

1 **Supplemental tables and figures**

2

3 **Supplemental Table S1. Characterization of the proteins identified in this study by source.**

4

					OMV_Fe		OMV_EDDHA		Biofilm	
Groups ^a	Protein ID	Gene locus tag	Protein Description	MW [kD a]	Protein abundance ^b					
					Average	Standard deviation	Average	Standard deviation	Average	Standard deviation
Unique proteins										
OMV_Fe	ACA30734.1	HSM_1022	YadA domain protein	396.9	148238.22	167566.68				
OMV_Fe	ACA31054.1	HSM_0132	Tol-Pal system TolQ	25.5	499266.87	128397.70				
OMV_Fe	ACA31654.1	HSM_1864	conserved hypothetical protein	4.7	31433338.59	3390451.80				
OMV_Fe	ACA31752.1	HSM_1958	ribosomal protein S3	25.8	1378047.13	1117594.82				
OMV_Fe	ACA32015.1	HSM_0377	YadA domain protein	343.1	4250509.46	5117657.27				
OMV_Fe	ACA32034.1	HSM_0394	YadA domain protein	344.8	860322.19	1182579.74				
OMV_Fe	ACA32047.1	HSM_0405	anti sigma-E protein, RseA	22.3	575105.61	40337.69				
OMV_Fe	ACA32075.1	HSM_0430	Monosaccharide-transporting ATPase	34.1	251991.03	No Quan Value ^c				
OMV_Fe	B0UVM9.1	HSM_0168	50S ribosomal protein L19	13.2	3655138.16	1963866.48				
OMV_Fe	B0UX32.1	HSM_1971	50S ribosomal protein L30	6.8	7120264.55	3679470.87				
OMV_EDDHA	ACA30786.1	HSM_1071	penicillin-binding protein, 1A family	93.5			No Quan Value	No Quan Value		
OMV_EDDHA	ACA31186.1	HSM_1440	nuclease (SNase domain protein)	19.8			124321.55	No Quan Value		
OMV_EDDHA	ACA31510.1	HSM_1732	protein of unknown function DUF305	27.1			227480.05	No Quan Value		
OMV_EDDHA	ACA32586.1	HSM_0906	conserved hypothetical protein	33.1			893460.31	1082275.44		
OMV_EDDHA	ACA32592.1	HSM_0911	hypothetical protein HSM_0911	51.4			444151.27	399819.37		
OMV_EDDHA	ACA32614.1	HSM_0931	TonB-dependent receptor	68.1			891417.65	41000.97		
OMV_EDDHA	ACA32615.1	HSM_0932	TonB-dependent receptor plug	24.6			615323.16	283016.11		
Biofilm	ACA30710.1	HSM_1000	TM2 domain containing protein	14					230404.36	38383.21
Biofilm	ACA30711.1	HSM_1001	exoribonuclease II	75.8					No Quan Value	No Quan Value
Biofilm	ACA30712.1	HSM_1002	short-chain dehydrogenase/reductase SDR	28					5867834.99	696697.98
Biofilm	ACA30713.1	HSM_1003	protein of unknown function DUF34	28					1078499.64	191490.80
Biofilm	ACA30715.1	HSM_1005	Beta-ketoacyl synthase	42.8					319059477.21	122968545.09

Biofilm	ACA30719.1	HSM_1009	Phosphotransferase system, phosphocarrier protein HPr	9					33480355.57	18538846.28
Biofilm	ACA30721.1	HSM_1010	phosphoenolpyruvate-protein phosphotransferase	63.6					23457467.91	6076922.53
Biofilm	ACA30722.1	HSM_1011	PTS system, glucose subfamily, IIA subunit	18.1					3452077.83	2159489.44
Biofilm	ACA30733.1	HSM_1021	pyruvate kinase	51.5					181589298.38	12383536.08
Biofilm	ACA30737.1	HSM_1025	alkylhydroperoxidase like protein, AhpD family	12					58801404.10	4105417.90
Biofilm	ACA30740.1	HSM_1028	thioredoxin reductase	34.2					16323287.76	3129269.15
Biofilm	ACA30757.1	HSM_1043	histidine triad (HIT) protein	12.9					3241956.73	1935520.93
Biofilm	ACA30762.1	HSM_1048	single-strand binding protein	17.4					2961889.00	117532.49
Biofilm	ACA30763.1	HSM_1049	excinuclease ABC, A subunit	104.2					1725900.80	376721.56
Biofilm	ACA30774.1	HSM_1059	UspA domain protein	15.7					2089798.11	1246452.51
Biofilm	ACA30777.1	HSM_1062	Phosphomannomutase	50.4					44888387.20	7918743.69
Biofilm	ACA30778.1	HSM_1063	UTP-glucose-1-phosphate uridylyltransferase	32.3					619749.60	450756.48
Biofilm	ACA30781.1	HSM_1066	Shikimate kinase	19.8					422682.95	450704.38
Biofilm	ACA30788.1	HSM_1073	glutathione-disulfide reductase	49.5					291868096.20	65414278.94
Biofilm	ACA30789.1	HSM_1074	RNA chaperone Hfq	10.9					5005573.79	2358414.38
Biofilm	ACA30792.1	HSM_1077	fumarate hydratase, class II	50.6					811756191.82	136060601.64
Biofilm	ACA30795.1	HSM_0108	galactose-1-phosphate uridylyltransferase	40.7					1589124.66	258447.55
Biofilm	ACA30806.1	HSM_0109	galactokinase	43					3490797.89	583931.46
Biofilm	ACA30810.1	HSM_1093	peptidase M24	50.7					68981295.07	14003073.54
Biofilm	ACA30818.1	HSM_0110	galactose mutarotase	39.3					3415502.96	1445424.08
Biofilm	ACA30822.1	HSM_1103	argininosuccinate lyase	51.4					14406338.28	5255714.27
Biofilm	ACA30836.1	HSM_1116	translation initiation factor IF-1	8.3					430148.32	362814.58
Biofilm	ACA30841.1	HSM_1120	protein of unknown function DUF224 cysteine-rich region domain protein	26.7					1096652.80	359279.53
Biofilm	ACA30842.1	HSM_1121	iron-sulfur cluster binding protein	52.1					5765631.30	2380717.02
Biofilm	ACA30843.1	HSM_1122	protein of unknown function DUF162	25.9					412259.20	320846.83
Biofilm	ACA30866.1	HSM_1143	addiction module toxin, Txe/YoeB family	10.2					717537.07	473207.49
Biofilm	ACA30878.1	HSM_1154	hypothetical protein HSM_1154	13.4					6107241.85	2260004.46
Biofilm	ACA30918.1	HSM_1196	dihydropteroate synthase	30.3					869525.34	1034329.79

Biofilm	ACA30947.1	HSM_1221	Glutathione S-transferase domain	24.3					6749744.71	2721783.21
Biofilm	ACA30960.1	HSM_1233	SMP-30/Gluconolactonase/LRE domain protein	32.8					336537.19	No Quan Value
Biofilm	ACA30964.1	HSM_1237	carbohydrate kinase FGGY	53.8					224554.17	63818.97
Biofilm	ACA30965.1	HSM_1238	3-dehydro-L-gulonate-6-phosphate decarboxylase	23.7					157571.20	4849.26
Biofilm	ACA30966.1	HSM_1239	putative hexulose-6-phosphate isomerase	33.4					305467.76	267410.42
Biofilm	ACA30968.1	HSM_1240	L-ribulose-5-phosphate 4-epimerase	26					13365552.01	6127131.60
Biofilm	ACA30972.1	HSM_1244	Cof-like hydrolase	30.4					45787.92	No Quan Value
Biofilm	ACA30973.1	HSM_1245	nitroreductase	25.1					1154690.44	41661.31
Biofilm	ACA30980.1	HSM_1251	D-lactate dehydrogenase	64.1					9665404.74	3037645.89
Biofilm	ACA30981.1	HSM_1252	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase	29.6					67748711.23	16513039.97
Biofilm	ACA30982.1	HSM_1253	formyltetrahydrofolate deformylase	31.8					6083347.87	2320774.54
Biofilm	ACA30986.1	HSM_1257	YadA domain protein	484.1					1978699.34	1609985.66
Biofilm	ACA30987.1	HSM_1258	Oligopeptidase A	77.9					262721948.05	72547445.21
Biofilm	ACA30996.1	HSM_1268	dihydroorotate dehydrogenase	35.5					4769539.52	1642560.25
Biofilm	ACA30999.1	HSM_1270	tryptophanase	53					590417426.23	51933456.37
Biofilm	ACA31000.1	HSM_1271	phosphate acetyltransferase	77.1					5077520.08	2514643.85
Biofilm	ACA31001.1	HSM_1272	acetate kinase	43.3					51391093.70	8004547.78
Biofilm	ACA31005.1	HSM_1276	NapC/NirT cytochrome c domain protein	41.7					431637.71	51683.70
Biofilm	ACA31011.1	HSM_1281	riboflavin synthase, alpha subunit	22.2					1371350.64	732428.92
Biofilm	ACA31028.1	HSM_1297	methionine aminopeptidase, type I	30.5					2876749.90	1593039.92
Biofilm	ACA31031.1	HSM_0013	acetolactate synthase, large subunit, biosynthetic type	60.1					591161.58	85204.62
Biofilm	ACA31038.1	HSM_1305	exodeoxyribonuclease III	31.4					296229.95	63997.12
Biofilm	ACA31043.1	HSM_0131	Pol-Pal system-associated acyl-CoA thioesterase	16.1					7116436.69	2637598.83
Biofilm	ACA31053.1	HSM_1319	threonyl-tRNA synthetase	74					2616145.46	1835437.01
Biofilm	ACA31060.1	HSM_1325	conserved hypothetical protein 730	51.7					28470810.37	7270212.57
Biofilm	ACA31072.1	HSM_1336	phenylalanyl-tRNA synthetase, beta subunit	88					2720586.77	2942631.22
Biofilm	ACA31081.1	HSM_1346	conserved hypothetical protein	42					689935.44	10340.12
Biofilm	ACA31086.1	HSM_1350	Exodeoxyribonuclease I	55.7					917214.06	573888.80

Biofilm	ACA31094.1	HSM_1358	UspA domain protein	34.9					289409.42	367234.92
Biofilm	ACA31098.1	HSM_1361	putative Usg-1 protein	35.2					265671.48	205610.07
Biofilm	ACA31100.1	HSM_1363	aminopeptidase N	100.4					199649317.71	37586386.13
Biofilm	ACA31102.1	HSM_1365	glycogen/starch synthase, ADP-glucose type	54.1					860130.67	No Quan Value
Biofilm	ACA31111.1	HSM_1373	glutaminyl-tRNA synthetase	63.8					13257747.27	2699002.01
Biofilm	ACA31124.1	HSM_1385	beta-hydroxyacyl-(acyl-carrier-protein) dehydratase FabA	15.3					2799535.60	1279266.81
Biofilm	ACA31126.1	HSM_1387	nitroreductase	20.7					341721.30	224537.79
Biofilm	ACA31132.1	HSM_1392	DNA topoisomerase I	98.5					5579700.53	2391584.38
Biofilm	ACA31136.1	HSM_1396	KpsF/GutQ family protein	33.8					631343.14	6625.43
Biofilm	ACA31137.1	HSM_1397	3-deoxy-D-manno-octulosonate 8-phosphate phosphatase, Yrbl family	19.8					1294465.10	319420.80
Biofilm	ACA31138.1	HSM_1398	Ferroxidase	18.8					73351887.55	2067841.30
Biofilm	ACA31139.1	HSM_1399	Ferroxidase	19					21556046.29	668486.11
Biofilm	ACA31140.1	HSM_0014	acetohydroxy acid synthase II, small subunit	8.4					249213.75	156901.05
Biofilm	ACA31146.1	HSM_1404	2,4-diaminobutyrate 4-transaminase	49.3					22812073.31	10849729.92
Biofilm	ACA31159.1	HSM_1416	phospho-2-dehydro-3-deoxyheptonate aldolase	39.6					8974196.79	3499624.41
Biofilm	ACA31164.1	HSM_1420	D-isomer specific 2-hydroxyacid dehydrogenase NAD-binding	34.5					39635929.06	13744338.63
Biofilm	ACA31176.1	HSM_1431	succinyl-CoA synthetase, alpha subunit	30.3					1632085.11	702627.01
Biofilm	ACA31178.1	HSM_1433	2-oxoglutarate dehydrogenase, E2 subunit, dihydrolipoamide succinyltransferase	44.7					1739573.35	793488.00
Biofilm	ACA31179.1	HSM_1434	2-oxoglutarate dehydrogenase, E1 subunit	105.9					1021356.27	879653.73
Biofilm	ACA31180.1	HSM_1435	citrate synthase I	48.2					1975537.52	392696.00
Biofilm	ACA31181.1	HSM_1436	Ribonucleoside-diphosphate reductase	43.3					13983879.04	2108540.44
Biofilm	ACA31184.1	HSM_1439	putative deoxyguanosinetriphosphate triphosphohydrolase	52.4					6039102.09	2984481.88
Biofilm	ACA31192.1	HSM_1446	addiction module toxin, RelE/StbE family	10.5					2637004.97	291045.35
Biofilm	ACA31194.1	HSM_1448	virulence-associated protein D (VapD) conserved region	10.6					47711807.44	18223198.95
Biofilm	ACA31201.1	HSM_1454	ribosomal protein S1	59.8					2350463.96	892353.81

Biofilm	ACA31212.1	HSM_1464	ribosome recycling factor	20.9					21562002.17	4872269.49
Biofilm	ACA31213.1	HSM_1465	uridylate kinase	25.7					787297.70	220337.14
Biofilm	ACA31223.1	HSM_1474	ribose-phosphate pyrophosphokinase	34.1					30157950.34	14163496.37
Biofilm	ACA31227.1	HSM_1478	transcription elongation factor GreA	17.6					874546.07	968617.49
Biofilm	ACA31240.1	HSM_0149	peptidase U62 modulator of DNA gyrase	52.1					21948591.59	4954715.08
Biofilm	ACA31254.1	HSM_1501	transcriptional regulator, TraR/DksA family	16.8					2163982.78	1312425.70
Biofilm	ACA31257.1	HSM_1504	N-acetylglucosamine-6-phosphate deacetylase	41.7					6881250.81	4135603.63
Biofilm	ACA31259.1	HSM_1506	molybdopterin biosynthesis MoaE protein	17.2					872020.56	133057.28
Biofilm	ACA31272.1	HSM_1518	ROK family protein	33.5					4521598.70	76096.41
Biofilm	ACA31307.1	HSM_0155	FeS cluster assembly scaffold IscU	13.6					85824.92	79625.45
Biofilm	ACA31318.1	HSM_0156	iron-sulfur cluster assembly protein IscA	11.7					244532.29	122291.90
Biofilm	ACA31334.1	HSM_1574	spermidine/putrescine ABC transporter ATPase subunit	42.4					2963975.76	2504257.61
Biofilm	ACA31341.1	HSM_1580	DNA gyrase, A subunit	97.9					7559479.21	9441507.41
Biofilm	ACA31345.1	HSM_1584	UDP-N-acetylglucosamine 1-carboxyvinyltransferase	45.7					374482.68	112479.51
Biofilm	ACA31358.1	HSM_1596	methionyl-tRNA synthetase	77.4					22043251.26	9675811.06
Biofilm	ACA31363.1	HSM_0160	glutamate--cysteine ligase, putative/amino acid ligase, putative	85.8					763890.75	No Quan Value
Biofilm	ACA31365.1	HSM_1601	NAD(P)H dehydrogenase (quinone)	23.6					104505.16	13866.16
Biofilm	ACA31368.1	HSM_1604	3-dehydroquinate dehydratase, type II	17.2					10252905.85	2851570.62
Biofilm	ACA31369.1	HSM_1605	acetyl-CoA carboxylase, biotin carboxyl carrier protein	16.6					8717712.00	4739794.31
Biofilm	ACA31377.1	HSM_1612	naphthoate synthase	31.7					646880.95	141935.99
Biofilm	ACA31424.1	HSM_1655	ubiquinone/menaquinone biosynthesis methyltransferase	29.3					63037.89	No Quan Value
Biofilm	ACA31427.1	HSM_1658	twin-arginine translocation protein, TatA/E family subunit	8.2					4556986.64	262400.18
Biofilm	ACA31431.1	HSM_1661	Porphobilinogen synthase	38.2					10834738.80	4177797.83
Biofilm	ACA31438.1	HSM_1668	CTP synthase	59.8					1501854.73	1975606.76
Biofilm	ACA31464.1	HSM_1691	conserved hypothetical protein	72.5					540992.76	600542.34
Biofilm	ACA31496.1	HSM_0172	phospholipase D/Transphosphatidylase	53.4					3415843.06	1703408.04
Biofilm	ACA31529.1	HSM_0175	PfkB domain protein	70.6					1212118.13	No Quan Value

Biofilm	ACA31535.1	HSM_1755	Leucyl aminopeptidase	54.1					43345707.38	12082497.52
Biofilm	ACA31550.1	HSM_1769	lactoylglutathione lyase	15.2					20783397.56	7954652.18
Biofilm	ACA31552.1	HSM_1770	ribonuclease T	24.2					577572.10	161545.75
Biofilm	ACA31559.1	HSM_1777	branched-chain amino acid aminotransferase	37.6					5981248.16	1859237.97
Biofilm	ACA31560.1	HSM_1778	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	18					412111.93	152910.44
Biofilm	ACA31561.1	HSM_1779	dihydrodipicolinate synthase	31.7					58020333.67	24419836.31
Biofilm	ACA31572.1	HSM_1789	protein of unknown function DUF328	29.5					1561212.54	322551.34
Biofilm	ACA31573.1	HSM_0179	protein of unknown function DUF413	12.6					2263129.84	751317.15
Biofilm	ACA31589.1	HSM_1803	isocitrate dehydrogenase, NADP-dependent	80.7					32349298.67	7376722.39
Biofilm	ACA31590.1	HSM_1804	ATP-dependent carboxylate-amine ligase domain protein ATP-grasp	45.5					4696312.88	914682.40
Biofilm	ACA31600.1	HSM_1813	glucose-6-phosphate 1-dehydrogenase	59.3					18349193.23	2462515.10
Biofilm	ACA31601.1	HSM_1814	6-phosphogluconolactonase	26.5					3996573.16	956538.94
Biofilm	ACA31603.1	HSM_1816	6-phosphogluconate dehydrogenase, decarboxylating	53.3					14490459.52	9086741.58
Biofilm	ACA31605.1	HSM_1818	YfbU family protein	19.1					16446343.36	4174609.96
Biofilm	ACA31630.1	HSM_1842	NADH:ubiquinone oxidoreductase, subunit F	45.6					314997.75	51330.65
Biofilm	ACA31638.1	HSM_0185	Haemophilus-specific protein, uncharacterized	9.9					4996494.36	484556.04
Biofilm	ACA31640.1	HSM_1851	ATP synthase F1, gamma subunit	31.9					1702088.18	603907.93
Biofilm	ACA31641.1	HSM_1852	ATP synthase F1, alpha subunit	55.8					34734333.47	10799169.81
Biofilm	ACA31655.1	HSM_1865	diaminopimelate decarboxylase	46.5					433399.24	290990.09
Biofilm	ACA31681.1	HSM_1893	Nicotinamide phosphoribosyltransferase	52.3					3788677.96	826049.65
Biofilm	ACA31682.1	HSM_1894	Xanthine phosphoribosyltransferase	17.2					11427816.26	3151849.38
Biofilm	ACA31683.1	HSM_1895	aminoacyl-histidine dipeptidase	53.6					58756839.79	17332993.76
Biofilm	ACA31703.1	HSM_1913	GntR domain protein	29					82382.19	14785.54
Biofilm	ACA31719.1	HSM_1928	glutaredoxin-family domain protein	26.5					3298100.49	636734.35
Biofilm	ACA31725.1	HSM_1933	methionyl-tRNA formyltransferase	34.9					63747.06	16688.05
Biofilm	ACA31741.1	HSM_1948	deoxyribose-phosphate aldolase/phospho-2-dehydro-3-deoxyheptonate aldolase	31.8					5138920.88	2345245.18

Biofilm	ACA31745.1	HSM_1951	ribosomal protein S10	11.8					274241.17	48230.41
Biofilm	ACA31746.1	HSM_1952	ribosomal protein L3	22.5					384479.46	61900.92
Biofilm	ACA31748.1	HSM_1954	Ribosomal protein L25/L23	11.3					1148098.11	80967.62
Biofilm	ACA31774.1	HSM_1978	DNA-directed RNA polymerase, alpha subunit	36.6					11583946.09	4039237.87
Biofilm	ACA31780.1	HSM_1983	3,4-dihydroxy-2-butanone 4-phosphate synthase	23.2					266333.94	60245.70
Biofilm	ACA31790.1	HSM_1992	3-oxoacyl-(acyl-carrier-protein) reductase, putative	26.1					15827326.40	3984750.28
Biofilm	ACA31791.1	HSM_1993	Beta-ketoacyl synthase	45.3					665293.36	525534.24
Biofilm	ACA31795.1	HSM_1997	phosphopantetheine-binding	9.4					2031764.81	865162.78
Biofilm	ACA31796.1	HSM_1998	putative 3-hydroxymyristoyl/3-hydroxydecanoyl-(acyl-carrier-protein) dehydratase	14					417148.87	34775.90
Biofilm	ACA31798.1	HSM_0002	DNA polymerase III, beta subunit	41.3					2530332.50	1006815.37
Biofilm	ACA31805.1	HSM_2004	conserved thioesterase	17.5					5954114.58	869388.67
Biofilm	ACA31808.1	HSM_2007	D-isomer specific 2-hydroxyacid dehydrogenase NAD-binding	45.1					446255293.92	85808947.41
Biofilm	ACA31809.1	HSM_2008	ribose 5-phosphate isomerase	23.2					473892.04	426686.67
Biofilm	ACA31814.1	HSM_2012	putative endoribonuclease L-PSP	13.9					64770953.02	16601265.04
Biofilm	ACA31818.1	HSM_2016	Ferritin Dps family protein	18.1					126012830.88	19929801.40
Biofilm	ACA31829.1	HSM_0207	NAD(P)H dehydrogenase (quinone)	20.5					1089982.72	130348.93
Biofilm	ACA31839.1	HSM_0216	trigger factor	48.5					48321150.24	22266584.32
Biofilm	ACA31843.1	HSM_0022	protein-export protein SecB	19.5					11588698.40	5052690.62
Biofilm	ACA31880.1	HSM_0253	Argininosuccinate synthase	49.6					32428148.50	2254624.58
Biofilm	ACA31883.1	HSM_0256	acyl-(acyl-carrier-protein)--UDP-N-acetylglucosamine O-acyltransferase	28.4					207206.22	No Quan Value
Biofilm	ACA31886.1	HSM_0259	molybdenum cofactor synthesis domain	21.3					2192933.07	216297.06
Biofilm	ACA31888.1	HSM_0260	nitrogen regulatory protein P-II	12.8					1363186.27	944917.85
Biofilm	ACA31893.1	HSM_0265	methyglyoxal synthase	17.2					6846222.84	419264.76
Biofilm	ACA31906.1	HSM_0277	Cystathionine gamma-synthase	41					10844152.32	1856378.54
Biofilm	ACA31907.1	HSM_0278	thioredoxin	11.8					32613195.77	8704718.88
Biofilm	ACA31913.1	HSM_0283	Glutamate dehydrogenase (NADP(+))	48.6					23213882.09	3427431.46
Biofilm	ACA31916.1	HSM_0286	PfkB domain protein	38.3					8496013.39	3882534.28

Biofilm	ACA31917.1	HSM_0287	Adenylosuccinate synthase	47.1					3904186.85	3490470.08
Biofilm	ACA31918.1	HSM_0288	peptidase U62 modulator of DNA gyrase	48.8					12013763.83	4512410.10
Biofilm	ACA31932.1	HSM_0030	ribosomal protein L32	6.4					1341113.16	784677.51
Biofilm	ACA31935.1	HSM_0302	queuine tRNA-ribosyltransferase	43.2					5240973.12	2866186.38
Biofilm	ACA31936.1	HSM_0303	preprotein translocase, YajC subunit	11					521223.64	185485.36
Biofilm	ACA31944.1	HSM_0310	tyrosyl-tRNA synthetase	44.3					15337021.61	14436505.75
Biofilm	ACA31949.1	HSM_0317	peptidylprolyl isomerase FKBP-type	22.7					560379.04	302128.78
Biofilm	ACA31953.1	HSM_0320	dihydroneopterin aldolase	14					2076979.28	784327.45
Biofilm	ACA31958.1	HSM_0325	YicC domain protein	33.5					8254485.14	2063333.76
Biofilm	ACA31960.1	HSM_0327	heat shock protein DnaJ domain protein	32.8					176350.22	128806.67
Biofilm	ACA31962.1	HSM_0329	translation elongation factor P	20.6					3621373.86	992306.46
Biofilm	ACA31963.1	HSM_0033	malonyl CoA-acyl carrier protein transacylase	33.7					609852.39	22100.89
Biofilm	ACA31982.1	HSM_0347	exodeoxyribonuclease VII, large subunit	50.5					99396.68	18804.81
Biofilm	ACA31983.1	HSM_0348	alanine racemase domain protein	27.9					445788.70	14410.45
Biofilm	ACA31984.1	HSM_0349	aspartate kinase	88					18956452.98	7377525.27
Biofilm	ACA31987.1	HSM_0351	threonine synthase	46.9					4905100.52	2041506.38
Biofilm	ACA31988.1	HSM_0352	ferric uptake regulator, Fur family	17					4600926.31	1865304.65
Biofilm	ACA31989.1	HSM_0353	flavodoxin	19.7					8510807.72	3620616.97
Biofilm	ACA31994.1	HSM_0358	Chorismate synthase	39					606017.24	231692.30
Biofilm	ACA31996.1	HSM_0036	ribosomal protein L11	14.9					1696570.90	404855.74
Biofilm	ACA31999.1	HSM_0362	adenine phosphoribosyltransferase	19.6					618985.27	159520.49
Biofilm	ACA32016.1	HSM_0378	peptidylprolyl isomerase FKBP-type	21.2					6976829.32	1850471.91
Biofilm	ACA32017.1	HSM_0379	protein of unknown function DUF1260	15.6					1398884.09	1304003.24
Biofilm	ACA32019.1	HSM_0380	RNA methyltransferase, TrmH family, group 2	18.5					811613.41	664365.86
Biofilm	ACA32020.1	HSM_0381	Phosphoenolpyruvate carboxykinase (ATP)	59					1521365003.0 ₃	119839799.54
Biofilm	ACA32022.1	HSM_0383	phosphoribosylamine--glycine ligase	46.4					2492931.48	865352.22
Biofilm	ACA32029.1	HSM_0039	ribosomal protein L7/L12	12.5					57848505.61	39623440.82
Biofilm	ACA32035.1	HSM_0395	tryptophan halogenase	46.1					8202496.26	3589314.91
Biofilm	ACA32037.1	HSM_0397	ADP-L-glycero-D-manno-heptose-6-epimerase	34.8					7499609.66	634303.57
Biofilm	ACA32041.1	HSM_0040	transcription termination factor Rho	47					447184.83	419656.25

Biofilm	ACA32050.1	HSM_0408	2-dehydro-3-deoxyphosphogluconate aldolase/4-hydroxy-2-oxoglutarate aldolase	23.1					9390928.84	3057915.50
Biofilm	ACA32054.1	HSM_0411	glycoside hydrolase family 3 domain protein	65.3					22933342.10	2163012.12
Biofilm	ACA32055.1	HSM_0412	conserved hypothetical protein	30.8					357845.27	105704.72
Biofilm	ACA32056.1	HSM_0413	short-chain dehydrogenase/reductase SDR	30.1					7628313.23	3337844.54
Biofilm	ACA32058.1	HSM_0415	mannonate dehydratase	44.9					57525984.66	3373036.11
Biofilm	ACA32063.1	HSM_0042	Ribulose-phosphate 3-epimerase	25.1					7511154.28	4509602.42
Biofilm	ACA32068.1	HSM_0424	Myo-inositol catabolism lolB domain protein	33					4082925.41	1594073.73
Biofilm	ACA32071.1	HSM_0427	methylmalonate-semialdehyde dehydrogenase	54.4					21854390.67	2138552.07
Biofilm	ACA32080.1	HSM_0435	Inositol 2-dehydrogenase	36.4					26614599.80	5514173.44
Biofilm	ACA32085.1	HSM_0044	tryptophanyl-tRNA synthetase	37.5					13267199.10	2523427.66
Biofilm	ACA32094.1	HSM_0450	uridine phosphorylase	27.3					19371240.77	5302536.78
Biofilm	ACA32106.1	HSM_0461	Inorganic diphosphatase	19.3					2917169.08	124015.98
Biofilm	ACA32112.1	HSM_0467	leucyl-tRNA synthetase	98.1					59260194.41	7955078.96
Biofilm	ACA32118.1	HSM_0472	aspartate-semialdehyde dehydrogenase	40.6					78003923.16	21578615.96
Biofilm	ACA32144.1	HSM_0498	phosphoribosylformylglycinamidine synthase	143.1					72812269.37	13103392.70
Biofilm	ACA32151.1	HSM_0503	2C-methyl-D-erythritol 2,4-cyclodiphosphate synthase	17.3					3656338.20	663193.63
Biofilm	ACA32161.1	HSM_0512	Cof-like hydrolase	30.6					215289.76	89055.45
Biofilm	ACA32165.1	HSM_0516	hydrolase, TatD family	29.4					5623212.94	885038.23
Biofilm	ACA32174.1	HSM_0524	lysyl-tRNA synthetase	56.9					303061611.58	59276908.64
Biofilm	ACA32207.1	HSM_0556	Monosaccharide-transporting ATPase	33.2					6491914.47	3052599.83
Biofilm	ACA32216.1	HSM_0564	uroporphyrinogen decarboxylase	39.3					1330359.30	671011.06
Biofilm	ACA32220.1	HSM_0568	glucosamine--fructose-6-phosphate aminotransferase, isomerizing	67.6					3406320.58	3471577.30
Biofilm	ACA32227.1	HSM_0576	Glycerate kinase	40.1					796016.40	265018.99
Biofilm	ACA32232.1	HSM_0580	L-fuculose phosphate aldolase	24.1					698993.21	111543.22
Biofilm	ACA32235.1	HSM_0583	L-fucose isomerase	65.3					1222405.80	44209.21
Biofilm	ACA32238.1	HSM_0586	phosphoglycerate mutase 1 family	26					360936936.36	94777145.19

Biofilm	ACA32243.1	HSM_0590	putative transcriptional regulator, AsnC family	17.1					3257435.22	1981081.93
Biofilm	ACA32244.1	HSM_0591	Aspartate--ammonia ligase	37.6					1016432.50	151530.87
Biofilm	ACA32261.1	HSM_0608	amidohydrolase	42.9					305728450.68	55468471.29
Biofilm	ACA32263.1	HSM_0061	NusG antitermination factor	21.1					990516.61	788013.74
Biofilm	ACA32264.1	HSM_0610	N-6 DNA methylase	126.6					1209172.76	887628.22
Biofilm	ACA32273.1	HSM_0619	MraZ protein	17.2					278154.62	38957.25
Biofilm	ACA32291.1	HSM_0635	chorismate mutase	43.9					360911.89	417163.39
Biofilm	ACA32360.1	HSM_0698	TrkA-N domain protein	24.5					681794.54	482874.50
Biofilm	ACA32363.1	HSM_0070	oxaloacetate decarboxylase alpha subunit	65.5					558304.65	477229.60
Biofilm	ACA32373.1	HSM_0709	peptide chain release factor 3	59.3					1284535.97	1132257.65
Biofilm	ACA32377.1	HSM_0712	Nucleoside-diphosphate kinase	16.1					2644621.62	2655531.83
Biofilm	ACA32378.1	HSM_0713	PepB aminopeptidase	47.3					12938409.87	4847859.70
Biofilm	ACA32381.1	HSM_0716	3-isopropylmalate dehydrogenase	39.2					1276985.07	230877.88
Biofilm	ACA32385.1	HSM_0072	transaldolase	35.1					84302249.76	32908937.24
Biofilm	ACA32399.1	HSM_0732	succinic semialdehyde dehydrogenase	53.1					696712.82	453879.95
Biofilm	ACA32407.1	HSM_0074	fructose-bisphosphate aldolase, class II	39					227195089.52	95599867.18
Biofilm	ACA32411.1	HSM_0743	glutamine synthetase, type I	52.7					104190712.20	17941157.26
Biofilm	ACA32413.1	HSM_0745	inosine-5'-monophosphate dehydrogenase	52					10994095.35	1125384.71
Biofilm	ACA32432.1	HSM_0762	hypoxanthine phosphoribosyltransferase	20.6					1924457.51	917564.64
Biofilm	ACA32433.1	HSM_0763	Superoxide dismutase	23.5					33421365.44	9965225.20
Biofilm	ACA32434.1	HSM_0764	Malate dehydrogenase (oxaloacetate-decarboxylating) (NADP(+)), Phosphate acetyltransferase	81.6					151924548.43	48254875.69
Biofilm	ACA32435.1	HSM_0765	aspartate ammonia-lyase	51					19311298.84	6405736.98
Biofilm	ACA32446.1	HSM_0775	alkyl hydroperoxide reductase/ Thiol specific antioxidant/ Mal allergen	22.3					486216584.20	124716569.05
Biofilm	ACA32453.1	HSM_0781	succinate dehydrogenase and fumarate reductase iron-sulfur protein	28.7					1779224.72	10105.12
Biofilm	ACA32454.1	HSM_0782	fumarate reductase, flavoprotein subunit	66.2					34074895.17	14973978.32
Biofilm	ACA32455.1	HSM_0783	lysyl-tRNA synthetase-related protein GenX	36.7					116639.69	No Quan Value
Biofilm	ACA32461.1	HSM_0789	aconitate hydratase 2	90.6					8171739.78	4849755.19

Biofilm	ACA32463.1	HSM_0790	YCII-related	11.1					4705119.25	2682528.05
Biofilm	ACA32473.1	HSM_0800	Haemophilus-specific protein, uncharacterized	17.2					1397890.46	610377.76
Biofilm	ACA32476.1	HSM_0803	valyl-tRNA synthetase	109.5					155702673.50	41400030.08
Biofilm	ACA32477.1	HSM_0804	tRNA pseudouridine synthase A	30.6					224140.63	No Quan Value
Biofilm	ACA32490.1	HSM_0816	ROK family protein	32.4					16460748.45	5833868.03
Biofilm	ACA32493.1	HSM_0819	ketose-bisphosphate aldolase	32.2					560852.99	61276.93
Biofilm	ACA32495.1	HSM_0820	protein of unknown function DUF1498	26.2					54758.07	4571.98
Biofilm	ACA32501.1	HSM_0826	mannitol 1-phosphate 5-dehydrogenase	42.8					4476463.45	816793.48
Biofilm	ACA32506.1	HSM_0832	Dipeptidase E	26.2					736676.72	147631.59
Biofilm	ACA32512.1	HSM_0084	Ribonuclease E inhibitor RraA	18					1443133.04	669890.08
Biofilm	ACA32513.1	HSM_0840	phosphoheptose isomerase	21.6					12245884.64	3888063.95
Biofilm	ACA32516.1	HSM_0843	RNA polymerase, sigma 70 subunit, RpoD	71.3					2204386.07	1877527.53
Biofilm	ACA32519.1	HSM_0846	glycyl-tRNA synthetase, alpha subunit	34.7					422888.92	155402.69
Biofilm	ACA32520.1	HSM_0847	conserved hypothetical protein	10.1					185353.32	1458.82
Biofilm	ACA32527.1	HSM_0853	conserved hypothetical protein	38.5					15290434.69	6584439.90
Biofilm	ACA32528.1	HSM_0854	Methionine synthase vitamin-B12 independent	38.5					8148110.14	2400269.15
Biofilm	ACA32531.1	HSM_0857	aspartyl-tRNA synthetase	66.5					51957807.93	23381868.83
Biofilm	ACA32547.1	HSM_0871	conserved hypothetical protein	13.3					2641021.60	523438.16
Biofilm	ACA32551.1	HSM_0875	hypothetical protein HSM_0875	31.4					1932692.90	581607.81
Biofilm	ACA32557.1	HSM_0880	conserved hypothetical protein	38.2					178148.23	No Quan Value
Biofilm	ACA32566.1	HSM_0889	protein of unknown function UPF0150	15.2					1370185.62	1139993.11
Biofilm	ACA32608.1	HSM_0926	arsenate reductase and related	13.4					830188.91	456603.14
Biofilm	ACA32609.1	HSM_0927	succinyl-diaminopimelate desuccinylase	41.8					4131179.58	1486900.62
Biofilm	ACA32611.1	HSM_0929	ADP-ribose diphosphatase	23.3					2203785.27	379700.43
Biofilm	ACA32613.1	HSM_0930	Calcineurin phosphoesterase domain protein	32.2					1460353.08	788323.26
Biofilm	ACA32619.1	HSM_0936	xylose isomerase	49.6					1201608.29	624448.00
Biofilm	ACA32630.1	HSM_0946	glutaredoxin, GrxA family	9.6					10977451.25	1427049.20
Biofilm	ACA32641.1	HSM_0956	mannose-6-phosphate isomerase, class I	45.4					14084050.41	14993762.37

Biofilm	ACA32646.1	HSM_0960	PTS system, mannose/fructose/sorbose family, IIB subunit	35.5					291570.37	258910.58
Biofilm	ACA32647.1	HSM_0961	protein of unknown function DUF496	14.6					911982.26	838376.44
Biofilm	ACA32648.1	HSM_0962	phosphoserine aminotransferase	40.2					3059125.08	1156930.94
Biofilm	ACA32649.1	HSM_0963	histidinol-phosphate aminotransferase	41.6					172958.78	No Quan Value
Biofilm	ACA32657.1	HSM_0970	aminotransferase class I and II	45.4					10398292.85	5734602.86
Biofilm	ACA32674.1	HSM_0988	Nucleoside-triphosphate--adenylate kinase	23.7					1489825.84	489584.52
Biofilm	ACA32680.1	HSM_0993	Endoribonuclease L-PSP	13.2					10488382.49	2682321.90
Biofilm	B0URH4.1	HSM_0409	Uronate isomerase	54					171880904.61	32573020.47
Biofilm	B0URI5.1	HSM_0420	Triosephosphate isomerase	26.9					51628324.58	24265839.84
Biofilm	B0URI7.1	HSM_0422	Phosphopantetheine adenyltransferase	17.7					2244251.09	746794.74
Biofilm	B0URJ9.1	HSM_0434	Inosose dehydratase	33.6					2015746.42	184596.26
Biofilm	B0URN5.1	HSM_0473	Phosphoribosylformylglycinamide cyclo-ligase	37.1					824251.73	203363.69
Biofilm	B0URV5.1	HSM_0510	Fe/S biogenesis protein NfuA	21.4					24284152.00	No Quan Value
Biofilm	B0URX4.1	HSM_0529	5'-methylthioadenosine/S-adenosylhomocysteine nucleosidase	24					7477138.53	1858814.02
Biofilm	B0URX8.1	HSM_0533	50S ribosomal protein L31	7.8					619513.77	622138.73
Biofilm	B0US06.1	HSM_0563	ATP-dependent protease subunit HslV	19					13495718.52	4945766.56
Biofilm	B0US46.1	HSM_0607	50S ribosomal protein L9	15.9					5980578.33	3595500.91
Biofilm	B0US69.1	HSM_0630	D-alanine--D-alanine ligase	33.9					459062.71	22206.39
Biofilm	B0USG9.1	HSM_0730	Histidine--tRNA ligase	48.2					38681392.12	17600838.59
Biofilm	B0USH2.1	HSM_0733	Gamma-glutamyl phosphate reductase	45.6					1076858.55	865145.45
Biofilm	B0USI5.1	HSM_0746	GMP synthase [glutamine-hydrolyzing]	58.3					834097.84	1005348.93
Biofilm	B0USJ0.1	HSM_0751	Chaperone protein HtpG	71.6					202604041.45	164972645.59
Biofilm	B0USJ3.1	HSM_0754	Glutamate--tRNA ligase	54.9					7018255.58	3984918.96
Biofilm	B0USK5.1	HSM_0766	Co-chaperonin GroES	10.3					139197295.36	51767133.62
Biofilm	B0USL2.1	HSM_0773	3-octaprenyl-4-hydroxybenzoate carboxy-lyase	55.6					1106369.63	765319.40
Biofilm	B0UST3.1	HSM_0850	Glutamate-1-semialdehyde 2,1-aminomutase	46.7					3127912.25	1359595.25

Biofilm	B0USU2.1	HSM_0859	Bifunctional protein FolD; Includes: Methylenetetrahydrofolate dehydrogenase and Methenyltetrahydrofolate cyclohydrolase	30.6					503426.52	484588.42
Biofilm	B0UT65.1	HSM_0984	Uridine kinase	24.5					347947.92	202057.38
Biofilm	B0UT66.1	HSM_0985	dCTP deaminase	21.4					2698211.88	311344.92
Biofilm	B0UT70.1	HSM_0989	Protein GrpE	22					27370537.91	14042344.26
Biofilm	B0UT99.1	HSM_1018	Elongation factor Ts	30.4					20256157.32	5329813.66
Biofilm	B0UTE1.1	HSM_1060	Alanine--tRNA ligase	96.4					2479515.43	2237283.55
Biofilm	B0UTI0.1	HSM_1099	UPF0234 protein HSM_1099	18.6					4590798.37	2376938.52
Biofilm	B0UTI6.1	HSM_1105	D-aminoacyl-tRNA deacylase	15.9					61802.42	12142.50
Biofilm	B0UTI7.1	HSM_1106	N-acetylneuraminate lyase	32.3					13975120.16	4080162.70
Biofilm	B0UTS2.1	HSM_1197	Phosphoglucosamine mutase	47.4					2312280.62	1576472.32
Biofilm	B0UTU8.1	HSM_1223	Asparagine--tRNA ligase	52.8					10100950.06	3560424.62
Biofilm	B0UU16.1	HSM_1293	5-methyltetrahydropteroyltriglutamate--homocysteine methyltransferase	85.8					78004860.21	21904669.09
Biofilm	B0UU22.1	HSM_1299	6,7-dimethyl-8-ribityllumazine synthase	16.5					103506121.06	17647966.07
Biofilm	B0UU27.1	HSM_1304	4-hydroxy-tetrahydrodipicolinate reductase	29.2					11075775.02	3514343.78
Biofilm	B0UU57.1	HSM_1334	Phenylalanine--tRNA ligase alpha subunit	38					449791.80	31363.40
Biofilm	B0UU60.1	HSM_1337	Integration host factor subunit alpha	10.9					5161747.13	789199.29
Biofilm	B0UU87.1	HSM_1366	Glucose-1-phosphate adenylyltransferase	49.4					3358161.89	1622771.11
Biofilm	B0UUD2.1	HSM_1411	Pyridoxal kinase PdxY	31.3					34362940.98	10625033.95
Biofilm	B0UUE2.1	HSM_1421	2-dehydro-3-deoxyphosphooctonate aldolase	31.2					1330500.32	346637.26
Biofilm	B0UUE6.1	HSM_1425	Peptide chain release factor 1	40.8					342984.75	No Quan Value
Biofilm	B0UUF1.1	HSM_1430	Arginine--tRNA ligase	65.1					61900626.77	14350412.74
Biofilm	B0UUF3.1	HSM_1432	Succinate--CoA ligase [ADP-forming] subunit beta	42.5					5314063.18	464960.94
Biofilm	B0UUJ3.1	HSM_1472	Phosphoenolpyruvate carboxylase	99.8					580467.01	637319.22
Biofilm	B0UUL6.1	HSM_1495	Protein-methionine-sulfoxide reductase catalytic subunit MsrP; Flags: Precursor	36.2					335926.40	12945.88
Biofilm	B0UUN2.1	HSM_1505	Glucosamine-6-phosphate deaminase	30.4					15152644.67	3831641.40

Biofilm	B0UUN5.1	HSM_1508	Cyclic pyranopterin monophosphate synthase	17.2					11442070.02	2397627.62
Biofilm	B0UUR6.1	HSM_1539	Malate dehydrogenase	32.6					42484633.48	16292582.87
Biofilm	B0UUT2.1	HSM_1555	RNA chaperone ProQ	23.4					73978.71	12840.51
Biofilm	B0UUT7.1	HSM_1560	Serine--tRNA ligase	48.1					2977932.43	3174918.72
Biofilm	B0UUU9.1	HSM_1572	tRNA-2-methylthio-N(6)-dimethylallyl adenosine synthase	53.3					473954.55	157012.77
Biofilm	B0UUV5.1	HSM_0007	Deoxyuridine 5'-triphosphate nucleotidohydrolase	16.3					12059495.94	5853206.69
Biofilm	B0UUZ3.1	HSM_0035	Acyl carrier protein	8.6					13934185.04	7753987.98
Biofilm	B0UV12.1	HSM_0054	Isoleucine--tRNA ligase	105.9					147795566.94	48943470.86
Biofilm	B0UV33.1	HSM_0075	Phosphoglycerate kinase	41.2					156843159.60	54348001.37
Biofilm	B0UV57.1	HSM_0099	Sugar fermentation stimulation protein homolog	27					651192.42	217198.08
Biofilm	B0UVH6.1	HSM_0115	Cysteine--tRNA ligase	52.5					5237115.50	3474986.81
Biofilm	B0UVH9.1	HSM_0118	50S ribosomal protein L21	11.5					1032784.16	603008.60
Biofilm	B0UVM2.1	HSM_0161	Purine nucleoside phosphorylase DeoD-type	25.9					18647924.18	6791524.61
Biofilm	B0UVY2.1	HSM_1763	Probable transcriptional regulatory protein HSM_1763	26.2					673046.07	263503.31
Biofilm	B0UW05.1	HSM_1786	ATP-dependent 6-phosphofructokinase	35.2					3052559.92	1025072.32
Biofilm	B0UW09.2	HSM_0204	Bifunctional protein GlmU; Includes: UDP-N-acetylglucosamine pyrophosphorylase and Glucosamine-1-phosphate N-acetyltransferase	49.4					13554790.81	6549920.05
Biofilm	B0UW18.1	HSM_0213	Dihydroxy-acid dehydratase	65.4					76762.24	No Quan Value
Biofilm	B0UW20.1	HSM_0215	ATP-dependent Clp protease proteolytic subunit	21.4					2031592.93	479441.75
Biofilm	B0UW56.1	HSM_0251	Phosphoribosylaminoimidazole-succinocarboxamide synthase	32.3					2874361.09	366007.12
Biofilm	B0UW60.1	HSM_0255	3-hydroxyacyl-[acyl-carrier-protein] dehydratase FabZ	17					17328169.81	1512259.63
Biofilm	B0UW86.1	HSM_0281	Uracil phosphoribosyltransferase	22.6					1146325.86	895773.07
Biofilm	B0UWA8.1	HSM_1791	Autonomous glycyl radical cofactor	14.3					7249305.89	3491754.94
Biofilm	B0UWA9.1	HSM_1792	Glycine--tRNA ligase beta subunit	75.4					1458856.19	1316904.26

Biofilm	B0UWG4.1	HSM_1849	ATP synthase epsilon chain	15.7					354324.84	195977.38
Biofilm	B0UWH5.1	HSM_1860	Cell division protein ZapB	8.7					713382.07	870.27
Biofilm	B0UWL1.1	HSM_0315	Protein RecA	38.1					206481.84	108803.08
Biofilm	B0UWM2.1	HSM_0326	Ribonuclease PH	25.8					664547.07	306190.15
Biofilm	B0UWS8.1	HSM_0382	Serine hydroxymethyltransferase	45.6					28594502.75	9949452.34
Biofilm	B0UWZ5.1	HSM_1934	Peptide deformylase	19.3					5027494.79	5232647.25
Biofilm	B0UX14.1	HSM_1953	50S ribosomal protein L4	22					647104.50	139105.20
Biofilm	B0UX25.1	HSM_1964	50S ribosomal protein L24	11.2					8212370.80	3397383.95
Biofilm	B0UX29.1	HSM_1968	50S ribosomal protein L6	19					1281811.76	53157.17
Biofilm	B0UX38.1	HSM_1977	30S ribosomal protein S4	23.5					535982.84	624458.14
Biofilm	CAV20865.1	HSM_0032	unnamed protein product	34.2					4969783.02	1050447.53
Biofilm	CAV21854.1	HSM_1388	unnamed protein product	24.9					5731116.85	1681170.60
Biofilm	CAV22576.1	HSM_0438	unnamed protein product	81.8					714819881.57	14921861.35
Biofilm	CAV25160.1	HSM_0855	unnamed protein product	17.3					782897.32	357055.73
Biofilm	CAY05760.1	HSM_1850, HSM_1851	unnamed protein product: ATP synthase F1, beta subunit and gamma subunit	51.5					41705344.00	10535289.29
Biofilm	CAY08832.1	HSM_1081	unnamed protein product	17.4					628555.81	282842.21
Biofilm	CAY33861.1	HSM_1041	unnamed protein product	86.7					66261738.00	30644426.91
Biofilm	CAY35004.1	HSM_1307	unnamed protein product	44.3					60976128.57	18427693.82
Biofilm	CAY36147.1	HSM_0479	unnamed protein product	26					4019027.12	2466142.97
Biofilm	CBF76861.1	HSM_0761	unnamed protein product	12					13180282.18	4689946.39
Biofilm	CBG07608.1	HSM_0034	unnamed protein product	25.2					125569.48	53422.49
Biofilm	CBL85769.1	HSM_0114	unnamed protein product	18.7					23147663.31	5142019.70
Biofilm	CBM35200.1	HSM_1065	unnamed protein product	39.7					196909.38	177732.22
Biofilm	CBM38073.1	HSM_0067	unnamed protein product	95.4					29556525.02	18235327.66
Biofilm	CBV14742.1	HSM_1256	unnamed protein product	37.4					3408790.77	1955259.00
Proteins detected under two growth conditions										
OMV_Fe & OMV_EDDHA	ACA30758.1	HSM_1044	conserved hypothetical protein	13.1	12219526.66	331117.58	6322717.28	2668878.56		
OMV_Fe & OMV_EDDHA	ACA30793.1	HSM_1078	Haemophilus-specific protein, uncharacterized	17.8	20590979.78	11014503.29	14999603.49	8571895.87		

OMV_Fe & OMV_EDDHA	ACA30807.1	HSM_1090	filamentous haemagglutinin family outer membrane protein	192.5	3594180.80	2482101.11	918313.37	935115.17		
OMV_Fe & OMV_EDDHA	ACA30938.1	HSM_1213	outer membrane efflux protein	51.8	96037824.14	42800309.09	66507291.66	23863768.97		
OMV_Fe & OMV_EDDHA	ACA31085.1	HSM_0135	Tol-Pal system beta propeller repeat TolB	46.3	447823310.59	289058261.45	240326348.33	59355903.98		
OMV_Fe & OMV_EDDHA	ACA31109.1	HSM_1371	peptidase M16 domain protein	106.5	12064294.06	1843071.41	188998048.31	43511957.39		
OMV_Fe & OMV_EDDHA	ACA31110.1	HSM_1372	TonB-dependent receptor	90.5	43106244.60	24380213.60	764945595.23	104362503.16		
OMV_Fe & OMV_EDDHA	ACA31172.1	HSM_1428	conserved hypothetical protein	11.7	27962708.16	8453326.64	10965581.50	2310536.70		
OMV_Fe & OMV_EDDHA	ACA31225.1	HSM_1476	outer membrane lipoprotein LolB	24.2	2448775.03	1097043.40	2915415.54	368214.21		
OMV_Fe & OMV_EDDHA	ACA31299.1	HSM_1542	YadA domain protein	246.2	10265745.60	3579030.74	2161428.95	552407.28		
OMV_Fe & OMV_EDDHA	ACA31315.1	HSM_1557	conserved hypothetical protein	55.2	33392525.89	8218649.20	16308524.98	109674.02		
OMV_Fe & OMV_EDDHA	ACA31324.1	HSM_1565	protein of unknown function DUF1007	24.7	3522812.12	2957174.77	800268.84	498316.70		
OMV_Fe & OMV_EDDHA	ACA31331.1	HSM_1571	YadA domain protein	410	267225.63	34163.29	No Quan Value	No Quan Value		
OMV_Fe & OMV_EDDHA	ACA31420.1	HSM_1651	filamentous haemagglutinin family outer membrane protein	299.3	4084572.77	2047339.75	5996688.24	228475.99		
OMV_Fe & OMV_EDDHA	ACA31498.1	HSM_1721	Haemophilus-specific protein, uncharacterized	19.6	3963732.45	3204708.04	1515617.59	589129.12		
OMV_Fe & OMV_EDDHA	ACA31563.1	HSM_1780	conserved hypothetical protein	22.9	6708195.34	1756078.65	2848224.50	101850.18		
OMV_Fe & OMV_EDDHA	ACA31571.1	HSM_1788	conserved hypothetical protein	21.8	38685633.01	43419688.53	12835855.25	7195922.26		
OMV_Fe & OMV_EDDHA	ACA31602.1	HSM_1815	conserved hypothetical protein	16.1	117797974.52	109596172.60	59730503.31	40359057.40		
OMV_Fe & OMV_EDDHA	ACA31628.1	HSM_1840	ApbE family lipoprotein	38.5	517962.16	222415.75	347180.16	No Quan Value		
OMV_Fe & OMV_EDDHA	ACA31757.1	HSM_1962	TonB-dependent receptor	98.3	131157186.45	56430400.86	62031325.86	1819424.06		
OMV_Fe & OMV_EDDHA	ACA31785.1	HSM_1988	TonB-dependent lactoferrin and transferrin receptor	84.6	266098477.22	105727873.45	1180589809.19	109555159.93		

OMV_Fe & OMV_EDDHA	ACA31786.1	HSM_1989	conserved hypothetical protein	17.8	51576061.98	30901353.18	30137485.21	9949836.63		
OMV_Fe & OMV_EDDHA	ACA31806.1	HSM_2005	conserved hypothetical protein	22.3	10800463.72	3731597.28	5029616.76	2448659.34		
OMV_Fe & OMV_EDDHA	ACA31833.1	HSM_0210	surface antigen (D15)	67.5	14186805.48	8108058.86	4747360.51	364499.29		
OMV_Fe & OMV_EDDHA	ACA31902.1	HSM_0273	hypothetical protein HSM_0273	15.2	33050767.16	21546081.54	17243773.21	10798932.04		
OMV_Fe & OMV_EDDHA	ACA31904.1	HSM_0275	hypothetical protein HSM_0275	13.4	3133827.85	2967074.60	986398.56	139072.49		
OMV_Fe & OMV_EDDHA	ACA31905.1	HSM_0276	hypothetical protein HSM_0276	13.1	3774677.70	3330276.90	3225353.23	1655667.44		
OMV_Fe & OMV_EDDHA	ACA31995.1	HSM_0359	peptidase U6 penicillin-insensitive murein endopeptidase	31.5	7318971.58	5743457.09	1922315.39	468279.96		
OMV_Fe & OMV_EDDHA	ACA32002.1	HSM_0365	type IV pilus biogenesis/stability protein PilW	20.7	4835284.53	1693777.97	1878561.13	201563.61		
OMV_Fe & OMV_EDDHA	ACA32043.1	HSM_0401	conserved hypothetical protein	24	2199470.80	1430756.27	1441454.95	1010.75		
OMV_Fe & OMV_EDDHA	ACA32046.1	HSM_0404	sigma E regulatory protein, MucB/RseB	36.3	1960262.16	1498254.52	1788551.27	604836.10		
OMV_Fe & OMV_EDDHA	ACA32059.1	HSM_0416	conserved hypothetical protein	19.8	97388422.11	75240269.04	42616184.41	20065323.54		
OMV_Fe & OMV_EDDHA	ACA32105.1	HSM_0460	peptidase M48 Ste24p	27.9	6268327.17	6149430.60	5626219.54	3114608.61		
OMV_Fe & OMV_EDDHA	ACA32115.1	HSM_0047	TonB-dependent receptor	102.6	47037477.29	24327799.50	2469711909.02	238717428.42		
OMV_Fe & OMV_EDDHA	ACA32122.1	HSM_0476	membrane protein involved in aromatic hydrocarbon degradation	43.4	7064332.73	2449946.17	743145.38	489361.66		
OMV_Fe & OMV_EDDHA	ACA32170.1	HSM_0520	conserved hypothetical protein	21.9	70577480.32	52050282.14	32239597.29	14190628.64		
OMV_Fe & OMV_EDDHA	ACA32176.1	HSM_0526	thiol:disulfide interchange protein	26.2	79982665.71	23175961.34	40592662.87	6826327.33		
OMV_Fe & OMV_EDDHA	ACA32230.1	HSM_0579	conserved hypothetical protein	10.8	38221946.71	21333367.54	11990700.66	9340695.84		
OMV_Fe & OMV_EDDHA	ACA32241.1	HSM_0589	protein of unknown function DUF610 YibQ	32	2823674.86	2566282.36	501286.59	397203.71		
OMV_Fe & OMV_EDDHA	ACA32277.1	HSM_0622	Peptidoglycan glycosyltransferase	67.3	8109806.11	3136822.96	6015804.19	2086365.28		

OMV_Fe & OMV_EDDHA	ACA32300.1	HSM_0643	conserved hypothetical protein	19.5	262160425.25	249124974.40	94677641.33	32816159.64		
OMV_Fe & OMV_EDDHA	ACA32369.1	HSM_0705	TRAP transporter solute receptor, TAXI family	36	396018.81	81544.26	1761487.09	1706045.69		
OMV_Fe & OMV_EDDHA	ACA32372.1	HSM_0708	YadA domain protein	388.2	4551462.20	29039.16	917361.65	690259.95		
OMV_Fe & OMV_EDDHA	ACA32417.1	HSM_0749	transferrin binding protein	71.3	31031393.02	17703814.24	75262942.83	21195083.35		
OMV_Fe & OMV_EDDHA	ACA32421.1	HSM_0752	conserved hypothetical protein	9.6	31258463.47	25123426.42	17843621.01	1682690.99		
OMV_Fe & OMV_EDDHA	ACA32440.1	HSM_0077	YadA domain protein	425.6	529987.62	155147.94	108509.65	122431.18		
OMV_Fe & OMV_EDDHA	ACA32468.1	HSM_0797	Haemophilus-specific protein, uncharacterized	17	170665.92	No Quan Value	231665.20	No Quan Value		
OMV_Fe & OMV_EDDHA	ACA32489.1	HSM_0815	MltA domain protein	39.5	57174674.92	32299248.43	41549374.69	106229.91		
OMV_Fe & OMV_EDDHA	ACA32621.1	HSM_0938	Haemagglutinin domain protein	39.2	49239594.58	3664078.18	55520311.20	3441998.42		
OMV_Fe & OMV_EDDHA	ACA32627.1	HSM_0943	4-phytase	64.4	2033369.49	1153560.61	277139.53	32345.70		
OMV_Fe & OMV_EDDHA	ACA32638.1	HSM_0953	Haemagglutinin domain protein	41.3	72621371.39	19498688.06	25110211.79	5122168.54		
OMV_Fe & OMV_EDDHA	B0USI0.1	HSM_0741	30S ribosomal protein S20	9.6	3502566.70	1363889.17	4733133.89	3190287.02		
OMV_Fe & OMV_EDDHA	B0UUL1.1	HSM_1490	Outer membrane transporter protein IbpB; Flags: Precursor	66.3	113532789.18	54243929.52	56596702.58	9434504.03		
OMV_Fe & OMV_EDDHA	B0UWE6.1	HSM_1831	Membrane-bound lytic murein transglycosylase C; Flags: Precursor	40.8	113144413.58	81244612.33	53065020.01	16508319.49		
OMV_Fe & OMV_EDDHA	B0UX18.1	HSM_1957	50S ribosomal protein L22	12.2	10288916.62	1433513.96	3287873.14	215327.18		
OMV_Fe & OMV_EDDHA	B0UX30.1	HSM_1969	50S ribosomal protein L18	12.9	1496078.84	1243066.85	61773.70	36482.12		
OMV_Fe & OMV_EDDHA	CBN71109.1	HSM_1266	unnamed protein product	49	86927246.99	33915629.95	17127977.43	439259.78		
OMV_Fe & Biofilm	ACA30946.1	HSM_1220	ribosomal protein S9	14.7	1797144.58	1174015.77			3078886.53	1508615.10
OMV_Fe & Biofilm	ACA31378.1	HSM_1613	Phosphopyruvate hydratase	45.8	222677.19	No Quan Value			486519635.86	67264436.18

OMV_Fe & Biofilm	ACA31705.1	HSM_1915	TRAP dicarboxylate transporter, DctP subunit	37.5	1923452.41	No Quan Value			5863483.48	1035080.74
OMV_Fe & Biofilm	ACA31760.1	HSM_1965	ribosomal protein L5	20.3	3754036.75	5158625.75			847272.98	155552.18
OMV_Fe & Biofilm	ACA31771.1	HSM_1975	ribosomal protein S13	13.2	1054524.01	227250.86			3031849.78	1577111.15
OMV_Fe & Biofilm	ACA32190.1	HSM_0540	glyceraldehyde-3-phosphate dehydrogenase, type I	35.5	No Quan Value	No Quan Value			691682272.53	302620618.64
OMV_Fe & Biofilm	ACA32204.1	HSM_0553	DNA-directed RNA polymerase, beta subunit	149.9	285824.27	178340.62			150468422.02	64361306.35
OMV_Fe & Biofilm	ACA32205.1	HSM_0554	DNA-directed RNA polymerase, beta' subunit	157.8	2231187.98	1165489.45			109350849.55	38989529.21
OMV_Fe & Biofilm	ACA32218.1	HSM_0566	histone family protein DNA-binding protein	9.3	1172841.14	1382645.29			40813978.38	7458413.86
OMV_Fe & Biofilm	B0URQ3.1	HSM_0493	Periplasmic nitrate reductase; Flags: Precursor	93	372723.15	163999.71			40530533.77	12498027.87
OMV_Fe & Biofilm	B0UTU4.1	HSM_1219	50S ribosomal protein L13	15.9	2591436.01	2686793.18			823878.03	262058.86
OMV_Fe & Biofilm	B0UWC5.1	HSM_1808	30S ribosomal protein S7	17.7	510746.19	140093.19			7949092.09	3384412.24
OMV_Fe & Biofilm	B0UX20.1	HSM_1959	50S ribosomal protein L16	15.2	844794.52	777438.65			180321.86	158612.34
OMV_Fe & Biofilm	B0UX28.1	HSM_1967	30S ribosomal protein S8	14	1758827.85	1950520.39			2781700.93	1802994.16
OMV_EDDHA & Biofilm	ACA30834.1	HSM_1114	Polyribonucleotide nucleotidyltransferase	77.5			9765112.98	No Quan Value	241223772.51	69970272.99
OMV_EDDHA & Biofilm	ACA31090.1	HSM_1354	ribosomal protein L20	13.4			1640417.71	1400891.64	1382328.36	944810.22
OMV_EDDHA & Biofilm	ACA31620.1	HSM_1833	ketol-acid reductoisomerase	54.6			1003307.29	1228065.81	271274241.25	24720761.19
OMV_EDDHA & Biofilm	B0UUD4.1	HSM_1413	Glucose-6-phosphate isomerase	61.9			1297139.03	No Quan Value	435753052.66	79994982.95
OMV_EDDHA & Biofilm	CAY37546.1	HSM_1664	unnamed protein product	73.4			270413.50	No Quan Value	408276398.79	101301346.66
Common proteins for all three growth conditions										
Common	ACA30723.1	HSM_1012	2-oxo-acid dehydrogenase E1 subunit, homodimeric type	99.7	1273879.28	247293.59	18446685.93	22772224.71	277986174.46	26691256.76
Common	ACA30724.1	HSM_1013	pyruvate dehydrogenase complex dihydrolipoamide acetyltransferase	66.5	648558.41	No Quan Value	5512689.88	7106530.55	28063797.78	14355945.17

Common	ACA30725.1	HSM_1014	dihydrolipoamide dehydrogenase	50.8	866404.38	781336.30	4806435.53	6515769.46	141138520.18	26383337.01
Common	ACA30732.1	HSM_1020	PpiC-type peptidyl-prolyl cis-trans isomerase	69.9	10031918.37	7269381.47	17414434.08	6962504.20	No Quan Value	No Quan Value
Common	ACA30764.1	HSM_0105	periplasmic binding protein/LacI transcriptional regulator	35.5	78726789.40	34838232.54	47204948.15	3701798.50	135904923.85	57923095.13
Common	ACA30832.1	HSM_1112	TRAP dicarboxylate transporter, DctP subunit	36.5	21620127.46	15071775.87	7950720.00	2135251.65	8317747.88	3472483.27
Common	ACA30928.1	HSM_1204	transport-associated	20.8	498314233.78	167356466.66	293768949.61	95254981.40	6988019.23	2960998.08
Common	ACA30955.1	HSM_1229	TRAP dicarboxylate transporter, DctP subunit	36.2	8228642.89	3845227.86	5177415.66	496161.34	1646506.81	1389649.42
Common	ACA30959.1	HSM_1232	ABC-type sugar-binding periplasmic protein	40	11388228.63	5318511.73	9885577.62	96353.12	2076670.85	245722.81
Common	ACA30961.1	HSM_1234	Monosaccharide-transporting ATPase	33.6	9858222.77	4733223.97	7500918.97	506693.47	56475326.58	23145649.44
Common	ACA30978.1	HSM_0125	extracellular solute-binding protein family 3	26.4	187240271.64	65864109.97	77437005.74	17319144.21	81330693.34	28778104.51
Common	ACA30979.1	HSM_1250	extracellular solute-binding protein family 1	37.6	1246978148.90	579315924.85	1308827223.09	210055719.10	367714723.67	187976209.70
Common	ACA31004.1	HSM_1275	molybdopterin guanine dinucleotide-containing S/N-oxide reductase	90.9	11165666.93	1286701.14	7769052.80	1333543.65	2605631819.04	497618456.62
Common	ACA31013.1	HSM_1283	outer membrane lipoprotein carrier protein LolA	23.4	451040.43	22014.17	242542.60	14274.76	No Quan Value	No Quan Value
Common	ACA31015.1	HSM_1285	protease Do	49.5	525177555.86	132943145.48	435122492.51	154261401.02	46612724.36	432269.74
Common	ACA31051.1	HSM_1317	SmpA/OmlA domain protein	31	1212610086.56	710405903.60	674475502.60	3024719.26	5069636.49	632150.61
Common	ACA31071.1	HSM_1335	conserved hypothetical protein	18.3	50171242.27	22055421.78	24107043.42	8183117.31	18221544.85	7074726.03
Common	ACA31096.1	HSM_0136	Peptidoglycan-associated lipoprotein	16.5	786872350.40	35386477.39	394899469.30	219946874.24	4239564.60	1270623.42
Common	ACA31171.1	HSM_1427	17 kDa surface antigen	15.2	1877111407.34	734759592.13	866701289.41	346316259.98	9506465.66	2173350.03
Common	ACA31193.1	HSM_1447	porin Gram-negative type	41.7	34171123380.65	13229610288.39	22006152859.51	57381272.10	436326345.64	11069138.79
Common	ACA31204.1	HSM_1457	outer membrane chaperone Skp (OmpH)	21.5	367480178.50	68000826.99	223429735.96	81838092.05	135402398.49	82342686.33
Common	ACA31205.1	HSM_1458	surface antigen (D15)	89.9	4051163261.96	844882795.25	1843248176.74	62194277.63	47608358.35	10440265.88
Common	ACA31238.1	HSM_1488	thiamine ABC transporter, periplasmic binding protein	38.4	15381059.84	5191751.76	13773125.52	3338822.59	11819991.74	5643251.50
Common	ACA31239.1	HSM_1489	cysteine protease domain, YopT-type	449.8	2120520446.86	1923564132.12	197008124.10	55222770.49	2136194.36	1805066.49

Common	ACA31267.1	HSM_1513	OmpA domain protein transmembrane region-containing protein	36.7	11842198523.30	5373843910.42	6156465166.71	667296061.26	119379692.85	8300235.55
Common	ACA31288.1	HSM_1532	extracellular solute-binding protein family 1	39.1	12413705.41	4772436.33	3677653.95	1887477.06	2917883.65	652698.71
Common	ACA31314.1	HSM_1556	carboxyl-terminal protease	76.8	210143066.01	5462439.94	66823374.87	660730.74	9124323.64	7354304.99
Common	ACA31337.1	HSM_1577	extracellular solute-binding protein family 1	39.9	57513889.70	9204172.52	30116090.08	6020851.57	5765658.27	2345982.36
Common	ACA31348.1	HSM_1587	toluene tolerance family protein	24	89015159.01	44036352.49	41186228.54	7735087.84	27228181.61	10112106.11
Common	ACA31418.1	HSM_0165	ribosomal protein S16	9.2	13814259.45	7436137.21	6149158.56	3725462.03	1413918.88	557410.38
Common	ACA31465.1	HSM_1692	conserved hypothetical protein	15.7	16978718.98	7222038.87	7852617.27	6310695.41	56589378.31	26893404.72
Common	ACA31502.1	HSM_1725	protein of unknown function DUF411	16.7	71156592.32	39579475.20	3761510.63	4168787.14	59412871.46	21838151.61
Common	ACA31503.1	HSM_1726	multicopper oxidase type 3	58.6	172231512.56	8850210.20	56520257.39	17431514.03	318221100.19	54466975.02
Common	ACA31508.1	HSM_1730	multicopper oxidase type 3	58.7	2602548.91	1210859.72	217905.28	No Quan Value	14277561.40	5385206.84
Common	ACA31585.1	HSM_0180	DSBA oxidoreductase	23	41768346.29	35867547.75	11188777.04	3899697.93	8523473.68	3810275.55
Common	ACA31593.1	HSM_1807	translation elongation factor G	77.1	614082.64	515490.32	1407031.16	1563348.75	544652560.55	166317117.87
Common	ACA31604.1	HSM_1817	VacJ family lipoprotein	28.3	130386467.89	62625856.91	66352096.39	14040893.92	76600.67	No Quan Value
Common	ACA31613.1	HSM_1827	protein of unknown function DUF302	16.1	238115838.08	85610028.34	58880105.70	16676833.49	90808839.12	38845159.66
Common	ACA31622.1	HSM_1835	trimethylamine-N-oxide reductase TorA	93.6	115756.84	12479.09	9151349.28	4300824.23	155477376.98	32487297.69
Common	ACA31627.1	HSM_0184	Sel1 domain protein repeat-containing protein	27.6	46677540.50	16282753.99	25311243.56	3351731.33	4070802.28	1917023.15
Common	ACA31633.1	HSM_1845	NADH:ubiquinone oxidoreductase, subunit C	27.6	852961.59	274606.47	1169932.06	No Quan Value	194147.53	122623.70
Common	ACA31714.1	HSM_1923	sugar ABC transporter, sugar-binding protein	35	19001704.27	11153018.92	6143502.56	1486659.13	21660040.79	7420098.01
Common	ACA31740.1	HSM_1947	ABC transporter, solute-binding, sugar transport	36.7	6020405.78	3011070.51	3422722.31	109632.46	16072343.87	7068482.55
Common	ACA31758.1	HSM_1963	ribosomal protein L14	13.5	8034818.34	7236570.20	15264693.66	21471624.92	8750752.02	5414927.16
Common	ACA31787.1	HSM_0199	periplasmic solute binding protein	32.6	338617214.31	175228181.12	2473298807.39	210077235.50	168821142.84	61404409.36
Common	ACA31804.1	HSM_2003	conserved hypothetical protein	15.4	715482087.06	288396899.73	393102671.45	157181558.92	4905548.93	1799153.55
Common	ACA31830.1	HSM_0208	conserved hypothetical protein	26.4	82102312.79	44128348.08	44269441.62	1008357.22	898646.24	942657.63
Common	ACA31914.1	HSM_0284	conserved hypothetical protein	21.7	16766386.07	6277893.66	11877901.56	4142774.34	1691528.18	542704.13
Common	ACA31915.1	HSM_0285	Beta-glucuronidase	68.4	1611492.80	1304932.73	11965412.91	15028989.62	991742865.63	132165535.43
Common	ACA31970.1	HSM_0336	conserved hypothetical protein	28.4	646464753.63	326061556.93	391156632.08	11370239.94	9646629.57	3306956.77

Common	ACA31971.1	HSM_0337	conserved hypothetical protein	28.4	787782027.68	427396977.14	442602926.70	9138646.05	10447485.14	4562532.14
Common	ACA31973.1	HSM_0339	conserved hypothetical protein	30.4	1765528.02	1059751.15	1833397.91	507279.62	489273.25	72140.98
Common	ACA31977.1	HSM_0342	molybdenum ABC transporter, periplasmic molybdate-binding protein	26.5	3231354.44	263863.04	1785421.05	No Quan Value	3240476.90	534247.91
Common	ACA31980.1	HSM_0345	conserved hypothetical protein	24.4	49839464.43	24310095.96	33091980.52	11144792.78	716300.85	449339.43
Common	ACA32007.1	HSM_0037	ribosomal protein L1	24.1	4312806.94	3791389.40	2028467.80	621265.63	4452239.16	375126.99
Common	ACA32073.1	HSM_0429	Monosaccharide-transporting ATPase	33.9	12654156.50	11808096.31	444492.86	128121.51	1916332.96	1296416.88
Common	ACA32109.1	HSM_0464	PpiC-type peptidyl-prolyl cis-trans isomerase	36.1	432945749.20	123266911.53	281235871.28	16490828.88	1053454.96	206326.66
Common	ACA32113.1	HSM_0468	Rare lipoprotein B	18.8	189541198.88	93902261.10	75014765.99	11115623.89	359041.90	240570.76
Common	ACA32145.1	HSM_0499	peptidase M23B	37.9	456869823.31	222809197.09	272634645.69	12360625.48	9865412.56	516945.39
Common	ACA32200.1	HSM_0055	conserved hypothetical protein	20.9	54749593.60	30190226.53	12905981.45	8069030.87	1516176.48	1195227.98
Common	ACA32221.1	HSM_0569	lipoprotein, YaeC family	30.3	14902097.24	4039407.08	8940487.11	2689311.00	4756017.18	1792768.28
Common	ACA32259.1	HSM_0606	ribosomal protein S18	9	7186943.56	1137406.36	6716660.21	961763.84	1195248.89	532312.19
Common	ACA32292.1	HSM_0636	Tetratricopeptide TPR_2 repeat protein	29.3	550979562.89	271458867.33	430636606.66	51090718.97	5487391.67	1889914.92
Common	ACA32358.1	HSM_0696	extracellular solute-binding protein family 5	61.2	335731028.68	573598.04	240294195.04	56683594.09	520875198.88	68701498.86
Common	ACA32359.1	HSM_0697	extracellular solute-binding protein family 5	62.5	148302392.46	33660295.25	107368371.47	22974610.13	149556174.68	28671248.50
Common	ACA32396.1	HSM_0073	Organic solvent tolerance protein	91.1	233802325.90	59136987.07	117535972.80	8130251.96	255188.40	12887.58
Common	ACA32419.1	HSM_0750	TonB-dependent lactoferrin and transferrin receptor	109.6	531580027.20	198794605.63	589033096.64	29993476.65	124208.35	31916.70
Common	ACA32447.1	HSM_0776	ribosomal protein S15	10.2	7311222.20	2661718.47	1113330.96	763990.84	1970702.67	1540627.65
Common	ACA32460.1	HSM_0788	extracellular solute-binding protein family 5	58.4	41574449.96	8791959.17	42326729.15	12032763.20	142583572.72	26927164.73
Common	ACA32483.1	HSM_0081	extracellular solute-binding protein family 3	28.5	853604980.58	545549524.70	67303174.89	24354071.16	32832159.79	12305754.60
Common	ACA32487.1	HSM_0813	periplasmic solute binding protein	44.2	265519323.78	4181013.82	108235540.36	19634557.73	136630193.35	40168649.08
Common	ACA32496.1	HSM_0821	periplasmic binding protein/LacI transcriptional regulator	32.3	25519681.02	12520368.69	15842321.67	1803331.27	90981265.97	42670165.81
Common	ACA32521.1	HSM_0848	hypothetical protein HSM_0848	14.4	242023907.25	98327955.89	231362572.83	33627342.76	1108774.73	265582.01
Common	ACA32587.1	HSM_0907	conserved hypothetical protein	36.3	62177326.80	25530783.52	212321085.08	177856251.62	764614.13	18696.37
Common	ACA32601.1	HSM_0092	Monosaccharide-transporting ATPase	30.4	77207634.67	18801760.03	32550836.23	1897864.38	68638546.76	31311958.93
Common	ACA32634.1	HSM_0095	SmpA/OmlA domain protein	15.9	445048132.97	105194011.27	354743412.40	173871656.76	3727810.29	883449.89

Common	ACA32668.1	HSM_0982	extracellular solute-binding protein family 1	37.7	6757797.49	1511876.08	3970779.43	588994.86	7803656.97	4424575.74
Common	ACA32669.1	HSM_0983	extracellular solute-binding protein family 1	38.4	10408370.48	2379070.65	6920743.68	597144.15	16842228.38	6651052.16
Common	B0USK6.1	HSM_0767	Chaperonin GroEL	57.4	10817953.81	2479062.23	47723168.62	52739939.70	1054557304.19	75039095.88
Common	B0USS4.1	HSM_0841	30S ribosomal protein S21	8.5	5888806.23	1402379.75	983428.00	868516.16	472942.73	161246.25
Common	B0UTT2.1	HSM_1207	Penicillin-binding protein activator LpoA; Flags: Precursor	66.3	2000857880.85	1086005900.80	1075179057.11	60440060.40	10488903.23	5622953.62
Common	B0UUZ6.1	HSM_0038	50S ribosomal protein L10	17.6	3325136.26	1297140.98	352988.27	323085.08	8390506.15	41191.49
Common	B0UV21.1	HSM_0063; HSM_1806	Elongation factor Tu	43.4	6198604.78	286968.15	1270783.00	694519.28	426588380.11	259341856.85
Common	B0UVZ0.1	HSM_1771	Cell division protein FtsP; Flags: Precursor	52.3	300814.66	262435.03	699454.38	94194.14	3749687.06	1499863.26
Common	B0UW71.1	HSM_0266	UPF0319 protein HSM_0266; Flags: Precursor	23.6	246759731.86	93724457.15	132902916.86	2074276.00	14653070.05	6355135.01
Common	B0UWR4.1	HSM_0368	Chaperone protein DnaK	68.4	987980.33	973829.93	1303722.97	1144125.69	3001198259.35	474176593.45
Common	B0UX31.1	HSM_1970	30S ribosomal protein S5	17.4	3815832.38	2451095.94	1794072.99	1974934.57	4046454.68	3506711.83
Common	B0UX40.1	HSM_1979	50S ribosomal protein L17	14.4	7974337.90	1276357.94	7811375.31	1014734.16	3012898.30	1694039.42
Common	CAY37763.1	HSM_1799	unnamed protein product	25.4	39701096.26	16718890.61	21644428.63	1127478.62	5313523.21	1385099.47
Common	CBN71009.1	HSM_0341	unnamed protein product	51.1	1624743323.64	325505103.18	584271797.60	66737508.57	1742153.56	599632.00
Common	CBN71110.1	HSM_0053	unnamed protein product	37.2	705916333.93	311346848.66	457775720.64	105546428.01	4230760.07	1230362.30
Common	DAA01283.1	HSM_1761	TPA_exp: putative glycerophosphoryl diester phosphodiesterase	41.4	73489192.39	25833363.40	41926976.11	684232.77	620261.38	65513.55

^a A protein was counted as present when it was found in both biological replicates of one growth condition and as absent when it was not found in any of the replicates. OMV_Fe: unique proteins in OMVs collected under Fe(NO₃)₃ treatment (an iron-sufficient condition); OMV_EDDHA: unique proteins in OMVs collected under EDDHA treatment (an iron-deficient condition); Biofilm: unique proteins in biofilm matrix of *H. somni*; OMV_Fe & OMV_EDDHA: proteins detected in OMVs under both iron-sufficient and deficient conditions. OMV_Fe & Biofilm: proteins detected in OMVs under iron-sufficient condition and in the biofilm matrix. OMV_EDDHA & Biofilm: proteins detected in OMVs under iron-deficient condition and in the biofilm matrix. Common: proteins detected under all three growth conditions tested in the study.

^b The abundance shown here is the average of the relative quant of the designated protein measured in two replicates samples for one growth condition. We used the data for comparing the abundance of two different proteins under the same growth condition or the same protein between iron sufficient and deficient

14 conditions. Considering the concentration of biofilm proteins loaded for gel electrophoresis and proteomic analysis was not exactly as same as that of OMV
15 proteins, we did not compare the abundance of the same protein between the biofilm group and the OMV groups.
16
17 ^c “No Quan Value” indicates that at least one data point of the abundance was missing for the corresponding protein. However, these proteins still had high FDR
18 confidence and were considered present in the sample.

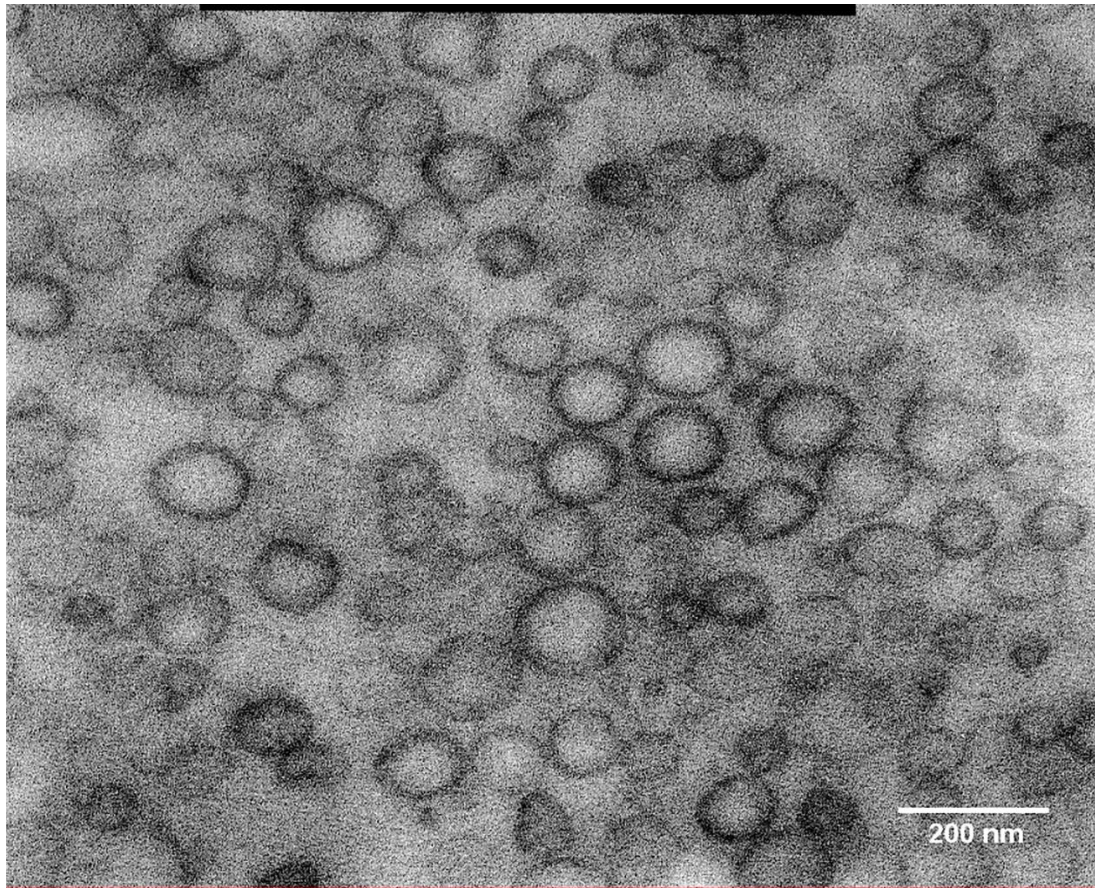
Supplemental Table S2. Sub-cellular localization of 92 common proteins in <i>H. somni</i> predicted through Psorthb.		
Protein ID	Localization	Score
ACA31239.1 cysteine protease domain, YopT-type [<i>Histophilus somni</i> 2336]	Extracellular	7.9
ACA31627.1 Sel1 domain protein repeat-containing protein [<i>Histophilus somni</i> 2336]	Extracellular	9.72
DAA01283.1 TPA_exp: putative glycerophosphoryl diester phosphate	Extracellular	8.99
ACA31051.1 SmpA/OmlA domain protein [<i>Histophilus somni</i> 2336]	Outer Membrane	9.93
ACA31096.1 Peptidoglycan-associated lipoprotein [<i>Histophilus somni</i> 2336]	Outer Membrane	9.93
ACA31171.1 17 kDa surface antigen [<i>Histophilus somni</i> 2336]	Outer Membrane	9.93
ACA31193.1 porin Gram-negative type [<i>Histophilus somni</i> 2336]	Outer Membrane	10
ACA31204.1 outer membrane chaperone Skp (OmpH) [<i>Histophilus somni</i> 2336]	Outer Membrane	9.93
ACA31205.1 surface antigen (D15) [<i>Histophilus somni</i> 2336]	Outer Membrane	10
ACA31267.1 OmpA domain protein transmembrane region-containing protein [<i>Histophilus somni</i> 2336]	Outer Membrane	10
ACA31604.1 VacJ family lipoprotein [<i>Histophilus somni</i> 2336]	Outer Membrane	9.93
ACA31830.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Outer Membrane	9.49
ACA32113.1 Rare lipoprotein B [<i>Histophilus somni</i> 2336]	Outer Membrane	9.92
ACA32145.1 peptidase M23B [<i>Histophilus somni</i> 2336]	Outer Membrane	8.86
ACA32292.1 Tetratricopeptide TPR_2 repeat protein [<i>Histophilus somni</i> 2336]	Outer Membrane	9.93
ACA32396.1 Organic solvent tolerance protein [<i>Histophilus somni</i> 2336]	Outer Membrane	10
ACA32419.1 TonB-dependent lactoferrin and transferrin receptor [<i>Histophilus somni</i> 2336]	Outer Membrane	10
CBN71009.1 unnamed protein product [<i>Histophilus somni</i> 2336]	Outer Membrane	10
CBN71110.1 unnamed protein product [<i>Histophilus somni</i> 2336]	Outer Membrane	10
ACA30764.1 periplasmic binding protein/LacI transcriptional regulator [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA30832.1 TRAP dicarboxylate transporter, DctP subunit [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA30928.1 transport-associated [<i>Histophilus somni</i> 2336]	Periplasm	9.44
ACA30955.1 TRAP dicarboxylate transporter, DctP subunit [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA30961.1 Monosaccharide-transporting ATPase [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA30978.1 extracellular solute-binding protein family 3 [<i>Histophilus somni</i> 2336]	Periplasm	10
ACA30979.1 extracellular solute-binding protein family 1 [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31004.1 molybdopterin guanine dinucleotide-containing S/N-oxide reductase [<i>Histophilus somni</i> 2336]	Periplasm	10
ACA31013.1 outer membrane lipoprotein carrier protein LolA [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31015.1 protease Do [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31238.1 thiamine ABC transporter, periplasmic binding protein [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31288.1 extracellular solute-binding protein family 1 [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31337.1 extracellular solute-binding protein family 1 [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31508.1 multicopper oxidase type 3 [<i>Histophilus somni</i> 2336]	Periplasm	10
ACA31585.1 DSBA oxidoreductase [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31622.1 trimethylamine-N-oxide reductase TorA [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA31787.1 periplasmic solute binding protein [<i>Histophilus somni</i> 2336]	Periplasm	10

ACA31977.1 molybdenum ABC transporter, periplasmic molybdate-binding protein [<i>Histophilus somni</i> 2336]	Periplasm	9.44
ACA32073.1 Monosaccharide-transporting ATPase [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA32358.1 extracellular solute-binding protein family 5 [<i>Histophilus somni</i> 2336]	Periplasm	10
ACA32460.1 extracellular solute-binding protein family 5 [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA32483.1 extracellular solute-binding protein family 3 [<i>Histophilus somni</i> 2336]	Periplasm	10
ACA32487.1 periplasmic solute binding protein [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA32496.1 periplasmic binding protein/LacI transcriptional regulator [<i>Histophilus somni</i> 2336]	Periplasm	10
ACA32601.1 Monosaccharide-transporting ATPase [<i>Histophilus somni</i> 2336]	Periplasm	9.76
ACA32669.1 extracellular solute-binding protein family 1 [<i>Histophilus somni</i> 2336]	Periplasm	9.44
sp B0UVZ0.1 FTSP_HISS2 RecName: Full=Cell division protein FtsP; Flags: Precursor	Periplasm	9.76
sp B0UW71.1 Y266_HISS2 RecName: Full=UPF0319 protein HSM_0266; Flags: Precursor	Periplasm	9.84
ACA30732.1 PpiC-type peptidyl-prolyl cis-trans isomerase [<i>Histophilus somni</i> 2336]	Cytoplasmic Membrane	7.88
ACA31314.1 carboxyl-terminal protease [<i>Histophilus somni</i> 2336]	Cytoplasmic Membrane	9.99
ACA32221.1 lipoprotein, YaeC family [<i>Histophilus somni</i> 2336]	Cytoplasmic Membrane	9.97
ACA30723.1 2-oxo-acid dehydrogenase E1 subunit, homodimeric type [<i>Histophilus somni</i> 2336]	Cytoplasm	9.97
ACA30724.1 pyruvate dehydrogenase complex dihydrolipoamide acetyltransferase [<i>Histophilus somni</i> 2336]	Cytoplasm	9.97
ACA30725.1 dihydrolipoamide dehydrogenase [<i>Histophilus somni</i> 2336]	Cytoplasm	9.97
ACA31418.1 ribosomal protein S16 [<i>Histophilus somni</i> 2336]	Cytoplasm	9.26
ACA31593.1 translation elongation factor G [<i>Histophilus somni</i> 2336]	Cytoplasm	10
ACA31758.1 ribosomal protein L14 [<i>Histophilus somni</i> 2336]	Cytoplasm	9.97
ACA31915.1 Beta-glucuronidase [<i>Histophilus somni</i> 2336]	Cytoplasm	8.96
ACA32007.1 ribosomal protein L1 [<i>Histophilus somni</i> 2336]	Cytoplasm	9.26
ACA32259.1 ribosomal protein S18 [<i>Histophilus somni</i> 2336]	Cytoplasm	9.26
ACA32447.1 ribosomal protein S15 [<i>Histophilus somni</i> 2336]	Cytoplasm	9.26
ACA32587.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Cytoplasm	8.96
sp B0USK6.1 CH60_HISS2 RecName: Full=Chaperonin GroEL; AltName: Full=60 kDa chaperonin; AltName: Full=Chaperonin-60; Short=Cpn60	Cytoplasm	9.97
sp B0USS4.1 RS21_HISS2 RecName: Full=30S ribosomal protein S21	Cytoplasm	9.26
sp B0UUZ6.1 RL10_HISS2 RecName: Full=50S ribosomal protein L10	Cytoplasm	9.26
sp B0UV21.1 EFTU_HISS2 RecName: Full=Elongation factor Tu; Short=EF-Tu	Cytoplasm	9.97
sp B0UWR4.1 DNAK_HISS2 RecName: Full=Chaperone protein DnaK; AltName: Full=HSP70; AltName: Full=Heat shock 70 kDa protein; AltName: Full=Heat shock protein 70	Cytoplasm	9.97
sp B0UX31.1 RS5_HISS2 RecName: Full=30S ribosomal protein S5	Cytoplasm	9.26
sp B0UX40.1 RL17_HISS2 RecName: Full=50S ribosomal protein L17	Cytoplasm	9.26
ACA30959.1 ABC-type sugar-binding periplasmic protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31071.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31348.1 toluene tolerance family protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31465.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2.5

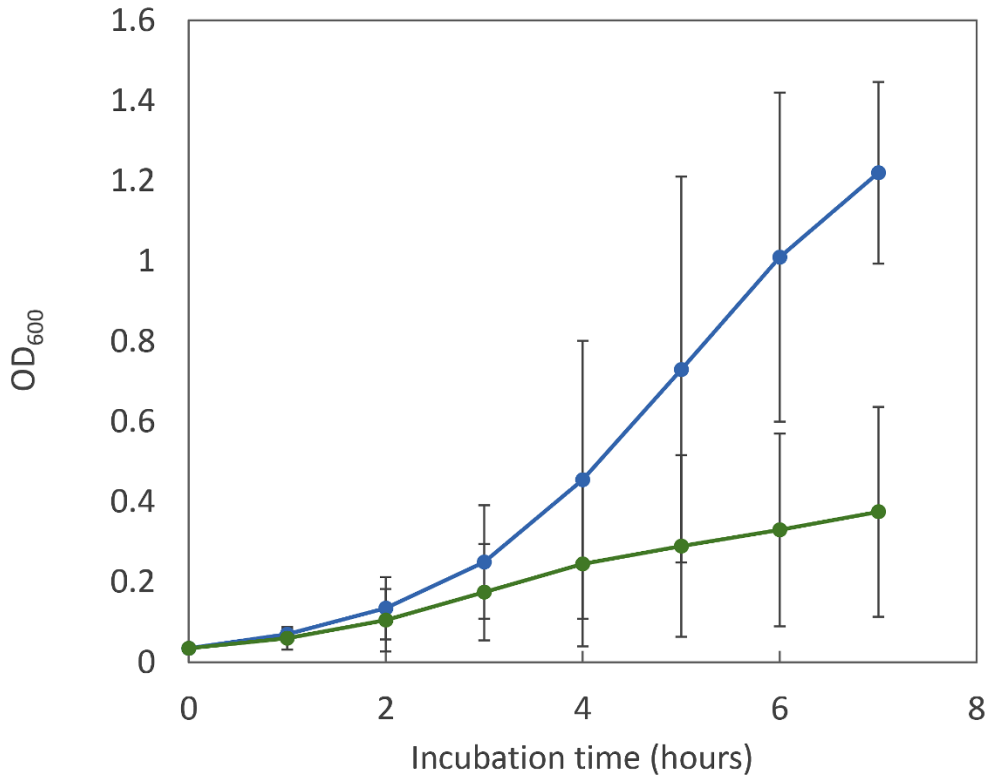
ACA31502.1 protein of unknown function DUF411 [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31613.1 protein of unknown function DUF302 [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31633.1 NADH:ubiquinone oxidoreductase, subunit C [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31714.1 sugar ABC transporter, sugar-binding protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31740.1 ABC transporter, solute-binding, sugar transport [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31804.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2
ACA31914.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31970.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2
ACA31971.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2
ACA31973.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA31980.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA32200.1 conserved hypothetical protein [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA32521.1 hypothetical protein HSM_0848 [<i>Histophilus somni</i> 2336]	Unknown	2.5
ACA32634.1 SmpA/OmlA domain protein [<i>Histophilus somni</i> 2336]	Unknown	2
ACA32668.1 extracellular solute-binding protein family 1 [<i>Histophilus somni</i> 2336]	Unknown	2.5
sp B0UTT2.1 LPOA_HISS2 RecName: Full=Penicillin-binding protein activator LpoA; Short=PBP activator LpoA; Flags: Precursor	Unknown	2
ACA31503.1 multicopper oxidase type 3 [<i>Histophilus somni</i> 2336]	Unknown*	5.41
ACA32109.1 PpiC-type peptidyl-prolyl cis-trans isomerase [<i>Histophilus somni</i> 2336]	Unknown*	5.81
ACA32359.1 extracellular solute-binding protein family 5 [<i>Histophilus somni</i> 2336]	Unknown*	5.81
CAY37763.1 unnamed protein product [<i>Histophilus somni</i> 2336]	Unknown*	4.99

Supplemental Table S3: Unique and common proteins categorized by their KEGG pathways.

Group ^a	Protein ID	Gene locus tag	KEGG category ^b	KEGG pathway ^c
OMV_Fe	ACA31054.1	HSM_0132		
OMV_Fe	B0UVM9.1	HSM_0168	G	Ribosome
OMV_Fe	ACA32015.1	HSM_0377		
OMV_Fe	ACA32034.1	HSM_0394		
OMV_Fe	ACA32047.1	HSM_0405		
OMV_Fe	ACA32075.1	HSM_0430	E	ABC transporters
OMV_Fe	ACA30734.1	HSM_1022		
OMV_Fe	ACA31654.1	HSM_1864		
OMV_Fe	ACA31752.1	HSM_1958	G	Ribosome
OMV_Fe	B0UX32.1	HSM_1971	G	Ribosome
OMV_EDDHA	ACA32586.1	HSM_0906		
OMV_EDDHA	ACA32592.1	HSM_0911		
OMV_EDDHA	ACA32614.1	HSM_0931		
OMV_EDDHA	ACA32615.1	HSM_0932		
OMV_EDDHA	ACA30786.1	HSM_1071	H, M	Metabolic pathways; beta-Lactam resistance; Peptidoglycan biosynthesis
OMV_EDDHA	ACA31186.1	HSM_1440		
OMV_EDDHA	ACA31510.1	HSM_1732		
Biofilm	ACA31798.1	HSM_0002	G	DNA replication; Mismatch repair; Homologous recombination
Biofilm	B0UW5.1	HSM_0007	M	Pyrimidine metabolism; Metabolic pathways
Biofilm	ACA31031.1	HSM_0013	M	Valine, leucine and isoleucine biosynthesis; Butanoate metabolism; C5-Branched dibasic acid metabolism; Pantothenate and CoA biosynthesis; Metabolic pathways; Biosynthesis of secondary metabolites; 2-Oxocarboxylic acid metabolism; Biosynthesis of amino acids
Biofilm	ACA31140.1	HSM_0014	M	Valine, leucine and isoleucine biosynthesis; Butanoate metabolism; C5-Branched dibasic acid metabolism; Pantothenate and CoA biosynthesis; Metabolic pathways; Biosynthesis of secondary metabolites; 2-Oxocarboxylic acid metabolism; Biosynthesis of amino acids
Biofilm	ACA31843.1	HSM_0022	C; E; G	Quorum sensing; Protein export; Bacterial secretion system
Biofilm	ACA31932.1	HSM_0030	G	Ribosome
Biofilm	CAV20865.1	HSM_0032	G	Fatty acid biosynthesis; Metabolic pathways; Fatty acid metabolism
Biofilm	ACA31963.1	HSM_0033	M	Fatty acid biosynthesis; Metabolic pathways; Biosynthesis of secondary metabolites; Fatty acid metabolism
Biofilm	CBG07608.1	HSM_0034		
Biofilm	B0UW3.1	HSM_0035	M	Metabolic pathways; Biosynthesis of secondary metabolites
Biofilm	ACA31996.1	HSM_0036	G	Ribosome
Biofilm	ACA32029.1	HSM_0039	G	Ribosome
Biofilm	ACA32041.1	HSM_0040	G	RNA degradation
Biofilm	ACA32063.1	HSM_0042	M	Pentose phosphate pathway; Pentose and glucuronate interconversions; Metabolic pathways; Biosynthesis of secondary metabolites; Microbial



Supplemental Fig. S1. Outer membrane vesicles (OMV) of *H. somni*. OMV from cell-free culture supernatant were pelleted by centrifugation, resuspended in 0.3 ml of 2.5% glutaraldehyde, and processed for TEM at the Cold Spring Harbor Shared Microscopy Resource. Magnification 50,000 x.



Supplemental Fig. S2. Growth curve of *H. somni* in BYTT with or without EDDHA. *H.*

somni from a fresh overnight plate of growth was resuspended in PBS to an OD₆₀₀ of 0.8 (about 10⁹ CFU/ml). Bacteria were diluted 1 to 20 with 8 ml of BHI broth supplemented with 0.5% yeast extract, 0.1% Trizma base, and 0.01% TMP (BYTT), resulting in an OD₆₀₀ of 0.02-0.04. The cultures were transferred to 2 tubes containing 4 ml of BYTT each. One of the paired tubes was supplemented with a 1:50 dilution of filter-sterilized 10 mM EDDHA (—), and the other with ferric nitrate (—). Bacteria were incubated at 37°C with shaking at 200 rpm. The OD₆₀₀ of the cultures was measured hourly.