporter TC 3.A.1.14.3 2C ATP-binding protein FhuC
Rothia dentocariosa	VBIRotDen115472_2074	FIG01028652 hypothetical protein
Rothia dentocariosa	VBIRotDen115472_1947	FIG01028777 hypothetical protein
Rothia dentocariosa	VBIRotDen160907_2102	FIG01028860 hypothetical protein
Rothia dentocariosa	VBIRotDen160907_0190	FIG01028917 hypothetical protein
Rothia dentocariosa	VBIRotDen160907_0318	FIG01029014 hypothetical protein
Rothia dentocariosa	VBIRotDen160907_0820	FIG01029288 hypothetical protein
Rothia dentocariosa	VBIRotDen115472_1695	FIG01029288 hypothetical protein
Rothia dentocariosa	VBIRotDen160907_0475	FIG01029402 hypothetical protein
Rothia dentocariosa	VBIRotDen115472_0756	Gamma-aminobutyratealpha-ketoglutarate aminotransferase EC 2.6.1.19

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Rothia dentocariosa	VBIRotDen160907_1232	Glucose-6-phosphate isomerase EC 5.3.1.9
Rothia dentocariosa	VBIRotDen160907_0134	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Rothia dentocariosa	VBIRotDen115472_2182	Glutamine synthetase type I EC 6.3.1.2
Rothia dentocariosa	VBIRotDen160907_0905	glycosyl transferase 2C family 2
Rothia dentocariosa	VBIRotDen160907_0842	Glycosyl transferase 2C family 2
Rothia dentocariosa	VBIRotDen115472_1657	Glycosyl transferase 2C family 2
Rothia dentocariosa	VBIRotDen115472_0757	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Rothia dentocariosa	VBIRotDen115472_0496	Heat shock protein 60 family chaperone GroEL
Rothia dentocariosa	VBIRotDen160907_0593	Heat shock protein 60 family chaperone GroEL
Rothia dentocariosa	VBIRotDen115472_1943	Heme ABC transporter 2C cell surface heme and hemoprotein receptor HmuT
Rothia dentocariosa	VBIRotDen115472_0983	Hemolysins and related proteins containing CBS domains
Rothia dentocariosa	VBIRotDen160907_1102	Hemolysins and related proteins containing CBS domains
Rothia dentocariosa	VBIRotDen160907_1438	hypothetical protein
Rothia dentocariosa	VBIRotDen160907_2144	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Rothia dentocariosa	VBIRotDen115472_0483	Isochorismate synthase EC 5.4.4.2
Rothia dentocariosa	VBIRotDen160907_0552	Isochorismate synthase EC 5.4.4.2
Rothia dentocariosa	VBIRotDen115472_1915	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Rothia dentocariosa	VBIRotDen160907_0813	Lead 2C cadmium 2C zinc and mercury transporting ATPase EC 3.6.3.3 EC 3.6.3.5 3B Copper-translocating P-type ATP:
Rothia dentocariosa	VBIRotDen160907_1575	Lipid A export ATP-binding permease protein MsbA
Rothia dentocariosa	VBIRotDen115472_1952	Lipid A export ATP-binding permease protein MsbA
Rothia dentocariosa	VBIRotDen115472_0509	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Rothia dentocariosa	VBIRotDen160907_0718	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Rothia dentocariosa	VBIRotDen115472_0763	Magnesium and cobalt efflux protein CorC
Rothia dentocariosa	VBIRotDen115472_1741	Manganese ABC transporter 2C ATP-binding protein SitB
Rothia dentocariosa	VBIRotDen160907_0787	Manganese ABC transporter 2C inner membrane permease protein SitD
Rothia dentocariosa	VBIRotDen115472_1790	Manganese ABC transporter 2C inner membrane permease protein SitD
Rothia dentocariosa	VBIRotDen160907_2055	Manganese ABC transporter 2C inner membrane permease protein SitD
Rothia dentocariosa	VBIRotDen160907_0050	Manganese ABC transporter 2C inner membrane permease protein SitD
Rothia dentocariosa	VBIRotDen115472_1709	Manganese ABC transporter 2C periplasmic-binding protein SitA
Rothia dentocariosa	VBIRotDen115472_1506	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Rothia dentocariosa	VBIRotDen115472_0986	Mannose-6-phosphate isomerase EC 5.3.1.8
Rothia dentocariosa	VBIRotDen115472_0502	Methionine ABC transporter ATP-binding protein
Rothia dentocariosa	VBIRotDen160907_0614	Methionine ABC transporter ATP-binding protein
Rothia dentocariosa	VBIRotDen160907_1686	N-acetylneuraminate synthase EC 2.5.1.56
Rothia dentocariosa	VBIRotDen115472_1445	N-acetylneuraminate synthase EC 2.5.1.56
Rothia dentocariosa	VBIRotDen160907_0814	NADPH-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.13
Rothia dentocariosa	VBIRotDen115472_1706	NADPH-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.13
Rothia dentocariosa	VBIRotDen115472_1095	Nitrate nitrite transporter
Rothia dentocariosa	VBIRotDen115472_1142	Nitrate nitrite transporter
Rothia dentocariosa	VBIRotDen160907_0394	Nucleoside 5-triphosphatase RdgB dHAPT 2C dITP 2C XTP-specific EC 3.6.1.15
Rothia dentocariosa	VBIRotDen160907_0026	Nucleoside 5-triphosphatase RdgB dHAPT 2C dITP 2C XTP-specific EC 3.6.1.15
Rothia dentocariosa	VBIRotDen115472_0040	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Rothia dentocariosa	VBIRotDen115472_0469	Osmosensitive K+ channel histidine kinase KdpD EC 2.7.3.-
Rothia dentocariosa	VBIRotDen115472_1899	Pantoate--beta-alanine ligase EC 6.3.2.1
Rothia dentocariosa	VBIRotDen115472_1708	Para-aminobenzoate synthase 2C amidotransferase component EC 2.6.1.85 Para-aminobenzoate synthase 2C aminase
Rothia dentocariosa	VBIRotDen115472_0987	Phosphate regulon transcriptional regulatory protein PhoB SphR
Rothia dentocariosa	VBIRotDen115472_2122	Phosphoglucosamine mutase EC 5.4.2.10
Rothia dentocariosa	VBIRotDen115472_2098	Polyphosphate kinase 2 EC 2.7.4.1
Rothia dentocariosa	VBIRotDen160907_1773	Polysaccharide biosynthesis protein CpsF
Rothia dentocariosa	VBIRotDen115472_1331	Polysaccharide biosynthesis protein CpsF
Rothia dentocariosa	VBIRotDen115472_1217	Prolipoprotein diacylglyceryl transferase EC 2.4.99.-
Rothia dentocariosa	VBIRotDen160907_0455	Prolipoprotein diacylglyceryl transferase EC 2.4.99.-
Rothia dentocariosa	VBIRotDen160907_0146	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Rothia dentocariosa	VBIRotDen160907_1404	putative ABC transporter ATP-binding protein
Rothia dentocariosa	VBIRotDen160907_1242	putative ABC transporter ATP-binding protein
Rothia dentocariosa	VBIRotDen115472_1912	putative ABC transporter ATP-binding protein
Rothia dentocariosa	VBIRotDen115472_1005	putative ABC transporter ATP-binding protein
Rothia dentocariosa	VBIRotDen115472_0107	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Rothia dentocariosa	VBIRotDen160907_1177	putative glutamate uptake system ATP-binding protein
Rothia dentocariosa	VBIRotDen115472_1330	putative protein phosphatase
Rothia dentocariosa	VBIRotDen160907_2129	putative two-component system response regulator
Rothia dentocariosa	VBIRotDen115472_1999	putative two-component system response regulator
Rothia dentocariosa	VBIRotDen160907_1405	Pyrraline-5-carboxylate reductase EC 1.5.1.2
Rothia dentocariosa	VBIRotDen115472_1514	Pyrraline-5-carboxylate reductase EC 1.5.1.2
Rothia dentocariosa	VBIRotDen160907_0735	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Rothia dentocariosa	VBIRotDen115472_0516	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Rothia dentocariosa	VBIRotDen115472_1057	Respiratory nitrate reductase beta chain EC 1.7.99.4
Rothia dentocariosa	VBIRotDen160907_1393	Respiratory nitrate reductase delta chain EC 1.7.99.4
Rothia dentocariosa	VBIRotDen115472_1077	Respiratory nitrate reductase delta chain EC 1.7.99.4
Rothia dentocariosa	VBIRotDen115472_1078	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Rothia dentocariosa	VBIRotDen160907_1352	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Rothia dentocariosa	VBIRotDen115472_0453	Response regulator receiverTranscriptional regulatory protein 2C C- terminal
Rothia dentocariosa	VBIRotDen115472_1172	RNA binding methyltransferase FtsJ like
Rothia dentocariosa	VBIRotDen160907_0267	RNA binding methyltransferase FtsJ like
Rothia dentocariosa	VBIRotDen115472_0100	RNA polymerase sigma factor RpoD
Rothia dentocariosa	VBIRotDen115472_0985	RNA polymerase sigma-54 factor RpoN
Rothia dentocariosa	VBIRotDen160907_0029	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Rothia dentocariosa	VBIRotDen160907_0135	Sensor histidine kinase MtrB EC 2.7.3.-
Rothia dentocariosa	VBIRotDen160907_1175	Sensor histidine kinase MtrB EC 2.7.3.-

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Rothia dentocariosa	VBIRotDen115472_0423	Serine threonine phosphatase PPP EC 3.1.3.16
Rothia dentocariosa	VBIRotDen160907_1869	Serine threonine phosphatase PPP EC 3.1.3.16
Rothia dentocariosa	VBIRotDen160907_1829	Serine threonine-protein kinase PknA EC 2.7.11.1
Rothia dentocariosa	VBIRotDen115472_0004	Sulfate and thiosulfate import ATP-binding protein CysA EC 3.6.3.25
Rothia dentocariosa	VBIRotDen160907_1876	Superoxide dismutase Mn EC 1.15.1.1
Rothia dentocariosa	VBIRotDen115472_0197	Translation elongation factor Tu
Rothia dentocariosa	VBIRotDen115472_1630	two-component system response regulator
Rothia dentocariosa	VBIRotDen160907_1104	type II secretion system protein E
Rothia dentocariosa	VBIRotDen160907_0259	type II secretion system protein E
Rothia dentocariosa	VBIRotDen160907_0193	UDP-galactopyranose mutase EC 5.4.99.9
Rothia dentocariosa	VBIRotDen160907_0068	UDP-glucose 4-epimerase EC 5.1.3.2
Rothia dentocariosa	VBIRotDen160907_0319	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Rothia dentocariosa	VBIRotDen115472_2183	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Rothia dentocariosa	VBIRotDen160907_1101	Uncharacterized protein Rv1841c MT1889
Rothia dentocariosa	VBIRotDen160907_0546	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Rothia dentocariosa	VBIRotDen115472_1485	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Rothia dentocariosa	VBIRotDen115472_2123	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Rothia dentocariosa	VBIRotDen160907_0105	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Rothia dentocariosa	VBIRotDen160907_1176	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Rothia dentocariosa	VBIRotDen160907_1325	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Rothia mucilaginosa	VBIRotMuc152186_0272	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Rothia mucilaginosa	VBIRotMuc23969_1467	Aspartate racemase EC 5.1.1.13
Rothia mucilaginosa	VBIRotMuc23969_0759	DNA-binding response regulator mtrA
Rothia mucilaginosa	VBIRotMuc23969_0747	FIG01028917 hypothetical protein
Rothia mucilaginosa	VBIRotMuc152186_0043	FIG01029383 hypothetical protein
Rothia mucilaginosa	VBIRotMuc23969_0999	Glucose-6-phosphate isomerase EC 5.3.1.9
Rothia mucilaginosa	VBIRotMuc23969_0866	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Rothia mucilaginosa	VBIRotMuc152186_0388	Heme ABC transporter 2C ATPase component HmuV
Rothia mucilaginosa	VBIRotMuc152186_0995	Heme ABC transporter 2C cell surface heme and hemoprotein receptor HmuT
Rothia mucilaginosa	VBIRotMuc152186_0402	Heme ABC transporter 2C permease protein HmuU
Rothia mucilaginosa	VBIRotMuc23969_0164	Hemolysins and related proteins containing CBS domains
Rothia mucilaginosa	VBIRotMuc152186_0387	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Rothia mucilaginosa	VBIRotMuc152186_1505	Osmosensitive K+ channel histidine kinase KdpD EC 2.7.3.-
Rothia mucilaginosa	VBIRotMuc152186_1506	Phosphate regulon transcriptional regulatory protein PhoB SphR
Rothia mucilaginosa	VBIRotMuc23969_1521	Polyphosphate kinase 2 EC 2.7.4.1
Rothia mucilaginosa	VBIRotMuc23969_1102	putative ABC transporter ATP-binding protein
Rothia mucilaginosa	VBIRotMuc23969_0955	putative glutamate uptake system ATP-binding protein
Rothia mucilaginosa	VBIRotMuc23969_1160	putative two-component system response regulator
Rothia mucilaginosa	VBIRotMuc23969_0022	RNA polymerase sigma factor RpoD
Rothia mucilaginosa	VBIRotMuc23969_0327	RNA polymerase sigma-54 factor RpoN
Rothia mucilaginosa	VBIRotMuc23969_1624	Translation elongation factor Tu
Rothia mucilaginosa	VBIRotMuc23969_0423	UDP-galactopyranose mutase EC 5.4.99.9
Rothia mucilaginosa	VBIRotMuc23969_0870	UDP-glucose 4-epimerase EC 5.1.3.2
Rothia mucilaginosa	VBIRotMuc23969_1510	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Sanguibacter keddieii	VBISanKed123513_3230	ABC transporter ATP-binding protein
Sanguibacter keddieii	VBISanKed123513_3105	ABC transporter related
Sanguibacter keddieii	VBISanKed123513_2388	Respiratory nitrate reductase beta chain EC 1.7.99.4
Sanguibacter keddieii	VBISanKed123513_1513	Respiratory nitrate reductase delta chain EC 1.7.99.4
Sanguibacter keddieii	VBISanKed123513_0962	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Scardovia inopinata	VBIScaIno39905_0886	FIG01028777 hypothetical protein
Scardovia inopinata	VBIScaIno39905_0278	hypothetical protein
Scardovia inopinata	VBIScaIno39905_0387	Lipid A export ATP-binding permease protein MsbA
Scardovia inopinata	VBIScaIno39905_0901	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Scardovia inopinata	VBIScaIno39905_0234	putative ABC transporter ATP-binding protein
Scardovia inopinata	VBIScaIno39905_1125	Response regulator receiver/Transcriptional regulatory protein 2C C- terminal
Scardovia wiggisiae	VBIScaWig164405_0832	2 2C3-dihydro-2 2C3-dihydroxybenzoate dehydrogenase EC 1.3.1.28 of siderophore biosynthesis
Scardovia wiggisiae	VBIScaWig164405_0987	ABC transporter 2C ATP-binding protein
Scardovia wiggisiae	VBIScaWig164405_1046	Branched-chain alpha-keto acid dehydrogenase 2C E1 component 2C beta subunit EC 1.2.4.4
Scardovia wiggisiae	VBIScaWig164405_0443	Isochorismate synthase EC 5.4.4.2
Selenomonas artemidis	VBISelArt149184_0658	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Selenomonas artemidis	VBISelArt149184_1889	Pyruvate dehydrogenase E1 component beta subunit EC 1.2.4.1
Selenomonas flueggei	VBISelFlu67833_1981	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Selenomonas noxia	VBISelNox155289_1613	ABC transporter 2C ATP-binding protein
Selenomonas noxia	VBISelNox28994_0710	ABC-type Fe3+-siderophore transport system 2C permease component
Selenomonas noxia	VBISelNox28994_1333	capsular polysaccharide biosynthesis protein
Selenomonas noxia	VBISelNox28994_1106	COG1120 ABC-type cobalamin Fe3+-siderophores transport systems 2C ATPase components
Selenomonas noxia	VBISelNox28994_1346	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Selenomonas noxia	VBISelNox28994_1166	Enolase EC 4.2.1.11
Selenomonas noxia	VBISelNox28994_0678	FIG01028860 hypothetical protein
Selenomonas noxia	VBISelNox155289_0673	FIG01029288 hypothetical protein
Selenomonas noxia	VBISelNox28994_0718	FIG01029383 hypothetical protein
Selenomonas noxia	VBISelNox28994_1345	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Selenomonas noxia	VBISelNox155289_1080	glycosyl transferase 2C family 2
Selenomonas noxia	VBISelNox155289_0837	Glycosyl transferase 2C family 2
Selenomonas noxia	VBISelNox28994_0742	Heme ABC transporter 2C ATPase component HmuV
Selenomonas noxia	VBISelNox28994_0911	Heme ABC transporter 2C cell surface heme and hemoprotein receptor HmuT
Selenomonas noxia	VBISelNox28994_0706	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Selenomonas noxia	VBISelNox28994_0719	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Selenomonas noxia	VBISelNox28994_1569	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3

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Selenomonas noxia	VBISelNox28994_1899	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Selenomonas noxia	VBISelNox28994_1737	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Selenomonas noxia	VBISelNox28994_1562	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Selenomonas noxia	VBISelNox28994_1529	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Selenomonas noxia	VBISelNox155289_0192	Manganese ABC transporter 2C inner membrane permease protein SitD
Selenomonas noxia	VBISelNox28994_0216	Manganese ABC transporter 2C inner membrane permease protein SitD
Selenomonas noxia	VBISelNox28994_1108	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Selenomonas noxia	VBISelNox28994_1326	N-acetylneuraminate synthase EC 2.5.1.56
Selenomonas noxia	VBISelNox28994_0942	Osmosensitive K+ channel histidine kinase KdpD EC 2.7.3.-
Selenomonas noxia	VBISelNox155289_1449	Osmosensitive K+ channel histidine kinase KdpD EC 2.7.3.-
Selenomonas noxia	VBISelNox155289_0108	Pantoate--beta-alanine ligase EC 6.3.2.1
Selenomonas noxia	VBISelNox155289_0345	Para-aminobenzoate synthase 2C amidotransferase component EC 2.6.1.85
Selenomonas noxia	VBISelNox28994_1432	Polysaccharide biosynthesis protein CpsF
Selenomonas noxia	VBISelNox155289_0274	putative ABC transporter ATP-binding protein
Selenomonas noxia	VBISelNox28994_0681	putative two-component system response regulator
Selenomonas noxia	VBISelNox155289_1725	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Selenomonas noxia	VBISelNox155289_1926	Serine threonine-protein kinase PknA EC 2.7.11.1
Selenomonas noxia	VBISelNox28994_1280	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Selenomonas noxia	VBISelNox28994_0660	Zinc ABC transporter 2C ATP-binding protein ZnuC
Selenomonas sp. oral taxon 137	VBISelSp169704_0964	ABC-type multidrug transport system 2C ATPase component
Selenomonas sp. oral taxon 137	VBISelSp169704_0435	ATP synthase alpha chain EC 3.6.3.14
Selenomonas sp. oral taxon 137	VBISelSp169704_0434	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Selenomonas sp. oral taxon 137	VBISelSp169704_1468	Nucleoside 5-triphosphatase RdgB dHAPT 2C dITP 2C XTP-specific EC 3.6.1.15
Selenomonas sp. oral taxon 149	VBISelSp164981_1958	2 2C3-dihydroxybenzoate-AMP ligase EC 2.7.7.58
Selenomonas sp. oral taxon 149	VBISelSp164981_1907	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Selenomonas sp. oral taxon 149	VBISelSp164981_1775	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Selenomonas sp. oral taxon 149	VBISelSp164981_2113	ABC transporter
Selenomonas sp. oral taxon 149	VBISelSp164981_1903	Cell division trigger factor EC 5.2.1.8
Selenomonas sp. oral taxon 149	VBISelSp164981_1882	COG1316 Transcriptional regulator
Selenomonas sp. oral taxon 149	VBISelSp164981_2121	FIG01029217 hypothetical protein
Selenomonas sp. oral taxon 149	VBISelSp164981_1901	Magnesium and cobalt efflux protein CorC
Selenomonas sp. oral taxon 149	VBISelSp164981_1823	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Selenomonas sp. oral taxon 149	VBISelSp164981_1808	Prolipoprotein diacylglycerol transferase EC 2.4.99.-
Selenomonas sp. oral taxon 149	VBISelSp164981_0377	Transport ATP-binding protein CydCD
Selenomonas sp. oral taxon 149	VBISelSp164981_1899	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Selenomonas sputigena	VBISelSpu76100_1994	ABC transporter
Selenomonas sputigena	VBISelSpu76100_2239	ATP-dependent Clp protease 2C ATP-binding subunit ClpC Negative regulator of genetic competence clcC mecB
Selenomonas sputigena	VBISelSpu76100_0160	DNA-binding response regulator 2C LuxR family
Selenomonas sputigena	VBISelSpu76100_0177	glycosyl transferase 2C family 2
Selenomonas sputigena	VBISelSpu76100_0179	Lipid A export ATP-binding permease protein MsbA
Selenomonas sputigena	VBISelSpu76100_1713	Mannose-6-phosphate isomerase EC 5.3.1.8
Selenomonas sputigena	VBISelSpu76100_1729	Phosphomannomutase EC 5.4.2.8
Selenomonas sputigena	VBISelSpu76100_0187	Respiratory nitrate reductase alpha chain EC 1.7.99.4
Selenomonas sputigena	VBISelSpu76100_0674	Respiratory nitrate reductase beta chain EC 1.7.99.4
Selenomonas sputigena	VBISelSpu76100_0912	Translation elongation factor Tu
Selenomonas sputigena	VBISelSpu76100_1046	Vitamin B12 ABC transporter 2C permease component BtuC
Shuttleworthia satelles	VBIShuSat84517_0293	ABC-type multidrug transport system 2C ATPase component
Shuttleworthia satelles	VBIShuSat84517_1407	Lipid A export ATP-binding permease protein MsbA
Shuttleworthia satelles	VBIShuSat84517_0392	S-ribosylhomocysteine lyase EC 4.4.1.21 Autoinducer-2 production protein LuxS
Simonsiella muelleri	VBISimMue52162_0391	Flp pilus assembly protein 2C ATPase CpaF
Simonsiella muelleri	VBISimMue52162_2173	Glutamine synthetase type I EC 6.3.1.2
Simonsiella muelleri	VBISimMue52162_2519	Magnesium and cobalt efflux protein CorC
Simonsiella muelleri	VBISimMue52162_1703	Nitrate nitrite transporter
Simonsiella muelleri	VBISimMue52162_1490	Respiratory nitrate reductase beta chain EC 1.7.99.4
Simonsiella muelleri	VBISimMue52162_1975	UDP-glucose 4-epimerase EC 5.1.3.2
Simonsiella muelleri	VBISimMue52162_1727	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Slackia exigua	VBISlaExi87248_0113	acyltransferase 3
Slackia exigua	VBISlaExi87248_0665	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Slackia exigua	VBISlaExi87248_0474	COG1316 Transcriptional regulator
Slackia exigua	VBISlaExi87248_1268	Diaminopimelate decarboxylase EC 4.1.1.20
Slackia exigua	VBISlaExi87248_1312	Response regulator receiver Transcriptional regulatory protein 2C C- terminal
Slackia exigua	VBISlaExi87248_1785	Two-component system 2C sensor protein
Slackia exigua	VBISlaExi87248_0282	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Staphylococcus aureus	VBIStaAur127832_2042	1 2C4-beta-N-acetylmuramidase
Staphylococcus aureus	VBIStaAur163139_2087	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Staphylococcus aureus	VBIStaAur163139_0301	Cell division trigger factor EC 5.2.1.8
Staphylococcus aureus	VBIStaAur163139_1537	Chemotaxis protein CheV EC 2.7.3.-
Staphylococcus aureus	VBIStaAur165978_0767	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Staphylococcus aureus	VBIStaAur163139_1707	Cytochrome c heme lyase subunit CcmF
Staphylococcus aureus	VBIStaAur165978_1857	Flagellar hook protein FlgE
Staphylococcus aureus	VBIStaAur165978_1099	Flagellar hook protein FlgE
Staphylococcus aureus	VBIStaAur163139_1077	Flagellar hook protein FlgE
Staphylococcus aureus	VBIStaAur163139_1096	Flagellar hook protein FlgE
Staphylococcus aureus	VBIStaAur165978_0596	Flagellar M-ring protein FlilF
Staphylococcus aureus	VBIStaAur165978_2362	Flagellar motor rotation protein MotB
Staphylococcus aureus	VBIStaAur163139_2553	Flagellum-specific ATP synthase FliI
Staphylococcus aureus	VBIStaAur127832_1059	FUPA23 P-type ATPase
Staphylococcus aureus	VBIStaAur163139_0888	Heat shock protein 60 family chaperone GroEL
Staphylococcus aureus	VBIStaAur163139_2348	Heat shock protein 60 family chaperone GroEL

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Staphylococcus aureus	VBIStaAur127832_0422	Hemolysins and related proteins containing CBS domains
Staphylococcus aureus	VBIStaAur163139_2329	hypothetical protein
Staphylococcus aureus	VBIStaAur127832_0899	Methionine ABC transporter ATP-binding protein
Staphylococcus aureus	VBIStaAur127832_2608	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Staphylococcus aureus	VBIStaAur163139_1595	NLP P60
Staphylococcus aureus	VBIStaAur165978_0701	Positive regulator of CheA protein activity CheW
Staphylococcus aureus	VBIStaAur127832_1040	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Staphylococcus aureus	VBIStaAur127832_1276	putative ABC transporter ATP-binding protein
Staphylococcus aureus	VBIStaAur163139_2078	Radical SAM family protein HutW 2C similar to coproporphyrinogen III oxidase 2C oxygen-independent 2C associated with
Staphylococcus aureus	VBIStaAur127832_1192	RNA polymerase sigma factor RpoD
Staphylococcus aureus	VBIStaAur163139_1810	TonB-dependent receptor
Staphylococcus aureus	VBIStaAur127832_0507	Translation elongation factor Tu
Staphylococcus aureus	VBIStaAur127832_1812	Translation elongation factor Tu
Staphylococcus aureus	VBIStaAur163139_1118	Translation elongation factor Tu
Staphylococcus aureus	VBIStaAur163139_0312	Transport ATP-binding protein CydC
Staphylococcus aureus	VBIStaAur163139_2010	UDP-glucose 4-epimerase EC 5.1.3.2
Staphylococcus aureus	VBIStaAur127832_2549	Vitamin B12 ABC transporter 2C ATPase component BtuD
Staphylococcus caprae	VBIStaCap114454_1643	Flagellar motor switch protein FlIM
Staphylococcus epidermidis	VBIStaEpi34063_1020	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Staphylococcus warneri	VBIStaWar127182_1987	Enolase EC 4.2.1.11
Staphylococcus warneri	VBIStaWar127182_0805	Flagellar biosynthesis protein FlhA
Staphylococcus warneri	VBIStaWar127182_0185	Flagellar biosynthesis protein FlhP
Staphylococcus warneri	VBIStaWar127182_0824	Heat shock protein 60 family chaperone GroEL
Staphylococcus warneri	VBIStaWar127182_1133	Phosphomannomutase EC 5.4.2.8
Stenotrophomonas maltophilia	VBISteMal45202_3983	Chemotaxis protein methyltransferase CheR EC 2.1.1.80
Stenotrophomonas maltophilia	VBISteMal45202_3449	Flagellar basal-body rod protein FlgC
Stenotrophomonas maltophilia	VBISteMal45202_2607	Flagellar motor rotation protein MotA
Stenotrophomonas maltophilia	VBISteMal40512_3668	Large exoproteins involved in heme utilization or adhesion
Stenotrophomonas maltophilia	VBISteMal40512_2480	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Stenotrophomonas maltophilia	VBISteMal40512_0572	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Stenotrophomonas maltophilia	VBISteMal45202_3651	Signal transduction histidine kinase CheA EC 2.7.3.-
Stenotrophomonas sp.	VBISteSp70125_1734	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Stenotrophomonas sp.	VBISteSp70125_2066	GDP-L-fucose synthetase EC 1.1.1.271
Stenotrophomonas sp.	VBISteSp70125_1188	Transcriptional coregulator CytR
Streptococcus agalactiae	VBIStrAga3577_1406	ABC transporter 2C ATP-binding protein
Streptococcus agalactiae	VBIStrAga3577_0989	ADP-L-glycero-D-manno-heptose-6-epimerase EC 5.1.3.20
Streptococcus agalactiae	VBIStrAga70477_0088	ATP-dependent protease ATP-binding subunit clpL
Streptococcus agalactiae	VBIStrAga82541_1014	ATP-dependent protease ATP-binding subunit clpL
Streptococcus agalactiae	VBIStrAga70477_1440	Cell division trigger factor EC 5.2.1.8
Streptococcus agalactiae	VBIStrAga70477_0315	Cell division trigger factor EC 5.2.1.8
Streptococcus agalactiae	VBIStrAga82541_1287	Clumping factor ClfB 2C fibrinogen binding protein
Streptococcus agalactiae	VBIStrAga70477_0554	Clumping factor ClfB 2C fibrinogen binding protein
Streptococcus agalactiae	VBIStrAga82541_1267	Clumping factor ClfB 2C fibrinogen binding protein
Streptococcus agalactiae	VBIStrAga70477_0491	Clumping factor ClfB 2C fibrinogen binding protein
Streptococcus agalactiae	VBIStrAga82541_1554	Collagen binding protein Cna
Streptococcus agalactiae	VBIStrAga72745_1171	Collagen binding protein Cna
Streptococcus agalactiae	VBIStrAga82541_1410	Collagen binding protein Cna
Streptococcus agalactiae	VBIStrAga57283_1742	Cytochrome c heme lyase subunit CcmF
Streptococcus agalactiae	VBIStrAga70477_0903	Extracellular adherence protein of broad specificity Eap Map
Streptococcus agalactiae	VBIStrAga72745_1313	Fibronectin binding protein FnbB
Streptococcus agalactiae	VBIStrAga82541_1713	FtsK SpoIIIE family protein 2C putative secretion system component EssC YukA
Streptococcus agalactiae	VBIStrAga70477_1276	FtsK SpoIIIE family protein 2C putative secretion system component EssC YukA
Streptococcus agalactiae	VBIStrAga72745_1774	Gamma-hemolysin component C
Streptococcus agalactiae	VBIStrAga70477_1192	Heme efflux system ATPase HrtA
Streptococcus agalactiae	VBIStrAga82541_0645	Histidine kinase of the competence regulon ComD
Streptococcus agalactiae	VBIStrAga70477_0559	Histidine kinase of the competence regulon ComD
Streptococcus agalactiae	VBIStrAga57283_2043	hypothetical protein
Streptococcus agalactiae	VBIStrAga57283_1247	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Streptococcus agalactiae	VBIStrAga3577_1387	Magnesium and cobalt efflux protein CorC
Streptococcus agalactiae	VBIStrAga3577_0649	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Streptococcus agalactiae	VBIStrAga3577_1974	N-acetylneuraminase synthase EC 2.5.1.56
Streptococcus agalactiae	VBIStrAga57283_1520	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Streptococcus agalactiae	VBIStrAga70477_1426	NADPH-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.13
Streptococcus agalactiae	VBIStrAga70477_1796	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Streptococcus agalactiae	VBIStrAga70477_0948	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Streptococcus agalactiae	VBIStrAga70477_1951	Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Streptococcus agalactiae	VBIStrAga3577_1508	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Streptococcus agalactiae	VBIStrAga70477_1822	Putative O-acetyltransferase SAS0844 EC 2.3.1.-
Streptococcus agalactiae	VBIStrAga70477_1509	putative permease
Streptococcus agalactiae	VBIStrAga72745_0628	Putative secretion system component EssB YukC
Streptococcus agalactiae	VBIStrAga82541_1969	Putative Staphylococcal surface anchored protein
Streptococcus agalactiae	VBIStrAga82541_1738	Putative Staphylococcal surface anchored protein
Streptococcus agalactiae	VBIStrAga82541_1752	Putative Staphylococcal surface anchored protein
Streptococcus agalactiae	VBIStrAga82541_1757	Putative Staphylococcal surface anchored protein
Streptococcus agalactiae	VBIStrAga82541_1787	Putative Staphylococcal surface anchored protein
Streptococcus agalactiae	VBIStrAga41311_0013	RNA polymerase sigma factor RpoH
Streptococcus agalactiae	VBIStrAga70477_0224	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Streptococcus agalactiae	VBIStrAga70477_1272	Staphylocoagulase
Streptococcus agalactiae	VBIStrAga72745_0672	Staphylocoagulase

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Streptococcus agalactiae	VBIStrAga3577_1790	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Streptococcus agalactiae	VBIStrAga41311_0801	TonB-dependent hemin 2C ferrichrome receptor
Streptococcus agalactiae	VBIStrAga41311_0545	Translation elongation factor Tu
Streptococcus agalactiae	VBIStrAga57283_1713	Translation elongation factor Tu
Streptococcus agalactiae	VBIStrAga70477_0188	Translation elongation factor Tu
Streptococcus agalactiae	VBIStrAga57283_1708	Transport ATP-binding protein CydC
Streptococcus agalactiae	VBIStrAga70477_0084	Transport ATP-binding protein CydD
Streptococcus agalactiae	VBIStrAga72745_1414	Transport ATP-binding protein CydD
Streptococcus agalactiae	VBIStrAga57283_1040	Type IV pilin PIIA
Streptococcus agalactiae	VBIStrAga57283_1098	Tyrosine-protein kinase Wzc EC 2.7.10.2
Streptococcus agalactiae	VBIStrAga72745_1170	UDP-glucose 4-epimerase EC 5.1.3.2
Streptococcus agalactiae	VBIStrAga82541_0514	Uncharacterized siderophore biosynthesis protein near heme transporter HtsABC Siderophore synthetase superfamily 2C
Streptococcus australis	VBIStrAus172715_0874	Putative Staphylococcal surface anchored protein
Streptococcus australis	VBIStrAus172715_0935	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_0313	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_0929	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_1367	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_1230	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_0752	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_0751	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_0552	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_0644	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_1215	Putative Staphylococcal surface anchored protein
Streptococcus cristatus	VBIStrCri174845_0309	Putative Staphylococcal surface anchored protein
Streptococcus downei	VBIStrDow169691_1096	Putative Staphylococcal surface anchored protein
Streptococcus downei	VBIStrDow169691_1046	Putative Staphylococcal surface anchored protein
Streptococcus downei	VBIStrDow169691_0264	Putative Staphylococcal surface anchored protein
Streptococcus gordonii	VBIStrGor124371_1718	Bifunctional autolysin Atl N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28 endo-beta-N-acetylglucosaminidase EC 3.2.1.17
Streptococcus gordonii	VBIStrGor124371_0944	Putative O-acetyltransferase SAS0844 EC 2.3.1.-
Streptococcus gordonii	VBIStrGor124371_0566	Putative Staphylococcal surface anchored protein
Streptococcus gordonii	VBIStrGor124371_1288	Urease alpha subunit EC 3.5.1.5
Streptococcus intermedius	VBIStrInt27041_1679	2-amino-3-ketobutyrate coenzyme A ligase EC 2.3.1.29
Streptococcus intermedius	VBIStrInt27041_1617	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Streptococcus intermedius	VBIStrInt27041_1227	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Streptococcus intermedius	VBIStrInt27041_0354	Urease gamma subunit EC 3.5.1.5
Streptococcus mitis	VBIStrMit169061_0254	2 2C3-dihydroxybenzoate-AMP ligase EC 2.7.7.58
Streptococcus mitis	VBIStrMit75374_1377	ABC transporter 2C ATP-binding permease protein
Streptococcus mitis	VBIStrMit226415_1351	ABC transporter 2C ATP-binding protein
Streptococcus mitis	VBIStrMit169061_1497	ABC transporter ATP-binding protein
Streptococcus mitis	VBIStrMit12054_1096	Acetylornithine aminotransferase EC 2.6.1.11
Streptococcus mitis	VBIStrMit102292_1215	Acyl-coenzyme A synthetases AMP-fatty acid ligases 2C Ytcl homolog
Streptococcus mitis	VBIStrMit169061_0122	agglutinin receptor
Streptococcus mitis	VBIStrMit226415_1377	ATP synthase beta chain EC 3.6.3.14
Streptococcus mitis	VBIStrMit3699_0681	ATP synthase beta chain EC 3.6.3.14
Streptococcus mitis	VBIStrMit169061_1550	ATP synthase beta chain EC 3.6.3.14
Streptococcus mitis	VBIStrMit188413_0184	ATP-dependent Clp protease 2C ATP-binding subunit ClpE
Streptococcus mitis	VBIStrMit187246_1368	ATP-dependent Clp protease 2C ATP-binding subunit ClpE
Streptococcus mitis	VBIStrMit226415_0438	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus mitis	VBIStrMit187065_1076	ATPase component of general energizing module of ECF transporters
Streptococcus mitis	VBIStrMit169061_1574	Beta-1 2C3-glucosyltransferase
Streptococcus mitis	VBIStrMit187246_0212	C5a peptidase EC 3.4.21.-
Streptococcus mitis	VBIStrMit188413_1524	C5a peptidase EC 3.4.21.-
Streptococcus mitis	VBIStrMit3699_0636	Candidate zinc-binding lipoprotein ZinT
Streptococcus mitis	VBIStrMit169061_0408	Capsular polysaccharide biosynthesis protein CpsKV
Streptococcus mitis	VBIStrMit187065_1463	Capsular polysaccharide biosynthesis protein CpsI
Streptococcus mitis	VBIStrMit3699_1681	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Streptococcus mitis	VBIStrMit169061_0202	Cell wall surface anchor family protein
Streptococcus mitis	VBIStrMit169061_1397	Cell wall surface anchor family protein
Streptococcus mitis	VBIStrMit169061_0520	Cell wall surface anchor family protein
Streptococcus mitis	VBIStrMit169061_1421	Cell wall surface anchor family protein 2C FPXTG motif
Streptococcus mitis	VBIStrMit161611_1749	Cell wall surface anchor family protein 2C FPXTG motif
Streptococcus mitis	VBIStrMit169061_0618	Cell wall surface anchor family protein 2C FPXTG motif
Streptococcus mitis	VBIStrMit11393_1012	Chemotaxis protein cheA EC 2.7.3.-
Streptococcus mitis	VBIStrMit11393_1100	Chemotaxis protein cheA EC 2.7.3.-
Streptococcus mitis	VBIStrMit11393_1878	Chemotaxis protein cheA EC 2.7.3.-
Streptococcus mitis	VBIStrMit218081_1250	Cyclopropane-fatty-acyl-phospholipid synthase EC 2.1.1.79
Streptococcus mitis	VBIStrMit187246_0583	CylF
Streptococcus mitis	VBIStrMit188413_1042	Enolase EC 4.2.1.11
Streptococcus mitis	VBIStrMit187246_0491	Enolase EC 4.2.1.11
Streptococcus mitis	VBIStrMit161611_0870	Ferrichrome-iron receptor
Streptococcus mitis	VBIStrMit161611_0999	Flagellar M-ring protein FlIF
Streptococcus mitis	VBIStrMit218081_1360	Glutamine synthetase type I EC 6.3.1.2
Streptococcus mitis	VBIStrMit222783_0156	Glycine betaine ABC transport system 2C ATP-binding protein OpuAA EC 3.6.3.32
Streptococcus mitis	VBIStrMit187065_1531	Glycosyl transferase 2C family 8
Streptococcus mitis	VBIStrMit161611_0583	Heat shock protein 60 family chaperone GroEL
Streptococcus mitis	VBIStrMit11393_0214	Heat shock protein 60 family chaperone GroEL
Streptococcus mitis	VBIStrMit3699_0605	Hemolysin III
Streptococcus mitis	VBIStrMit75374_1636	Hemolysin III
Streptococcus mitis	VBIStrMit226415_0179	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1

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Streptococcus mitis	VBIStrMit187246_0183	Laminin-binding surface protein
Streptococcus mitis	VBIStrMit169061_0353	Laminin-binding surface protein
Streptococcus mitis	VBIStrMit226415_1116	Lipid A export ATP-binding permease protein MsbA
Streptococcus mitis	VBIStrMit226415_1083	Lipid A export ATP-binding permease protein MsbA
Streptococcus mitis	VBIStrMit226415_0890	Maltose operon transcriptional repressor MalR 2C LacI family
Streptococcus mitis	VBIStrMit187065_1809	Manganese ABC transporter 2C inner membrane permease protein SitD
Streptococcus mitis	VBIStrMit169061_0819	N-acetylneuraminase synthase EC 2.5.1.56
Streptococcus mitis	VBIStrMit187246_1365	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12 Plasminogen receptor
Streptococcus mitis	VBIStrMit218081_1714	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12 Plasminogen receptor
Streptococcus mitis	VBIStrMit187246_0420	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Streptococcus mitis	VBIStrMit226415_1495	Peptidoglycan hydrolase 2C Autolysin2 EC 3.5.1.28
Streptococcus mitis	VBIStrMit187246_0851	Polysaccharide biosynthesis glycosyl transferase CpsJ
Streptococcus mitis	VBIStrMit169061_0714	Polysaccharide biosynthesis glycosyl transferase CpsN
Streptococcus mitis	VBIStrMit187246_0916	Polysaccharide biosynthesis glycosyl transferase CpsO
Streptococcus mitis	VBIStrMit169061_1709	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Streptococcus mitis	VBIStrMit226415_0530	putative ATP-dependent Clp proteinase ATP-binding subunit
Streptococcus mitis	VBIStrMit188413_1625	putative ATP-dependent Clp proteinase ATP-binding subunit
Streptococcus mitis	VBIStrMit187246_0957	putative ATP-dependent Clp proteinase ATP-binding subunit
Streptococcus mitis	VBIStrMit169061_0148	putative ATP-dependent Clp proteinase ATP-binding subunit
Streptococcus mitis	VBIStrMit226415_0134	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Streptococcus mitis	VBIStrMit161611_0942	Respiratory nitrate reductase alpha chain EC 1.7.99.4
Streptococcus mitis	VBIStrMit11393_0821	Respiratory nitrate reductase gamma chain EC 1.7.99.4
Streptococcus mitis	VBIStrMit194048_0917	RNA polymerase sigma factor RpoD
Streptococcus mitis	VBIStrMit169061_1558	Sensor protein basS pmrB EC 2.7.3.-
Streptococcus mitis	VBIStrMit75374_0974	Serine endopeptidase ScpC EC 3.4.21.-
Streptococcus mitis	VBIStrMit222783_0948	Serine endopeptidase ScpC EC 3.4.21.-
Streptococcus mitis	VBIStrMit226415_0718	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Streptococcus mitis	VBIStrMit187246_0982	Sortase A 2C LPXTG specific
Streptococcus mitis	VBIStrMit187065_0706	Sortase A 2C LPXTG specific
Streptococcus mitis	VBIStrMit169061_1024	Surface protein Rib
Streptococcus mitis	VBIStrMit169061_1107	Surface protein Rib
Streptococcus mitis	VBIStrMit169061_1140	Surface protein Rib
Streptococcus mitis	VBIStrMit169061_1257	Surface protein Rib
Streptococcus mitis	VBIStrMit194048_1318	Transport ATP-binding protein CydC
Streptococcus mitis	VBIStrMit188413_1149	Two-component system histidine kinase
Streptococcus mitis	VBIStrMit169061_0535	Two-component system histidine kinase
Streptococcus mitis	VBIStrMit169061_1766	Two-component system histidine kinase
Streptococcus mitis	VBIStrMit169061_0638	Two-component system histidine kinase
Streptococcus mitis	VBIStrMit169061_0102	Two-component system histidine kinase
Streptococcus mitis	VBIStrMit102292_1745	Type IV secretion system protein VirD4
Streptococcus mitis	VBIStrMit169061_0917	Tyrosine-protein kinase EpsD EC 2.7.10.2
Streptococcus mitis	VBIStrMit102292_1538	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Streptococcus mutans	VBIStrMut209044_0145	ABC transporter 2C ATP-binding permease protein
Streptococcus mutans	VBIStrMut210326_0848	ABC transporter 2C ATP-binding protein
Streptococcus mutans	VBIStrMut211886_1678	ABC transporter 2C ATP-binding protein Vex2
Streptococcus mutans	VBIStrMut212285_0777	ABC transporter ATP-binding protein
Streptococcus mutans	VBIStrMut212285_1312	ABC-type polar amino acid transport system 2C ATPase component
Streptococcus mutans	VBIStrMut211255_0703	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Streptococcus mutans	VBIStrMut210326_0440	Alpha-D-GlcNAc alpha-1 2C2-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus mutans	VBIStrMut211255_1349	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus mutans	VBIStrMut61772_1199	Calcium-transporting ATPase EC 3.6.3.8
Streptococcus mutans	VBIStrMut210326_1152	Cell wall-associated murein hydrolase LytA
Streptococcus mutans	VBIStrMut61772_0048	Choline binding protein A
Streptococcus mutans	VBIStrMut249475_0753	Choline binding protein A
Streptococcus mutans	VBIStrMut211886_0415	Choline binding protein J
Streptococcus mutans	VBIStrMut211886_0534	Choline binding protein J
Streptococcus mutans	VBIStrMut211886_0674	Choline binding protein J
Streptococcus mutans	VBIStrMut212285_1702	Choline kinase EC 2.7.1.32
Streptococcus mutans	VBIStrMut212285_0119	COG1272 Predicted membrane protein hemolysin III homolog
Streptococcus mutans	VBIStrMut209044_0113	Daunorubicin resistance ATP-binding protein drrA
Streptococcus mutans	VBIStrMut210794_0650	Diaminopimelate decarboxylase EC 4.1.1.20
Streptococcus mutans	VBIStrMut210326_0768	Exfoliative toxin A
Streptococcus mutans	VBIStrMut211886_1146	Exfoliative toxin A
Streptococcus mutans	VBIStrMut209044_0663	Glutamine synthetase type I EC 6.3.1.2
Streptococcus mutans	VBIStrMut11111_1663	hypothetical protein
Streptococcus mutans	VBIStrMut210794_0546	Lipid A export ATP-binding permease protein MsbA
Streptococcus mutans	VBIStrMut11111_1486	Lipid A export ATP-binding permease protein MsbA
Streptococcus mutans	VBIStrMut210326_1344	Maltose operon transcriptional repressor MalR 2C LacI family
Streptococcus mutans	VBIStrMut11111_1777	Methionine ABC transporter ATP-binding protein
Streptococcus mutans	VBIStrMut209044_0876	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Streptococcus mutans	VBIStrMut249475_0597	Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Streptococcus mutans	VBIStrMut210326_0699	Phosphoglucosamine mutase EC 5.4.2.10
Streptococcus mutans	VBIStrMut211886_1437	Protein serine threonine phosphatase PrpC 2C regulation of stationary phase
Streptococcus mutans	VBIStrMut211886_0305	putative amino acid ABC transporter 2C ATP-binding protein
Streptococcus mutans	VBIStrMut249475_0341	Two-component response regulator SA14-24
Streptococcus mutans	VBIStrMut211886_0100	UDP-N-acetylglucosamine 4 2C6-dehydratase EC 4.2.1.-
Streptococcus mutans	VBIStrMut211886_0111	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Streptococcus mutans	VBIStrMut210794_0646	unknown domain Nucleoside 5-triphosphatase RdgB dHAPT 2C dITP 2C XTP-specific EC 3.6.1.15
Streptococcus mutans	VBIStrMut11111_1661	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9

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Streptococcus mutans	VBIStrMut61772_0591	Zinc metalloprotease zmpB precursor EC 3.4.24.-
Streptococcus oralis	VBIStrOra19579_0227	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Streptococcus oralis	VBIStrOra188715_0985	3-isopropylmalate dehydratase small subunit EC 4.2.1.33
Streptococcus oralis	VBIStrOra225564_0983	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Streptococcus oralis	VBIStrOra225564_1449	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Streptococcus oralis	VBIStrOra225564_1142	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra220821_1530	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra200525_0670	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra225059_0950	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra225564_0295	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra218827_0718	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra177080_1090	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra225564_0329	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra225564_1052	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra188715_0375	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra238087_1919	ABC transporter 2C ATP-binding permease protein
Streptococcus oralis	VBIStrOra188715_0831	ABC transporter 2C ATP-binding protein
Streptococcus oralis	VBIStrOra225059_1571	ABC transporter 2C ATP-binding protein EcsA
Streptococcus oralis	VBIStrOra225564_0141	ABC transporter 2C ATP-binding protein Vex2
Streptococcus oralis	VBIStrOra177080_0395	ABC transporter 2C ATP-binding protein Vex2
Streptococcus oralis	VBIStrOra225059_0012	ABC transporter ATP-binding protein
Streptococcus oralis	VBIStrOra238087_0531	ABC transporter ATP-binding protein
Streptococcus oralis	VBIStrOra19579_0079	ABC transporter ATP-binding protein YvcR
Streptococcus oralis	VBIStrOra225564_0966	ABC-type multidrug transport system 2C ATPase component
Streptococcus oralis	VBIStrOra238087_0530	ABC-type multidrug transport system 2C ATPase component
Streptococcus oralis	VBIStrOra225059_1271	ABC-type polar amino acid transport system 2C ATPase component
Streptococcus oralis	VBIStrOra218827_0682	Acetoin dehydrogenase E1 component beta-subunit EC 1.2.4.-
Streptococcus oralis	VBIStrOra225059_0899	Acetoin dehydrogenase E1 component beta-subunit EC 1.2.4.-
Streptococcus oralis	VBIStrOra218827_0724	Acetylornithine aminotransferase EC 2.6.1.11
Streptococcus oralis	VBIStrOra220821_0289	Acetylornithine aminotransferase EC 2.6.1.11
Streptococcus oralis	VBIStrOra218827_1629	Acetylornithine aminotransferase EC 2.6.1.11
Streptococcus oralis	VBIStrOra218827_0695	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Streptococcus oralis	VBIStrOra218827_1153	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Streptococcus oralis	VBIStrOra19579_1565	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10
Streptococcus oralis	VBIStrOra218827_0476	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus oralis	VBIStrOra218827_0618	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus oralis	VBIStrOra218827_1683	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus oralis	VBIStrOra218827_0823	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus oralis	VBIStrOra200525_1510	Alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus oralis	VBIStrOra218827_0059	Alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus oralis	VBIStrOra225564_0408	Amino acid transport ATP-binding protein
Streptococcus oralis	VBIStrOra19579_0060	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Streptococcus oralis	VBIStrOra200525_0943	Anthranilate synthase 2C aminase component EC 4.1.3.27
Streptococcus oralis	VBIStrOra177080_1367	ATP synthase alpha chain EC 3.6.3.14
Streptococcus oralis	VBIStrOra188715_0284	ATP synthase alpha chain EC 3.6.3.14
Streptococcus oralis	VBIStrOra225059_1098	ATP-dependent Clp protease 2C ATP-binding subunit ClpE
Streptococcus oralis	VBIStrOra177080_1235	ATP-dependent Clp protease 2C ATP-binding subunit ClpE
Streptococcus oralis	VBIStrOra225059_1237	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus oralis	VBIStrOra19579_0196	Beta-1 2C3-glucosyltransferase
Streptococcus oralis	VBIStrOra218827_0708	C3-degrading proteinase
Streptococcus oralis	VBIStrOra188715_1005	Cadmium-transporting ATPase EC 3.6.3.3
Streptococcus oralis	VBIStrOra225059_1204	Candidate zinc-binding lipoprotein ZinT
Streptococcus oralis	VBIStrOra225564_1572	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Streptococcus oralis	VBIStrOra225564_0493	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Streptococcus oralis	VBIStrOra188715_1259	Choline binding protein J
Streptococcus oralis	VBIStrOra177080_0213	Choline binding protein J
Streptococcus oralis	VBIStrOra177080_1379	Choline binding protein J
Streptococcus oralis	VBIStrOra177080_0123	Choline binding protein J
Streptococcus oralis	VBIStrOra177080_1517	Choline binding protein J
Streptococcus oralis	VBIStrOra225564_0292	Cholinephosphate cytidyltransferase EC 2.7.7.15
Streptococcus oralis	VBIStrOra238087_0376	COG1272 Predicted membrane protein hemolysin III homolog
Streptococcus oralis	VBIStrOra177080_0511	Cysteine and methionine metabolism regulator CmbR 2C LysR family
Streptococcus oralis	VBIStrOra225564_0933	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Streptococcus oralis	VBIStrOra225564_1548	Daunorubicin resistance ATP-binding protein drrA
Streptococcus oralis	VBIStrOra188715_0753	Daunorubicin resistance ATP-binding protein drrA
Streptococcus oralis	VBIStrOra19579_0144	Daunorubicin resistance ATP-binding protein drrA
Streptococcus oralis	VBIStrOra220821_1207	Diaminopimelate decarboxylase EC 4.1.1.20
Streptococcus oralis	VBIStrOra225564_1353	Diaminopimelate decarboxylase EC 4.1.1.20
Streptococcus oralis	VBIStrOra225059_0897	DNA-binding response regulator
Streptococcus oralis	VBIStrOra225059_1766	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Streptococcus oralis	VBIStrOra220821_1372	ESAT-6 Esx family secreted protein EsxA Yuke
Streptococcus oralis	VBIStrOra188715_1549	Exfoliative toxin A
Streptococcus oralis	VBIStrOra188715_0142	Exfoliative toxin A
Streptococcus oralis	VBIStrOra188715_1602	Fibronectin fibrinogen-binding protein
Streptococcus oralis	VBIStrOra225564_0156	Fibronectin fibrinogen-binding protein
Streptococcus oralis	VBIStrOra238087_0637	Fibronectin fibrinogen-binding protein
Streptococcus oralis	VBIStrOra218827_1685	FIG01116088 hypothetical protein
Streptococcus oralis	VBIStrOra225059_0251	Glucosyltransferase GtfG
Streptococcus oralis	VBIStrOra225564_0145	Glucosyltransferase GtfG

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Streptococcus oralis	VBIStrOra225564_1727	Glutamate transport ATP-binding protein
Streptococcus oralis	VBIStrOra177080_1310	Glutamate transport ATP-binding protein
Streptococcus oralis	VBIStrOra177080_0266	Glutamate transport ATP-binding protein
Streptococcus oralis	VBIStrOra225059_0524	Glutamate transport ATP-binding protein
Streptococcus oralis	VBIStrOra19579_0077	Glutamine ABC transporter 2C periplasmic glutamine-binding protein TC 3.A.1.3.2
Streptococcus oralis	VBIStrOra188715_0848	Glutamine synthetase type I EC 6.3.1.2
Streptococcus oralis	VBIStrOra19579_0386	Glutamine synthetase type I EC 6.3.1.2
Streptococcus oralis	VBIStrOra218827_1121	Glycosyl transferase 2C family 2
Streptococcus oralis	VBIStrOra220821_1606	Glycosyltransferase
Streptococcus oralis	VBIStrOra177080_0708	glycosyltransferase family 2 protein
Streptococcus oralis	VBIStrOra218827_1485	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Streptococcus oralis	VBIStrOra225564_0140	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Streptococcus oralis	VBIStrOra225059_1103	Heat shock protein 60 family chaperone GroEL
Streptococcus oralis	VBIStrOra225059_1419	hypothetical protein
Streptococcus oralis	VBIStrOra225059_1414	hypothetical protein
Streptococcus oralis	VBIStrOra225564_0294	IgA1 protease EC 3.4.24.13
Streptococcus oralis	VBIStrOra225564_0406	Iron compound ABC uptake transporter permease protein PiuC
Streptococcus oralis	VBIStrOra225059_1283	Iron compound ABC uptake transporter substrate-binding protein PiuA
Streptococcus oralis	VBIStrOra225564_0939	Iron compound ABC uptake transporter substrate-binding protein PiuA
Streptococcus oralis	VBIStrOra200525_1706	Iron compound ABC uptake transporter substrate-binding protein PiuA
Streptococcus oralis	VBIStrOra188715_1822	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Streptococcus oralis	VBIStrOra220821_1830	Laminin-binding surface protein
Streptococcus oralis	VBIStrOra225059_1278	Late competence protein ComGA 2C access of DNA to ComEA
Streptococcus oralis	VBIStrOra220821_1193	Lipid A export ATP-binding permease protein MsbA
Streptococcus oralis	VBIStrOra225564_1336	Lipid A export ATP-binding permease protein MsbA
Streptococcus oralis	VBIStrOra225059_0986	Lipid A export ATP-binding permease protein MsbA
Streptococcus oralis	VBIStrOra225564_1319	Lipid A export ATP-binding permease protein MsbA
Streptococcus oralis	VBIStrOra200525_1566	Lipid A export ATP-binding permease protein MsbA
Streptococcus oralis	VBIStrOra19579_0522	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_0307	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_0417	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_1156	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra19579_0791	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra19579_1364	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_0761	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra19579_1322	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra19579_0606	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra19579_1190	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_0725	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra19579_1189	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra19579_1397	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_0523	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_0486	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra220821_0466	Long-chain-fatty-acid--CoA ligase EC 6.2.1.3
Streptococcus oralis	VBIStrOra177080_0554	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Streptococcus oralis	VBIStrOra225059_1787	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Streptococcus oralis	VBIStrOra19579_1624	Manganese ABC transporter 2C periplasmic-binding protein SitA
Streptococcus oralis	VBIStrOra220821_1710	Manganese superoxide dismutase EC 1.15.1.1
Streptococcus oralis	VBIStrOra225059_1592	Manganese-dependent protein-tyrosine phosphatase EC 3.1.3.48
Streptococcus oralis	VBIStrOra177080_0262	Mannose-6-phosphate isomerase EC 5.3.1.8
Streptococcus oralis	VBIStrOra225564_1563	Mannose-6-phosphate isomerase EC 5.3.1.8
Streptococcus oralis	VBIStrOra177080_0975	Mannose-6-phosphate isomerase EC 5.3.1.8
Streptococcus oralis	VBIStrOra225059_0774	Mg ²⁺ transport ATPase 2C P-type EC 3.6.3.2
Streptococcus oralis	VBIStrOra218827_1389	Multiple sugar ABC transporter 2C ATP-binding protein
Streptococcus oralis	VBIStrOra200525_2013	Multiple sugar ABC transporter 2C ATP-binding protein
Streptococcus oralis	VBIStrOra218827_0663	Multiple sugar ABC transporter 2C ATP-binding protein
Streptococcus oralis	VBIStrOra225059_0276	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Streptococcus oralis	VBIStrOra225059_0275	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Streptococcus oralis	VBIStrOra225059_0405	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Streptococcus oralis	VBIStrOra225059_0321	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Streptococcus oralis	VBIStrOra218827_1486	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Streptococcus oralis	VBIStrOra177080_1229	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Streptococcus oralis	VBIStrOra225059_1591	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Streptococcus oralis	VBIStrOra220821_1819	Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Streptococcus oralis	VBIStrOra218827_1034	Phosphatidate cytidyltransferase EC 2.7.7.41
Streptococcus oralis	VBIStrOra238087_0944	Phosphoglucosyltransferase EC 5.4.2.2
Streptococcus oralis	VBIStrOra225564_0082	Protein serine threonine phosphatase PrpC 2C regulation of stationary phase
Streptococcus oralis	VBIStrOra200525_2014	putative autolysin 3B amidase
Streptococcus oralis	VBIStrOra200525_1707	putative bacitracin synthetase
Streptococcus oralis	VBIStrOra200525_1949	putative bacitracin synthetase
Streptococcus oralis	VBIStrOra220821_1416	Putative secretion system component EssB YukC
Streptococcus oralis	VBIStrOra218827_1154	Regulation of D-alanyl-lipoteichoic acid biosynthesis 2C DltR
Streptococcus oralis	VBIStrOra225059_0731	Response regulator CsrR
Streptococcus oralis	VBIStrOra188715_1677	RNA polymerase sigma factor RpoD
Streptococcus oralis	VBIStrOra200525_0116	RNA polymerase sigma factor RpoD
Streptococcus oralis	VBIStrOra225059_0160	Serine endopeptidase ScpC EC 3.4.21.-
Streptococcus oralis	VBIStrOra225564_1798	Serine endopeptidase ScpC EC 3.4.21.-
Streptococcus oralis	VBIStrOra225564_0938	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Streptococcus oralis	VBIStrOra177080_1675	Sialidase EC 3.2.1.18

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Streptococcus oralis	VBIStrOra220821_1854	signal transduction histidine kinase
Streptococcus oralis	VBIStrOra225564_1022	Streptococcal lipoprotein rotamase A 3B Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Streptococcus oralis	VBIStrOra19579_0472	Two component transcriptional regulator VraR
Streptococcus oralis	VBIStrOra177080_1035	Two-component response regulator
Streptococcus oralis	VBIStrOra225059_0635	Two-component response regulator BceR
Streptococcus oralis	VBIStrOra225564_1150	Two-component sensor kinase SA14-24
Streptococcus oralis	VBIStrOra225059_0588	Two-component system histidine kinase
Streptococcus oralis	VBIStrOra225059_1726	Tyrosine-protein kinase EpsD EC 2.7.10.2
Streptococcus oralis	VBIStrOra238087_1136	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158
Streptococcus oralis	VBIStrOra218827_0833	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Streptococcus oralis	VBIStrOra177080_0702	unknown domain Nucleoside 5-triphosphatase RdgB dHATP 2C dITP 2C XTP-specific EC 3.6.1.15
Streptococcus oralis	VBIStrOra19579_0094	Vitamin B12 ABC transporter 2C ATPase component BtuD
Streptococcus oralis	VBIStrOra225564_1010	Vitamin B12 ABC transporter 2C ATPase component BtuD
Streptococcus oralis	VBIStrOra19579_0298	Vitamin B12 ABC transporter 2C permease component BtuC
Streptococcus oralis	VBIStrOra177080_1378	Vitamin B12 ABC transporter 2C permease component BtuC
Streptococcus oralis	VBIStrOra220821_1600	Zinc metalloprotease zmpB precursor EC 3.4.24.-
Streptococcus parasanguinis	VBIStrPar161236_1400	ABC transporter 2C ATP-binding permease protein
Streptococcus parasanguinis	VBIStrPar169762_0778	Choline binding protein D
Streptococcus parasanguinis	VBIStrPar169762_0949	Lipid A export ATP-binding permease protein MsbA
Streptococcus peroris	VBIStrPer170951_1346	ABC transporter 2C ATP-binding permease protein
Streptococcus peroris	VBIStrPer170951_1284	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus peroris	VBIStrPer170951_0797	Candidate zinc-binding lipoprotein ZinT
Streptococcus peroris	VBIStrPer170951_0335	Iron compound ABC uptake transporter permease protein PiuC
Streptococcus peroris	VBIStrPer170951_0271	Iron compound ABC uptake transporter substrate-binding protein PiuA
Streptococcus peroris	VBIStrPer170951_0144	Late competence protein ComGA 2C access of DNA to ComEA
Streptococcus peroris	VBIStrPer170951_0097	Lipid A export ATP-binding permease protein MsbA
Streptococcus peroris	VBIStrPer170951_0577	Lipid A export ATP-binding permease protein MsbA
Streptococcus peroris	VBIStrPer170951_0796	Methionine ABC transporter ATP-binding protein
Streptococcus peroris	VBIStrPer170951_1413	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Streptococcus peroris	VBIStrPer170951_0742	putative amino acid ABC transporter 2C ATP-binding protein
Streptococcus pneumoniae	VBIStrPne54539_0880	ABC-type polar amino acid transport system 2C ATPase component
Streptococcus pneumoniae	VBIStrPne54539_0619	Acetoin dehydrogenase E1 component beta-subunit EC 1.2.4.-
Streptococcus pneumoniae	VBIStrPne54539_1172	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus pneumoniae	VBIStrPne101635_2152	Calcium-transporting ATPase EC 3.6.3.8
Streptococcus pneumoniae	VBIStrPne44485_1420	Choline binding protein A
Streptococcus pneumoniae	VBIStrPne101635_0811	Diaminopimelate decarboxylase EC 4.1.1.20
Streptococcus pneumoniae	VBIStrPne101635_1107	Exfoliative toxin A
Streptococcus pneumoniae	VBIStrPne101635_0225	FtsK SpoIIIE family protein 2C putative secretion system component EssC YukA
Streptococcus pneumoniae	VBIStrPne101635_1954	Glucosyltransferase GtfG
Streptococcus pneumoniae	VBIStrPne101635_0870	Group B streptococcal surface immunogenic protein
Streptococcus pneumoniae	VBIStrPne101635_0529	Hemolysins and related proteins containing CBS domains
Streptococcus pneumoniae	VBIStrPne101635_1139	hypothetical protein
Streptococcus pneumoniae	VBIStrPne44485_1451	Iron compound ABC uptake transporter ATP-binding protein PiuD
Streptococcus pneumoniae	VBIStrPne44485_1052	Late competence protein ComGA 2C access of DNA to ComEA
Streptococcus pneumoniae	VBIStrPne54539_0464	Lipid A export ATP-binding permease protein MsbA
Streptococcus pneumoniae	VBIStrPne44485_1626	Lipid A export ATP-binding permease protein MsbA
Streptococcus pneumoniae	VBIStrPne54539_0849	NPQTN specific sortase B
Streptococcus pneumoniae	VBIStrPne44485_0203	Phosphoglucosamine mutase EC 5.4.2.10
Streptococcus pneumoniae	VBIStrPne101635_1271	Serine endopeptidase ScpC EC 3.4.21.-
Streptococcus pneumoniae	VBIStrPne101635_1966	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Streptococcus pneumoniae	VBIStrPne54539_0581	Sortase A 2C LPXTG specific
Streptococcus pneumoniae	VBIStrPne54539_0509	Two-component sensor kinase SA14-24
Streptococcus pneumoniae	VBIStrPne44485_0655	Vitamin B12 ABC transporter 2C permease component BtuC
Streptococcus pyogenes	VBIStrPyo41662_0455	Alpha-D-GlcNAc alpha-1 2C2-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus pyogenes	VBIStrPyo169116_0085	Bactoprenol glucosyl transferase EC 2.4.1.-
Streptococcus pyogenes	VBIStrPyo169116_1091	Candidate zinc-binding lipoprotein ZinT
Streptococcus pyogenes	VBIStrPyo41662_0099	COG1272 Predicted membrane protein hemolysin III homolog
Streptococcus pyogenes	VBIStrPyo41662_0921	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Streptococcus pyogenes	VBIStrPyo79812_1768	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Streptococcus pyogenes	VBIStrPyo169116_1548	Lactaldehyde dehydrogenase involved in fucose or rhamnose utilization EC 1.2.1.22
Streptococcus pyogenes	VBIStrPyo79812_0804	Lipid A export ATP-binding permease protein MsbA
Streptococcus pyogenes	VBIStrPyo41662_0073	Lipid carrier UDP-N-acetylgalactosaminyltransferase EC 2.4.1.-
Streptococcus pyogenes	VBIStrPyo41662_0989	Manganese ABC transporter 2C ATP-binding protein SitB
Streptococcus pyogenes	VBIStrPyo169116_1244	Methionine ABC transporter ATP-binding protein
Streptococcus pyogenes	VBIStrPyo41662_0161	Putative hemagglutinin hemolysin-related protein
Streptococcus pyogenes	VBIStrPyo79812_0501	Putative secretion system component EssB YukC
Streptococcus pyogenes	VBIStrPyo79812_0738	Pyrroline-5-carboxylate reductase EC 1.5.1.2
Streptococcus pyogenes	VBIStrPyo41662_1124	Serine endopeptidase ScpC EC 3.4.21.-
Streptococcus pyogenes	VBIStrPyo79812_1225	Two-component response regulator
Streptococcus pyogenes	VBIStrPyo79812_0940	Two-component response regulator VncR
Streptococcus pyogenes	VBIStrPyo41662_1028	Two-component system histidine kinase
Streptococcus pyogenes	VBIStrPyo79812_1006	Two-component system histidine kinase
Streptococcus pyogenes	VBIStrPyo41662_0912	UDP-galactopyranose mutase EC 5.4.99.9
Streptococcus pyogenes	VBIStrPyo79812_0646	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158
Streptococcus pyogenes	VBIStrPyo79812_0261	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Streptococcus pyogenes	VBIStrPyo79812_1722	Uncharacterized conserved phage related protein
Streptococcus pyogenes	VBIStrPyo79812_1395	Uncharacterized conserved phage related protein
Streptococcus pyogenes	VBIStrPyo169116_0928	Zinc ABC transporter 2C ATP-binding protein ZnuC
Streptococcus salivarius	VBIStrSal205187_1786	3-isopropylmalate dehydratase small subunit EC 4.2.1.33

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Streptococcus salivarius	VBIStrSal237731_1004	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Streptococcus salivarius	VBIStrSal202804_0581	ABC transporter 2C ATP-binding permease protein
Streptococcus salivarius	VBIStrSal205187_0380	ABC transporter ATP-binding protein
Streptococcus salivarius	VBIStrSal202804_0234	Anthranilate synthase 2C aminase component EC 4.1.3.27
Streptococcus salivarius	VBIStrSal205187_1437	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus salivarius	VBIStrSal241071_0255	Catabolite control protein A
Streptococcus salivarius	VBIStrSal202804_1419	Choline kinase EC 2.7.1.32
Streptococcus salivarius	VBIStrSal117533_0985	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Streptococcus salivarius	VBIStrSal117533_0405	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Streptococcus salivarius	VBIStrSal51046_0257	Enolase EC 4.2.1.11
Streptococcus salivarius	VBIStrSal205187_0146	Fibronectin fibrinogen-binding protein
Streptococcus salivarius	VBIStrSal117533_1212	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Streptococcus salivarius	VBIStrSal51046_0411	Histidine kinase
Streptococcus salivarius	VBIStrSal237731_1214	Lipid A export ATP-binding permease protein MsbA
Streptococcus salivarius	VBIStrSal237731_1063	Lipid A export ATP-binding permease protein MsbA
Streptococcus salivarius	VBIStrSal237731_0910	Lipid A export ATP-binding permease protein MsbA
Streptococcus salivarius	VBIStrSal237731_1572	Manganese superoxide dismutase EC 1.15.1.1
Streptococcus salivarius	VBIStrSal237731_0019	Methionine ABC transporter ATP-binding protein
Streptococcus salivarius	VBIStrSal51046_0855	Mg ²⁺ transport ATPase 2C P-type EC 3.6.3.2
Streptococcus salivarius	VBIStrSal117533_1319	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Streptococcus salivarius	VBIStrSal202804_0755	Phosphate transport ATP-binding protein PstB TC 3.A.1.7.1
Streptococcus salivarius	VBIStrSal205187_1620	Phosphoglucomutase EC 5.4.2.2
Streptococcus salivarius	VBIStrSal205187_1146	putative amino acid ABC transporter 2C ATP-binding protein
Streptococcus salivarius	VBIStrSal202804_1119	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Streptococcus salivarius	VBIStrSal216060_0222	RNA binding methyltransferase FtsJ like
Streptococcus salivarius	VBIStrSal216060_1072	Sortase A 2C LPXTG specific
Streptococcus salivarius	VBIStrSal51046_0041	Streptococcal lipoprotein rotamase A 3B Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Streptococcus salivarius	VBIStrSal237731_1321	Two component system histidine kinase EC 2.7.3.-
Streptococcus sobrinus	VBIStrSob206829_0651	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Streptococcus sobrinus	VBIStrSob212168_1058	Acetoin dehydrogenase E1 component beta-subunit EC 1.2.4.-
Streptococcus sobrinus	VBIStrSob213128_0751	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L-rhamnosyltransferase EC 2.4.1.-
Streptococcus sobrinus	VBIStrSob206829_0103	Anthranilate synthase 2C aminase component EC 4.1.3.27
Streptococcus sobrinus	VBIStrSob214544_1041	ATP synthase alpha chain EC 3.6.3.14
Streptococcus sobrinus	VBIStrSob212630_0684	ATP synthase alpha chain EC 3.6.3.14
Streptococcus sobrinus	VBIStrSob212630_1418	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus sobrinus	VBIStrSob212630_1838	ATP-dependent Clp protease ATP-binding subunit ClpA
Streptococcus sobrinus	VBIStrSob205529_1088	Beta-1 2C3-glucosyltransferase
Streptococcus sobrinus	VBIStrSob212630_1153	Calcium-transporting ATPase EC 3.6.3.8
Streptococcus sobrinus	VBIStrSob206829_1688	Capsular polysaccharide synthesis protein
Streptococcus sobrinus	VBIStrSob209984_0321	Cation-transporting ATPase 2C E1-E2 family
Streptococcus sobrinus	VBIStrSob212168_0098	Cell division trigger factor EC 5.2.1.8
Streptococcus sobrinus	VBIStrSob212168_0371	Cell wall surface anchor family protein
Streptococcus sobrinus	VBIStrSob215200_0184	Choline binding protein A
Streptococcus sobrinus	VBIStrSob215046_1587	Choline binding protein A
Streptococcus sobrinus	VBIStrSob215200_0228	Choline binding protein A
Streptococcus sobrinus	VBIStrSob215046_1437	Choline binding protein A
Streptococcus sobrinus	VBIStrSob215046_0949	Choline binding protein A
Streptococcus sobrinus	VBIStrSob215046_1906	Choline binding protein A
Streptococcus sobrinus	VBIStrSob215046_1082	Choline binding protein A
Streptococcus sobrinus	VBIStrSob212168_1018	COG1272 Predicted membrane protein hemolysin III homolog
Streptococcus sobrinus	VBIStrSob206829_1207	D-alanine-polyphosphoribitol ligase subunit 1 EC 6.1.1.13
Streptococcus sobrinus	VBIStrSob213128_1022	D-beta-hydroxybutyrate dehydrogenase EC 1.1.1.30
Streptococcus sobrinus	VBIStrSob212630_0613	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Streptococcus sobrinus	VBIStrSob212168_0021	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Streptococcus sobrinus	VBIStrSob209984_0555	Fibronectin fibrinogen-binding protein
Streptococcus sobrinus	VBIStrSob213128_0576	Fibronectin-binding protein
Streptococcus sobrinus	VBIStrSob214729_0537	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Streptococcus sobrinus	VBIStrSob214544_0523	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Streptococcus sobrinus	VBIStrSob212168_1322	Glutamine synthetase type I EC 6.3.1.2
Streptococcus sobrinus	VBIStrSob212168_0391	Glutamine synthetase type I EC 6.3.1.2
Streptococcus sobrinus	VBIStrSob214729_5804	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Streptococcus sobrinus	VBIStrSob213277_1782	Heat shock protein 60 family chaperone GroEL
Streptococcus sobrinus	VBIStrSob214729_4033	Hyaluronoglucosaminidase EC 3.2.1.35
Streptococcus sobrinus	VBIStrSob213128_1333	Hyaluronoglucosaminidase EC 3.2.1.35
Streptococcus sobrinus	VBIStrSob213128_0382	Immunoglobulin G-endopeptidase IdeS Mac Secreted immunoglobulin binding protein Sib38
Streptococcus sobrinus	VBIStrSob214544_1226	Immunoglobulin G-endopeptidase IdeS Mac Secreted immunoglobulin binding protein Sib38
Streptococcus sobrinus	VBIStrSob211566_0112	L-proline glycine betaine ABC transport system permease protein ProV TC 3.A.1.12.1
Streptococcus sobrinus	VBIStrSob214729_0651	Lantibiotic transport ATP-binding protein strF
Streptococcus sobrinus	VBIStrSob209984_0543	Lipid A export ATP-binding permease protein MsbA
Streptococcus sobrinus	VBIStrSob215046_0483	Lipoate-protein ligase A
Streptococcus sobrinus	VBIStrSob206829_1578	Maltose operon transcriptional repressor MalR 2C LacI family
Streptococcus sobrinus	VBIStrSob205529_0251	Manganese superoxide dismutase EC 1.15.1.1
Streptococcus sobrinus	VBIStrSob214729_3481	Manganese superoxide dismutase EC 1.15.1.1
Streptococcus sobrinus	VBIStrSob205050_0716	Membrane protein involved in the export of O-antigen 2C teichoic acid lipoteichoic acids
Streptococcus sobrinus	VBIStrSob205529_0542	Methionine ABC transporter ATP-binding protein
Streptococcus sobrinus	VBIStrSob205478_0671	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Streptococcus sobrinus	VBIStrSob205050_1163	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Streptococcus sobrinus	VBIStrSob214544_0646	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Streptococcus sobrinus	VBIStrSob212168_0763	Phosphoglucomutase EC 5.4.2.2

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Streptococcus sobrinus	VBIStrSob214544_0934	Prolipoprotein diacylglycerol transferase EC 2.4.99.-
Streptococcus sobrinus	VBIStrSob205050_0555	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Streptococcus sobrinus	VBIStrSob213128_0105	putative ATP-dependent Clp proteinase ATP-binding subunit
Streptococcus sobrinus	VBIStrSob214544_0103	Secreted Endo-beta-N-acetylglucosaminidase EndoS
Streptococcus sobrinus	VBIStrSob205529_0779	Sialidase EC 3.2.1.18
Streptococcus sobrinus	VBIStrSob214729_1324	Sortase A 2C LPXTG specific
Streptococcus sobrinus	VBIStrSob215046_0326	Streptococcal cysteine protease Streptopain EC 3.4.22.10 Streptococcal pyrogenic exotoxin B SpeB
Streptococcus sobrinus	VBIStrSob215046_0437	Translation elongation factor Tu
Streptococcus sobrinus	VBIStrSob205529_0449	Two-component sensor kinase SA14-24
Streptococcus sobrinus	VBIStrSob205050_0953	UDP-galactopyranose mutase EC 5.4.99.9
Streptococcus sobrinus	VBIStrSob209984_0904	UDP-glucose 4-epimerase EC 5.1.3.2
Streptococcus sobrinus	VBIStrSob209984_0537	UDP-glucose 4-epimerase EC 5.1.3.2
Streptococcus sobrinus	VBIStrSob215046_1592	Urease gamma subunit EC 3.5.1.5
Streptococcus sobrinus	VBIStrSob209984_0822	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Streptococcus sobrinus	VBIStrSob211566_0388	Zinc metalloprotease zmpB precursor EC 3.4.24.-
Streptococcus sp. oral taxon 056	VBIStrSp172755_0576	ABC transporter 2C ATP-binding permease protein
Streptococcus sp. oral taxon 058	VBIStrSp165326_1574	2 C3-butanediol dehydrogenase 2C S-alcohol forming 2C R-acetoin-specific EC 1.1.1.4 Acetoin diacetyl reductase EC
Streptococcus sp. oral taxon 058	VBIStrSp165326_0412	ABC transporter 2C ATP-binding permease protein
Streptococcus sp. oral taxon 058	VBIStrSp165326_0086	ABC transporter 2C ATP-binding permease protein
Streptococcus sp. oral taxon 058	VBIStrSp165326_0584	Branched-chain amino acid transport ATP-binding protein LivF TC 3.A.1.4.1
Streptococcus sp. oral taxon 058	VBIStrSp165326_1647	Exopolysaccharide biosynthesis transcriptional activator EpsA
Streptococcus sp. oral taxon 058	VBIStrSp165326_0025	Glucosyltransferase GtfG
Streptococcus sp. oral taxon 058	VBIStrSp165326_1240	Glucosyltransferase GtfG
Streptococcus sp. oral taxon 058	VBIStrSp165326_0372	Glucosyltransferase GtfG
Streptococcus sp. oral taxon 058	VBIStrSp165326_1745	hypothetical protein
Streptococcus sp. oral taxon 058	VBIStrSp165326_1669	hypothetical protein
Streptococcus sp. oral taxon 058	VBIStrSp165326_0129	putative ATP-dependent Clp proteinase ATP-binding subunit
Streptococcus sp. oral taxon 058	VBIStrSp165326_0365	putative ATP-dependent Clp proteinase ATP-binding subunit
Streptococcus sp. oral taxon 058	VBIStrSp165326_0098	Pyrroline-5-carboxylate reductase EC 1.5.1.2
Streptococcus sp. oral taxon 058	VBIStrSp165326_1476	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Streptococcus sp. oral taxon 058	VBIStrSp165326_0750	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Streptococcus sp. oral taxon 058	VBIStrSp165326_0861	Urease gamma subunit EC 3.5.1.5
Streptococcus sp. oral taxon 071	VBIStrSp169195_1605	Choline binding protein A
Streptococcus sp. oral taxon 071	VBIStrSp169195_1509	FIGO1114802 hypothetical protein
Streptococcus sp. oral taxon 071	VBIStrSp169195_0770	Glucosyltransferase GtfG
Streptococcus sp. oral taxon 071	VBIStrSp169195_0320	Glucosyltransferase GtfG
Streptococcus sp. oral taxon 071	VBIStrSp169195_1353	Urease gamma subunit EC 3.5.1.5
Streptococcus vestibularis	VBIStrVes170898_1087	Choline binding protein A
Streptococcus vestibularis	VBIStrVes170898_0327	Choline binding protein A
Synergistetes bacterium	VBISynBac132255_1608	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Synergistetes bacterium	VBISynBac132255_0579	Anthranilate phosphoribosyltransferase EC 2.4.2.18
Synergistetes bacterium	VBISynBac132255_1651	ATP synthase alpha chain EC 3.6.3.14
Synergistetes bacterium	VBISynBac132255_0762	Candidate zinc-binding lipoprotein ZinT
Synergistetes bacterium	VBISynBac132255_1650	cation-transporting ATPase 2C E1-E2 family
Synergistetes bacterium	VBISynBac132255_1383	cation-transporting ATPase 2C E1-E2 family
Synergistetes bacterium	VBISynBac132255_1774	Cell envelope-associated transcriptional attenuator LytR-CpsA-Psr 2C subfamily F2 as in PMID19099556
Synergistetes bacterium	VBISynBac132255_1876	Choline binding protein A
Synergistetes bacterium	VBISynBac132255_0025	Choline binding protein A
Synergistetes bacterium	VBISynBac132255_0216	Competence-stimulating peptide ABC transporter ATP-binding protein ComA
Synergistetes bacterium	VBISynBac132255_1313	Competence-stimulating peptide ABC transporter ATP-binding protein ComA
Synergistetes bacterium	VBISynBac132255_2228	D-alanyl-D-alanine carboxypeptidase EC 3.4.16.4
Synergistetes bacterium	VBISynBac132255_0946	FIGO1119388 hypothetical protein
Synergistetes bacterium	VBISynBac132255_0026	Glucosyltransferase GtfG
Synergistetes bacterium	VBISynBac132255_1780	Glucosyltransferase GtfG
Synergistetes bacterium	VBISynBac132255_0972	Hemolysin III
Synergistetes bacterium	VBISynBac132255_0028	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12 Plasminogen receptor
Synergistetes bacterium	VBISynBac132255_0171	Ornithine carbamoyltransferase EC 2.1.3.3
Synergistetes bacterium	VBISynBac132255_0434	Ornithine carbamoyltransferase EC 2.1.3.3
Synergistetes bacterium	VBISynBac132255_1144	Ornithine carbamoyltransferase EC 2.1.3.3
Synergistetes bacterium	VBISynBac132255_1860	Osmotically activated L-carnitine choline ABC transporter 2C ATP-binding protein OpuCA
Synergistetes bacterium	VBISynBac132255_0784	Phosphoglucomutase EC 5.4.2.2
Synergistetes bacterium	VBISynBac132255_0842	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Synergistetes bacterium	VBISynBac132255_1505	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Synergistetes bacterium	VBISynBac132255_1108	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Synergistetes bacterium	VBISynBac132255_1897	Putrescine carbamoyltransferase EC 2.1.3.6
Synergistetes bacterium	VBISynBac132255_0112	Putrescine carbamoyltransferase EC 2.1.3.6
Synergistetes bacterium	VBISynBac132255_1400	Streptococcal lipoprotein rotamase A 3B Peptidyl-prolyl cis-trans isomerase EC 5.2.1.8
Synergistetes bacterium	VBISynBac132255_1595	Translation elongation factor Tu
Synergistetes bacterium	VBISynBac132255_1896	Translation elongation factor Tu
Synergistetes bacterium	VBISynBac132255_0948	Two-component response regulator SA14-24
Synergistetes bacterium	VBISynBac132255_0030	Two-component response regulator SA14-24
Synergistetes bacterium	VBISynBac132255_1641	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Tannerella forsythia	VBITanFor42681_2037	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Tannerella forsythia	VBITanFor42681_1234	ABC transporter 2C ATP-binding protein EcsA
Tannerella forsythia	VBITanFor42681_1819	ABC transporter 2C ATP-binding protein Vex2
Tannerella forsythia	VBITanFor42681_1471	ABC transporter ATP-binding protein
Tannerella forsythia	VBITanFor42681_0797	ABC-transporter ATP-binding protein -possibly involved in cell wall localization and side chain formation of rhamnose-gluc
Tannerella forsythia	VBITanFor42681_0289	ABC-type antimicrobial peptide transport system 2C ATPase component
Tannerella forsythia	VBITanFor42681_1576	Alcohol dehydrogenase EC 1.1.1.1 3B Acetaldehyde dehydrogenase EC 1.2.1.10

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Tannerella forsythia	VBITanFor42681_0109	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L- rhamnosyltransferase EC 2.4.1.-
Tannerella forsythia	VBITanFor42681_0956	Alpha-L-Rha alpha-1 2C2-L-rhamnosyltransferase alpha-L-Rha alpha-1 2C3-L- rhamnosyltransferase EC 2.4.1.-
Tannerella forsythia	VBITanFor42681_0824	Anthranilate synthase 2C aminase component EC 4.1.3.27
Tannerella forsythia	VBITanFor42681_1745	ATP-dependent Clp protease 2C ATP-binding subunit ClpC
Tannerella forsythia	VBITanFor42681_1751	ATP-dependent Clp protease 2C ATP-binding subunit ClpC
Tannerella forsythia	VBITanFor42681_0010	ATP-dependent Clp protease 2C ATP-binding subunit ClpE
Tannerella forsythia	VBITanFor42681_1707	ATP-dependent Clp protease ATP-binding subunit ClpA
Tannerella forsythia	VBITanFor42681_0955	ATP-dependent Clp protease ATP-binding subunit ClpA
Tannerella forsythia	VBITanFor42681_0943	ATP-dependent Clp protease ATP-binding subunit ClpA
Tannerella forsythia	VBITanFor42681_1541	Branched-chain amino acid transport ATP-binding protein LivF TC 3.A.1.4.1
Tannerella forsythia	VBITanFor42681_0108	cation-transporting ATPase 2C E1-E2 family
Tannerella forsythia	VBITanFor42681_0016	cation-transporting ATPase 2C E1-E2 family
Tannerella forsythia	VBITanFor42681_1951	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Tannerella forsythia	VBITanFor42681_2537	Chemotaxis response regulator protein-glutamate methyltransferase CheB EC 3.1.1.61
Tannerella forsythia	VBITanFor42681_2531	CoA-acylating propionaldehyde dehydrogenase
Tannerella forsythia	VBITanFor42681_1430	COG1272 Predicted membrane protein hemolysin III homolog
Tannerella forsythia	VBITanFor42681_0095	Competence-stimulating peptide ABC transporter ATP-binding protein ComA
Tannerella forsythia	VBITanFor42681_0280	Competence-stimulating peptide ABC transporter ATP-binding protein ComA
Tannerella forsythia	VBITanFor42681_0384	Competence-stimulating peptide ABC transporter ATP-binding protein ComA
Tannerella forsythia	VBITanFor42681_0425	D-alanyl transfer protein DltB
Tannerella forsythia	VBITanFor42681_0937	D-alanyl-D-alanine carboxypeptidase EC 3.4.16.4
Tannerella forsythia	VBITanFor42681_0484	D-alanyl-D-alanine carboxypeptidase EC 3.4.16.4
Tannerella forsythia	VBITanFor42681_1635	Diaminopimelate decarboxylase EC 4.1.1.20
Tannerella forsythia	VBITanFor42681_1156	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Tannerella forsythia	VBITanFor42681_1794	Fibronectin fibrinogen-binding protein
Tannerella forsythia	VBITanFor42681_2078	Flagellar basal-body rod protein FlgC
Tannerella forsythia	VBITanFor42681_1932	Flagellar biosynthesis protein FliP
Tannerella forsythia	VBITanFor42681_1976	Flagellar motor rotation protein MotB
Tannerella forsythia	VBITanFor42681_1961	Flagellar motor switch protein FliM
Tannerella forsythia	VBITanFor42681_0597	GDP-mannose 4 2C6 dehydratase EC 4.2.1.47
Tannerella forsythia	VBITanFor42681_0261	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Tannerella forsythia	VBITanFor42681_0765	Glucosyltransferase GtfG
Tannerella forsythia	VBITanFor42681_0714	Glucosyltransferase GtfG
Tannerella forsythia	VBITanFor42681_0501	Glutamate-1-semialdehyde aminotransferase EC 5.4.3.8
Tannerella forsythia	VBITanFor42681_1233	Glutamine synthetase type I EC 6.3.1.2
Tannerella forsythia	VBITanFor42681_2619	Glycosyltransferase
Tannerella forsythia	VBITanFor42681_1265	Heat shock protein 60 family chaperone GroEL
Tannerella forsythia	VBITanFor42681_2499	HtrA protease chaperone protein
Tannerella forsythia	VBITanFor42681_2661	hypothetical protein
Tannerella forsythia	VBITanFor42681_0665	hypothetical protein
Tannerella forsythia	VBITanFor42681_2676	hypothetical protein
Tannerella forsythia	VBITanFor42681_2888	hypothetical protein
Tannerella forsythia	VBITanFor42681_1799	hypothetical protein
Tannerella forsythia	VBITanFor42681_1804	hypothetical protein
Tannerella forsythia	VBITanFor42681_0157	Lipid A export ATP-binding permease protein MsbA
Tannerella forsythia	VBITanFor42681_1324	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Tannerella forsythia	VBITanFor42681_0624	Manganese superoxide dismutase EC 1.15.1.1
Tannerella forsythia	VBITanFor42681_2530	Mannose-6-phosphate isomerase EC 5.3.1.8
Tannerella forsythia	VBITanFor42681_0635	Metalloprotease 2C putative zinc-binding domain
Tannerella forsythia	VBITanFor42681_1473	Methionine ABC transporter ATP-binding protein
Tannerella forsythia	VBITanFor42681_2241	Methionine ABC transporter ATP-binding protein
Tannerella forsythia	VBITanFor42681_1339	N-acetylmuramoyl-L-alanine amidase EC 3.5.1.28
Tannerella forsythia	VBITanFor42681_0415	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Tannerella forsythia	VBITanFor42681_1876	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Tannerella forsythia	VBITanFor42681_1301	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Tannerella forsythia	VBITanFor42681_0581	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Tannerella forsythia	VBITanFor42681_0588	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Tannerella forsythia	VBITanFor42681_1991	Polymyxin resistance protein ArnC 2C glycosyl transferase EC 2.4.-.-
Tannerella forsythia	VBITanFor42681_1340	Prolipoprotein diacylglyceryl transferase EC 2.4.99.-
Tannerella forsythia	VBITanFor42681_1884	Prolipoprotein diacylglyceryl transferase EC 2.4.99.-
Tannerella forsythia	VBITanFor42681_0493	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Tannerella forsythia	VBITanFor42681_1856	putative cross-wall-targeting lipoprotein signal
Tannerella forsythia	VBITanFor42681_0637	putative glucan-binding protein D 3B BglB-like protein
Tannerella forsythia	VBITanFor42681_2565	RNA polymerase sigma factor for flagellar operon
Tannerella forsythia	VBITanFor42681_2242	RNA polymerase sigma factor RpoD
Tannerella forsythia	VBITanFor42681_0931	Serine threonine protein kinase PrkC 2C regulator of stationary phase
Tannerella forsythia	VBITanFor42681_2624	Transport ATP-binding protein CydC
Tannerella forsythia	VBITanFor42681_1095	Tyrosine-protein phosphatase CpsB EC 3.1.3.48
Tannerella forsythia	VBITanFor42681_0239	UDP-galactopyranose mutase EC 5.4.99.9
Tannerella forsythia	VBITanFor42681_1283	UDP-glucose dehydrogenase EC 1.1.1.22
Tannerella forsythia	VBITanFor42681_1538	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Tannerella forsythia	VBITanFor42681_1232	UTP--glucose-1-phosphate uridylyltransferase EC 2.7.7.9
Treponema denticola	VBITreDen445_0626	2-amino-3-ketobutyrate coenzyme A ligase EC 2.3.1.29
Treponema denticola	VBITreDen150577_1587	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Treponema denticola	VBITreDen150577_0263	3-deoxy-manno-octulosonate cytidylyltransferase EC 2.7.7.38
Treponema denticola	VBITreDen445_2601	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Treponema denticola	VBITreDen445_1359	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Treponema denticola	VBITreDen150577_1861	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Treponema denticola	VBITreDen150577_0527	3-oxoacyl-acyl-carrier-protein synthase 2C KASI EC 2.3.1.41

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Treponema denticola	VBITreDen150577_2621	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Treponema denticola	VBITreDen445_2196	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Treponema denticola	VBITreDen150577_2662	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_1610	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_1433	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_0578	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_1455	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen150577_2298	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen150577_2319	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_2459	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_1597	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_2451	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_1609	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen445_1921	ABC transporter 2C ATP-binding permease protein
Treponema denticola	VBITreDen150577_2462	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen150577_2483	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_1223	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen150577_2223	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_1171	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_2607	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_2170	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_2388	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_0042	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_0903	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen150577_1389	ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_1036	ABC transporter 2C ATP-binding protein 2C putative
Treponema denticola	VBITreDen150577_0541	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen445_0264	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen445_1616	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen150577_1387	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen445_1480	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen150577_2489	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen150577_1285	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen150577_1411	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen445_1195	ABC transporter ATP-binding protein
Treponema denticola	VBITreDen150577_0605	ABC transporter ATP-binding protein YvcR
Treponema denticola	VBITreDen445_1283	ABC-type multidrug transport system 2C ATPase and permease components
Treponema denticola	VBITreDen445_2386	ABC-type multidrug transport system 2C ATPase and permease components
Treponema denticola	VBITreDen445_2612	ABC-type multidrug transport system 2C ATPase component
Treponema denticola	VBITreDen150577_1143	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Treponema denticola	VBITreDen150577_2567	Acyl-coenzyme A synthetases AMP-fatty acid ligases
Treponema denticola	VBITreDen150577_0587	Acyl-coenzyme A synthetases AMP-fatty acid ligases
Treponema denticola	VBITreDen445_2209	Acyl-coenzyme A synthetases AMP-fatty acid ligases
Treponema denticola	VBITreDen150577_1872	Adenylate cyclase EC 4.6.1.1
Treponema denticola	VBITreDen150577_1604	Alpha-D-GlcNAc alpha-1 2C2-L-rhamnosyltransferase EC 2.4.1.-
Treponema denticola	VBITreDen150577_1011	Arabinose 5-phosphate isomerase EC 5.3.1.13
Treponema denticola	VBITreDen150577_0934	arylsulfatase
Treponema denticola	VBITreDen150577_0711	ATP synthase alpha chain EC 3.6.3.14
Treponema denticola	VBITreDen150577_0726	ATP synthase beta chain EC 3.6.3.14
Treponema denticola	VBITreDen445_0673	ATP-dependent Clp protease ATP-binding subunit ClpA
Treponema denticola	VBITreDen445_0627	ATP-dependent Clp protease ATP-binding subunit ClpA
Treponema denticola	VBITreDen445_2626	capsular polysaccharide biosynthesis protein
Treponema denticola	VBITreDen445_1382	capsular polysaccharide biosynthesis protein
Treponema denticola	VBITreDen150577_0210	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Treponema denticola	VBITreDen150577_0797	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Treponema denticola	VBITreDen445_1134	Cell division trigger factor EC 5.2.1.8
Treponema denticola	VBITreDen445_1367	Chemotaxis protein methyltransferase CheR EC 2.1.1.80
Treponema denticola	VBITreDen445_2609	Chemotaxis protein methyltransferase CheR EC 2.1.1.80
Treponema denticola	VBITreDen445_1028	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Treponema denticola	VBITreDen445_2610	Chemotaxis response regulator protein-glutamate methylesterase CheB EC 3.1.1.61
Treponema denticola	VBITreDen445_1374	Chemotaxis response regulator protein-glutamate methylesterase CheB EC 3.1.1.61
Treponema denticola	VBITreDen445_0886	Cholinephosphate cytidyltransferase EC 2.7.7.15 Choline kinase EC 2.7.1.32
Treponema denticola	VBITreDen445_0573	ClpB protein
Treponema denticola	VBITreDen150577_1315	di-trans 2Cpoly-cis-decaprenylcistransferase
Treponema denticola	VBITreDen150577_0840	Diaminopimelate decarboxylase EC 4.1.1.20
Treponema denticola	VBITreDen150577_0258	Diaminopimelate decarboxylase EC 4.1.1.20
Treponema denticola	VBITreDen445_2007	Dipeptide transport ATP-binding protein DppF TC 3.A.1.5.2
Treponema denticola	VBITreDen445_2179	DNA-binding response regulator
Treponema denticola	VBITreDen150577_1873	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Treponema denticola	VBITreDen150577_1684	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Treponema denticola	VBITreDen445_0964	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Treponema denticola	VBITreDen150577_1667	Enolase EC 4.2.1.11
Treponema denticola	VBITreDen445_1797	Enolase EC 4.2.1.11
Treponema denticola	VBITreDen150577_1439	exopolysaccharide biosynthesis polyprenyl glycosylphosphotransferase
Treponema denticola	VBITreDen150577_2291	Ferric iron ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen445_2157	Ferrichrome transport system permease protein FhuB TC 3.A.1.14.3
Treponema denticola	VBITreDen150577_1665	Ferrous iron transport protein B
Treponema denticola	VBITreDen445_0890	FIG01187002 hypothetical protein
Treponema denticola	VBITreDen445_0732	Flagellar basal-body rod protein FlgC

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Treponema denticola	VBITreDen445_1895	Flagellar basal-body rod protein FlgF
Treponema denticola	VBITreDen445_1896	Flagellar basal-body rod protein FlgG
Treponema denticola	VBITreDen445_2220	Flagellar biosynthesis protein FlhA
Treponema denticola	VBITreDen150577_2566	Flagellar biosynthesis protein FlhB
Treponema denticola	VBITreDen445_2212	Flagellar biosynthesis protein FlhB
Treponema denticola	VBITreDen150577_2704	Flagellar biosynthesis protein FlhP
Treponema denticola	VBITreDen150577_2665	Flagellar hook protein FlgE
Treponema denticola	VBITreDen445_0336	Flagellar hook-associated protein FlgK
Treponema denticola	VBITreDen445_0790	Flagellar M-ring protein FlhF
Treponema denticola	VBITreDen150577_2699	Flagellar motor rotation protein MotA
Treponema denticola	VBITreDen150577_2701	Flagellar motor rotation protein MotB
Treponema denticola	VBITreDen445_0791	Flagellar motor switch protein FlhG
Treponema denticola	VBITreDen150577_2703	Flagellar motor switch protein FlhM
Treponema denticola	VBITreDen445_0030	Flagellar synthesis regulator FlhN
Treponema denticola	VBITreDen445_1022	Flagellin protein FlaA
Treponema denticola	VBITreDen445_0967	Flagellin protein FlaA
Treponema denticola	VBITreDen445_1862	Flagellin protein FlaA
Treponema denticola	VBITreDen445_0867	Flagellum-specific ATP synthase Flil
Treponema denticola	VBITreDen150577_2180	GDP-mannose 4 2C6 dehydratase EC 4.2.1.47
Treponema denticola	VBITreDen150577_2070	gliding motility-associated protein GlfE
Treponema denticola	VBITreDen150577_1879	gluconate 5-dehydrogenase
Treponema denticola	VBITreDen150577_0599	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Treponema denticola	VBITreDen445_0056	Glycerol-3-phosphate dehydrogenase EC 1.1.5.3
Treponema denticola	VBITreDen150577_1025	Glycosyl transferase 2C group 2 family protein
Treponema denticola	VBITreDen150577_1735	Glycosyltransferase
Treponema denticola	VBITreDen150577_0670	glycosyltransferase 2C group 1 family protein
Treponema denticola	VBITreDen150577_1588	glycosyltransferase 2C group 2 family protein
Treponema denticola	VBITreDen150577_0841	GTP pyrophosphokinase EC 2.7.6.5 Guanosine-3' 2C5'-bisdiphosphate 3'-pyrophosphohydrolase EC 3.1.7.2
Treponema denticola	VBITreDen150577_1357	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Treponema denticola	VBITreDen445_2102	Heat shock protein 60 family chaperone GroEL
Treponema denticola	VBITreDen150577_0602	HtrA protease chaperone protein
Treponema denticola	VBITreDen150577_2380	hypothetical protein
Treponema denticola	VBITreDen150577_2381	hypothetical protein
Treponema denticola	VBITreDen445_0240	hypothetical protein
Treponema denticola	VBITreDen445_0266	hypothetical protein
Treponema denticola	VBITreDen445_2412	hypothetical protein
Treponema denticola	VBITreDen150577_2177	hypothetical protein
Treponema denticola	VBITreDen150577_1428	hypothetical protein
Treponema denticola	VBITreDen445_2417	hypothetical protein
Treponema denticola	VBITreDen150577_2626	hypothetical protein
Treponema denticola	VBITreDen150577_2635	hypothetical protein
Treponema denticola	VBITreDen445_2109	Hypothetical radical SAM family enzyme 2C NOT coproporphyrinogen III oxidase 2C oxygen-independent
Treponema denticola	VBITreDen150577_0230	Internalin-like protein LPXTG motif Lmo0331 homolog
Treponema denticola	VBITreDen150577_0211	Internalin-like protein LPXTG motif Lmo0331 homolog
Treponema denticola	VBITreDen150577_0257	Internalin-like protein LPXTG motif Lmo0331 homolog
Treponema denticola	VBITreDen445_2483	internalin-related protein
Treponema denticola	VBITreDen445_2538	internalin-related protein
Treponema denticola	VBITreDen445_1355	internalin-related protein
Treponema denticola	VBITreDen445_1356	internalin-related protein
Treponema denticola	VBITreDen445_2502	internalin-related protein
Treponema denticola	VBITreDen445_2537	internalin-related protein
Treponema denticola	VBITreDen445_1291	internalin-related protein
Treponema denticola	VBITreDen445_2535	internalin-related protein
Treponema denticola	VBITreDen445_1294	internalin-related protein
Treponema denticola	VBITreDen150577_0540	iron chelate uptake ABC transporter 2C FeCT family 2C permease protein
Treponema denticola	VBITreDen445_2136	iron compound ABC transporter
Treponema denticola	VBITreDen150577_0322	L-arginineglycine amidinotransferase
Treponema denticola	VBITreDen150577_2482	Lipid A export ATP-binding permease protein MsbA
Treponema denticola	VBITreDen150577_0586	Lipid A export ATP-binding permease protein MsbA
Treponema denticola	VBITreDen445_2071	Lipid A export ATP-binding permease protein MsbA
Treponema denticola	VBITreDen445_2225	Lipid A export ATP-binding permease protein MsbA
Treponema denticola	VBITreDen150577_0551	Lipid A export ATP-binding permease protein MsbA
Treponema denticola	VBITreDen445_0304	Lipid A export ATP-binding permease protein MsbA
Treponema denticola	VBITreDen445_1133	Lipoate-protein ligase A
Treponema denticola	VBITreDen445_0879	Magnesium and cobalt efflux protein CorC
Treponema denticola	VBITreDen150577_2224	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Treponema denticola	VBITreDen445_0868	Manganese ABC transporter 2C ATP-binding protein SitB
Treponema denticola	VBITreDen150577_2129	Mannose-1-phosphate guanylyltransferase GDP EC 2.7.7.22
Treponema denticola	VBITreDen445_0349	membrane-associated zinc metalloprotease
Treponema denticola	VBITreDen150577_2326	methyl-accepting chemotaxis protein
Treponema denticola	VBITreDen445_2432	methyl-accepting chemotaxis protein
Treponema denticola	VBITreDen150577_2627	methyl-accepting chemotaxis protein
Treponema denticola	VBITreDen150577_1176	N-acetylglucosamine deacetylase EC 3.5.1.- 3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Treponema denticola	VBITreDen150577_1050	N-acetylneuraminate synthase EC 2.5.1.56
Treponema denticola	VBITreDen150577_1359	NAD-dependent 4-hydroxybutyrate dehydrogenase EC 1.1.1.61
Treponema denticola	VBITreDen150577_0588	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Treponema denticola	VBITreDen445_1027	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Treponema denticola	VBITreDen445_0701	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Treponema denticola	VBITreDen150577_0320	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1

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Treponema denticola	VBITreDen150577_0397	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Treponema denticola	VBITreDen445_0889	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Treponema denticola	VBITreDen445_1964	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Treponema denticola	VBITreDen150577_0296	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema denticola	VBITreDen150577_0493	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema denticola	VBITreDen445_1935	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema denticola	VBITreDen445_1861	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema denticola	VBITreDen445_0310	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema denticola	VBITreDen445_0309	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema denticola	VBITreDen150577_0335	Ornithine carbamoyltransferase EC 2.1.3.3
Treponema denticola	VBITreDen445_1676	Ornithine carbamoyltransferase EC 2.1.3.3
Treponema denticola	VBITreDen150577_2016	outer membrane protein MIP
Treponema denticola	VBITreDen150577_0600	Pantoate-beta-alanine ligase EC 6.3.2.1
Treponema denticola	VBITreDen150577_1945	peptidyl-prolyl cis-trans isomerase 2C FKBP-type
Treponema denticola	VBITreDen445_0892	Phosphoenolpyruvate phosphomutase EC 5.4.2.9
Treponema denticola	VBITreDen150577_1707	Phosphoglucosaminidase EC 5.4.2.2
Treponema denticola	VBITreDen150577_1514	Phosphonannomutase EC 5.4.2.8 Phosphoglucosamine mutase EC 5.4.2.10
Treponema denticola	VBITreDen445_0897	Phosphopyruvate decarboxylase EC 4.1.1.82
Treponema denticola	VBITreDen150577_2155	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Treponema denticola	VBITreDen445_1380	Phosphoribosylaminoimidazole-succinocarboxamide synthase EC 6.3.2.6
Treponema denticola	VBITreDen150577_1008	Pleiotropic regulatory protein
Treponema denticola	VBITreDen150577_0685	polysaccharide biosynthesis protein
Treponema denticola	VBITreDen150577_1084	probable bacteriocin lantibiotic ABC transporter 2C ATP-binding protein
Treponema denticola	VBITreDen150577_0728	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Treponema denticola	VBITreDen445_1212	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Treponema denticola	VBITreDen150577_1386	putative coproporphyrinogen dehydrogenase
Treponema denticola	VBITreDen150577_1396	Putative dipeptidase 2C pyoverdin biosynthesis
Treponema denticola	VBITreDen150577_1591	putative membrane protein
Treponema denticola	VBITreDen150577_1065	putative transcriptional regulatory protein afsQ1
Treponema denticola	VBITreDen150577_0999	putative transcriptional regulatory protein RprY
Treponema denticola	VBITreDen150577_2507	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Treponema denticola	VBITreDen445_1235	Response regulator of zinc sigma-54-dependent two-component system
Treponema denticola	VBITreDen445_0891	RNA polymerase sigma factor RpoD
Treponema denticola	VBITreDen150577_2564	RNA polymerase sigma factor RpoD
Treponema denticola	VBITreDen445_1757	RNA polymerase sigma factor RpoD
Treponema denticola	VBITreDen445_0035	RNA polymerase sigma factor SigB
Treponema denticola	VBITreDen150577_2264	sensor histidine kinase response regulator
Treponema denticola	VBITreDen445_0691	sigma-54 dependent transcriptional regulator
Treponema denticola	VBITreDen150577_1384	Succinate-semialdehyde dehydrogenase 2C CoA-dependent
Treponema denticola	VBITreDen150577_0336	sulfate transport ATP-binding protein
Treponema denticola	VBITreDen150577_1518	Superoxide dismutase Fe EC 1.15.1.1
Treponema denticola	VBITreDen150577_0191	Teichoic acid export ATP-binding protein TagH EC 3.6.3.40
Treponema denticola	VBITreDen150577_0796	thermolysin metalloproteinase 2C catalytic domain protein
Treponema denticola	VBITreDen150577_1678	TonB-dependent receptor
Treponema denticola	VBITreDen150577_1627	Transcriptional regulatory protein rprY
Treponema denticola	VBITreDen150577_0345	Translation elongation factor Tu
Treponema denticola	VBITreDen445_1427	Translation elongation factor Tu
Treponema denticola	VBITreDen445_0239	Transport ATP-binding protein CydC
Treponema denticola	VBITreDen150577_2477	Transport ATP-binding protein CydC
Treponema denticola	VBITreDen445_2369	Transport ATP-binding protein CydC
Treponema denticola	VBITreDen445_0722	Transport ATP-binding protein CydC
Treponema denticola	VBITreDen150577_2496	Transport ATP-binding protein CydC
Treponema denticola	VBITreDen445_0731	Transport ATP-binding protein CydD
Treponema denticola	VBITreDen445_0057	Transport ATP-binding protein CydD
Treponema denticola	VBITreDen445_2231	transporter
Treponema denticola	VBITreDen150577_2481	transporter
Treponema denticola	VBITreDen150577_0077	two component transcriptional regulator 2C LuxR family
Treponema denticola	VBITreDen150577_1244	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Treponema denticola	VBITreDen445_1415	UDP-4-amino-4-deoxy-L-arabinose-oxoglutarate aminotransferase EC 2.6.1.-
Treponema denticola	VBITreDen150577_0597	UDP-glucose 4-epimerase EC 5.1.3.2
Treponema denticola	VBITreDen445_1173	UDP-glucose 4-epimerase EC 5.1.3.2
Treponema denticola	VBITreDen150577_2109	UDP-glucose dehydrogenase EC 1.1.1.22
Treponema denticola	VBITreDen445_0948	UDP-glucose dehydrogenase EC 1.1.1.22
Treponema denticola	VBITreDen150577_0672	UDP-glucose dehydrogenase EC 1.1.1.22
Treponema denticola	VBITreDen150577_2549	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158
Treponema denticola	VBITreDen150577_1042	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Treponema denticola	VBITreDen150577_1036	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Treponema denticola	VBITreDen445_0348	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Treponema denticola	VBITreDen445_0040	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Treponema denticola	VBITreDen150577_0708	V-type ATP synthase subunit A EC 3.6.3.14
Treponema denticola	VBITreDen445_1168	V-type ATP synthase subunit A EC 3.6.3.14
Treponema denticola	VBITreDen445_1137	V-type ATP synthase subunit B EC 3.6.3.14
Treponema denticola	VBITreDen150577_0511	V-type ATP synthase subunit B EC 3.6.3.14
Treponema denticola	VBITreDen445_1416	Vitamin B12 ABC transporter 2C permease component BtuC
Treponema denticola	VBITreDen445_0603	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Treponema lecithinolyticum	tlec_c_313_7	ABC transporter 2C ATP-binding permease protein
Treponema lecithinolyticum	tlec_c_162_15	ABC transporter 2C ATP-binding permease protein
Treponema lecithinolyticum	tlec_c_408_3	ABC transporter 2C ATP-binding permease protein
Treponema lecithinolyticum	tlec_c_280_4	ABC transporter 2C ATP-binding permease protein

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Treponema lecithinolyticum	tlec_c_189_2	ABC transporter 2C ATP-binding permease protein
Treponema lecithinolyticum	tlec_c_166_3	ABC transporter 2C ATP-binding permease protein
Treponema lecithinolyticum	tlec_c_292_2	ABC transporter 2C ATP-binding permease protein
Treponema lecithinolyticum	tlec_c_426_13	ABC transporter ATP-binding protein
Treponema lecithinolyticum	tlec_c_43_3	ABC transporter ATP-binding protein
Treponema lecithinolyticum	tlec_c_206_2	ABC transporter ATP-binding protein
Treponema lecithinolyticum	tlec_c_81_19	methyl-accepting chemotaxis protein
Treponema lecithinolyticum	tlec_c_5_2	Ornithine carbamoyltransferase EC 2.1.3.3
Treponema lecithinolyticum	tlec_c_1083_1	UDP-4-amino-4-deoxy-L-arabinose-oxoglutarate aminotransferase EC 2.6.1.-
Treponema lecithinolyticum	tlec_c_149_2	Vitamin B12 ABC transporter 2C ATPase component BtuD
Treponema lecithinolyticum	tlec_c_14_8	Vitamin B12 ABC transporter 2C permease component BtuC
Treponema lecithinolyticum	tlec_c_155_3	Vitamin B12 ABC transporter 2C permease component BtuC
Treponema pallidum	VBITrePal10923_0544	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Treponema pallidum	VBITrePal57110_0542	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Treponema pallidum	VBITrePal10923_0846	ATP-dependent Clp protease ATP-binding subunit ClpA
Treponema pallidum	VBITrePal57110_0846	ATP-dependent Clp protease ATP-binding subunit ClpA
Treponema pallidum	VBITrePal10923_0082	capsular polysaccharide biosynthesis protein
Treponema pallidum	VBITrePal57110_0085	capsular polysaccharide biosynthesis protein
Treponema pallidum	VBITrePal10923_0073	ClpB protein
Treponema pallidum	VBITrePal57110_0076	ClpB protein
Treponema pallidum	VBITrePal10923_0864	Enolase EC 4.2.1.11
Treponema pallidum	VBITrePal57110_0865	Enolase EC 4.2.1.11
Treponema pallidum	VBITrePal10923_1016	Flagellar basal-body rod protein FlgF
Treponema pallidum	VBITrePal10923_1015	Flagellar basal-body rod protein FlgG
Treponema pallidum	VBITrePal57110_1013	Flagellar basal-body rod protein FlgG
Treponema pallidum	VBITrePal57110_0763	Flagellar biosynthesis protein FljP
Treponema pallidum	VBITrePal10923_0701	Flagellar hook-associated protein FlgK
Treponema pallidum	VBITrePal57110_0701	Flagellar hook-associated protein FlgK
Treponema pallidum	VBITrePal10923_0427	Flagellar motor switch protein FljG
Treponema pallidum	VBITrePal57110_0424	Flagellar motor switch protein FljG
Treponema pallidum	VBITrePal10923_0765	Flagellar motor switch protein FljM
Treponema pallidum	VBITrePal57110_0766	Flagellar motor switch protein FljM
Treponema pallidum	VBITrePal10923_0764	Flagellar motor switch protein FljN
Treponema pallidum	VBITrePal57110_0765	Flagellar motor switch protein FljN
Treponema pallidum	VBITrePal10923_0756	Flagellar synthesis regulator FleN
Treponema pallidum	VBITrePal57110_0757	Flagellar synthesis regulator FleN
Treponema pallidum	VBITrePal57110_0921	Flagellin protein FlaA
Treponema pallidum	VBITrePal10923_0923	Flagellin protein FlaA
Treponema pallidum	VBITrePal57110_0923	Flagellin protein FlaA
Treponema pallidum	VBITrePal10923_0848	Glycerol-3-phosphate ABC transporter 2C ATP-binding protein UgpC TC 3.A.1.1.3
Treponema pallidum	VBITrePal10923_0624	Lipoprotein releasing system ATP-binding protein LolD
Treponema pallidum	VBITrePal57110_0621	Lipoprotein releasing system ATP-binding protein LolD
Treponema pallidum	VBITrePal10923_0894	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Treponema pallidum	VBITrePal10923_0347	Outer membrane protein assembly factor YaeT precursor
Treponema pallidum	VBITrePal57110_0343	Outer membrane protein assembly factor YaeT precursor
Treponema pallidum	VBITrePal10923_0891	Outer membrane stress sensor protease DegS
Treponema pallidum	VBITrePal57110_0892	Outer membrane stress sensor protease DegS
Treponema pallidum	VBITrePal10923_0608	Probable polybeta-D-mannuronate O-acetylase EC 2.3.1.-
Treponema pallidum	VBITrePal10923_0404	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Treponema pallidum	VBITrePal57110_0401	Protein export cytoplasm protein SecA ATPase RNA helicase TC 3.A.5.1.1
Treponema pallidum	VBITrePal57110_0552	Response regulator of zinc sigma-54-dependent two-component system
Treponema pallidum	VBITrePal10923_0529	RNA polymerase sigma factor RpoD
Treponema pallidum	VBITrePal10923_1069	RNA polymerase sigma factor RpoD
Treponema pallidum	VBITrePal57110_0527	RNA polymerase sigma factor RpoD
Treponema pallidum	VBITrePal57110_1067	RNA polymerase sigma factor RpoD
Treponema pallidum	VBITrePal57110_0090	sigma-54 dependent transcriptional regulator 2C putative
Treponema pallidum	VBITrePal10923_0203	Translation elongation factor Tu
Treponema pallidum	VBITrePal57110_0203	Translation elongation factor Tu
Treponema pallidum	VBITrePal10923_0643	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Treponema pallidum	VBITrePal57110_0642	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Treponema pallidum	VBITrePal57110_0564	V-type ATP synthase subunit A EC 3.6.3.14
Treponema pallidum	VBITrePal10923_0457	V-type ATP synthase subunit A EC 3.6.3.14
Treponema pallidum	VBITrePal57110_0453	V-type ATP synthase subunit A EC 3.6.3.14
Treponema pallidum	VBITrePal10923_0567	V-type ATP synthase subunit A EC 3.6.3.14
Treponema pallidum	VBITrePal10923_0458	V-type ATP synthase subunit B EC 3.6.3.14
Treponema pallidum	VBITrePal57110_0454	V-type ATP synthase subunit B EC 3.6.3.14
Treponema pallidum	VBITrePal10923_0566	V-type ATP synthase subunit B EC 3.6.3.14
Treponema pallidum	VBITrePal57110_0563	V-type ATP synthase subunit B EC 3.6.3.14
Treponema pallidum	VBITrePal57110_0178	Zinc ABC transporter 2C periplasmic-binding protein ZnuA 3B Manganese ABC transporter 2C periplasmic-binding protein
Treponema vincentii	VBITreVin125179_0171	2-amino-3-ketobutyrate coenzyme A ligase EC 2.3.1.29
Treponema vincentii	VBITreVin125179_2382	3-oxoacyl-ACP reductase EC 1.1.1.100
Treponema vincentii	VBITreVin125179_0905	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Treponema vincentii	VBITreVin125179_0906	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Treponema vincentii	VBITreVin125179_0079	ABC transporter 2C ATP-binding permease protein
Treponema vincentii	VBITreVin125179_0080	ABC transporter 2C ATP-binding permease protein
Treponema vincentii	VBITreVin125179_0267	ABC transporter 2C ATP-binding permease protein
Treponema vincentii	VBITreVin125179_0268	ABC transporter 2C ATP-binding permease protein
Treponema vincentii	VBITreVin125179_0533	ABC transporter 2C ATP-binding permease protein
Treponema vincentii	VBITreVin125179_2167	ABC transporter 2C ATP-binding permease protein 2C putative

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Treponema vincentii	VBITreVin125179_1820	Alkyl hydroperoxide reductase protein C EC 1.6.4.-
Treponema vincentii	VBITreVin125179_0035	capsular polysaccharide biosynthesis protein
Treponema vincentii	VBITreVin125179_0691	Cell division transporter 2C ATP-binding protein FtsE TC 3.A.5.1.1
Treponema vincentii	VBITreVin125179_0661	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Treponema vincentii	VBITreVin125179_1752	Chemotaxis regulator - transmits chemoreceptor signals to flagellar motor components CheY
Treponema vincentii	VBITreVin125179_1662	Chemotaxis response regulator protein-glutamate methyltransferase CheB EC 3.1.1.61
Treponema vincentii	VBITreVin125179_0108	Cholinephosphate cytidyltransferase EC 2.7.7.15 Choline kinase EC 2.7.1.32
Treponema vincentii	VBITreVin125179_1278	ClpB protein
Treponema vincentii	VBITreVin125179_1617	ClpB protein
Treponema vincentii	VBITreVin125179_0607	COG1272 Predicted membrane protein hemolysin III homolog
Treponema vincentii	VBITreVin125179_0552	D-glycero-D-manno-heptose 1 2C7-bisphosphate phosphatase EC 3.1.1.-
Treponema vincentii	VBITreVin125179_0546	dTDP-4-dehydrorhamnose 3 2C5-epimerase EC 5.1.3.13
Treponema vincentii	VBITreVin125179_0545	dTDP-4-dehydrorhamnose reductase EC 1.1.1.133
Treponema vincentii	VBITreVin125179_0544	dTDP-glucose 4 2C6-dehydratase EC 4.2.1.46
Treponema vincentii	VBITreVin125179_0428	Duplicated ATPase component BL0693 of energizing module of predicted ECF transporter
Treponema vincentii	VBITreVin125179_0396	Enolase EC 4.2.1.11
Treponema vincentii	VBITreVin125179_1676	Fibronectin fibrinogen-binding protein
Treponema vincentii	VBITreVin125179_0637	FIG01187002 hypothetical protein
Treponema vincentii	VBITreVin125179_2381	FIG138576 3-oxoacyl-ACP synthase EC 2.3.1.41
Treponema vincentii	VBITreVin125179_0727	FKBP-type peptidyl-prolyl cis-trans isomerase FkpA precursor EC 5.2.1.8
Treponema vincentii	VBITreVin125179_1724	Flagellar basal-body rod protein FlgC
Treponema vincentii	VBITreVin125179_1431	Flagellar basal-body rod protein FlgG
Treponema vincentii	VBITreVin125179_1457	Flagellar biosynthesis protein FlhB
Treponema vincentii	VBITreVin125179_1460	Flagellar biosynthesis protein FlhP
Treponema vincentii	VBITreVin125179_1468	Flagellar hook protein FlgE
Treponema vincentii	VBITreVin125179_1466	Flagellar motor rotation protein MotA
Treponema vincentii	VBITreVin125179_1721	Flagellar motor switch protein FlhG
Treponema vincentii	VBITreVin125179_1454	Flagellar synthesis regulator FlhN
Treponema vincentii	VBITreVin125179_1346	Gamma-glutamyltranspeptidase PgsD CapD EC 2.3.2.2 2C catalyses PGA anchorage to peptidoglycan
Treponema vincentii	VBITreVin125179_1345	Gamma-glutamyltranspeptidase PgsD CapD EC 2.3.2.2 2C catalyses PGA anchorage to peptidoglycan
Treponema vincentii	VBITreVin125179_0547	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Treponema vincentii	VBITreVin125179_0548	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Treponema vincentii	VBITreVin125179_0235	Hemin ABC transporter 2C permease protein
Treponema vincentii	VBITreVin125179_1047	HtrA protease chaperone protein
Treponema vincentii	VBITreVin125179_0785	hypothetical protein
Treponema vincentii	VBITreVin125179_0442	hypothetical protein
Treponema vincentii	VBITreVin125179_0127	Lipid A export ATP-binding permease protein MsbA
Treponema vincentii	VBITreVin125179_1794	Lipopolysaccharide ABC transporter 2C ATP-binding protein LptB
Treponema vincentii	VBITreVin125179_2154	Magnesium and cobalt efflux protein CorC
Treponema vincentii	VBITreVin125179_0904	Malonyl CoA-acyl carrier protein transacylase EC 2.3.1.39
Treponema vincentii	VBITreVin125179_2217	Maltose maltodextrin transport ATP-binding protein MalK EC 3.6.3.19 3B Multiple sugar ABC transporter 2C ATP-binding
Treponema vincentii	VBITreVin125179_0866	Methionine ABC transporter ATP-binding protein
Treponema vincentii	VBITreVin125179_0505	methyl-accepting chemotaxis protein
Treponema vincentii	VBITreVin125179_0401	Molybdenum transport ATP-binding protein ModC TC 3.A.1.8.1
Treponema vincentii	VBITreVin125179_1178	NAD-dependent glyceraldehyde-3-phosphate dehydrogenase EC 1.2.1.12
Treponema vincentii	VBITreVin125179_0624	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Treponema vincentii	VBITreVin125179_1924	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Treponema vincentii	VBITreVin125179_1838	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Treponema vincentii	VBITreVin125179_1927	Oligopeptide transport ATP-binding protein OppD TC 3.A.1.5.1
Treponema vincentii	VBITreVin125179_1839	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema vincentii	VBITreVin125179_1928	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Treponema vincentii	VBITreVin125179_2190	Ornithine carbamoyltransferase EC 2.1.3.3
Treponema vincentii	VBITreVin125179_1416	Outer membrane protein assembly factor YaeT precursor
Treponema vincentii	VBITreVin125179_0763	Phosphoenolpyruvate phosphomutase EC 5.4.2.9
Treponema vincentii	VBITreVin125179_2037	Phosphoglucosyltransferase EC 5.4.2.2
Treponema vincentii	VBITreVin125179_2233	Phosphonate ABC transporter ATP-binding protein TC 3.A.1.9.1
Treponema vincentii	VBITreVin125179_0762	Phosphonopyruvate decarboxylase EC 4.1.1.82
Treponema vincentii	VBITreVin125179_1338	Poly-gamma-glutamate synthase subunit PgsB CapB EC 6.3.2.-
Treponema vincentii	VBITreVin125179_2221	Putative ABC transporter ATP-binding protein 2C spy1790 homolog
Treponema vincentii	VBITreVin125179_0868	Putative coproporphyrinogen III oxidase of BS HemN-type 2C oxygen-independent EC 1.3.99.22 2C in heat shock gene c
Treponema vincentii	VBITreVin125179_0097	Putrescine transport ATP-binding protein PotA TC 3.A.1.11.1
Treponema vincentii	VBITreVin125179_1751	Response regulator of zinc sigma-54-dependent two-component system
Treponema vincentii	VBITreVin125179_1632	RNA polymerase sigma factor RpoD
Treponema vincentii	VBITreVin125179_1185	RNA polymerase sigma factor RpoD
Treponema vincentii	VBITreVin125179_1932	RNA polymerase sigma factor RpoE
Treponema vincentii	VBITreVin125179_0024	Selenocysteine-specific translation elongation factor
Treponema vincentii	VBITreVin125179_0711	Sigma-54 dependent transcriptional regulator
Treponema vincentii	VBITreVin125179_0653	Sigma-54-dependent transcriptional activator
Treponema vincentii	VBITreVin125179_0009	Signal transduction histidine kinase CheA EC 2.7.3.-
Treponema vincentii	VBITreVin125179_1675	thiamine ABC transporter 2C ATP-binding protein
Treponema vincentii	VBITreVin125179_1895	Transport ATP-binding protein CydC
Treponema vincentii	VBITreVin125179_1647	Transport ATP-binding protein CydC
Treponema vincentii	VBITreVin125179_0427	Transport ATP-binding protein CydC
Treponema vincentii	VBITreVin125179_1494	Transport ATP-binding protein CydD
Treponema vincentii	VBITreVin125179_1894	Transport ATP-binding protein CydD
Treponema vincentii	VBITreVin125179_1649	Transport ATP-binding protein CydD
Treponema vincentii	VBITreVin125179_1030	transporter
Treponema vincentii	VBITreVin125179_0033	UDP-4-amino-4-deoxy-L-arabinose--oxoglutarate aminotransferase EC 2.6.1.-
Treponema vincentii	VBITreVin125179_0932	UDP-glucose 4-epimerase EC 5.1.3.2

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Treponema vincentii	VBITreVin125179_0551	UDP-glucose 4-epimerase EC 5.1.3.2
Treponema vincentii	VBITreVin125179_1681	UDP-N-acetylenolpyruvoylglucosamine reductase EC 1.1.1.158
Treponema vincentii	VBITreVin125179_1733	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Treponema vincentii	VBITreVin125179_0382	V-type ATP synthase subunit A EC 3.6.3.14
Treponema vincentii	VBITreVin125179_0383	V-type ATP synthase subunit B EC 3.6.3.14
Treponema vincentii	VBITreVin125179_0844	Zinc ABC transporter 2C ATP-binding protein ZnuC
Treponema vincentii	VBITreVin125179_0908	Zinc ABC transporter 2C periplasmic-binding protein ZnuA
Turicella otitidis	VBITurOti172114_1535	Glucose-1-phosphate thymidyltransferase EC 2.7.7.24
Turicella otitidis	VBITurOti172114_1148	Heme ABC transporter 2C permease protein HmuU
Turicella otitidis	VBITurOti172114_1552	Porphobilinogen deaminase EC 2.5.1.61
Variovorax paradoxus	VBIVarPar36677_2911	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Variovorax paradoxus	VBIVarPar156291_4321	Ferric iron ABC transporter 2C iron-binding protein iron-chelator utilization protein
Variovorax paradoxus	VBIVarPar36677_3600	Two-component system response regulator QseB
Variovorax paradoxus	VBIVarPar36677_4989	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Veillonella atypica	VBIVeiAty166341_0618	Acyl carrier protein
Veillonella atypica	VBIVeiAty168093_1222	Beta 1 2C4 glucosyltransferase
Veillonella atypica	VBIVeiAty168093_0396	FeIII dicitrate ABC transporter 2C ATP-binding protein
Veillonella atypica	VBIVeiAty168093_1595	Ferrous iron transport protein B
Veillonella atypica	VBIVeiAty166341_0799	FIG01197229 hypothetical protein
Veillonella atypica	VBIVeiAty168093_1325	GTP pyrophosphokinase EC 2.7.6.5 2C pppGpp synthetase I
Veillonella atypica	VBIVeiAty168093_1030	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Veillonella atypica	VBIVeiAty168093_1596	Nitrate nitrite transporter
Veillonella atypica	VBIVeiAty168093_1583	RNA binding methyltransferase FtsJ like
Veillonella atypica	VBIVeiAty168093_0468	Translation elongation factor Tu
Veillonella atypica	VBIVeiAty168093_1735	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Veillonella dispar	VBIVeiDis1254_0387	alpha 1 2C2 N-acetylglucosamine transferase
Veillonella dispar	VBIVeiDis1254_0515	Beta-1 2C3-glucosyltransferase
Veillonella dispar	VBIVeiDis1254_0505	Dipeptide transport ATP-binding protein dppD
Veillonella dispar	VBIVeiDis1254_1510	Translation elongation factor Tu
Veillonella dispar	VBIVeiDis1254_0909	UDP-galactopyranose mutase EC 5.4.99.9
Veillonella dispar	VBIVeiDis1254_0511	Undecaprenyl pyrophosphate synthetase EC 2.5.1.31
Veillonella dispar	VBIVeiDis1254_0242	3-deoxy-D-manno-octulosonic-acid transferase EC 2.-.-.-
Veillonella parvula	VBIVeiPar156829_1292	3-oxoacyl-acyl-carrier-protein synthase 2C KASII EC 2.3.1.41
Veillonella parvula	VBIVeiPar156829_0309	3R-hydroxymyristoyl-acyl carrier protein dehydratase EC 4.2.1.-
Veillonella parvula	VBIVeiPar164583_1680	ABC transporter membrane-spanning permease - glutamine transport
Veillonella parvula	VBIVeiPar164583_0799	ABC transporter multidrug efflux pump 2C fused ATP-binding domains
Veillonella parvula	VBIVeiPar156829_1893	ABC transporter multidrug efflux pump 2C fused ATP-binding domains
Veillonella parvula	VBIVeiPar164583_0737	Acetylmethionine aminotransferase EC 2.6.1.11
Veillonella parvula	VBIVeiPar156829_1835	Acyl-acyl-carrier-protein--UDP-N- acetylglucosamine O-acyltransferase EC 2.3.1.129
Veillonella parvula	VBIVeiPar80537_0522	Adenosylmethionine-8-amino-7-oxononanoate aminotransferase EC 2.6.1.62
Veillonella parvula	VBIVeiPar80537_0227	Alkanesulfonates ABC transporter ATP-binding protein Sulfonate ABC transporter 2C ATP-binding subunit SsuB
Veillonella parvula	VBIVeiPar164583_1373	Anthranilate synthase 2C aminase component EC 4.1.3.27
Veillonella parvula	VBIVeiPar80537_0154	ATP synthase alpha chain EC 3.6.3.14
Veillonella parvula	VBIVeiPar156829_1091	ATP synthase beta chain EC 3.6.3.14
Veillonella parvula	VBIVeiPar80537_1495	Diaminopimelate decarboxylase EC 4.1.1.20
Veillonella parvula	VBIVeiPar156829_1555	Diaminopimelate decarboxylase EC 4.1.1.20
Veillonella parvula	VBIVeiPar80537_1008	Ferrichrome transport ATP-binding protein FhuC TC 3.A.1.14.3
Veillonella parvula	VBIVeiPar80537_1113	Fibronectin fibrinogen-binding protein
Veillonella parvula	VBIVeiPar164583_0327	FIG01197312 hypothetical protein
Veillonella parvula	VBIVeiPar156829_1420	FIG01197312 hypothetical protein
Veillonella parvula	VBIVeiPar164583_0382	FIG01197634 hypothetical protein
Veillonella parvula	VBIVeiPar80537_1319	General secretion pathway protein E
Veillonella parvula	VBIVeiPar164583_0571	Glutamate transport ATP-binding protein
Veillonella parvula	VBIVeiPar156829_0122	Glutamate transport ATP-binding protein
Veillonella parvula	VBIVeiPar164583_0286	Glutamate transport membrane-spanning protein
Veillonella parvula	VBIVeiPar156829_0121	Glutamate transport membrane-spanning protein
Veillonella parvula	VBIVeiPar164583_0285	Glutamate transport membrane-spanning protein
Veillonella parvula	VBIVeiPar80537_0775	Glutamate transport membrane-spanning protein
Veillonella parvula	VBIVeiPar164583_0798	Glutamine transport ATP-binding protein glnQ TC 3.A.1.3.2
Veillonella parvula	VBIVeiPar156829_0799	Glycerol-3-phosphate transporter
Veillonella parvula	VBIVeiPar164583_1279	Glycerol-3-phosphate transporter
Veillonella parvula	VBIVeiPar164583_0535	glycosyl transferase 2C family 2
Veillonella parvula	VBIVeiPar80537_1026	glycosyl transferase 2C family 2
Veillonella parvula	VBIVeiPar156829_0881	Hemin ABC transporter 2C permease protein
Veillonella parvula	VBIVeiPar164583_1367	Hemin ABC transporter 2C permease protein
Veillonella parvula	VBIVeiPar156829_0657	Imidazole glycerol phosphate synthase subunit EC 4.1.3.-
Veillonella parvula	VBIVeiPar80537_0189	Iron (III) dicitrate transport system permease protein FecD TC 3.A.1.14.1
Veillonella parvula	VBIVeiPar164583_1122	isochorismate synthase
Veillonella parvula	VBIVeiPar164583_1288	Lactaldehyde reductase EC 1.1.1.77
Veillonella parvula	VBIVeiPar156829_0532	Lipid A export ATP-binding permease protein MsbA
Veillonella parvula	VBIVeiPar156829_0531	Lipid A export ATP-binding permease protein MsbA
Veillonella parvula	VBIVeiPar80537_0525	Lipid A export ATP-binding permease protein MsbA EC 3.6.3.25
Veillonella parvula	VBIVeiPar80537_0194	Manganese ABC transporter 2C periplasmic-binding protein SitA
Veillonella parvula	VBIVeiPar156829_0851	Manganese superoxide dismutase EC 1.15.1.1
Veillonella parvula	VBIVeiPar80537_1683	Manganese superoxide dismutase EC 1.15.1.1
Veillonella parvula	VBIVeiPar156829_0376	Methionine ABC transporter ATP-binding protein
Veillonella parvula	VBIVeiPar80537_0610	Methionine biosynthesis and transport regulator MtaR 2C LysR family
Veillonella parvula	VBIVeiPar164583_0538	N-acetylmannosaminyltransferase EC 2.4.1.187
Veillonella parvula	VBIVeiPar80537_1029	N-acetylmannosaminyltransferase EC 2.4.1.187

Table S8

Veillonella parvula	VBIVeiPar164583_1725	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Veillonella parvula	VBIVeiPar80537_0476	Oligopeptide ABC transporter 2C periplasmic oligopeptide-binding protein OppA TC 3.A.1.5.1
Veillonella parvula	VBIVeiPar156829_1066	Oligopeptide transport ATP-binding protein OppF TC 3.A.1.5.1
Veillonella parvula	VBIVeiPar156829_0498	Phosphoglucosamine mutase EC 5.4.2.10
Veillonella parvula	VBIVeiPar164583_0807	Phosphoglucosamine mutase EC 5.4.2.10
Veillonella parvula	VBIVeiPar164583_0071	Porphobilinogen deaminase EC 2.5.1.61
Veillonella parvula	VBIVeiPar80537_1387	Porphobilinogen synthase EC 4.2.1.24
Veillonella parvula	VBIVeiPar156829_1490	Prolipoprotein diacylglyceryl transferase EC 2.4.99.-
Veillonella parvula	VBIVeiPar164583_0454	Prolipoprotein diacylglyceryl transferase EC 2.4.99.-
Veillonella parvula	VBIVeiPar80537_1393	Pyrroline-5-carboxylate reductase EC 1.5.1.2
Veillonella parvula	VBIVeiPar80537_0215	Respiratory nitrate reductase beta chain EC 1.7.99.4
Veillonella parvula	VBIVeiPar156829_0868	sensor histidine kinase
Veillonella parvula	VBIVeiPar164583_1513	Serine protease 2C DegP HtrA 2C do-like EC 3.4.21.-
Veillonella parvula	VBIVeiPar80537_1657	TonB-dependent receptor 3B Outer membrane receptor for ferrienterochelin and colicins
Veillonella parvula	VBIVeiPar156829_1111	Translation elongation factor Tu
Veillonella parvula	VBIVeiPar80537_1477	Translation elongation factor Tu
Veillonella parvula	VBIVeiPar80537_0467	Transport ATP-binding protein CydD
Veillonella parvula	VBIVeiPar156829_1233	Transport ATP-binding protein CydD
Veillonella parvula	VBIVeiPar164583_0570	Twitching motility protein PilT
Veillonella parvula	VBIVeiPar164583_0569	type II secretion system protein F domain protein
Veillonella parvula	VBIVeiPar156829_1284	UDP-3-O-3-hydroxymyristoyl glucosamine N-acyltransferase EC 2.3.1.-
Veillonella parvula	VBIVeiPar156829_0266	UDP-glucose 4-epimerase EC 5.1.3.2
Veillonella parvula	VBIVeiPar164583_0160	UDP-glucose 4-epimerase EC 5.1.3.2
Veillonella parvula	VBIVeiPar80537_1503	UDP-N-acetylglucosamine 2-epimerase EC 5.1.3.14
Veillonella parvula	VBIVeiPar164583_1194	Undecaprenyl-phosphate galactosephosphotransferase EC 2.7.8.6
Veillonella parvula	VBIVeiPar80537_1504	Undecaprenyl-phosphate N-acetylglucosaminyl 1-phosphate transferase EC 2.7.8.-
Veillonella parvula	VBIVeiPar156829_0577	Uroporphyrinogen III decarboxylase EC 4.1.1.37
Veillonella parvula	VBIVeiPar156829_0727	Vitamin B12 ABC transporter 2C ATPase component BtuD
Veillonella parvula	VBIVeiPar156829_0728	Vitamin B12 ABC transporter 2C permease component BtuC
Veillonella parvula	VBIVeiPar164583_1880	YbbL ABC transporter ATP-binding protein
Veillonella sp. oral taxon 158	VBIVeiSp174732_0068	3-oxoacyl-acyl-carrier protein reductase EC 1.1.1.100
Veillonella sp. oral taxon 158	VBIVeiSp174732_0833	capsular polysaccharide biosynthesis proteinCps4H
Veillonella sp. oral taxon 158	VBIVeiSp174732_0659	Ferrous iron transport protein B
Veillonella sp. oral taxon 158	VBIVeiSp174732_0201	Glycosyltransferase
Veillonella sp. oral taxon 158	VBIVeiSp174732_1291	periplasmic binding protein
Veillonella sp. oral taxon 158	VBIVeiSp174732_0535	Translation elongation factor Tu
Veillonella sp. oral taxon 158	VBIVeiSp174732_0536	Translation elongation factor Tu
Veillonella sp. oral taxon 158	VBIVeiSp174732_0951	Vitamin B12 ABC transporter 2C permease component BtuC
Veillonella sp. oral taxon 780	VBIVeiSp176273_0554	Cell division trigger factor EC 5.2.1.8
Veillonella sp. oral taxon 780	VBIVeiSp176273_0897	CoA-acylating propionaldehyde dehydrogenase
Veillonella sp. oral taxon 780	VBIVeiSp176273_1187	Respiratory nitrate reductase beta chain EC 1.7.99.4