Table S1. RNA-sequencing data for all transcripts in *Ralstonia solanacearum* strain OE1-1, *phcB*-deleted mutant (Δ*phcB*), *phcA*-deleted mutant (Δ*phcA*), and ralfuranones-deficient mutant (Δ*ralA*) grown in 1/4 × M63 medium

Gene ID	Gene name	Description	OE1-1					Δ*phcB*					Δ*phcA*					Δ*ralA*					log₂(fold cgange)			fold change		
			count	FPKM	conf_lo	conf_hi	status	count	FPKM	conf_lo	conf_hi	status	count	FPKM	conf_lo	conf_hi	status	count	FPKM	conf_lo	conf_hi	status	Δ*phcB*	Δ*phcA*	Δ*ralA*	Δ*phcB*	Δ*phcA*	Δ*ralA*
RSc0001	***rpmH***	50S ribosomal protein L34	241.356	1733.28	69.6485	247.109	OK	428.718	3306.32	120.692	437.927	OK	343.452	1291.4	110.592	320.482	OK	285.575	1846.65	92.2385	247.538	OK	0.931722	-0.42457	0.091406	1.907551	-1.34217	1.065408
RSc0002	***rnpA***	ribonuclease P protein component	409.696	112.532	36.7541	182.469	OK	650.438	181.509	58.0585	289.479	OK	624.66	150.664	65.2964	233.591	OK	569.336	149.174	59.3603	213.055	OK	0.689706	0.420999	0.406661	1.612955	1.338855	1.325614
RSc0003		hypothetical protein	119.664	49.7337	0.415612	109.722	OK	126.96	53.9475	0	132.575	OK	141.16	49.1478	2.4372	97.4879	OK	136.894	53.7158	3.13911	104.768	OK	0.117332	-0.0171	0.111123	1.084727	-1.01192	1.080068
RSc0004		putative inner membrane protein translocase component YidC	4132.46	177.422	79.1256	275.661	OK	7197.13	309.785	130.313	488.316	OK	7389.22	306.949	169.57	443.766	OK	5550.12	233.761	129.777	337.459	OK	0.804082	0.790814	0.397849	1.746035	1.73005	1.317542
RSc0005	***trmE***	tRNA modification GTPase TrmE	1483.63	74.4133	33.0022	115.619	OK	1682.67	84.647	37.5895	131.162	OK	1409.38	68.1739	38.4001	97.5821	OK	1647.27	80.9751	45.2542	116.694	OK	0.185898	-0.12634	0.121918	1.137525	-1.09152	1.08818
RSc0006		hypothetical protein	85.1844	33.5169	10.336	35.5796	OK	133.4	53.6156	15.9015	55.0589	OK	158.944	52.7437	21.1772	58.6295	OK	177.691	66.0903	23.9224	65.8846	OK	0.677764	0.65411	0.97955	1.599659	1.573645	1.97185
RSc0007		hypothetical protein	74.0293	12.815	5.30645	19.1756	OK	124.2	21.7213	9.04508	30.8739	OK	87.8081	13.8977	6.90044	20.2254	OK	90.6586	15.1405	7.13838	20.9393	OK	0.761277	0.117013	0.240579	1.69499	1.084487	1.181467
RSc0008	***rpsU***	30S ribosomal protein S21	1964.31	2063.88	321.4	1343.65	OK	2497.79	2725.8	413.92	1694.99	OK	2293.01	1773.6	448.3	1421.86	OK	1439.66	1412.38	280.076	894.215	OK	0.401321	-0.21868	-0.54723	1.320716	-1.16367	-1.46128
RSc0009		drug efflux lipoprotein	8021.53	373.53	156.48	590.405	OK	8973.65	419.017	172.153	665.06	OK	12522.1	563.259	301.045	826.157	OK	8093.09	369.528	201.533	535.763	OK	0.165785	0.592574	-0.01554	1.121776	1.507935	-1.01083
RSc0010	***acrB***	putative acriflavin resistance transmembrane protein	21834.6	470.605	162.515	778.311	OK	23275	502.288	171.634	833.165	OK	28864.4	607.742	283.21	932.2	OK	19527	414.021	210.38	617.83	OK	0.093998	0.368942	-0.18481	1.067324	1.291406	-1.13667
RSc0011	***acrA***	acriflavin resistance lipoprotein A precursor	9468.65	589.166	242.324	935.455	OK	8703.17	543.53	225.323	861.962	OK	6718.99	401.04	219.574	582.134	OK	5323.47	324.136	176.636	470.622	OK	-0.11631	-0.55493	-0.86207	-1.08396	-1.4691	-1.81765
RSc0012	***acrR***	putative AcrAB operon repressor transcription regulator protein	3897.19	503.975	152.708	854.094	OK	2661.55	346.83	120.898	572.681	OK	1414.93	170.444	79.8958	260.095	OK	1746.99	219.166	100.977	336.814	OK	-0.53912	-1.56405	-1.20133	-1.45309	-2.95684	-2.29951
RSc0013		hypothetical protein	2623.48	230.81	5.10277	456.874	OK	1387.35	122.694	3.89125	250.19	OK	769.154	64.1784	16.7715	111.559	OK	879.388	75.4563	16.8179	134.114	OK	-0.91164	-1.84655	-1.61299	-1.88118	-3.59638	-3.05886
RSc0014	***gor***	glutathione reductase oxidoreductase protein	285.976	14.3435	7.30412	21.3779	OK	207.919	10.4594	5.34448	15.5435	OK	96.7	4.67755	2.72404	6.59041	OK	124.202	6.10545	3.60276	8.56754	OK	-0.4556	-1.61657	-1.23223	-1.37135	-3.06646	-2.34929
RSc0015		hypothetical protein	2625.51	231.939	101.264	360.241	OK	4143.66	367.971	158.726	575.272	OK	2924.34	244.973	132.126	355.592	OK	2828.55	243.692	129.559	357.731	OK	0.665847	0.078877	0.071313	1.586499	1.056196	1.050673
RSc0016	***serA1***	putative D-3-phosphoglycerate dehydrogenase oxidoreductase	6966.87	498.522	210.789	786.274	OK	7578.93	544.617	228.557	860.438	OK	7630.41	521.595	281.465	760.465	OK	9492.86	663.9	349.962	976.245	OK	0.127585	0.065273	0.413309	1.092463	1.046283	1.331737
RSc0017	***pckA***	phosphoenolpyruvate carboxykinase	20720.1	781.716	285.652	1277.34	OK	11381.3	430.344	170.22	690.459	OK	21070.6	770.932	385.269	1156.32	OK	9553.6	353.824	192.6	514.371	OK	-0.86115	-0.02004	-1.14361	-1.81649	-1.01399	-2.20934
RSc0018		response regulator transcription regulator protein	8519.45	809.228	322.925	1288.4	OK	3964.27	378.67	161.846	593.026	OK	552.413	49.612	27.7573	70.9436	OK	1805.01	167.064	88.3392	245.656	OK	-1.09561	-4.02779	-2.27615	-2.13703	-16.3111	-4.84382
RSc0019		hypothetical protein	4396.12	924.866	328.06	1359.3	OK	2281.59	485.991	171.048	706.897	OK	660.228	125.059	59.4591	181.771	OK	812.301	164.133	73.0342	222.496	OK	-0.92831	-2.88664	-2.49438	-1.90305	-7.39544	-5.63486
RSc0020		hypothetical protein	1655.01	169.989	71.5839	266.419	OK	1426.91	147.454	61.7074	232.872	OK	905.868	87.6767	47.5883	127.144	OK	1105.13	110.496	57.8146	162.171	OK	-0.20518	-0.95518	-0.62145	-1.15283	-1.93882	-1.53842
RSc0021		transmembrane sensor histidine kinase transcription regulator	734.208	36.3161	16.9361	55.5151	OK	776.477	38.5191	17.8158	59.2102	OK	689.127	32.8836	19.0942	46.6072	OK	886.641	42.9862	24.4753	61.4052	OK	0.084965	-0.14324	0.243264	1.060662	-1.10438	1.183668
RSc0022	***cstA***	carbon starvation A transmembrane protein	11968.4	405.885	159.612	652.728	OK	16980.4	577.009	214.514	939.736	OK	10867.1	358.018	194.787	520.83	OK	9927.12	330.649	179.374	481.804	OK	0.507523	-0.18104	-0.29577	1.421607	-1.1337	-1.22754
RSc0023		hypothetical protein	561.811	774.504	107.005	408.533	OK	868.477	1249.16	159.847	645.331	OK	822.506	800.363	177.563	547.349	OK	766.972	986.862	164.856	503.692	OK	0.689614	0.047382	0.349576	1.612852	1.033388	1.274186
RSc0024		putative signal peptide protein	970.494	104.69	44.8855	164.184	OK	793.037	86.0951	37.4188	134.487	OK	1097.05	111.265	59.3464	163.056	OK	1095.16	114.924	59.6812	169.752	OK	-0.28212	0.087876	0.134556	-1.21598	1.062804	1.097755
RSc0025		hypothetical protein	14821.1	2651.09	889.893	4333.87	OK	574.078	103.78	40.7133	156.068	OK	818.06	133.467	65.844	201.062	OK	397.991	68.6319	32.8612	96.0276	OK	-4.67499	-4.31203	-5.27156	-25.5453	-19.8633	-38.6277
RSc0026	***metW***	Methionine biosynthesis MetW	903.563	119.732	16.1996	222.72	OK	398.359	53.2024	7.75197	98.291	OK	379.02	46.7202	16.9614	76.4732	OK	328.184	42.1712	14.5103	69.5122	OK	-1.17025	-1.35769	-1.50548	-2.2505	-2.56275	-2.83919
RSc0027	***metX***	homoserine O-acetyltransferase	2340.54	143.555	43.0564	245.029	OK	939.317	57.8211	16.0047	100.091	OK	674.677	39.7102	18.7169	60.8593	OK	630.984	37.8749	18.0076	57.7443	OK	-1.31194	-1.85402	-1.92229	-2.48274	-3.61507	-3.79024
RSc0028	***gabD1***	succinate-semialdehyde dehydrogenase oxidoreductase protein	3195.43	154.495	70.0479	238.68	OK	2395.67	116.159	52.3312	179.366	OK	2226.32	103.894	58.8539	148.963	OK	2283.69	108.24	60.8526	154.789	OK	-0.41146	-0.57245	-0.51333	-1.33003	-1.48704	-1.42734
RSc0029	***goaG***	4-aminobutyrate aminotransferase protein	1404.53	80.8334	35.5437	126.037	OK	624.678	36.0738	17.0429	54.9997	OK	361.236	19.9842	11.9029	27.9222	OK	502.249	28.3025	16.3665	40.073	OK	-1.164	-2.01609	-1.51402	-2.24078	-4.04487	-2.85605
RSc0030		putative transcription regulator protein	883.281	41.5818	19.194	63.9801	OK	885.037	41.7804	19.1519	64.3168	OK	949.217	43.1552	24.6652	61.3308	OK	1103.32	50.926	28.7761	73.0406	OK	0.006874	0.053582	0.29245	1.004776	1.037839	1.224719
RSc0031	***slmA***	nucleoid occlusion protein	2397.33	311.897	127.626	494.133	OK	2989.99	392.009	160.659	622.641	OK	2654.25	321.563	167.58	473.731	OK	1961.85	247.588	123.582	367.362	OK	0.329817	0.044032	-0.33313	1.256854	1.030991	-1.25974
RSc0032		hypothetical protein	616.573	56.5635	0	139.088	OK	582.358	53.7152	0	133.572	OK	492.392	42.7705	0.882383	84.7088	OK	596.534	53.3473	2.79421	103.901	OK	-0.07454	-0.40326	-0.08446	-1.05303	-1.32249	-1.06029
RSc0033	***argB***	acetylglutamate kinase	5080.64	424.379	143.836	706.401	OK	4963.38	416.636	142.449	691.849	OK	3640.15	288.935	148.668	429.257	OK	4300.84	350.57	179	522.247	OK	-0.02657	-0.55461	-0.27565	-1.01858	-1.46877	-1.21054
RSc0034		RNA polymerase sigma factor	1766.56	263.347	102.673	420.558	OK	1367.11	205.607	79.5797	328.835	OK	1258.21	173.246	87.8105	258.725	OK	1882.07	271.496	131.448	389.104	OK	-0.35708	-0.60414	0.043966	-1.28083	-1.52008	1.030944
RSc0035		hypothetical protein	242.37	318.062	40.3319	226.704	OK	183.999	251.723	30.2489	174.338	OK	220.076	205.442	45.2422	170.701	OK	278.322	340.912	56.4725	215.943	OK	-0.33747	-0.63058	0.100091	-1.26354	-1.54818	1.071841
RSc0036		putative signal peptide protein	146.03	107.642	14.7423	200.496	OK	131.56	100.115	21.3077	179.593	OK	111.149	63.5492	20.0111	107.488	OK	135.988	93.7806	28.2746	159.303	OK	-0.10458	-0.7603	-0.19888	-1.07518	-1.69384	-1.14781
RSc0037		hypothetical protein	155.157	156.588	28.0264	96.3033	OK	192.279	201.413	34.8839	122.243	OK	94.4771	70.62	18.53	53.8254	OK	155.933	146.956	31.1775	86.4736	OK	0.363183	-1.14882	-0.09159	1.286261	-2.21733	-1.06554
RSc0038		putative transmembrane protein	1857.83	349.787	128.419	537.569	OK	2222.71	423.169	154.741	639.538	OK	1995.13	341.284	163.745	487.202	OK	1715.26	310.983	141.181	449.385	OK	0.274757	-0.0355	-0.16964	1.209791	-1.02491	-1.12478
RSc0039		transmembrane sensor histidine kinase transcription regulator	1518.11	82.5039	36.4317	128.18	OK	1996.39	108.846	48.6235	169.059	OK	1977.35	103.445	58.2019	148.712	OK	1749.71	93.1461	52.1176	134.044	OK	0.399754	0.32633	0.175033	1.319283	1.25382	1.12899
RSc0040		response regulator transcription regulator protein	3876.9	598.727	235.247	961.788	OK	3740.71	583.001	226.683	932.535	OK	5257.37	748.223	370.546	1104.4	OK	4589.14	685.343	324.461	979.528	OK	-0.0384	0.32157	0.194928	-1.02697	1.24969	1.144667
RSc0041	***ripI***	Type III effector protein	1722.96	98.1074	43.4819	152.56	OK	1571.35	89.7764	39.5471	139.76	OK	1652.79	90.4897	50.7565	130.159	OK	1737.02	96.8528	53.9994	139.249	OK	-0.12803	-0.11661	-0.01857	-1.0928	-1.08418	-1.01295
RSc0042	***hslU***	ATP-dependent protease ATP-binding subunit	10718	589.955	240.972	938.698	OK	14804.6	817.546	318.475	1312	OK	30925.1	1638.08	768.58	2504.25	OK	9894.48	533.439	286.417	779.693	OK	0.470695	1.473329	-0.14528	1.385777	2.776619	-1.10595
RSc0043	***hslV***	ATP-dependent protease peptidase subunit	2847.59	488.998	187.686	764.417	OK	3805.11	660.102	249.089	1022.14	OK	6217.7	976.799	470.394	1442.42	OK	2170.37	359.628	168.116	533.689	OK	0.43286	0.998233	-0.44332	1.349907	1.997552	-1.35973
RSc0044		substrate-binding periplasmic (PBP) ABC transporter protein	1662.11	74.8016	33.191	116.31	OK	2035.95	91.8698	41.0743	142.588	OK	2216.32	96.4161	54.9171	137.911	OK	2760.55	121.843	69.0752	174.483	OK	0.296522	0.366205	0.703882	1.22818	1.288958	1.628882
RSc0045		hypothetical protein	1677.32	97.0535	42.9845	150.825	OK	3005.63	174.508	78.645	270.08	OK	3330.04	185.191	103.644	266.883	OK	2978.13	168.72	93.3292	243.911	OK	0.846441	0.932162	0.797779	1.79806	1.908133	1.738423
RSc0046	***dksA***	putative DNAK suppressor protein	4364.69	1088.25	363.406	1503.46	OK	6036.1	1527	489.447	2292.22	OK	5823.12	1287.22	563.011	1869.49	OK	5385.12	1284.04	524.589	1718.98	OK	0.48869	0.242249	0.23868	1.40317	1.182835	1.179913
RSc0047		hypothetical protein	9332.76	648.366	247.373	1049.28	OK	13564.4	946.224	336.553	1554.32	OK	15201.9	1009.83	512.22	1502.88	OK	22308.4	1515.14	723.583	2307.03	OK	0.545373	0.639232	1.224571	1.459398	1.5575	2.336859
RSc0048		putative transcription regulator protein	1179.4	212.734	0	652.596	OK	1746.15	318.341	0	1012	OK	1438.27	236.478	0.328836	669.016	OK	1619.16	281.51	0	889.997	OK	0.581522	0.152655	0.404136	1.496427	1.111614	1.323296
RSc0049		putative hemagglutinin-related protein	4389.03	258.133	115.532	400.854	OK	2160.15	127.488	56.8696	198.019	OK	2469.74	139.547	78.4921	200.501	OK	2670.8	153.777	85.6691	221.678	OK	-1.01775	-0.88736	-0.74727	-2.02476	-1.84979	-1.67862
RSc0050		hypothetical protein	4329.19	204.251	90.7603	317.281	OK	602.598	28.5099	13.7068	43.2714	OK	419.034	19.0919	11.3999	26.7523	OK	466.892	21.5975	12.6897	30.4552	OK	-2.84081	-3.41931	-3.24141	-7.16421	-10.6983	-9.45716
RSc0051		hypothetical protein	886.323	55.3099	24.9729	85.2207	OK	1464.63	91.7361	40.1832	143.257	OK	813.614	48.6999	27.6687	69.491	OK	943.756	57.6292	32.0851	82.9529	OK	0.729952	-0.18362	0.059262	1.658584	-1.13573	1.041933
RSc0052	***xerC***	site-specific tyrosine recombinase XerC	636.855	49.5336	22.9632	75.3947	OK	763.597	59.665	26.9964	92.3731	OK	681.346	50.4862	28.5571	71.5533	OK	602.88	45.793	25.6693	65.3926	OK	0.268477	0.027482	-0.11328	1.204536	1.019231	-1.08168
RSc0053		hypothetical protein	1297.03	151.321	22.7298	279.612	OK	1733.27	203.617	29.675	377.116	OK	1955.12	213.641	69.0483	358.233	OK	1263.78	143.269	42.0875	243.36	OK	0.428246	0.497576	-0.07889	1.345596	1.41184	-1.0562
RSc0054	***gatB***	aspartyl/glutamyl-tRNA amidotransferase subunit B	2984.5	147.283	39.7755	254.987	OK	4036.95	199.801	53.4526	346.502	OK	3787.97	180.347	80.1285	281.521	OK	3053.38	147.696	68.1068	227.684	OK	0.439973	0.292185	0.00404	1.356579	1.224493	1.002804
RSc0055		putative signal peptide protein	899.507	70.9911	17.1868	124.785	OK	796.717	63.1726	15.9356	110.364	OK	447.932	33.6619	9.48427	57.7501	OK	440.601	33.9539	11.2382	56.6458	OK	-0.16834	-1.07652	-1.06406	-1.12376	-2.10895	-2.09081
RSc0056		lipoprotein	1144.92	217.467	40.2675	394.887	OK	865.717	166.291	23.4344	309.257	OK	1107.05	190.912	91.9165	290.063	OK	928.344	169.766	81.194	258.211	OK	-0.38709	-0.18789	-0.35725	-1.30775	-1.1391	-1.28098
RSc0057	***gatA***	aspartyl/glutamyl-tRNA amidotransferase subunit A	2542.35	123.476	55.9613	190.823	OK	3561.31	173.461	78.4238	268.034	OK	3082.18	144.47	81.5493	206.819	OK	2851.21	135.746	76.1269	195.334	OK	0.490381	0.226539	0.136679	1.404816	1.170025	1.099372
RSc0058	***gatC***	aspartyl/glutamyl-tRNA amidotransferase subunit C	338.709	155.24	43.3633	159.285	OK	435.158	204.24	54.9555	200.716	OK	472.385	179.152	67.1317	199.701	OK	306.426	132.319	44.2603	120.075	OK	0.395765	0.206684	-0.23048	1.31564	1.154032	-1.17323
RSc0059	***mreB***	rod shape-determining protein	4985.32	364.01	158.967	568.937	OK	7776.73	570.285	238.111	900.75	OK	4742.75	330.605	181.223	477.582	OK	4371.56	311.913	168.261	455.249	OK	0.647705	-0.13887	-0.22283	1.566674	-1.10104	-1.16702
RSc0060	***mreC***	rod shape-determining MREC transmembrane protein	801.139	58.696	26.6636	90.7553	OK	1952.23	143.652	63.1637	224.135	OK	1090.38	76.2584	42.2934	109.67	OK	1143.2	81.8441	44.4904	119.19	OK	1.291244	0.377634	0.479616	2.44739	1.299209	1.394373
RSc0061	***mreD***	rod shape-determining MRED transmembrane protein	344.794	63.2542	25.8608	98.4218	OK	813.277	150.827	56.9942	228.981	OK	602.43	100.613	49.785	149.479	OK	615.572	108.811	50.6519	153.194	OK	1.253662	0.669584	0.782591	2.384458	1.590614	1.720218
RSc0062		substrate-binding transmembrane protein	1050.61	30.1515	13.196	46.9222	OK	1977.07	56.8364	24.9467	88.6785	OK	1523.86	42.5851	24.3459	60.8382	OK	1856.69	52.3697	29.9174	74.7539	OK	0.914585	0.498119	0.796503	1.885027	1.412371	1.736885
RSc0063	***mdrB***	rod shape-determining (RODA protein) transmembrane	2004.88	131.616	58.3159	204.922	OK	1439.79	94.8868	41.3564	148.297	OK	1581.66	99.4506	55.3609	143.46	OK	1631.85	104.783	57.5286	151.742	OK	-0.47206	-0.40428	-0.32893	-1.38708	-1.32343	-1.25608
RSc0064		putative long-chain-fatty-acid--CoA ligase protein	17630.1	690.629	258.174	1121.06	OK	2382.79	93.5577	42.0425	145.098	OK	4766.09	180.947	101.876	259.685	OK	4190.24	161.105	90.6187	231.577	OK	-2.88398	-1.93234	-2.09991	-7.38185	-3.81675	-4.28683
RSc0065		transcription regulator protein	4048.29	335.536	146.84	523.85	OK	2945.83	245.36	108.021	382.359	OK	4537.12	357.452	193.436	520.837	OK	4398.75	355.812	188.971	518.943	OK	-0.45157	0.091282	0.084648	-1.36753	1.065316	1.060429
RSc0066	***topB***	DNA topoisomerase III	15107	393.571	144.914	641.32	OK	13520.3	352.774	132.298	573.032	OK	9588.87	243.542	132.755	354.32	OK	10626.1	272.169	146.817	397.905	OK	-0.15788	-0.69245	-0.53212	-1.11565	-1.61603	-1.44605
RSc0067		putative thioredoxin-like protein	437.077	123.176	42.4386	155.058	OK	404.799	115.942	39.4662	152.746	OK	487.946	120.433	53.5946	158.829	OK	373.513	100.344	41.377	121.036	OK	-0.08732	-0.03249	-0.29577	-1.06239	-1.02278	-1.22754
RSc0068	***smf***	SMF protein	2030.23	125.238	55.8035	194.591	OK	2658.79	164.61	73.7995	255.361	OK	2047.37	121.178	67.9567	174.369	OK	2436	147.055	81.2846	211.561	OK	0.39438	-0.04754	0.231683	1.314377	-1.0335	1.174204
RSc0069		signal peptide protein	18782.1	1196.42	452.344	1939.72	OK	22577.6	1443.62	531.185	2346.27	OK	14111.5	861.713	453.17	1267.38	OK	14028.5	874.28	454.795	1293.76	OK	0.270967	-0.47344	-0.45256	1.206616	-1.38842	-1.36846
RSc0070	***def***	peptide deformylase	1663.12	307.736	113.523	477.325	OK	1532.71	286.726	104.052	440.579	OK	1447.17	243.614	116.973	348.801	OK	1281.91	228.503	104.267	330.489	OK	-0.10202	-0.3371	-0.42948	-1.07328	-1.26321	-1.34675
RSc0071		hypothetical protein	1839.58	65.0578	28.7093	101.327	OK	2328.51	82.5213	36.9258	128.152	OK	1691.7	58.0825	33.1595	82.9467	OK	1629.13	56.5763	32.1663	81.0244	OK	0.343045	-0.16362	-0.20152	1.268431	-1.12009	-1.14991
RSc0072	***fmt***	methionyl-tRNA formyltransferase	842.717	66.0236	29.7789	102.099	OK	1387.35	109.198	47.3845	170.82	OK	839.179	62.6194	35.0586	89.0992	OK	911.119	69.7059	38.2223	101.173	OK	0.725893	-0.07637	0.078299	1.653924	-1.05436	1.055772
RSc0073		transporter transmembrane protein	1009.03	133.707	54.8601	211.887	OK	1603.55	214.161	85.4704	341.087	OK	1386.03	170.851	88.1403	253.538	OK	1386.17	178.121	88.1403	261.676	OK	0.679621	0.353664	0.413783	1.601719	1.277801	1.332174
RSc0074	***htpX***	heat shock protein HtpX	5991.3	551.992	230.153	869.675	OK	6096.82	564.781	234.043	893.536	OK	10814.8	943.275	491.208	1390.46	OK	4524.77	406.361	213.395	598.791	OK	0.033044	0.773031	-0.44189	1.023169	1.708856	-1.35838
RSc0075	***rrmB***	putative RNA methyltransferase (SUN protein)	1563.74	86.5172	38.1258	134.096	OK	2097.59	116.433	52.0647	180.284	OK	1896.21	100.946	56.776	144.743	OK	1428.78	77.4236	43.0731	111.683	OK	0.428441	0.222525	-0.16021	1.345779	1.166774	-1.11745
RSc0076		proline rich signal peptide protein	1028.3	108.74	7.51762	209.742	OK	1225.44	130.4	11.1929	249.585	OK	1023.69	101.874	25.2973	178.399	OK	848.564	87.3167	19.3644	155.08	OK	0.262061	-0.0941	-0.31655	1.199191	-1.0674	-1.24535
RSc0077		two component sensor histidine kinase transcription regulator	3416.5	96.7571	30.0197	163.466	OK	3815.23	108.23	32.623	183.966	OK	2993.26	82.5588	38.8625	126.214	OK	3023.46	84.1589	40.7508	127.597	OK	0.161661	-0.22895	-0.20125	1.118574	-1.17198	-1.1497
RSc0078		two component response regulator transcription regulator protein	4387	506.315	209.303	799.288	OK	4738.9	550.677	226.03	874.959	OK	4238.13	458.382	239.744	671.052	OK	4617.24	517.89	262.597	771.644	OK	0.121171	-0.14348	0.03261	1.087617	-1.10457	1.022861
RSc0079		hypothetical protein	2965.23	85.7876	38.3224	133.306	OK	3300.95	95.6635	42.2598	149.055	OK	3019.93	85.0673	48.2872	121.822	OK	2960	84.1624	47.6487	120.572	OK	0.157199	-0.01216	-0.02759	1.11512	-1.00847	-1.01931
RSc0080		hypothetical protein	3596	1583.24	414.397	1693.58	OK	685.397	308.814	81.0274	338.21	OK	2130.74	780.236	289.422	920.585	OK	4386.06	1820.89	587.148	1918.82	OK	-2.35807	-1.0209	0.201764	-5.12684	-2.02918	1.150104

RSc0081		hypothetical protein	513.135	44.5967	20.7538	67.9669	OK	526.238	45.971	21.3244	70.5344	OK	313.442	25.8481	14.9859	36.5148	OK	514.941	43.6541	24.2025	62.8984	OK	0.043787	-0.78688	-0.03082	1.030816	-1.72534	-1.02159
RSc0082		hypothetical protein	995.846	53.8482	19.6106	88.0575	OK	932.877	50.6045	19.0871	82.1077	OK	842.513	43.8594	23.7128	63.9542	OK	878.482	46.5321	25.4032	67.382	OK	-0.08963	-0.29601	-0.21067	-1.0641	-1.22775	-1.15723
RSc0083		hypothetical protein	391.443	36.8554	0.659069	82.4778	OK	315.559	29.8766	0.284035	68.547	OK	240.083	21.3804	1.87014	40.965	OK	189.476	17.3852	0.917537	35.1417	OK	-0.30286	-0.78559	-1.08402	-1.23359	-1.72379	-2.11993
RSc0084		amino-acid-binding periplasmic (PBP) ABC transporter protei	982.663	85.0591	37.6028	132.143	OK	976.116	84.9258	37.3185	132.498	OK	1438.27	118.148	64.0926	171.381	OK	873.042	73.717	39.83	106.727	OK	-0.00226	0.474058	-0.20647	-1.00157	1.389011	-1.15386
RSc0085	***cca***	multifunctional tRNA nucleotidyl transferase/2'3'-cyclic phosphodiesterase/2'nucleotidase/phosphatase	3252.22	185.678	42.1851	328.894	OK	3304.63	189.308	43.8825	334.636	OK	2261.89	124.159	47.5256	200.543	OK	2368.91	132.435	53.3862	211.329	OK	0.027932	-0.58061	-0.48752	1.01955	-1.49549	-1.40203
RSc0086		hypothetical protein	3435.77	419.062	48.5442	792.563	OK	3455.51	424.522	42.6302	807.394	OK	2974.36	339.011	136.09	542.192	OK	2998.08	355.085	138.69	571.698	OK	0.018676	-0.30583	-0.239	1.013029	-1.23613	-1.18017
RSc0087		putative NADH-ubiquinone oxidoreductase oxidoreductase	820.407	62.6746	28.3877	96.6335	OK	456.318	35.0179	16.7891	52.9306	OK	705.799	51.3989	29.0791	73.0771	OK	620.105	46.2715	25.8551	66.3763	OK	-0.83979	-0.28614	-0.43776	-1.78979	-1.21938	-1.3545
RSc0088	***slt***	soluble lytic murein transglycosylase precursor transmembran	8197.98	294.783	121.877	467.756	OK	9302.09	335.195	136.584	533.872	OK	11626.2	405.753	219.156	592.343	OK	11601.6	409.615	220.393	597.939	OK	0.185347	0.460948	0.474615	1.137091	1.376446	1.389548
RSc0089		hypothetical protein	601.361	87.2242	36.5577	137.623	OK	560.278	81.9663	34.3259	129.015	OK	584.646	78.4606	40.8867	114.168	OK	573.869	80.5871	40.1528	120.668	OK	-0.0897	-0.15276	-0.11418	-1.06415	-1.11169	-1.08236
RSc0090		hypothetical protein	501.98	108.798	40.8294	155.039	OK	597.998	131.272	48.1254	185.065	OK	1190.41	231.703	107.27	342.019	OK	601.066	125.029	55.3652	166.788	OK	0.270907	1.090625	0.200611	1.206566	2.129662	1.149185
RSc0091	***metF***	5,10-methylenetetrahydrofolate reductase oxidoreductase protei	2500.77	240.733	104.158	376.719	OK	3418.71	330.976	142.287	519.393	OK	6095.44	554.483	293.652	808.174	OK	3101.43	290.869	153.057	428.208	OK	0.459293	1.203709	0.272936	1.374868	2.303311	1.208264
RSc0092		hypothetical protein	1119.57	397.844	115.056	478.488	OK	1156.44	419.1	118.445	494.494	OK	1896.21	575.229	230.163	733.957	OK	867.603	292.155	105.886	331.219	OK	0.075092	0.531934	-0.44547	1.053428	1.445866	-1.36176
RSc0093	***ahcY***	S-adenosyl-L-homocysteine hydrolase	22431.9	1143.81	417.635	1869.89	OK	29795.9	1523.88	543.228	2502.42	OK	77465.6	3808.03	1340.18	6279.02	OK	32699.6	1633.98	762.87	2504.3	OK	0.413902	1.735197	0.514543	1.332284	3.32925	1.428541
RSc0094		putative lipoprotein transmembran	532.403	87.9114	25.6671	149.802	OK	109.48	18.2551	6.88344	29.5171	OK	87.8081	13.3013	6.44523	19.9112	OK	119.669	19.0826	8.97729	28.6583	OK	-2.26775	-2.72448	-2.20379	-4.81572	-6.60923	-4.60689
RSc0095		hypothetical protein	426.936	101.745	15.2522	188.984	OK	59.7998	14.4512	2.41659	26.5825	OK	37.7908	8.01899	2.12194	13.7926	OK	41.703	9.51554	2.28174	16.8849	OK	-2.8157	-3.66539	-3.41853	-7.04059	-12.688	-10.6925
RSc0096		hypothetical protein	91.269	47.6386	12.5605	44.0759	OK	13.7999	7.39239	1.59861	8.2214	OK	15.5609	6.60779	1.80231	7.43455	OK	15.412	7.56052	1.80231	7.88513	OK	-2.68802	-2.84989	-2.65557	-6.44428	-7.20946	-6.30097
RSc0097		putative alkaline phosphatase lipoprotein transmembran	498.937	24.9085	12.0641	37.7447	OK	287.959	14.4182	7.31829	21.467	OK	477.943	23.0138	13.6077	32.3346	OK	944.662	46.2225	26.209	66.2444	OK	-0.78875	-0.11414	0.891957	-1.72757	-1.08233	1.855692
RSc0098		putative alkaline phosphatase signal peptide protei	461.416	23.9255	11.7426	36.1453	OK	328.439	17.0826	8.66936	25.4577	OK	349.009	17.4399	10.4528	24.4352	OK	653.648	33.2108	19.0957	47.2867	OK	-0.48602	-0.45616	0.473103	-1.40058	-1.37188	1.388092
RSc0099		putative signal peptide protein	126.763	15.2021	7.00211	23.1254	OK	110.4	13.3341	6.17291	20.085	OK	67.8012	7.60504	3.99913	11.1794	OK	108.79	12.6722	6.63492	17.9052	OK	-0.18915	-0.99924	-0.2626	-1.14009	-1.99895	-1.19964
RSc0100	***thiD***	bifunctional hydroxy-phosphomethylpyrimidine kinase/hydroxy-methylpyrimidine kinase	4107.11	355.51	154.321	554.801	OK	3127.07	272.067	119.206	424.791	OK	2977.69	244.604	132.533	355.805	OK	3604.59	304.36	161.844	446.685	OK	-0.38593	-0.53944	-0.22411	-1.3067	-1.45341	-1.16806
RSc0101		putative lipoprotein transmembran	922.831	294.434	90.6581	370.084	OK	675.278	219.364	67.7718	267.184	OK	392.358	108.184	46.5548	127.588	OK	679.939	206.133	78.9332	241.175	OK	-0.42462	-1.44446	-0.51437	-1.34222	-2.7216	-1.42837
RSc0102		putative calcium binding hemolysin protei	10502	193.683	74.2004	313.193	OK	5984.58	110.49	45.5425	175.261	OK	2523.09	45.5205	26.1672	64.853	OK	4785.87	86.8622	48.9266	124.89	OK	-0.80978	-2.08911	-1.1569	-1.75295	-4.25485	-2.22977
RSc0104		putative hemolysin-type calcium-binding protei	14830.2	351.002	110.625	592.081	OK	7793.29	184.71	64.9886	305.105	OK	3394.51	78.4097	42.4329	114.317	OK	7374.17	171.646	90.0108	253.389	OK	-0.92622	-2.16238	-1.03204	-1.90029	-4.47651	-2.04492
RSc0107		hypothetical protein	1278.78	258.904	92.5764	390.297	OK	372.599	76.3434	29.6513	110.153	OK	459.047	83.9486	40.7661	121.107	OK	619.198	120.516	54.5313	165.579	OK	-1.76184	-1.62484	-1.10319	-3.39131	-3.08408	-2.1483
RSc0108	***thiE1***	thiamine-phosphate pyrophosphorylase protei	947.169	61.6144	4.80771	118.572	OK	1119.64	73.114	5.53446	140.43	OK	475.72	29.648	7.72085	51.6194	OK	805.955	51.2849	13.6218	88.7347	OK	0.24688	-1.05533	-0.26473	1.186638	-2.0782	-1.20141
RSc0109	***thiG***	thiazole synthase	2425.73	234.561	67.6881	401.584	OK	2943.07	286.219	83.1503	489.663	OK	1311.56	119.824	58.2873	181.988	OK	2193.03	206.589	97.8765	315.296	OK	0.287156	-0.96905	-0.1832	1.220233	-1.95755	-1.1354
RSc0111		sulfur carrier protein ThiS	437.077	379.869	8.19135	733.55	OK	492.198	442.877	7.90889	854.16	OK	152.275	100.226	4.17971	196.168	OK	361.728	293.766	18.1121	531.102	OK	0.221404	-1.92225	-0.37083	1.165868	-3.79012	-1.2931
RSc0112		putative D-amino acid oxidase flavoprotein oxidoreductase	3503.72	230.717	84.2212	377.185	OK	4158.38	274.894	97.7046	451.966	OK	1920.66	121.126	64.7675	177.527	OK	3005.33	193.563	101.698	285.514	OK	0.252751	-0.92962	-0.25332	1.191477	-1.90477	-1.19195
RSc0113	***thiC***	thiamine biosynthesis protein ThiC	14219.7	528.12	202.68	853.517	OK	15331.7	570.671	216.572	924.847	OK	12016.4	432.924	233.72	632.032	OK	16216.1	591.268	308.946	872.956	OK	0.111793	-0.28675	0.162946	1.080571	-1.21989	1.119571
RSc0114		hypothetical protein	15246	937.775	364.033	1509.29	OK	17609.7	1087.11	412.933	1760.61	OK	7807.14	460.794	252.655	666.11	OK	19198.8	1155.69	587.076	1723.87	OK	0.213184	-1.02512	0.301441	1.159244	-2.03513	1.232375
RSc0115		putative hemagglutinin-related protei	13753.2	182.36	65.6713	298.819	OK	6848.45	90.8774	36.5439	145.38	OK	1268.22	16.489	9.51898	23.4557	OK	4194.77	54.7745	30.9114	78.6455	OK	-1.0048	-3.46721	-1.73521	-2.00666	-11.0595	-3.32929
RSc0116		hypothetical protein	9078.22	1510.63	541.954	2468.47	OK	202.399	34.013	14.4286	50.6762	OK	188.954	28.8292	14.9282	41.0815	OK	205.795	33.0652	16.2011	46.1732	OK	-5.47292	-5.71148	-5.51369	-44.4133	-52.3993	-45.6864
RSc0117		hypothetical protein	6261.05	1083.83	397.984	1719.17	OK	161.919	28.3181	11.8189	42.8134	OK	212.296	33.6008	17.2511	47.1133	OK	188.57	31.4923	15.3475	42.1165	OK	-5.25827	-5.0115	-5.105	-38.2734	-32.2561	-34.4157
RSc0118		hypothetical protein	7157.52	1280.29	462.034	2022.96	OK	260.359	47.0667	19.2463	69.2126	OK	255.644	41.7086	21.1772	57.5679	OK	254.751	43.9307	21.1772	60.3672	OK	-4.76562	-4.93998	-4.8651	-27.2016	-30.6961	-29.1434
RSc0119		hypothetical protein	1473.49	515.261	148.029	626.463	OK	52.4398	18.6968	5.78676	20.7203	OK	55.5747	16.6211	6.62938	19.704	OK	52.582	17.4309	6.26108	18.7833	OK	-4.78444	-4.95422	-4.88558	-27.5588	-31.0004	-29.5602
RSc0120		hypothetical protein	1656.03	320.206	116.312	489.708	OK	81.8797	16.014	6.37505	22.3777	OK	67.8012	11.886	5.64725	16.9418	OK	88.8454	16.5326	7.57245	22.0756	OK	-4.32159	-4.75167	-4.27561	-19.9954	-26.9398	-19.3682
RSc0121	***aidB***	putative oxidoreductase flavoprotein FAD	2889.17	123.059	55.8988	190.125	OK	1581.47	67.5294	29.8922	105.104	OK	1698.36	70.001	39.7737	100.041	OK	1791.41	74.8555	42.2785	107.138	OK	-0.86576	-0.8139	-0.71717	-1.8223	-1.75796	-1.64395
RSc0122		substrate-binding periplasmic (PBP) ABC transporter protei	2624.49	229.022	100.251	356.495	OK	4036.03	354.019	153.274	554.492	OK	3801.31	314.702	169.912	457.851	OK	3425.08	291.528	154.947	426.721	OK	0.628341	0.4585	0.348148	1.545786	1.374113	1.272926
RSc0123		putative alcohol dehydrogenase oxidoreductase protei	1451.18	59.7933	26.4324	93.1481	OK	1251.2	51.6789	22.9977	80.3052	OK	948.105	37.8262	21.8033	53.7717	OK	1905.64	77.0443	43.4225	110.121	OK	-0.21041	-0.6606	0.365704	-1.15702	-1.58074	1.288511
RSc0124		hypothetical protein	855.9	269.139	69.5038	458.021	OK	741.517	237.355	56.8348	405.409	OK	709.134	193.017	75.5089	304.639	OK	862.163	257.702	88.0069	382.057	OK	-0.18131	-0.47962	-0.06265	-1.13391	-1.39438	-1.04438
RSc0125		hypothetical protein	477.641	191.338	8.81298	390.976	OK	527.158	215.774	15.9633	419.139	OK	336.783	113.533	28.9915	198.221	OK	555.737	210.358	63.2128	357.701	OK	0.173398	-0.75301	0.136723	1.127711	-1.68531	1.099405
RSc0126		hypothetical protein	1839.58	1719.07	288.354	1208.53	OK	1912.67	1852.76	300.248	1255.24	OK	1497.18	1048.25	277.879	893.163	OK	1226.61	1070.7	228.657	727.752	OK	0.108048	-0.71365	-0.68307	1.077769	-1.63994	-1.60556
RSc0127		putative hemagglutinin-related protei	247.44	12.4398	6.33745	18.5214	OK	228.159	11.5045	5.84652	17.0933	OK	175.616	8.51431	5.15121	11.8434	OK	242.965	11.9713	7.17647	16.7304	OK	-0.11277	-0.547	-0.05538	-1.0813	-1.46105	-1.03914
RSc0128		transcription regulator protein	288.004	62.4215	24.1328	91.0593	OK	295.319	64.8281	24.8344	90.0772	OK	364.57	70.9605	34.4649	99.9342	OK	317.305	66.0034	30.0356	86.0929	OK	0.054576	0.184973	0.080497	1.038554	1.136796	1.057382
RSc0129		hypothetical protein	1414.67	203.813	80.2633	326.446	OK	528.998	76.8664	32.4649	120.871	OK	484.612	64.6263	34.0087	93.4718	OK	372.607	51.9797	26.4976	77.302	OK	-1.40682	-1.65705	-1.97123	-2.65152	-3.15372	-3.92101
RSc0130		hypothetical protein	845.759	55.864	25.4319	86.2645	OK	425.038	28.1844	13.7638	42.4809	OK	326.779	20.6698	12.1811	29.1117	OK	233.899	15.1106	8.88437	21.1772	OK	-0.98702	-1.43439	-1.88636	-1.98209	-2.70269	-3.69701
RSc0131		lipoprotein	416.795	14.8134	7.43841	22.1847	OK	407.558	14.5156	7.27529	21.728	OK	410.142	14.1506	8.561	19.7289	OK	410.683	14.3327	8.62536	19.9542	OK	-0.0293	-0.06604	-0.04759	-1.02052	-1.04684	-1.03354
RSc0132		transcription regulator protein	231.215	23.4125	11.137	35.6707	OK	208.839	21.2737	10.0879	32.3619	OK	227.856	21.7554	12.3401	31.0493	OK	218.487	21.5402	11.7828	31.2085	OK	-0.13821	-0.10591	-0.12025	-1.10054	-1.07617	-1.08692
RSc0133		hypothetical protein	184.566	88.1924	24.5337	88.9347	OK	159.159	77.9349	21.0289	74.0392	OK	182.285	71.6883	27.0117	74.5524	OK	140.521	63.2094	20.5289	57.0488	OK	-0.17838	-0.29892	-0.48052	-1.13162	-1.23022	-1.39524
RSc0134	***metK***	S-adenosylmethionine synthetase	12974.4	812.011	320.437	1303.75	OK	9014.13	566.244	234.082	897.991	OK	7801.58	468.297	256.26	675.803	OK	5616.3	343.944	186.967	499.558	OK	-0.52008	-0.79408	-1.23933	-1.43403	-1.73397	-2.36088
RSc0135		lipid A biosynthesis lauroyl acyltransferase	1429.88	121.806	52.7555	190.888	OK	1773.75	151.861	65.4533	237.891	OK	862.52	69.7696	38.4096	101.111	OK	1209.39	100.514	53.7043	146.026	OK	0.318166	-0.80391	-0.27719	1.246745	-1.74583	-1.21183
RSc0136		lipid A biosynthesis lauroyl acyltransferase	1243.29	109.383	47.3282	171.376	OK	1788.47	158.168	68.0028	247.663	OK	1120.39	93.4852	50.8821	135.875	OK	1324.52	113.651	60.5469	165.793	OK	0.532069	-0.22658	0.055222	1.446002	-1.17006	1.039019
RSc0137	***dapF***	diaminopimelate epimerase	1584.02	142.276	61.1773	223.169	OK	1904.39	171.962	73.7791	268.74	OK	1440.5	122.611	66.0613	178.525	OK	1437.85	125.926	66.7118	185.174	OK	0.273397	-0.2146	-0.17612	1.208651	-1.16039	-1.12984
RSc0138		hypothetical protein	1676.31	162.094	68.9899	254.882	OK	1842.75	179.211	76.3789	281.638	OK	1696.14	154.958	83.3277	226.581	OK	1503.12	141.598	74.1969	209.01	OK	0.144829	-0.06495	-0.19503	1.105599	-1.04605	-1.14475
RSc0139	***pyrE***	orotate phosphoribosyltransferase	1781.77	207.875	67.6481	348.072	OK	2634.87	309.532	98.7662	519.898	OK	2088.5	228.216	105.975	349.78	OK	1620.07	183.66	82.2174	283.935	OK	0.574372	0.134684	-0.17868	1.489029	1.097852	-1.13185
RSc0140		putative exodeoxyribonuclease III protein	1265.6	130.617	9.80455	253.68	OK	1843.67	191.443	10.9029	374.231	OK	1438.27	139.846	43.0737	236.565	OK	1272.85	127.869	43.4986	212.37	OK	0.551572	0.098496	-0.03068	1.465682	1.070657	-1.02149
RSc0141		hypothetical protein	1185.48	225.172	82.6544	346.3	OK	1717.63	329.932	119.033	501.196	OK	1282.66	221.197	105.759	330.719	OK	1063.43	194.468	88.1327	278.474	OK	0.551141	-0.0257	-0.21149	1.465244	-1.01797	-1.15789
RSc0142	***argC***	N-acetyl-gamma-glutamyl-phosphate reductase	5128.3	387.636	168.179	606.855	OK	8332.41	632.645	260.462	999.295	OK	7462.58	537.903	288.9	782.93	OK	6047.83	446.562	238.337	652.797	OK	0.706694	0.472643	0.204158	1.632059	1.38765	1.152014
RSc0143		hypothetical protein	291.047	51.2076	21.2231	79.8914	OK	350.519	62.3169	25.4921	97.0894	OK	453.49	72.8647	36.9398	108.653	OK	350.849	59.5328	28.6373	77.1283	OK	0.283266	0.508862	0.217327	1.216946	1.422927	1.162577
RSc0144		transcription regulator protein	811.28	64.9837	29.3338	100.268	OK	719.437	57.9005	26.2671	89.4014	OK	861.408	65.6665	36.5011	94.7713	OK	831.339	65.0115	35.6461	94.1793	OK	-0.1665	0.01508	0.000617	-1.12233	1.010507	1.000428
RSc0145		putative transmembrane protein	115.607	9.96676	4.88852	15.0198	OK	271.399	23.5174	11.4066	35.6366	OK	182.285	14.916	8.66658	20.9675	OK	430.628	36.2165	20.2686	52.2091	OK	1.238532	0.581664	1.861451	2.359583	1.496575	3.633729
RSc0146		lipoprotein transmembran	1702.67	184.601	77.3493	291.508	OK	1570.43	171.359	71.3863	271.404	OK	1713.92	174.668	92.7763	256.059	OK	1208.48	127.448	65.8846	188.83	OK	-0.10739	-0.0798	-0.5345	-1.07728	-1.05687	-1.44844
RSc0147		putative signal peptide protein	39.5499	12.9988	4.14908	14.9728	OK	45.9998	15.4002	4.87066	17.3179	OK	33.3448	9.43982	3.55919	12.2792	OK	40.7964	12.731	4.44899	15.8384	OK	0.244571	-0.46155	-0.03003	1.18474	-1.37702	-1.02104
RSc0148		hypothetical protein	250.483	36.0874	15.9681	54.0376	OK	264.959	38.5	16.8141	57.4216	OK	225.633	30.0897	16.0655	43.7106	OK	214.861	29.9737	15.2309	43.5019	OK	0.093363	-0.26223	-0.2678	1.066854	-1.19933	-1.20397
RSc0149		transcription regulator protein	290.033	59.8472	23.6409	85.5962	OK	307.279	64.1819	25.1354	91.0309	OK	294.546	54.812	27.0746	77.0689	OK	262.003	51.9492	23.9919	65.006	OK	0.100883	-0.12679	-0.20418	1.072429	-1.09186	-1.15203
RSc0150		hypothetical protein	247.44	32.9922	14.8771	50.4225	OK	135.24	18.1749	8.08757	28.0569	OK	231.191	28.6648	15.5628	40.8769	OK	139.614	18.0498	9.35737	25.8066	OK	-0.86018	-0.20284	-0.87014	-1.81526	-1.15097	-1.82784
RSc0151		putative transmembrane protein	574.995	48.2161	22.298	73.9573	OK	281.519	23.724	11.4952	35.8707	OK	449.044	35.7767	20.5624	51.0302	OK	186.757	15.2817	8.67582	21.7237	OK	-1.02317	-0.43049	-1.65771	-2.03238	-1.3477	-3.15515
RSc0152		lipoprotein	873.14	95.6302	41.1308	149.41	OK	1009.24	111.254	47.0557	175.171	OK	1157.07	119.064	63.1081	174.5	OK	914.745	97.4409	50.91	143.412	OK	0.218319	0.316199	0.027061	1.163377	1.245046	1.018934
RSc0153		putative signal peptide protein	749.42	61.6386	27.873	95.1363	OK	549.238	45.3941	20.99	69.8529	OK	642.444	50.2404	28.169	72.1369	OK	697.165	55.9656	30.6565	80.8767	OK	-0.44133	-0.29499	-0.13929	-1.35785	-1.22687	-1.10137
RSc0154	***ampG***	muropeptide transporter	1670.22	96.1246	25.0364	167.161	OK	1845.51	106.575	27.3491	185.511	OK	1896.21	104.902	45.7765	164.16	OK	1865.75	105.138	47.6611	162.623	OK	0.148891	0.126065	0.129307	1.108717	1.091313	1.093768
RSc0155		hypothetical protein	1841.61	114.923	18.5339	210.987	OK	1958.67	122.68	18.665	228.176	OK	1782.84	106.714	39.7445	173.583	OK	1602.84	97.8756	34.1957	161.575	OK	0.094233	-0.10692	-0.23165	1.067497	-1.07693	-1.17417
RSc0156		short chain dehydrogenase	1888.25	189.415	80.5813	297.734	OK	2209.83	222.992	94.6791	350.681	OK	1225.98	116.008	62.1883	168.864	OK	1119.63	109.364	57.6051	161.279	OK	0.235441	-0.70733	-0.79241	1.177267	-1.63278	-1.73197
RSc0157		hypothetical protein	812.294	225.98	74.2332	298.571	OK	873.077	246.811	79.1493	322.988	OK	1053.7	257.073	111.059	352.091	OK	836.779	221.989	89.2352	276.112	OK	0.127212	0.185983	-0.02571	1.092181	1.137592	-1.01798
RSc0158		arginase	2020.09	169.394	73.888	263.836	OK	1138.96	95.9814	41.7568	150.2	OK	3610.14	287.631	155.96	417.464	OK	4615.43	377.666	200.637	552.725	OK	-0.81956	0.763836	1.156728	-1.76486	1.698	2.229512
RSc0159		acetylornithine aminotransferase protei	4573.59	276.565	123.081	429.917	OK	3194.23	193.846	87.2851	300.643	OK	11941.9	693.244	371.818	1014.49	OK	16173.5	957.251	493.807	1420.22	OK	-0.51271	1.325745	1.791279	-1.42673	2.506622	3.461215
RSc0160		transcription regulator protein	1305.15	109.872	0	246.488	OK	881.357	74.5659	10.9072	138.459	OK	942.548	75.3793	27.8936	122.746	OK	990.898	81.3966	22.685	140.153	OK	-0.55924	-0.54358	-0.43278	-1.47349	-1.45759	-1.34984
RSc0161		transmembrane aldehyde dehydrogenase oxidoreductase protei	6971.94	332.591	96.9827	568.73	OK	1973.39	94.4047	26.6462	162.269	OK	1569.43	72.2837	31.5493	112.979	OK	2504.9	117.151	54.5793	179.873	OK	-1.81682	-2.20201	-1.50538	-3.52303	-4.60119	-2.83899
RSc0162		transcription regulator protein	1462.33	174.397	71.6484	276.044	OK	1800.43	216.24	88.6202	343.013	OK	766.931	85.571	45.6124	125.525	OK	1949.16	225.802	114.936	331.505	OK	0.310258	-1.02718	0.372683	1.23993	-2.03804	1.294759
RSc0163		lipoprotein	1894.34	157.618	32.5445	282.649	OK	1729.59	144.62	29.3795	259.737	OK	791.384	62.5812	25.5891	99.5057	OK	2903.79	235.786	79.0072	392.457	OK	-0.12417	-1.33263	0.581046	-1.08988	-2.51862	1.495933
RSc0164		ABC transporter ATP-binding protein	1679.35	134.516	23.8004	244.87	OK	1605.39	129.202	24.2004	234.07	OK	602.43	45.9242	14.995	76.8167	OK	2898.36	226.654	78.7239	374.613	OK	-0.05815	-1.55045	0.752714	-1.04113	-2.92909	1.684959
RSc0165		hypothetical protein	1016.13	66.5033	0.523582	152.755	OK	983.476	64.6157	1.05122	146.842	OK	453.49	28.4299	2.25689	54.4788	OK	1745.18	111.721	6.7218	219.131	OK	-0.04154	-1.22602	0.748403	-1.02921	-2.3392	1.679932
RSc0166		outer membrane channel lipoprotein	1271.68	63.9322	28.34	98.9892	OK	1448.07	73.0166	32.4013	113.092	OK	525.737	25.489	15.0134	35.8383	OK	1963.67	96.753	54.1097	139.391	OK	0.191682	-1.32667	0.597764	1.142094	-2.50823	1.513369

RSc0167		hypothetical protein	339.724	82.7906	8.31468	157.223	OK	351.439	86.8724	5.29116	168.41	OK	390.135	84.4772	17.8962	150.627	OK	476.864	111.203	20.4315	201.929	OK	0.069431	0.029095	0.425657	1.049303	1.020372	1.343184
RSc0168		hypothetical conserved protein	1202.72	71.52	21.5858	121.368	OK	1799.51	107.385	37.2964	176.994	OK	1518.3	86.7133	43.2909	130.215	OK	2271	132.195	66.7672	197.624	OK	0.586374	0.277907	0.886249	1.501468	1.212434	1.848364
RSc0169		putative transmembrane oxidoreductase protein	854.886	70.856	31.8233	109.461	OK	1225.44	102.067	44.4429	159.596	OK	742.479	58.4954	32.4762	84.0999	OK	1025.35	82.9397	44.7225	120.771	OK	0.526555	-0.27657	0.227173	1.440485	-1.21131	1.170539
RSc0170		probable transmembrane protein	735.223	30.7061	14.2105	47.1291	OK	944.837	39.558	18.0655	61.1507	OK	414.588	16.7617	10.0666	23.3397	OK	667.247	27.3419	15.9202	38.7379	OK	0.365444	-0.87336	-0.16741	1.288278	-1.83192	-1.12304
RSc0171		short chain dehydrogenase	512.121	56.9616	11.2115	102.381	OK	669.758	74.9867	11.9937	137.406	OK	461.27	48.1675	20.1483	75.9636	OK	607.413	65.6944	25.2069	105.543	OK	0.396645	-0.24193	0.205781	1.316443	-1.18257	1.15331
RSc0172		hypothetical protein	881.253	49.137	10.594	87.9306	OK	1444.39	80.8024	22.209	139.575	OK	565.751	30.347	12.23	48.4907	OK	897.52	49.0117	20.751	77.3793	OK	0.717588	-0.69526	-0.00368	1.644431	-1.61917	-1.00256
RSc0173		hypothetical protein	802.153	40.902	18.8458	63	OK	1442.55	73.778	32.675	114.747	OK	689.127	33.8759	19.6168	48.1057	OK	902.053	45.0749	25.591	64.3341	OK	0.851019	-0.27191	0.140153	1.803775	-1.20741	1.102022
RSc0174		2-dehydropantoate 2-reductase	508.064	41.9482	19.6895	64.1275	OK	471.038	39.0814	18.5272	59.6154	OK	391.246	30.7097	17.805	43.5684	OK	296.454	23.8887	13.6235	34.0589	OK	-0.10213	-0.44991	-0.81228	-1.07335	-1.36596	-1.75599
RSc0175		hypothetical protein	1762.51	146.083	63.3722	228.73	OK	2185.91	182.066	79.3524	284.695	OK	1691.7	133.278	72.8008	192.828	OK	1350.81	109.266	58.5925	159.472	OK	0.317673	-0.13235	-0.41894	1.246319	-1.09608	-1.33695
RSc0176		lipoprotein	870.098	75.9278	33.7747	118.14	OK	912.637	80.0517	35.349	124.652	OK	713.58	59.0757	32.8247	85.2735	OK	681.753	58.0278	31.6246	84.4264	OK	0.076304	-0.36206	-0.38788	1.054313	-1.28526	-1.30847
RSc0177	***glmU***	UDP-N-acetylglucosamine pyrophosphorylase protein	11913.6	636.192	254.214	1018.65	OK	12505.5	669.906	264.477	1072.31	OK	11710.7	602.233	323.231	880.665	OK	11706.7	612.433	326.993	895.805	OK	0.074496	-0.07914	-0.05491	1.052993	-1.05639	-1.03879
RSc0178	***glmS***	D-fructose-6-phosphate amidotransferase	19240.5	738.881	272.872	1205.2	OK	17201.2	662.065	248.289	1073.28	OK	20322.6	756.636	380.879	1131.68	OK	15209.8	573.332	301.836	845.084	OK	-0.15837	0.034257	-0.36597	-1.11602	1.02403	-1.28875
RSc0179		hypothetical protein	3597.01	787.538	277.941	1136.76	OK	523.478	116.096	42.934	162.415	OK	604.653	118.782	56.1474	168.86	OK	1281.91	269.298	116.614	369.626	OK	-2.76203	-2.72903	-1.54815	-6.78351	-6.63011	-2.92441
RSc0180		probable pseudogene (alcohol dehydrogenase c-terminal fragment) protein	53.7473	34.2708	7.98772	28.4562	OK	38.6399	25.3725	5.74117	20.7181	OK	33.3448	16.8326	4.92493	16.991	OK	47.1425	28.1667	7.38739	22.6547	OK	-0.43371	-1.02572	-0.28299	-1.35071	-2.03598	-1.21671
RSc0181		putative zinc-containing alcohol dehydrogenase (ADH-HT). oxidoreductase protein	1216.92	193.501	74.8505	311.101	OK	857.437	137.63	54.4058	218.986	OK	878.081	128.42	64.54	181.967	OK	1214.83	186.688	88.5184	282.475	OK	-0.49155	-0.59147	-0.05171	-1.40595	-1.50678	-1.03649
RSc0182		hypothetical protein	2132.65	142.621	63.3133	221.883	OK	951.276	63.8684	28.6227	99.0344	OK	481.277	30.8104	17.9583	43.6533	OK	1475.92	96.5269	52.5759	140.221	OK	-1.15901	-2.2107	-0.56318	-2.23304	-4.62899	-1.47753
RSc0183		hypothetical protein	5143.52	985.674	356.016	1607.44	OK	2114.15	409.758	149.105	616.594	OK	1371.58	238.473	113.54	362.436	OK	4694.3	865.921	385.527	1259.41	OK	-1.26634	-2.04728	-0.18688	-2.4055	-4.13327	-1.1383
RSc0184		hypothetical protein	2962.19	562.64	209.4	851.738	OK	1931.99	371.107	134.586	561.613	OK	1800.62	310.519	149.255	440.536	OK	4504.83	823.794	368.001	1202.54	OK	-0.60038	-0.85753	0.550071	-1.51611	-1.81193	1.464158
RSc0185		hypothetical protein	2937.85	279.054	121.059	436.47	OK	2107.71	201.33	86.328	316.408	OK	1179.3	105.912	57.1784	154.215	OK	4425.95	409.647	213.814	600.979	OK	-0.47098	-1.39768	0.553837	-1.38605	-2.63477	1.467985
RSc0186		hypothetical protein	1987.64	260.171	105.562	413.289	OK	1669.79	220.267	88.4283	351.744	OK	775.823	94.532	50.0287	137.652	OK	2766.9	351.28	175.635	518.647	OK	-0.24021	-1.46059	0.433161	-1.18116	-2.7522	1.350189
RSc0187		hypothetical protein	2495.7	435.534	165.672	679.303	OK	1609.99	283.883	105.273	444.136	OK	791.384	126.199	62.5744	178.152	OK	2870.25	483.16	223.617	718.828	OK	-0.61749	-1.78708	0.149716	-1.5342	-3.45117	1.109351
RSc0188		hypothetical protein	115.607	186.919	24.2369	82.4056	OK	93.8397	158.716	19.7358	68.9021	OK	31.1219	34.623	6.48979	21.1772	OK	95.1915	143.624	21.5188	63.19	OK	-0.23597	-2.43261	-0.38012	-1.17769	-5.39869	-1.30145
RSc0189		hypothetical protein	3016.95	399.778	163.09	633.575	OK	2527.23	337.522	136.852	536.874	OK	1108.16	136.598	70.7867	202.066	OK	3106.87	399.228	198.144	590.805	OK	-0.24422	-1.54926	-0.00199	-1.18445	-2.92668	-1.00138
RSc0190		transcription regulator protein	332.625	33.523	15.8389	51.0545	OK	276.919	28.0756	13.1857	42.934	OK	113.372	10.776	6.02797	15.4665	OK	220.3	21.6183	11.8973	31.3296	OK	-0.25583	-1.63733	-0.6329	-1.19403	-3.11089	-1.55068
RSc0191		transmembrane two component system sensor kinase transcription regulator protein	821.421	43.5392	20.1575	66.9265	OK	711.157	37.8128	17.5852	58.0404	OK	559.082	28.5433	16.748	40.3243	OK	1037.13	53.8581	30.2663	77.1884	OK	-0.20344	-0.60916	0.306848	-1.15144	-1.52537	1.237003
RSc0192		response regulator transcription regulator protein	1188.53	157.492	64.0034	251.045	OK	413.078	55.1683	24.1504	84.6754	OK	351.232	43.2949	23.4322	62.9433	OK	739.774	95.0599	47.8448	136.475	OK	-1.51337	-1.86301	-0.72837	-2.85476	-3.63766	-1.65677
RSc0193		hypothetical conserved protein	5180.02	1001.6	361.426	1629.15	OK	1081	211.421	77.021	318.882	OK	640.221	112.235	54.5473	166.337	OK	1780.53	331.327	149.396	475.011	OK	-2.24412	-3.15771	-1.59598	-4.73747	-8.92413	-3.023
RSc0194		zinc-dependent alcohol dehydrogenase oxidoreductase protein	6991.21	513.97	217.896	809.79	OK	1204.28	88.9197	38.9632	138.729	OK	1231.54	86.4162	47.7405	124.737	OK	2182.15	156.754	85.5657	227.992	OK	-2.53111	-2.57231	-1.71318	-5.78016	-5.94761	-3.27883
RSc0195		hypothetical protein	4870.72	185.389	81.1091	289.561	OK	1032.24	39.3773	17.785	61.0663	OK	666.897	24.6131	14.5293	34.6785	OK	1565.67	58.4973	33.0337	83.7493	OK	-2.23512	-2.91306	-1.66411	-4.70802	-7.53213	-3.16919
RSc0196		putative cytochrome c1 signal peptide protein	401.584	21.9358	10.8536	32.9929	OK	368.919	20.2166	10.1332	30.2555	OK	267.87	14.0832	8.48035	19.6138	OK	373.513	19.9845	11.8441	28.1415	OK	-0.11775	-0.63931	-0.13441	-1.08504	-1.55759	-1.09764
RSc0197		putative cytochrome C signal peptide protein	555.727	77.9713	33.1857	120.402	OK	563.958	79.7862	33.7042	125.38	OK	193.4	25.1575	13.5043	36.4207	OK	580.215	78.8635	39.6945	110.387	OK	0.033196	-1.63195	0.016415	1.023277	-3.09933	1.011443
RSc0198		hypothetical protein	1490.73	200.006	80.1501	318.093	OK	1465.55	198.197	78.7458	317.591	OK	1001.46	124.899	64.8181	184.064	OK	2679.87	348.59	173.574	511.815	OK	-0.01311	-0.67928	0.801488	-1.00913	-1.60134	1.742898
RSc0199		cytochrome B561 cytochrome transmembrane protein	1046.55	185.654	70.5344	290.97	OK	848.237	152.062	58.1449	233.806	OK	790.273	127.948	63.2896	192.168	OK	1659.05	283.786	131.057	417.251	OK	-0.28796	-0.53706	0.612187	-1.22091	-1.45101	1.528575
RSc0200		putative small HEAT shock protein	16447.7	4054.09	1210.22	6522.62	OK	12040	3010.62	911.814	4702.03	OK	8176.16	1788.7	781.604	2427.27	OK	23115.2	5450.34	2069.66	7287.36	OK	-0.42932	-1.18047	0.426968	-1.3466	-2.2665	1.344405
RSc0201		hypothetical protein	22351.8	1202.56	441.661	1964.82	OK	14666.6	791.599	309.684	1273.47	OK	7891.61	408.811	225.516	591.279	OK	32968.9	1737.63	813.756	2661.5	OK	-0.60327	-1.5566	0.531012	-1.51915	-2.9416	1.444942
RSc0202		phosphoribosylpyrophosphate synthetase	3504.73	281.781	124.99	436.362	OK	2334.95	188.625	82.7248	294.319	OK	691.35	52.893	29.6877	75.9344	OK	3466.78	272.111	145.667	397.353	OK	-0.57905	-2.41343	-0.05038	-1.49387	-5.32738	-1.03554
RSc0203		hypothetical protein	1289.94	1161.89	199.786	840.075	OK	704.717	657.574	113.918	449.662	OK	393.469	266.991	75.3908	219.678	OK	1111.47	935.319	204.713	648.587	OK	-0.82125	-2.12161	-0.31294	-1.76693	-4.35179	-1.24224
RSc0204	***deoA***	thymidine phosphorylase	8283.17	391.661	162.989	619.289	OK	5461.1	258.944	113.082	404.323	OK	2135.18	97.4926	55.2358	139.611	OK	6738.65	312.4	172.211	452.392	OK	-0.59697	-2.00624	-0.32621	-1.51253	-4.01734	-1.25372
RSc0205		transcription regulator protein	939.057	81.6136	36.23	126.948	OK	1322.04	115.49	49.638	180.651	OK	1581.66	130.432	70.6376	188.977	OK	1486.8	126.043	66.8383	185.248	OK	0.500886	0.676416	0.627035	1.415083	1.598165	1.544387
RSc0206		putative signal peptide protein	169.355	12.5796	6.19601	18.901	OK	135.24	10.0897	5.00688	15.1458	OK	108.926	7.72005	4.44536	10.9899	OK	144.147	10.4612	5.98889	14.8796	OK	-0.3182	-0.7044	-0.26604	-1.24678	-1.62947	-1.2025
RSc0207		putative transporter transmembrane protein	194.707	11.774	5.98347	17.5305	OK	222.639	13.5112	6.82325	20.1548	OK	158.944	9.2269	5.48847	12.9445	OK	180.411	10.6779	6.31691	15.0156	OK	0.198551	-0.35169	-0.14098	1.147545	-1.27605	-1.10265
RSc0209		hypothetical conserved protein	321.47	82.0467	30.0227	113.402	OK	304.519	78.8818	28.4671	107.179	OK	411.253	92.8474	42.6613	125.836	OK	432.441	105.486	44.8097	132.127	OK	-0.05675	0.178416	0.362534	-1.04012	1.131641	1.285682
RSc0210		hypothetical protein	272.793	74.9285	26.5085	96.4389	OK	257.599	71.8846	25.0448	90.4216	OK	364.57	87.9322	39.9479	115.833	OK	311.866	81.713	34.1723	98.1852	OK	-0.05983	0.230877	0.125051	-1.04234	1.173548	1.090546
RSc0211		hypothetical conserved protein	619.615	95.0064	38.9504	149.605	OK	508.758	78.7202	32.7538	121.388	OK	554.636	78.4082	40.6078	113.527	OK	542.138	80.3962	39.8437	118.112	OK	-0.27129	-0.27702	-0.2409	-1.20689	-1.21169	-1.18173
RSc0212		putative aspartate racemase protein	476.627	58.1343	25.9471	89.508	OK	316.479	38.8806	17.7336	59.9209	OK	292.323	33.3184	18.415	47.8789	OK	299.173	35.4333	18.7833	50.7332	OK	-0.58034	-0.80307	-0.71428	-1.4952	-1.74481	-1.64067
RSc0213		glutamine amidotransferase	237.299	27.5354	12.8443	42.2154	OK	101.2	11.8237	5.56884	17.964	OK	106.703	11.5999	6.29113	16.6582	OK	100.631	11.3473	5.9367	16.5696	OK	-1.21961	-1.24718	-1.27894	-2.32883	-2.37376	-2.4266
RSc0214		transcription regulator protein	2567.7	234.555	102.135	366.276	OK	663.318	60.9209	27.3351	94.4845	OK	889.196	76.9224	42.2811	111.309	OK	707.137	62.9725	34.1473	91.2305	OK	-1.94492	-1.60845	-1.89713	-3.85016	-3.04924	-3.72472
RSc0215		short chain dehydrogenase	8874.39	858.13	341.916	1374.67	OK	461.838	44.9146	20.767	68.9122	OK	596.873	54.5299	30.3847	78.2636	OK	578.402	54.4869	29.6174	79.0308	OK	-4.25594	-3.97608	-3.97721	-19.1058	-15.7369	-15.7493
RSc0216		transport transmembrane protein	2950.02	177.887	80.0562	275.511	OK	197.799	11.9699	6.07359	17.8543	OK	240.083	13.899	8.31592	19.4727	OK	170.438	10.0595	5.93995	14.1526	OK	-3.89348	-3.67791	-4.14433	-14.8612	-12.7985	-17.6835
RSc0217		oxidoreductase transmembrane protein	3303.94	245.416	108.149	382.15	OK	117.76	8.78563	4.38102	13.1431	OK	107.815	7.64127	4.38362	10.8664	OK	143.241	10.3954	5.92715	14.8179	OK	-4.80394	-5.00527	-4.56121	-27.9338	-32.1172	-23.6081
RSc0218		hypothetical protein	5405.15	1233.58	419.187	1930.14	OK	74.5197	17.2362	6.52713	23.2076	OK	103.369	21.0891	9.87315	28.7609	OK	78.873	17.2536	7.44064	22.465	OK	-6.16127	-5.87021	-6.15981	-71.5691	-58.4937	-71.497
RSc0219		putative acylphosphatase protein	520.233	168.448	54.0253	204.473	OK	68.9997	22.7525	7.33456	26.2971	OK	157.832	44.0927	18.883	52.4136	OK	105.164	32.3431	12.3534	36.1777	OK	-2.88821	-1.93369	-2.38077	-7.40349	-3.82031	-5.20816
RSc0220		hypothetical protein	438.091	91.274	35.1402	128.665	OK	98.4396	20.7627	8.20395	28.7138	OK	153.386	28.7966	14.0282	38.9822	OK	155.026	31.0286	14.1631	39.3869	OK	-2.13621	-1.66431	-1.55661	-4.39606	-3.16961	-2.94161
RSc0221		hypothetical protein	1539.4	132.184	57.1276	206.973	OK	510.598	44.0668	20.6196	67.5081	OK	466.828	38.0526	21.5952	54.3362	OK	504.968	42.3007	23.4064	61.0934	OK	-1.58478	-1.79648	-1.64379	-2.99963	-3.47372	-3.12487
RSc0222	***rtcR***	sigma-54 interacting transcription regulator protein	741.307	33.0157	15.3393	50.6637	OK	686.317	30.6471	14.298	46.939	OK	483.5	20.8198	12.406	29.1977	OK	515.847	22.5332	13.3148	31.7263	OK	-0.1074	-0.6652	-0.5511	-1.07729	-1.58578	-1.4652
RSc0223		hypothetical protein	42.5922	12.3235	0	28.6786	OK	74.5197	21.9216	0	46.1205	OK	65.5782	16.5719	0	33.0894	OK	84.3125	23.2388	0.496341	45.8288	OK	0.830941	0.427327	0.915124	1.778845	1.34474	1.885731
RSc0224	***rtcB***	RTCB protein	846.774	51.4946	20.2506	82.7053	OK	1115.96	68.1085	25.3891	111.199	OK	1062.59	62.0248	33.9721	90.2422	OK	1225.7	72.9528	38.8065	107.075	OK	0.403414	0.268424	0.502542	1.322634	1.204491	1.416708
RSc0225		hypothetical protein	402.598	37.9057	17.8892	57.5498	OK	608.118	57.5755	26.1106	88.9129	OK	385.689	34.3472	19.6002	48.3621	OK	456.919	41.924	22.9795	60.753	OK	0.60304	-0.14222	0.145362	1.518914	-1.1036	1.106008
RSc0226	***rtcA***	RNA 3'-terminal-phosphate cyclase	389.414	28.4337	13.8795	42.934	OK	412.158	30.2245	14.6198	45.7716	OK	195.623	13.6364	8.03273	19.2299	OK	255.657	18.2413	10.5277	25.8021	OK	0.088117	-1.06014	-0.64039	1.062982	-2.08513	-1.55875
RSc0227	***ripBA***	probable pseudogene (type III effector protein, avrpm1	448.232	143.011	45.5952	212.541	OK	147.199	47.8179	14.9027	59.0786	OK	37.7908	10.42	3.67538	15.2266	OK	94.2849	28.5838	10.3261	40.7792	OK	-1.5805	-3.7787	-2.32286	-2.99074	-13.7247	-5.00322
RSc0228	***ripBA***	probable pseudogene (type III effector protein, C-term fragment, avrpm1 homologue)	80.1139	42.7975	0	105.239	OK	41.3998	22.7067	0	47.7171	OK	37.7908	16.3734	6.49898	26.4292	OK	60.7413	30.4846	11.0413	50.1877	OK	-0.91441	-1.38617	-0.48945	-1.8848	-2.61384	-1.40391
RSc0229		transcriptional regulators containing a dna-binding hth domain and an aminotransferase domain transcription regulator protein	1379.18	84.8327	37.2876	131.732	OK	1976.15	121.995	54.1203	189.527	OK	1703.92	100.569	56.49	144.667	OK	1605.56	96.6483	53.3897	139.149	OK	0.52413	0.245493	0.188124	1.438066	1.185498	1.139281
RSc0230		hypothetical protein	1183.45	73.6379	32.4964	114.76	OK	1152.76	71.9918	31.9046	112.016	OK	1182.63	70.5883	39.5414	101.64	OK	1147.74	69.8836	38.586	100.685	OK	-0.03262	-0.06102	-0.07549	-1.02287	-1.0432	-1.05372
RSc0231		putative (homoserine/homoserine lactone) efflux transmembrane protein	1053.65	143.154	58.3254	227.429	OK	827.077	113.278	46.8831	178.318	OK	1306.01	164.823	84.6089	243.438	OK	985.459	129.78	64.4306	182.603	OK	-0.3377	0.20335	-0.1415	-1.26374	1.151368	-1.10305
RSc0232		hypothetical protein	14158.9	1413.7	532.765	2289.79	OK	197.799	19.8663	9.49655	30.1655	OK	292.323	27.5381	15.6664	39.2841	OK	189.476	18.4228	10.2343	26.5305	OK	-6.15301	-5.6819	-6.26184	-71.1607	-51.3361	-76.7364
RSc0233		putative integral membrane transmembrane protein	261.638	20.5734	10.1755	30.9204	OK	87.3997	6.90452	3.41371	10.3724	OK	33.3448	2.49699	1.29524	3.7562	OK	51.6754	3.9678	2.13715	5.76382	OK	-1.57517	-3.04252	-2.37437	-2.9797	-8.23928	-5.18509
RSc0234		transcription regulator protein	479.669	52.8049	23.9672	81.5573	OK	396.519	43.9363	20.0876	67.7633	OK	298.992	30.9169	17.35	44.1404	OK	370.794	39.6975	21.4323	57.5782	OK	-0.26526	-0.77228	-0.41162	-1.20185	-1.70796	-1.33018
RSc0235		hypothetical protein	1593.15	523.62	154.959	653.751	OK	511.518	171.251	53.7577	202.583	OK	505.73	143.171	60.5063	179.561	OK	984.552	307.241	114.962	360.902	OK	-1.61241	-1.87078	-0.76915	-3.05762	-3.6573	-1.70426
RSc0236		hypothetical protein	3039.26	185.879	83.4828	287.499	OK	2764.59	169.692	75.532	263.965	OK	1900.66	111.559	62.4858	160.633	OK	2452.31	146.785	81.2577	211.458	OK	-0.13145	-0.73656	-0.34066	-1.09539	-1.66619	-1.26634
RSc0237		putative methylmalonyl-CoA mutase protein	3305.97	67.848	29.2927	106.437	OK	1791.23	36.8058	15.749	57.9219	OK	2347.48	47.0856	26.9913	67.151	OK	3343.49	67.5109	38.35	96.5873	OK	-0.88237	-0.52702	-0.00719	-1.84341	-1.44095	-1.00499
RSc0238		putative permease transmembrane protein	302.202	35.4497	3.80428	67.0277	OK	134.32	15.866	3.7137	27.9886	OK	114.484	12.5749	5.00389	20.0156	OK	137.801	15.7059	6.25487	25.1088	OK	-1.15983	-1.49523	-1.17447	-2.23432	-2.81908	-2.25709
RSc0239		hypothetical protein	875.168	33.6085	10.2918	56.9891	OK	275.079	10.5877	3.57952	17.6667	OK	218.964	8.15233	4.09544	12.2119	OK	249.311	9.39777	4.74956	14.0602	OK	-1.66644	-2.04354	-1.83844	-3.1743	-4.12256	-3.57622
RSc0240		hypothetical protein	98.3677	22.9355	8.82205	30.8772	OK	29.4399	6.95859	2.49958	9.11612	OK	10.0035	2.08097	0.725247	3.33613	OK	28.1042	6.27746	2.46584	9.7183	OK	-1.72072	-3.46225	-1.86933	-3.296	-11.0215	-3.65363
RSc0241		hypothetical protein	254.539	124.264	33.8603	125.925	OK	53.3598	26.7044	7.0819	24.344	OK	58.9092	23.6037	8.29622	24.452	OK	38.9832	17.9082	5.23972	18.339	OK	-2.21826	-2.39632	-2.79472	-4.65332	-5.2646	-6.93894
RSc0242		putative hydrolase protein	1477.54	181.246	73.9627	288.258	OK	289.799	35.8078	16.2174	54.933	OK	476.831	54.6423	29.5001	79.715	OK	338.157	40.2756	21.2697	57.5206	OK	-2.3396	-1.72986	-2.16997	-5.06163	-3.31695	-4.50014
RSc0243		putative transcriptional regulator transcription regulator protein	618.601	51.6708	23.6068	79.2415	OK	612.718	51.4327	23.6068	79.0344	OK	676.9	53.7286	30.0294	77.3547	OK	733.428	59.7831	32.8893	86.1388	OK	-0.00666	0.056341	0.210388	-1.00463	1.039825	1.157
RSc0244	***paaH1***	3-hydroxybutyryl-CoA dehydrogenase	3368.84	313.066	135.656	490.276	OK	4404.94	411.606	175.803	647.173	OK	7015.76	616.999	327.689	905.047	OK	3267.34	295.943	156.637	433.575	OK	0.394797	0.978801	-0.08115	1.314758	1.970827	-1.05786
RSc0245	***ripB***	Type III effector protein	1326.44	65.1593	28.987	101.258	OK	2038.71	100.439	44.814	156.04	OK	3034.38	143.822	81.3015	205.734	OK	2474.98	119.174	66.9389	171.445	OK	0.624277	1.142241	0.871027	1.541438	2.207237	1.828964

RSc0246		putative calcium binding hemolysin protei	28175.8	548.366	184.241	912.19	OK	3114.19	60.679	26.625	94.6811	OK	4172.55	79.4059	44.9901	114.013	OK	3432.33	65.7324	37.3026	94.0802	OK	-3.17587	-2.78782	-3.06046	-9.03716	-6.90586	-8.3424
RSc0249		putative calcium binding hemolysin protei	5169.88	76.7508	32.1719	121.403	OK	538.198	7.99696	3.77819	12.2076	OK	710.245	10.3318	6.04256	14.6123	OK	541.232	7.91119	4.75781	11.0545	OK	-3.26266	-2.89309	-3.27822	-9.5975	-7.4286	-9.70155
RSc0253		hypothetical protein	2827.31	261.609	113.49	408.023	OK	850.997	79.1741	35.0528	122.872	OK	696.907	61.0359	33.8391	87.8187	OK	702.604	63.3683	34.2093	92.4836	OK	-1.72431	-2.09968	-2.04558	-3.30422	-4.28615	-4.12839
RSc0254		hypothetical protein	3328.28	146.11	65.4289	226.293	OK	1914.51	84.2645	37.5969	130.858	OK	1508.3	64.0366	36.1923	91.7679	OK	1375.29	59.2202	33.3843	84.9428	OK	-0.79406	-1.19009	-1.30289	-1.73394	-2.28166	-2.46723
RSc0255		hypothetical protein	2820.21	220.953	98.1068	343.406	OK	1378.15	108.474	47.0572	169.642	OK	1304.89	97.3711	53.3304	141.267	OK	1554.79	118.951	63.919	174.066	OK	-1.02639	-1.18217	-0.89337	-2.03692	-2.26918	-1.85751
RSc0256	***dehH***	haloacetate dehalogenase H-1 protein	423.894	35.6849	17.0208	54.3275	OK	370.759	31.3675	15.0755	47.6581	OK	402.361	32.1784	18.4358	45.9182	OK	470.518	38.6504	21.3828	54.485	OK	-0.18604	-0.14922	0.11517	-1.13764	-1.10897	1.083102
RSc0257	***ripY***	Type III effector protein with ankyrin repeats	1716.87	42.9057	18.4574	67.3636	OK	3128.91	78.3088	34.587	122.03	OK	6014.3	146.6	81.879	211.354	OK	3320.82	81.6029	46.3904	116.741	OK	0.868005	1.772644	0.927451	1.825137	3.416795	1.901913
RSc0258		putative beta lactamase protein	497.923	40.1836	16.5698	63.7972	OK	481.158	39.0163	16.3015	61.7176	OK	469.051	36.0157	19.5889	52.3474	OK	423.376	33.3547	17.8021	48.7737	OK	-0.04253	-0.15798	-0.26872	-1.02992	-1.11572	-1.20474
RSc0259		hypothetical protein	165.298	97.3762	3.53456	210.896	OK	151.799	91.9656	2.42335	200.532	OK	117.818	55.5517	4.24352	107.031	OK	109.697	60.6178	7.18372	115.492	OK	-0.08247	-0.80974	-0.68383	-1.05883	-1.75289	-1.6064
RSc0260		hypothetical protein	920.803	168.926	64.0244	261.245	OK	857.437	159.017	60.1327	242.037	OK	748.036	124.93	60.9309	188.737	OK	888.454	157.047	72.4483	225.89	OK	-0.08721	-0.43527	-0.1052	-1.06231	-1.35217	-1.07564
RSc0261		hydroxymethylglutaryl-CoA lyase	2611.31	218.971	96.463	340.702	OK	2502.39	210.88	92.6543	329.068	OK	2650.92	211.207	115.996	303.585	OK	3547.47	290.278	154.389	424.774	OK	-0.05432	-0.05208	0.406695	-1.03837	-1.03676	1.325646
RSc0262		putative 2-hydroxyacid dehydrogenase oxidoreductase protei	1755.41	144.935	62.8969	226.908	OK	1723.15	142.968	61.9398	222.6	OK	1419.38	111.41	60.699	161.796	OK	1748.8	140.921	75.8737	205.972	OK	-0.01971	-0.37953	-0.04052	-1.01376	-1.30092	-1.02848
RSc0263		hypothetical conserved protein	380.288	104.454	36.7541	140.837	OK	425.038	118.61	40.6572	148.155	OK	534.629	128.949	57.4351	171.664	OK	494.089	129.458	53.2639	158.348	OK	0.183358	0.303933	0.309616	1.135524	1.234505	1.239378
RSc0264		hypothetical protein	840.689	385.31	100.895	405.726	OK	912.637	428.342	108.838	441.576	OK	1132.61	429.544	156.499	495.97	OK	1152.27	497.568	158.829	505.711	OK	0.152744	0.156786	0.368874	1.111682	1.114801	1.291345
RSc0265		acyl-CoA carboxylase subunit alpha	1823.35	59.3957	26.1638	92.6423	OK	1828.03	59.6628	26.1939	93.124	OK	1032.58	32.696	18.9199	46.4829	OK	1106.03	35.3922	20.3753	50.3738	OK	0.006473	-0.86124	-0.74693	1.004497	-1.8166	-1.67821
RSc0266	***bioB***	biotin synthase protein	3141.68	219.681	98.5341	339.488	OK	5496.98	385.965	167.395	604.465	OK	3347.82	223.792	124.247	322.058	OK	3540.22	241.997	131.346	351.565	OK	0.81306	0.026748	0.139579	1.756934	1.018713	1.101584
RSc0267		enoyl-CoA hydratase	1330.5	135.363	43.501	226.902	OK	1025.8	104.993	30.5398	179.189	OK	940.325	90.1872	42.0347	138.251	OK	947.382	93.8374	43.1535	144.245	OK	-0.36654	-0.58584	-0.5286	-1.28926	-1.50091	-1.44253
RSc0268		putative signal peptide protein	985.705	82.9803	5.21939	161.128	OK	850.077	71.9195	6.51447	137.481	OK	665.785	53.2455	17.3544	89.171	OK	732.521	60.1724	20.3718	100.134	OK	-0.20639	-0.64011	-0.46367	-1.15379	-1.55845	-1.37904
RSc0269		putative propionyl-CoA carboxylase (beta subunit) protei	2339.53	104.196	46.8589	161.523	OK	2042.39	91.2018	40.7312	141.418	OK	1625.01	69.9735	39.5887	100.157	OK	1801.39	78.688	44.4484	112.8	OK	-0.19217	-0.57442	-0.40508	-1.14248	-1.48908	-1.32417
RSc0270		hypothetical protein	197.75	46.6116	1.33243	91.6419	OK	186.759	44.6324	1.18439	87.9407	OK	148.94	31.2907	3.79729	58.5659	OK	174.971	39.4986	7.01038	71.8564	OK	-0.0626	-0.57496	-0.23889	-1.04434	-1.48963	-1.18008
RSc0271		hypothetical protein	683.503	83.3671	21.3737	145.229	OK	672.518	82.6212	22.4003	142.896	OK	597.984	68.1569	30.0164	105.978	OK	513.128	60.7735	24.676	96.8627	OK	-0.01297	-0.29062	-0.45604	-1.00903	-1.22316	-1.37177
RSc0272		hypothetical protein	533.417	129.994	7.7984	255.398	OK	509.678	125.988	6.92134	249.415	OK	413.476	89.5314	22.9525	156.337	OK	401.618	93.6555	26.8175	160.439	OK	-0.04516	-0.53798	-0.47301	-1.0318	-1.45194	-1.388
RSc0273		putative 2-hydroxychromene-2-carboxylate isomerase protei	733.194	106.346	43.7842	165.891	OK	712.077	104.174	42.7214	164.935	OK	583.535	78.3115	40.8867	113.854	OK	582.935	81.8602	40.7818	122.87	OK	-0.02977	-0.44147	-0.37753	-1.02085	-1.35799	-1.29912
RSc0274		putative acyl CoA dehydrogenase oxidoreductase protei	1898.4	126.169	55.6889	196.506	OK	1377.23	91.8923	40.1439	143.379	OK	1110.38	70.6572	39.5457	101.617	OK	1262.87	82.0863	45.1069	118.862	OK	-0.45734	-0.83645	-0.62014	-1.37301	-1.78565	-1.53703
RSc0275		short chain dehydrogenase	1267.63	148.698	61.5931	234.959	OK	898.837	106.172	45.0173	167.116	OK	680.235	74.7167	40.2099	108.835	OK	670.874	76.4631	39.6737	112.498	OK	-0.48598	-0.99288	-0.95955	-1.40054	-1.99016	-1.9447
RSc0276	***atoB***	acetyl-CoA acetyltransferase	2961.17	186.962	84.07	289.586	OK	1953.15	123.779	54.5937	192.658	OK	1726.15	104.502	58.3717	149.853	OK	1718.89	106.186	58.6404	153.454	OK	-0.59498	-0.83921	-0.81615	-1.51045	-1.78908	-1.7607
RSc0277		carbonic anhydrase protein	1937.95	240.471	98.7293	381.867	OK	2204.31	275.538	112.442	434.352	OK	1880.65	217.87	114.189	319.151	OK	2341.71	282.079	143.016	409.457	OK	0.196388	-0.1424	0.230236	1.145826	-1.10374	1.173027
RSc0278	***aceK***	bifunctional isocitrate dehydrogenase kinase/phosphatase protei	3299.88	127.637	56.7166	198.385	OK	3098.55	120.123	54.3901	185.871	OK	2354.15	88.2686	50.1785	126.229	OK	3268.24	124.08	70.382	177.763	OK	-0.08753	-0.53207	-0.04078	-1.06255	-1.44601	-1.02867
RSc0279		acyl-CoA dehydrogenase oxidoreductase protein	2279.7	143.935	63.9651	223.388	OK	1678.99	106.404	46.7479	165.797	OK	2097.39	126.977	71.0565	182.855	OK	1994.49	123.212	67.724	178.555	OK	-0.43587	-0.18085	-0.22427	-1.35272	-1.13355	-1.16819
RSc0280		putative transcription regulator protein	489.81	93.8645	36.9853	136.432	OK	477.478	92.5433	35.9508	142.122	OK	606.876	105.516	51.6673	155.257	OK	638.236	117.73	53.9636	164.697	OK	-0.02045	0.16881	0.32683	-1.01428	1.124131	1.254255
RSc0281		hypothetical protein	2146.85	150.608	66.6669	234.229	OK	2150.03	151.458	67.2036	235.302	OK	999.234	67.0073	37.4131	96.121	OK	2117.78	145.233	79.2968	209.419	OK	0.008119	-1.16841	-0.05243	1.005644	-2.24764	-1.03701
RSc0282		hypothetical protein	749.42	216.835	70.6063	280.916	OK	705.637	207.579	66.7489	263.809	OK	320.11	80.8934	36.2329	97.9445	OK	707.137	194.906	77.4291	237.582	OK	-0.06294	-1.4225	-0.15382	-1.04459	-2.6805	-1.11251
RSc0283		hypothetical protein	703.785	66.2633	18.6504	113.806	OK	1025.8	97.1206	28.3182	165.722	OK	725.806	64.6361	28.5367	100.704	OK	706.23	64.7992	28.6117	100.93	OK	0.551567	-0.03587	-0.03223	1.465677	-1.02517	-1.02259
RSc0284		short chain dehydrogenase	626.714	63.1622	7.96187	118.924	OK	860.197	87.2115	10.4427	164.751	OK	668.008	63.4941	23.5724	103.414	OK	652.742	64.0543	23.7478	104.804	OK	0.465457	0.007561	0.020234	1.380755	1.005255	1.014124
RSc0285	***dsbA1***	thiol:disulfide interchange signal peptide protei	14115.3	1836.42	668.81	2999.6	OK	15929.7	2088.5	746.738	3428.94	OK	16511.3	2000.34	972.797	3023.6	OK	16615.9	2096.95	990.493	3202.59	OK	0.185571	0.123349	0.191396	1.137267	1.089261	1.141868
RSc0286		hypothetical protein	2208.71	256.291	106.796	403.562	OK	2691.91	314.512	130.149	498.232	OK	2674.26	290.724	154.354	426.202	OK	2702.53	304.742	156.481	449.506	OK	0.295332	0.181867	0.249806	1.227168	1.134351	1.189047
RSc0287	***argS***	arginyl-tRNA synthetase	3417.52	134.12	60.5076	207.562	OK	5226.5	205.589	89.797	321.505	OK	2431.95	92.4961	52.714	132.137	OK	2950.03	113.628	64.4125	162.758	OK	0.616239	-0.53606	-0.23921	1.532874	-1.45001	-1.18034
RSc0288		hypothetical protein	4259.22	1737.63	468.629	1936.69	OK	3418.71	1425.53	379.723	1548.46	OK	5929.82	2031.28	756.985	2513.49	OK	4474	1723.98	576.979	1882.57	OK	-0.28562	0.225268	-0.01138	-1.21894	1.168995	-1.00792
RSc0289	***vsrA***	transmembrane sensor kinase vsrA transcription regulator protei	3220.78	164.228	73.8013	254.305	OK	3730.59	190.797	85.5064	295.747	OK	2111.84	103.813	58.5828	148.463	OK	4269.11	213.324	118.28	308.251	OK	0.216338	-0.66171	0.377346	1.161781	-1.58196	1.29895
RSc0290		entericidin precursor lipoprotei	303.216	1678.05	83.1275	302.365	OK	195.039	1153.5	53.8959	190.006	OK	84.4736	258.094	25.2324	73.8949	OK	138.708	700.902	42.3544	117.601	OK	-0.54077	-2.70082	-1.2595	-1.45475	-6.5017	-2.39413
RSc0291		putative transcription regulator protei	2257.39	520.701	179.476	741.999	OK	2219.03	518.82	176.555	729.732	OK	1223.76	252.096	114.53	365.631	OK	1814.98	401.173	170.858	543.548	OK	-0.00522	-1.04648	-0.37623	-1.00363	-2.06549	-1.29795
RSc0292	***vsrD***	response regulator transcription regulator protei	1517.09	207.433	82.7141	330.246	OK	2080.11	286.727	114.762	457.827	OK	1958.45	248.647	128.167	368.744	OK	2007.18	265.99	131.279	390.122	OK	0.467032	0.261454	0.358727	1.382263	1.198686	1.282294
RSc0293		putative signal peptide protein	9840.83	2809.84	829.558	4157.44	OK	3262.31	946.868	295.712	1218.63	OK	3412.29	852.135	363.788	1174.1	OK	4295.4	1168.75	454.735	1486.02	OK	-1.56925	-1.72133	-1.26552	-2.96751	-3.29741	-2.40414
RSc0294	***metHb***	5-methyltetrahydrofolate--homocysteinemethyltransferas	7824.8	197.153	80.6079	313.546	OK	8819.09	222.536	89.0904	354.869	OK	8609.64	211.566	116.334	306.602	OK	9169.21	227.161	124.212	330	OK	0.174723	0.101792	0.2044	1.128748	1.073106	1.152207
RSc0295	***metHa***	5-methyltetrahydrofolate--homocysteinemethyltransferas	2493.67	182.701	81.7849	283.896	OK	3210.79	236.261	104.799	367.166	OK	3555.67	248.675	136.767	360.134	OK	2645.42	189.39	103.384	273.778	OK	0.370897	0.444777	0.051876	1.293157	1.361104	1.036612
RSc0296		hypothetical protein	1080.02	300.46	97.0112	401.318	OK	1194.16	337.577	106.188	444.744	OK	1414.93	345.205	148.725	475.275	OK	1407.02	373.269	148.24	472.365	OK	0.168044	0.20028	0.313043	1.123534	1.148922	1.242325
RSc0297		hypothetical protein	6047.08	3855.79	799.022	3738.5	OK	6474.02	4251.1	850.442	4012.33	OK	11057.2	5581.68	1711.41	5443.52	OK	6964.39	4161.09	1099.24	3364.47	OK	0.14081	0.533673	0.109935	1.102524	1.44761	1.07918
RSc0298	***pcaD2***	B-ketoadipate enol-lactone hydrolase protein	1352.81	128.498	43.7007	213.367	OK	1312.84	125.403	42.3206	208.46	OK	653.559	58.6959	26.6228	90.5325	OK	1060.71	98.1743	43.7914	152.098	OK	-0.03517	-1.13041	-0.38833	-1.02468	-2.18922	-1.30888
RSc0299		putative prolin-rich signal peptide protei	851.844	60.551	2.91437	122.119	OK	796.717	56.8708	2.7125	113.996	OK	527.96	35.8585	12.2933	59.5649	OK	923.811	64.1844	22.5108	106.023	OK	-0.09046	-0.75584	0.084072	-1.06471	-1.68861	1.060006
RSc0300		transcription regulator protein	1167.23	105.724	45.7372	165.761	OK	1085.6	98.8583	42.7865	154.326	OK	1053.7	90.4143	49.0496	130.993	OK	1291.88	114.086	60.6206	167.089	OK	-0.09687	-0.22568	0.109819	-1.06945	-1.16933	1.079093
RSc0301		hypothetical protein	1231.12	95.4087	41.8963	148.842	OK	1586.99	123.553	53.8945	192.944	OK	931.433	68.7764	38.1318	98.7203	OK	1204.85	91.19	49.2642	133.141	OK	0.372937	-0.47221	-0.06525	1.294987	-1.38723	-1.04626
RSc0302		transcription regulator protein	1936.93	171.817	74.1917	268.845	OK	2189.59	195.251	84.345	305.397	OK	1952.9	164.244	88.7868	239.746	OK	2095.12	181.241	96.4421	265.86	OK	0.184457	-0.06503	0.077037	1.136389	-1.04611	1.054849
RSc0303		hypothetical protein	44.6204	58.5553	8.4567	31.2247	OK	40.4799	55.3792	7.80618	27.6469	OK	84.4736	78.8565	17.9685	52.6221	OK	103.351	126.593	22.1398	64.4942	OK	-0.08046	0.42943	1.112326	-1.05735	1.346701	2.161939
RSc0304		enoyl-CoA hydratase	3229.91	316.602	135.722	494.449	OK	2299.07	226.669	96.6408	355.503	OK	2121.84	196.392	105.731	286.241	OK	3007.15	287.112	150.955	422.923	OK	-0.48208	-0.68893	-0.14106	-1.39676	-1.61209	-1.10271
RSc0305		hypothetical protein	4739.9	422.202	180.905	663.148	OK	3199.75	286.519	124.509	447.314	OK	2654.25	224.12	122.11	326.201	OK	3745.11	325.305	172.145	475.518	OK	-0.5593	-0.91366	-0.37614	-1.47356	-1.88382	-1.29787
RSc0306		hypothetical protein	4044.23	256.855	114.509	396.044	OK	2629.35	167.622	75.1345	259.794	OK	1548.31	94.2749	52.4568	135.545	OK	2207.54	137.174	75.7409	198.374	OK	-0.61574	-1.44601	-0.90495	-1.53235	-2.72453	-1.87248
RSc0307		putative glutathione peroxidase transmembrane protei	1455.23	173.551	71.2814	274.667	OK	771.877	92.7057	39.6314	145.774	OK	1057.03	117.939	62.1741	173.4	OK	912.932	105.759	54.3005	152.856	OK	-0.90463	-0.55732	-0.71458	-1.87206	-1.47153	-1.641
RSc0308		hypothetical protein	5062.39	460.48	194.98	723.808	OK	6792.33	621.169	254.865	981.486	OK	5113.99	440.6	235.797	644.152	OK	3872.03	343.371	181.321	505.186	OK	0.431847	-0.06367	-0.42337	1.34896	-1.04512	-1.34106
RSc0309	***aut***	putative transferase protein	319.442	60.675	24.6806	93.0665	OK	546.478	104.97	40.3631	155.154	OK	439.04	75.7131	37.7893	110.832	OK	387.112	70.7909	33.3509	91.0493	OK	0.790803	0.319441	0.222462	1.730037	1.247847	1.166723
RSc0310		putative signal peptide protein	645.982	63.3204	28.4654	97.9776	OK	1015.68	100.137	43.0126	156.402	OK	666.897	61.7261	34.0542	89.208	OK	641.863	61.2829	32.8906	89.3631	OK	0.661233	-0.03679	-0.04719	1.581433	-1.02583	-1.03325
RSc0311		pantothenate kinase	790.998	70.1662	15.23	124.741	OK	928.277	82.7765	21.5395	143.959	OK	540.186	45.4312	15.0959	75.7657	OK	722.549	62.5051	24.039	100.878	OK	0.238445	-0.62709	-0.1668	1.17972	-1.54445	-1.12257
RSc0312	***birA***	biotin--protein ligase	1105.37	99.7007	17.6786	181.746	OK	1115.04	101.11	15.8688	187.705	OK	1113.72	95.1789	44.8668	145.71	OK	1114.19	97.986	43.7079	152.758	OK	0.02025	-0.06696	-0.02503	1.014135	-1.04751	-1.0175
RSc0313		hypothetical protein	1936.93	129.532	26.3901	232.359	OK	1410.35	94.6908	19.2344	170.19	OK	1308.23	83.7501	31.9635	135.591	OK	1931.03	126.291	51.4465	200.929	OK	-0.45201	-0.62915	-0.03656	-1.36795	-1.54665	-1.02566
RSc0314		ABC transporter ATP-binding protein	1174.33	102.894	7.1078	198.659	OK	859.277	75.6805	7.03601	144.238	OK	780.269	64.8503	15.7235	114.102	OK	1064.33	90.9569	22.0979	159.714	OK	-0.44317	-0.66597	-0.1779	-1.35958	-1.58664	-1.13124
RSc0315		signal peptide protein	1545.49	119.772	4.10737	245.59	OK	1163.8	90.6054	6.22827	183.345	OK	1161.51	85.7653	20.8227	150.78	OK	1300.04	98.3946	14.6073	182.402	OK	-0.40262	-0.48182	-0.28364	-1.32191	-1.39651	-1.21726
RSc0316		lipoprotein	689.588	93.6911	39.3899	147.13	OK	463.678	63.5065	27.34	99.6393	OK	427.925	54.006	28.9688	78.6154	OK	436.974	57.5473	29.5682	81.3125	OK	-0.56101	-0.79479	-0.70316	-1.4753	-1.73483	-1.62807
RSc0317		hypothetical protein	944.127	57.0914	25.7184	88.4923	OK	820.637	49.8015	22.7267	76.4729	OK	736.921	42.7793	24.5428	60.7874	OK	798.702	47.2723	26.821	67.6221	OK	-0.19708	-0.41636	-0.27228	-1.14638	-1.33456	-1.20771
RSc0318		hypothetical protein	4.0564	2.3896	0.241202	3.85924	OK	5.51998	3.3442	0.482404	4.10044	OK	6.66897	3.14443	0.713838	4.04508	OK	4.53293	2.50487	0.237946	3.80714	OK	0.484892	0.396029	0.067967	1.399481	1.315881	1.048238
RSc0319	***plcN***	non-hemolytic phospholipase C signal peptide protei	633.813	21.0294	9.9526	32.1239	OK	560.278	18.626	8.94203	28.296	OK	625.772	20.1767	11.9934	28.337	OK	548.484	17.8752	10.7245	24.9837	OK	-0.17509	-0.05972	-0.23445	-1.12903	-1.04226	-1.17646
RSc0320		hypothetical protein	2324.32	966.015	259.24	1069.26	OK	32.1999	13.6823	3.68006	14.3113	OK	50.0173	17.4146	6.454	19.5637	OK	27.1976	10.672	3.227	11.6979	OK	-6.14166	-5.79368	-6.50014	-70.6033	-55.4716	-90.5186
RSc0321	***ripAE***	Type III effector protein	971.508	35.3479	15.8336	54.8342	OK	989.916	36.0952	16.1669	55.9009	OK	1243.76	43.9136	25.189	62.578	OK	932.877	33.3258	19.2042	47.3856	OK	0.030182	0.313043	-0.08498	1.021141	1.242326	-1.06068
RSc0322	***lipA***	lipoyl synthase	3891.1	298.32	131.951	463.661	OK	4894.38	376.943	164.152	589.957	OK	5100.65	372.73	202.515	540.209	OK	6062.34	453.964	242.27	665.053	OK	0.337486	0.32127	0.605717	1.263553	1.24943	1.521735
RSc0323	***lipB***	lipoyltransferase	1730.05	211.015	86.428	334.885	OK	1653.23	203.106	82.6013	322.098	OK	2119.62	241.59	126.695	354.58	OK	1591.96	188.548	95.6657	274.659	OK	-0.05511	0.195215	-0.16241	-1.03894	1.144895	-1.11916
RSc0324		hypothetical conserved protein	2896.27	937.791	284.795	1159.22	OK	237.359	78.2686	25.5815	91.4136	OK	273.428	76.3859	33.0011	89.1207	OK	319.118	98.1447	38.6484	110.474	OK	-3.58276	-3.61789	-3.25628	-11.9817	-12.277	-9.55519
RSc0325		DNA-binding transcriptional activator GcvA	1601.26	128.742	56.1084	200.76	OK	1529.03	123.52	53.5672	193.27	OK	1677.25	128.321	70.3268	185.911	OK	1543.92	121.183	65.049	177.334	OK	-0.05974	-0.00473	-0.0873	-1.04228	-1.00328	-1.06238
RSc0326		hypothetical protein	364.062	173.962	47.5341	181.155	OK	644.918	315.794	80.6108	328.576	OK	386.8	152.119	56.8327	164.88	OK	410.683	184.735	60.2902	162.935	OK	0.860212	-0.19357	0.086685	1.815304	-1.14359	1.061927
RSc0327	***dac***	penicillin-binding transmembrane protei	3997.58	249.464	111.596	385.489	OK	5911.9	370.287	160.679	579.609	OK	5985.4	358.263	196.022	519.639	OK	5811.22	354.854	192.297	516.341	OK	0.569812	0.522187	0.508394	1.48433	1.436131	1.422466
RSc0328		hypothetical protein	1389.32	184.099	74.1406	293.283	OK	1701.07	227.185	90.9366	361.46	OK	1356.02	167.151	86.2775	246.577	OK	1355.35	174.16	86.1794	255.793	OK	0.303386	-0.13933	-0.08007	1.234037	-1.10139	-1.05707
RSc0329		putative ferredoxin 2FE-2S protei	281.92	108.983	33.0867	120.53	OK	321.999	127.116	38.2073	138.649	OK	486.835	159.062	63.7259	188.846	OK	340.876	124.617	45.2687	122.206	OK	0.222043	0.545486	0.193398	1.166384	1.459512	1.143454
RSc0330	***dctA1***	C4-dicarboxylate transporter DctA	3546.31	203.008	91.2222	314.699	OK	3746.23	215.179	96.0761	334.215	OK	4340.39	238.87	132.543	345.055	OK	5776.77	323.807	176.921	470.835	OK	0.084001	0.234689	0.673598	1.059953	1.176653	1.595046
RSc0331	***dctB2***	C4-dicarboxylate transport sensor kinase transcription regulator	1001.93	35.1444	15.6973	54.5378	OK	1119.64	39.3545	17.4057	61.3066	OK	871.412	29.6784	17.2025	42.1	OK	987.272	34.007	19.5873	48.3641	OK	0.163234	-0.24388	-0.04746	1.119794	-1.18417	-1.03345
RSc0332	***dctD2***	C4-dicarboxylate transport response regulator transcription regulator protein	1029.31	57.3925	25.7702	88.7531	OK	1494.99	83.6331	37.0171	130.22	OK	951.44	51.0354	28.992	72.9383	OK	1285.54	70.2005	39.1706	101.062	OK	0.543212	-0.16936	0.290619	1.457213	-1.12456	1.223165
RSc0333		putative transmembrane protein	1861.89	249.804	100.614	398.845	OK	1642.19	222.085	88.4761	355.61	OK	1926.22	240.234	124.193	355.163	OK	1430.59	186.087	91.8338	273.621	OK	-0.16968	-0.05636	-0.42482	-1.12481	-1.03984	-1.3424

RSc0334		hypothetical protein	2329.39	423.72	158.631	653.87	OK	880.437	161.886	61.156	247.245	OK	895.865	148.449	72.6427	223.592	OK	873.949	153.204	70.6727	218.544	OK	-1.38813	-1.51314	-1.46766	-2.6174	-2.85431	-2.76572
RSc0335		putative transmembrane protein	1347.74	212.727	81.5746	338.388	OK	866.637	138.075	54.5714	220.206	OK	681.346	98.9637	50.268	142.556	OK	603.786	92.1185	45.0294	135.534	OK	-0.62355	-1.10403	-1.20744	-1.54066	-2.14955	-2.30928
RSc0336		signal peptide protein	5295.63	1103.32	387.637	1780.53	OK	1906.23	402.06	140.971	589.727	OK	2008.47	377.069	176.701	565.58	OK	2161.3	432.586	190.999	606.18	OK	-1.45637	-1.54895	-1.35079	-2.74417	-2.92604	-2.55052
RSc0337		polyphenol oxidase B precursor	40658.3	1970.22	688.931	3250.46	OK	4705.78	228.686	101.806	354.961	OK	5938.72	277.75	153.141	401.813	OK	7554.58	358.867	194.941	522.314	OK	-3.10692	-2.8265	-2.45684	-8.61539	-7.0935	-5.49011
RSc0338		Mg(2+) chelatase family protein	208.905	9.81299	4.99916	14.6194	OK	205.159	9.66382	4.95715	14.4094	OK	172.282	7.81584	4.72446	10.858	OK	187.663	8.64319	5.18033	12.0598	OK	-0.0221	-0.32829	-0.18313	-1.01544	-1.25553	-1.13534
RSc0339		hypothetical protein	572.967	104.224	41.0619	157.633	OK	425.958	78.3209	31.4516	113.825	OK	691.35	114.56	56.2673	172.742	OK	545.765	95.673	45.0631	134.574	OK	-0.41222	0.136416	-0.1235	-1.33073	1.099171	-1.08938
RSc0340		hypothetical protein	1835.52	1109.55	241.992	1014.07	OK	1859.31	1156.39	245.163	1027	OK	2945.46	1420.05	460.363	1486.98	OK	2096.03	1188.09	329.69	1050.68	OK	0.059653	0.355967	0.098669	1.042215	1.279843	1.070785
RSc0341		signal peptide protein	425.922	42.5264	19.9507	64.7202	OK	503.238	50.5436	23.1429	77.6483	OK	273.428	25.758	14.7217	36.6862	OK	509.501	49.5389	27.0029	71.0893	OK	0.24917	-0.72334	0.220203	1.188523	-1.651	1.164898
RSc0342	***glnK***	nitrogen regulatory P-II transcription regulator protei	414.767	149.815	46.3535	180.285	OK	316.479	116.611	36.0949	131.082	OK	332.337	102.28	42.5418	115.444	OK	366.261	125.313	46.8522	126.876	OK	-0.36148	-0.55066	-0.25765	-1.28474	-1.46475	-1.19553
RSc0343	***amtB***	ammonium transporte	6828.95	382.758	163.434	602.009	OK	2595.31	145.948	65.8256	226.067	OK	3091.07	166.65	93.5286	239.443	OK	3062.45	168.101	93.5286	242.011	OK	-1.39098	-1.19961	-1.1871	-2.62256	-2.29678	-2.27695
RSc0344	***gshA***	Glutamate--cysteine ligase GshA	5182.05	294.292	129.2	459.056	OK	7339.73	418.229	178.444	657.973	OK	8547.39	466.76	254.666	678.651	OK	4664.38	259.394	143.24	375.111	OK	0.507045	0.665433	-0.1821	1.421136	1.586044	-1.13454
RSc0345	***gshB***	glutathione synthetase	2928.72	231.994	103.108	359.457	OK	3721.39	296.167	130.189	458.469	OK	4265.92	321.723	175.217	467.723	OK	2807.7	217.159	117.094	316.615	OK	0.352323	0.471732	-0.09534	1.276615	1.386773	-1.06831
RSc0346		hypothetical protein	2213.78	409.626	142.566	675.2	OK	2652.35	496.176	172.494	810.442	OK	2664.25	448.497	208.533	674.058	OK	3188.46	568.349	251.76	800.747	OK	0.276545	0.130791	0.47247	1.21129	1.094894	1.387483
RSc0347	***pstH***	phosphohistidinoprotein-hexosephosphotransferase	691.616	397.273	5.16971	898.381	OK	860.197	507.931	5.90482	1143.76	OK	784.715	362.018	40.1363	703.077	OK	766.065	412.926	25.8731	837.102	OK	0.354502	-0.13407	0.055753	1.278544	-1.09738	1.039401
RSc0348	***ptsI***	phosphoenolpyruvate-protein phosphotransferase transmembran	4566.49	183.918	81.2966	285.873	OK	6015.86	242.869	104.153	381.286	OK	5349.62	208.714	116.601	300.594	OK	5955.36	235.38	130.671	339.629	OK	0.401116	0.182465	0.355929	1.320529	1.134821	1.279809
RSc0349	***bfd***	putative bacterioferritin-associated ferredoxin protei	805.195	440.45	105.002	421.873	OK	798.557	448.663	103.602	419.306	OK	4906.14	2169.7	727.621	2381.74	OK	523.1	268.718	80.7956	240.545	OK	0.026654	2.300445	-0.71289	1.018647	4.926098	-1.63908
RSc0350	***bfr***	bacterioferritin	5142.5	1041.16	370.306	1694.42	OK	7504.41	1537.61	523.661	2519.15	OK	2150.74	393.318	186.492	592.035	OK	5368.8	1044.95	457.427	1500.01	OK	0.562498	-1.40442	0.005242	1.476824	-2.64712	1.00364
RSc0351	***thiF***	molybdopterin biosynthesis protein MoeE	825.477	90.4099	39.3275	141.167	OK	1098.48	121.092	51.0914	190.799	OK	754.705	77.6601	41.7614	113.086	OK	799.609	85.1763	44.8957	124.183	OK	0.421551	-0.21931	-0.08603	1.339367	-1.16417	-1.06144
RSc0352		putative carboxy-terminal processing protease transmembran	21863	946.231	342.301	1549.84	OK	22912.5	994.192	360.528	1629.19	OK	25845.6	1082.12	527.774	1635.61	OK	25126.9	1066.79	522.461	1610.89	OK	0.071332	0.193596	0.173012	1.050686	1.143611	1.12741
RSc0353	***gpmA***	phosphoglyceromutase	4364.69	437.831	185.513	689.507	OK	4127.1	416.462	176.061	655.705	OK	5278.49	499.478	263.451	735.038	OK	3092.36	302.058	158.355	445.511	OK	-0.07219	0.190047	-0.53555	-1.05131	1.140801	-1.44949
RSc0354		hypothetical protein	723.053	158.307	57.6219	227.804	OK	862.957	191.385	67.9317	273.987	OK	712.468	139.962	65.3428	201.741	OK	507.688	106.653	47.5094	140.996	OK	0.273753	-0.17769	-0.5698	1.208948	-1.13107	-1.48432
RSc0355	***grxC***	glutaredoxin 3 (GRX3) protein	958.325	611.055	132.546	540.17	OK	1019.36	669.35	139.785	576.863	OK	1013.68	511.71	162.769	508.253	OK	417.03	249.167	69.1953	204.877	OK	0.131459	-0.25598	-1.29419	1.095401	-1.19414	-2.45239
RSc0356	***secB***	preprotein translocase subunit SecB	5087.74	910.059	336.07	1416.95	OK	7707.73	1393.37	492.26	2187.17	OK	7748.23	1264.13	601.238	1856.66	OK	5787.64	998.055	450.198	1494.45	OK	0.614546	0.474113	0.133159	1.531077	1.389064	1.096693
RSc0357	***gpsA***	NAD(P)H-dependent glycerol-3-phosphate dehydrogenase	1186.5	89.3697	39.2612	139.504	OK	1789.39	135.382	59.3984	211.187	OK	998.122	71.7007	39.9181	103.137	OK	1125.98	82.8516	45.1031	120.254	OK	0.599178	-0.3178	-0.10926	1.514853	-1.24643	-1.07867
RSc0358	***yibK***	putative tRNA/rRNA methyltransferase protei	595.277	124.023	46.7625	179.53	OK	673.438	142.04	52.0951	205.372	OK	459.047	86.1813	41.5451	123.421	OK	567.523	113.59	50.9871	154.58	OK	0.19569	-0.52516	-0.12677	1.145271	-1.43909	-1.09185
RSc0359		putative competence protein F-related protei	108.509	12.4563	0	35.3626	OK	145.359	16.8003	0	40.0836	OK	70.0242	7.5351	0	18.8046	OK	88.8454	9.91279	0	23.2861	OK	0.431611	-0.72518	-0.32951	1.348739	-1.6531	-1.25659
RSc0360	***bioC***	putative biotin synthesis protein (methyltransferase	1547.52	105.797	38.0798	173.923	OK	1460.95	100.284	34.6644	166.183	OK	1376.03	89.995	48.7244	131.262	OK	1517.62	101.447	54.4128	148.465	OK	-0.07721	-0.23338	-0.06057	-1.05497	-1.17559	-1.04288
RSc0361		hypothetical protein	2445	444.749	167.368	685.197	OK	1652.31	303.811	111.329	468.779	OK	1257.1	208.307	100.715	314.58	OK	1413.37	247.764	113.15	361.49	OK	-0.54982	-1.09428	-0.84402	-1.4639	-2.13507	-1.79505
RSc0362	***coxB***	putative cytochrome C oxidase polypeptide II precursor (cytochrome AA3 subunit 2) transmembrane protei	10255.6	653.28	266.114	1038.98	OK	7070.17	452.067	192.654	709.015	OK	5477.45	334.477	184.15	484.584	OK	5017.05	312.671	170.447	453.441	OK	-0.53116	-0.96579	-1.06306	-1.4451	-1.95314	-2.08935
RSc0363	***coxA***	cytochrome C oxidase polypeptide I	17996.2	803.167	300.739	1305.92	OK	8966.29	401.219	165.155	636.547	OK	6901.27	297.778	165.578	430.115	OK	7608.98	333.061	182.282	483.276	OK	-1.00131	-1.43146	-1.26991	-2.00182	-2.6972	-2.41147
RSc0364		hypothetical protein	52.7332	437.714	15.1245	53.1796	OK	28.5199	254.926	7.80618	29.7611	OK	27.7874	117.127	8.1821	29.3593	OK	27.1976	201.324	7.7008	27.9154	OK	-0.77991	-1.90191	-1.12047	-1.71702	-3.73709	-2.17418
RSc0365	***ctaG***	cytochrome C oxidase assembly protein	2032.26	292.79	116.324	468.678	OK	1138.04	165.363	65.247	264.266	OK	631.329	84.192	43.8149	123.203	OK	830.433	115.848	57.0637	163.784	OK	-0.82423	-1.79811	-1.33763	-1.77059	-3.47765	-2.52736
RSc0366		hypothetical protein	325.526	342.026	59.261	215.275	OK	158.239	172.684	28.7234	101.59	OK	153.386	118.641	31.0201	86.2001	OK	156.839	153.867	31.9149	87.9898	OK	-0.98597	-1.5275	-1.15242	-1.98065	-2.88287	-2.22287
RSc0367	***coxC***	cytochrome C oxidase subunit III transmembrane protei	9458.51	871.434	345.267	1397.08	OK	3617.43	335.102	144.809	525.306	OK	3336.71	291.029	157.169	423.027	OK	3277.31	294.329	155.988	431.882	OK	-1.37879	-1.58223	-1.56596	-2.6005	-2.99432	-2.96075
RSc0368		hypothetical protein	205.862	225.476	38.0272	135.242	OK	140.759	160.239	26.0671	89.8547	OK	203.404	162.972	42.0519	114.962	OK	155.933	159.454	32.0683	88.9442	OK	-0.49275	-0.46835	-0.49983	-1.40712	-1.38353	-1.41405
RSc0369		putative transmembrane cytochrome oxidase complex biogenesis factor transmembrane protein	550.656	58.2307	26.2282	90.0444	OK	342.239	36.418	17.0399	55.714	OK	280.097	27.8742	15.7387	39.8824	OK	258.377	26.5868	14.5027	38.3991	OK	-0.67713	-1.06285	-1.13107	-1.59895	-2.08905	-2.19021
RSc0370		hypothetical protein	644.968	85.4651	36.5734	134.268	OK	434.238	57.9943	25.343	89.1477	OK	397.915	49.0493	26.4715	71.473	OK	408.87	52.5392	27.1578	74.7085	OK	-0.55942	-0.8011	-0.70194	-1.47368	-1.74243	-1.62669
RSc0371	***ctaA***	putative heme O oxygenase (cytochrome aa3- controlling) transmembrane protein	740.293	51.2638	23.4722	79.0269	OK	590.638	41.0681	19.3439	62.5138	OK	444.598	29.4412	17.1047	41.7726	OK	456.919	30.9339	17.6865	44.0998	OK	-0.31992	-0.8001	-0.72875	-1.24826	-1.74123	-1.6572
RSc0372	***ctaB***	protoheme IX farnesyltransferase	918.775	76.7439	34.0297	119	OK	836.277	70.1987	31.4757	108.646	OK	851.405	67.5798	37.4516	97.5104	OK	762.439	62.1478	33.9108	89.8839	OK	-0.12861	-0.18346	-0.30435	-1.09324	-1.1356	-1.23486
RSc0373		lipoprotein	807.224	117.88	48.0604	186.902	OK	713.917	105.16	42.934	167.25	OK	1533.86	207.16	104.938	303.118	OK	917.465	129.698	63.4262	178.9	OK	-0.16473	0.813426	0.137837	-1.12096	1.75738	1.100254
RSc0374	***rpoH***	RNA polymerase factor sigma-32	18413	1562.33	576.672	2543.94	OK	18796.5	1602.88	590.657	2603.94	OK	21011.7	1693.18	841.983	2544.37	OK	17344.8	1435.92	714.92	2155.87	OK	0.036967	0.116036	-0.12172	1.025955	1.083753	-1.08803
RSc0375		hypothetical protein	350.879	8.19618	4.16985	12.2227	OK	1113.2	26.039	11.3623	40.6836	OK	622.437	14.1919	8.48829	19.8931	OK	570.243	13.1005	7.83535	18.326	OK	1.66765	0.792044	0.676598	3.176968	1.731526	1.598367
RSc0376		hypothetical protein	1239.23	327.896	106.699	448.104	OK	1398.39	375.723	119.897	506.303	OK	1790.62	417.618	183.693	583.863	OK	1628.23	411.372	166.751	531.156	OK	0.196431	0.348946	0.327205	1.14586	1.273629	1.254581
RSc0377		putative pirin-like protein	2970.3	270.182	118.142	421.863	OK	2989.07	273.355	118.883	427.933	OK	3316.7	285.753	154.521	416.168	OK	2945.5	261.206	138.382	384.038	OK	0.016844	0.080837	-0.04874	1.011744	1.057632	-1.03436
RSc0378	***trpD3***	hypothetical protein	2784.72	209.018	92.4344	324.783	OK	3286.23	247.757	108.535	385.901	OK	2799.86	200.449	111.18	289.505	OK	2173.09	159.346	86.7019	231.641	OK	0.245299	-0.06039	-0.39146	1.185338	-1.04275	-1.31172
RSc0379	***nasD***	putative nitrate ATP-binding ABC transporter protei	161.242	16.0993	7.74089	24.2601	OK	200.559	20.1435	9.65616	30.5645	OK	140.048	13.1931	7.40021	18.7367	OK	124.202	12.0762	6.53423	17.5558	OK	0.323316	-0.28721	-0.41483	1.251203	-1.22028	-1.33314
RSc0380	***nasE***	putative nitrate transmembrane ABC transporter protei	107.495	9.8614	4.77044	14.9076	OK	122.36	11.2861	5.44129	16.9947	OK	111.149	9.65473	5.44136	13.824	OK	126.015	11.2694	6.25021	16.2506	OK	0.194683	-0.03056	0.192546	1.144472	-1.02141	1.142779
RSc0381	***nasF***	putative nitrate transporter protein	297.131	17.3801	8.77036	25.9032	OK	344.999	20.2498	10.0961	30.3903	OK	373.462	20.9895	12.4749	29.4771	OK	348.129	19.9359	11.7204	28.0686	OK	0.220471	0.272231	0.197932	1.165114	1.207674	1.147053
RSc0382		response regulator transcription regulator protei	507.05	76.6519	32.31	119.821	OK	396.519	60.4817	25.629	92.9871	OK	377.908	52.7206	27.7681	75.2007	OK	552.111	80.7442	39.9774	119.5	OK	-0.34182	-0.53995	0.075037	-1.26736	-1.45393	1.053388
RSc0383		hypothetical protein	3320.16	395.962	163.479	628.047	OK	3400.31	408.391	169.442	646.854	OK	3792.42	423.142	221.275	624.908	OK	2069.74	239.77	122.357	351.686	OK	0.044589	0.09578	-0.72371	1.031389	1.068643	-1.65142
RSc0384		maleylacetoacetate isomerase (glutathione transferase zeta 1)	1843.63	242.802	60.4439	424.196	OK	2012.03	267.054	61.4332	472.867	OK	2603.12	319.019	136.529	501.324	OK	1644.55	210.047	80.2196	338.835	OK	0.137351	0.393862	-0.20907	1.099884	1.313906	-1.15594
RSc0385		hypothetical protein	802.153	108.299	6.14782	210.235	OK	1002.8	136.475	9.37291	263.449	OK	766.931	96.2166	11.9308	180.553	OK	461.452	60.3953	5.0706	115.53	OK	0.333617	-0.17066	-0.84251	1.260169	-1.12558	-1.79317
RSc0386	***ftsY***	putative cell division protein	1515.07	118.268	1.09286	243.317	OK	1878.63	147.326	8.8617	302.161	OK	1695.03	126.039	24.315	227.981	OK	1719.79	131.101	41.6218	221.068	OK	0.316952	0.09181	0.148619	1.245696	1.065707	1.108508
RSc0387		putative zinc protease protein	8889.6	425.965	105.796	746.427	OK	9764.84	469.229	112.638	825.838	OK	9521.06	440.43	186.039	695.22	OK	9592.59	450.625	198.441	701.885	OK	0.139557	0.048178	0.081192	1.101567	1.033958	1.057892
RSc0388		putative Zinc protease-like signal peptide protei	5353.43	291.679	1.36211	621.668	OK	6265.18	342.455	4.81009	730.04	OK	5943.16	311.687	65.3985	558.745	OK	5245.51	279.949	48.6728	511.598	OK	0.231533	0.095716	-0.05922	1.174082	1.068596	-1.0419
RSc0389		hypothetical protein	571.952	75.7898	32.598	118.168	OK	625.598	83.5511	35.3808	131.088	OK	439.04	54.1187	29.1186	77.4536	OK	553.924	71.1784	36.3738	100.69	OK	0.140655	-0.48588	-0.09056	1.102406	-1.40044	-1.06479
RSc0390	***coaD***	phosphopantetheine adenylyltransferase	1999.81	373.247	137.821	573.893	OK	3664.35	691.509	254.174	1041.85	OK	2583.11	438.323	211.521	625.417	OK	2296.38	412.809	188.59	598.225	OK	0.889617	0.231864	0.145344	1.852685	1.174351	1.105994
RSc0391		ferredoxin protein	564.854	392.068	84.3162	321.746	OK	891.477	638.158	128.285	519.346	OK	1229.31	667.529	203.862	650.114	OK	1331.77	865.343	220.447	704.206	OK	0.70281	0.767727	1.142168	1.627672	1.702585	2.207125
RSc0392		prolin-rich transmembrane protei	531.388	65.9375	29.0325	102.323	OK	609.958	76.2446	32.8152	118.399	OK	490.169	56.7853	30.6929	82.6564	OK	604.693	72.8404	37.6898	105.233	OK	0.209536	-0.21558	0.14364	1.156316	-1.16117	1.104689
RSc0393	***pth***	peptidyl-tRNA hydrolase	952.24	124.643	51.698	197.142	OK	980.716	129.369	53.1751	204.823	OK	1369.36	166.853	86.2631	246.744	OK	1222.08	155.152	76.9373	228.869	OK	0.05369	0.420776	0.31588	1.037916	1.338647	1.244771
RSc0394	***rplY***	50S ribosomal protein L25/general stress protein Ctc	13415.5	1882.27	679.166	3070.3	OK	28372.7	4014.04	1336.55	6685.67	OK	28121.9	3658.11	1647.01	5653.39	OK	24378.1	3313.5	1469.82	5148	OK	1.092581	0.958625	0.815882	2.132553	1.943457	1.760374
RSc0395	***prsA***	ribose-phosphate pyrophosphokinase	1863.92	152.138	66.2294	236.882	OK	3777.51	309.822	135.438	482.5	OK	1561.65	121.229	66.137	176.232	OK	1837.65	146.409	78.7631	214.11	OK	1.026059	-0.32765	-0.05538	2.036454	-1.25496	-1.03913
RSc0396	***ipk***	4-diphosphocytidyl-2-C-methyl-D-erythritolkinase	2754.3	250.534	108.149	393.142	OK	3575.11	326.949	141.534	511.951	OK	1653.9	142.494	76.8951	207.683	OK	1646.36	145.999	77.2603	213.89	OK	0.384059	-0.81411	-0.77905	1.305009	-1.75821	-1.716
RSc0397	***lolB***	outer membrane lipoprotein LolE	1221.99	168.155	0	442.936	OK	1390.11	192.854	0	471.149	OK	1481.62	189.243	0	446.536	OK	1337.21	178.322	0	405.392	OK	0.197717	0.170448	0.084693	1.146882	1.125408	1.060462
RSc0398		hypothetical protein	12975.4	472.907	136.127	810.021	OK	12874.4	470.237	131.124	809.428	OK	16802.5	594.236	272.743	916.192	OK	16636.8	595.331	272.782	917.576	OK	-0.00817	0.32948	0.332136	-1.00568	1.25656	1.258875
RSc0399	***mutM***	formamidopyrimidine-DNA glycosylase	1206.78	110.237	47.6136	172.924	OK	1150	105.619	45.5338	164.679	OK	903.645	78.1724	42.9406	113.214	OK	844.031	75.1634	40.3026	109.623	OK	-0.06174	-0.49588	-0.55251	-1.04372	-1.41018	-1.46663
RSc0400		hypothetical protein	7433.35	262.022	109.504	413.928	OK	22827	806.314	288.202	1324.96	OK	12924.5	442.313	236.367	647.007	OK	11860.9	410.555	221.099	599.733	OK	1.621654	0.75538	0.647888	3.077276	1.688076	1.566872
RSc0401	***mutY***	A/G-specific adenine glycosylase protei	670.32	46.5685	21.4079	71.6158	OK	1104.92	77.0765	34.2407	119.872	OK	414.588	27.5401	15.985	39.0874	OK	525.82	35.7127	20.2438	51.1636	OK	0.726937	-0.75782	-0.38292	1.655121	-1.69093	-1.30398
RSc0402		hypothetical protein	1829.44	240.933	97.4424	384.427	OK	2238.35	297.093	119.701	474.549	OK	2317.47	284.011	147.948	416.517	OK	2134.1	272.575	136.334	401.976	OK	0.302283	0.237315	0.178021	1.233094	1.178797	1.131331
RSc0403		hypothetical protein	3467.21	306.296	133.645	477.117	OK	4461.06	396.157	169.423	621.242	OK	5090.65	426.444	228.528	622.553	OK	3403.32	293.212	155.656	428.107	OK	0.371146	0.47743	-0.06298	1.29338	1.392261	-1.04462
RSc0404		putative signal peptide protein	31464.5	7845.06	2231.49	12908.3	OK	20230.7	5117.92	1466.2	8643.84	OK	33665	7441.77	2865.58	11096.7	OK	34760.3	8288.34	2954.52	11498.2	OK	-0.61623	-0.07614	0.079299	-1.53286	-1.05419	1.056504
RSc0405	***ptsK***	HPr kinase/phosphorylase	2306.06	182.671	80.4517	284.553	OK	3335.91	265.489	116.252	415.073	OK	2916.56	219.959	120.417	318.44	OK	3161.26	244.505	131.429	357.08	OK	0.539404	0.267987	0.420616	1.453372	1.204127	1.338499
RSc0406	***ptsN***	putative nitrogen regulatory IIA (enzyme IIA- Ntr) (phosphotransferase enzyme II, A component) transcription regulator protein	1928.82	422.3	147.586	616.046	OK	2345.07	520.087	180.633	744.566	OK	2859.88	561.814	259.699	833.574	OK	2289.13	480.89	208.986	663.041	OK	0.300485	0.411824	0.187439	1.231558	1.330367	1.13874
RSc0407		putative sigma-54 modulation protei	74678.3	24919.4	6278.55	42144.3	OK	65030.9	22109.3	5426.6	36790.4	OK	56555.1	16227.3	5154.49	25770	OK	68333.9	21641.8	5897.67	37054.5	OK	-0.17262	-0.61885	-0.20345	-1.1271	-1.53565	-1.15145
RSc0408	***rpoN1***	RNA polymerase factor sigma-54	12456.2	599.542	235.278	962.451	OK	14427.4	696.396	268.853	1123.88	OK	15432	716.993	377.886	1056.36	OK	20871.4	984.834	499.062	1470.46	OK	0.216047	0.258098	0.71602	1.161547	1.195901	1.642644
RSc0409		ABC transporter ATP-binding protein	2416.6	248.214	106.192	390.242	OK	3140.87	324.57	138.434	509.576	OK	2308.57	223.441	119.816	325.227	OK	2854.84	285.439	149.448	418.874	OK	0.386945	-0.15169	0.201598	1.307622	-1.11087	1.149971
RSc0410		putative signal peptide protein	2443.98	380.169	149.486	610.915	OK	2860.27	449.042	175.873	715.678	OK	2370.82	339.695	171.293	504.503	OK	2563.82	385.602	184.859	546.306	OK	0.240209	-0.1624	0.020472	1.181164	-1.11915	1.014291
RSc0411		hypothetical protein	999.903	136.717	55.9566	217.417	OK	1324.8	182.612	72.5401	290.669	OK	984.784	125.029	64.736	183.268	OK	1198.51	158.825	78.0846	232.146	OK	0.417589	-0.12893	0.216245	1.335693	-1.09348	1.161706
RSc0412		hypothetical protein	1474.5	222.904	86.7442	358.586	OK	1442.55	220.035	84.7727	350.81	OK	1313.79	183.281	91.9479	273.467	OK	1287.35	188.271	90.3272	282.867	OK	-0.01869	-0.28237	-0.24361	-1.01304	-1.21619	-1.18395

RSc0413		hypothetical protein	1965.33	150.676	66.0721	235.044	OK	2327.59	179.26	79.2479	278.942	OK	1616.11	118.097	64.9265	171.32	OK	1761.5	131.906	71.267	192.117	OK	0.250604	-0.35148	-0.19194	1.189705	-1.27587	-1.1423
RSc0414		putative glutathione-regulated potassium-efflux system K+/H+ antiporter transmembrane protein	1503.91	53.2745	23.386	83.1358	OK	1694.63	60.1563	26.4109	93.8693	OK	1169.29	40.2116	23.0382	57.3068	OK	1233.86	42.9198	24.418	61.3818	OK	0.175271	-0.40583	-0.3118	1.129176	-1.32485	-1.24126
RSc0415		hypothetical protein	1269.65	335.946	109.084	459.235	OK	559.358	150.289	51.3618	195.747	OK	860.297	200.644	88.9442	273.735	OK	688.099	173.848	71.5319	218.988	OK	-1.16049	-0.74359	-0.9504	-2.23533	-1.67434	-1.93241
RSc0416		hypothetical protein	1810.17	279.552	108.558	445.802	OK	524.398	81.7291	33.8133	128.135	OK	3018.82	429.635	215.393	642.887	OK	2416.05	360.814	173.587	511.545	OK	-1.77419	0.619995	0.368139	-3.42047	1.53687	1.290687
RSc0417	***apt***	adenine phosphoribosyltransferase	1816.25	219.04	90.1244	347.821	OK	2046.07	248.523	102.338	394.271	OK	1409.38	158.927	83.157	233.771	OK	1554.79	182.109	91.92	266.175	OK	0.182185	-0.46283	-0.26639	1.134601	-1.37824	-1.2028
RSc0418		transport transmembrane protein	1079	151.389	61.1861	239.974	OK	1261.32	178.445	70.6233	284.567	OK	743.59	96.7264	50.1296	139.442	OK	572.962	77.8777	39.1829	109.364	OK	0.237219	-0.64628	-0.95898	1.178718	-1.56513	-1.94393
RSc0419		hypothetical protein	2087.02	414.732	150.269	624.001	OK	1036.84	208.471	75.6645	311.139	OK	1367.14	245.772	115.821	370.209	OK	1086.09	207.574	92.8136	293.082	OK	-0.99233	-0.75486	-0.99855	-1.9894	-1.68747	-1.998
RSc0420	***uvrA1***	excinuclease ABC subunit A	4808.86	114.574	49.2954	179.896	OK	7726.13	184.339	75.348	292.805	OK	6135.45	142.656	79.6529	205.94	OK	4652.6	109.016	61.6467	156.401	OK	0.686082	0.316261	-0.07174	1.608908	1.245099	-1.05098
RSc0421		putative multidrug-efflux transporter transmembrane protein	912.69	58.6605	26.5018	90.7368	OK	1098.48	70.8699	31.4812	110.157	OK	467.939	28.8238	16.8108	40.8261	OK	756.093	47.5406	26.5807	67.8434	OK	0.272784	-1.02513	-0.30323	1.208137	-2.03514	-1.2339
RSc0422	***ssb***	single-strand DNA-binding protein	1866.96	320.6	121.007	506.933	OK	2995.51	519.655	197.76	803.393	OK	1416.04	222.46	108.962	323.337	OK	1781.44	295.184	137.948	438.096	OK	0.69678	-0.52723	-0.11916	1.620883	-1.44116	-1.0861
RSc0423		hypothetical protein	52.7332	19.6945	5.99529	21.0802	OK	61.6398	23.496	7.15567	24.9481	OK	38.9023	12.3306	4.57885	16.026	OK	55.3017	19.548	6.86828	20.9864	OK	0.254622	-0.67555	-0.01077	1.193023	-1.59721	-1.00749
RSc0424		signal peptide protein	361.02	230.196	53.6675	198.195	OK	313.719	206	47.1775	176.479	OK	208.961	105.484	34.967	96.0361	OK	393.458	235.084	65.7478	191.58	OK	-0.16022	-1.12584	0.030314	-1.11746	-2.18228	1.021234
RSc0425		hypothetical protein	600.347	111.085	9.47073	212.397	OK	527.158	98.6157	3.91457	193.203	OK	280.097	47.1511	4.8583	89.4425	OK	544.858	97.1219	20.0561	174.151	OK	-0.17177	-1.2363	-0.1938	-1.12644	-2.35594	-1.14377
RSc0426		hypothetical protein	470.542	45.9138	0	98.7952	OK	495.878	48.666	0	103.418	OK	312.33	28.7826	3.09156	54.4888	OK	545.765	51.8739	8.73366	94.9882	OK	0.083986	-0.67373	0.176081	1.059943	-1.59519	1.129811
RSc0427		3-oxoacyl-(acyl carrier protein) synthase I	1940.99	118.372	28.6022	208.631	OK	2437.99	149.218	41.2525	258.287	OK	1627.23	95.2461	46.592	143.932	OK	1800.48	107.465	46.5558	168.496	OK	0.334094	-0.3136	-0.13946	1.260585	-1.2428	-1.10149
RSc0428		hypothetical protein	241.356	22.1416	3.80145	40.4742	OK	247.479	22.8268	3.42876	42.1886	OK	147.829	12.8408	4.41192	21.3243	OK	200.355	17.9176	5.80902	30.001	OK	0.043969	-0.78602	-0.30538	1.030946	-1.72432	-1.23575
RSc0429		hypothetical protein	536.459	14.8787	4.49308	25.2666	OK	615.478	17.0983	5.33385	28.8917	OK	370.128	10.0003	5.21459	14.8062	OK	506.782	13.8158	7.00631	20.6645	OK	0.200604	-0.57321	-0.10693	1.14918	-1.48783	-1.07693
RSc0430		putative transmembrane protein	262.652	35.6853	15.8977	54.4776	OK	328.439	44.9838	19.9481	68.9577	OK	220.076	27.7745	14.9839	40.5563	OK	266.536	35.1015	18.1804	49.247	OK	0.334076	-0.36157	-0.0238	1.260569	-1.28482	-1.01663
RSc0431		hypothetical protein	451.275	35.8794	2.65025	69.1714	OK	459.998	36.7452	0.927586	72.7493	OK	225.633	17.0774	3.98707	30.1971	OK	356.288	27.6578	6.01328	49.2827	OK	0.0344	-1.07107	-0.37547	1.024131	-2.10099	-1.29726
RSc0432		hypothetical protein	1339.63	54.5686	15.9678	93.1998	OK	1658.75	67.7306	21.4778	114.004	OK	774.712	30.563	15.5436	45.6445	OK	1310.02	52.3636	26.1415	78.5843	OK	0.311737	-0.83628	-0.05951	1.241201	-1.78545	-1.04211
RSc0433		hypothetical protein	290.033	37.7337	17.056	57.4414	OK	311.879	40.8895	18.4283	63.1267	OK	215.63	26.1236	14.1181	37.326	OK	305.519	38.5569	20.2102	54.5385	OK	0.115877	-0.5305	0.031135	1.083633	-1.44443	1.021816
RSc0434		acyl carrier protein	684.518	251.383	73.7928	293.446	OK	793.037	297.167	85.1013	340.597	OK	410.142	128.085	52.5648	154.48	OK	745.214	259.126	93.2175	286.838	OK	0.241387	-0.97279	0.043767	1.182128	-1.96263	1.030802
RSc0435	***fabG***	3-ketoacyl-(acyl-carrier-protein) reductase	743.335	86.2541	37.2753	134.91	OK	977.036	114.153	48.2334	179.64	OK	261.201	28.3957	15.7721	40.7595	OK	476.864	53.772	28.3544	79.1265	OK	0.404304	-1.60292	-0.68174	1.32345	-3.03758	-1.60407
RSc0436		hypothetical protein	379.273	39.9107	18.5548	61.2392	OK	669.758	70.9181	31.1188	110.663	OK	191.177	18.9363	10.6707	27.0871	OK	292.827	29.986	16.4985	43.3394	OK	0.829378	-1.07562	-0.41249	1.776919	-2.10763	-1.33098
RSc0437		hypothetical protein	53.7473	13.7176	4.97785	17.7336	OK	66.2398	17.1586	6.22232	21.6226	OK	43.3483	9.78662	4.14336	14.8854	OK	43.5161	10.6149	4.14336	14.8854	OK	0.322904	-0.48715	-0.36994	1.250846	-1.40167	-1.2923
RSc0438		hypothetical protein	99.3818	23.4253	8.88289	31.2382	OK	71.7597	17.1494	6.36607	22.9475	OK	55.5747	11.6756	5.25779	15.6273	OK	64.3676	14.5306	6.13409	18.1102	OK	-0.44991	-1.00457	-0.68897	-1.36595	-2.00635	-1.61214
RSc0439		putative lipase/esterase protein	1309.2	106.456	46.2418	166.605	OK	1806.87	147.631	64.266	230.196	OK	1224.87	94.7376	51.6777	136.986	OK	1261.97	100.167	54.1417	146.176	OK	0.471738	-0.16825	-0.08785	1.38678	-1.12369	-1.06279
RSc0440		putative signal peptide protein	991.79	99.4886	43.0942	155.075	OK	1113.2	112.331	47.9002	176.382	OK	652.447	61.7379	33.8993	89.0549	OK	850.378	83.0637	44.2509	121.295	OK	0.175153	-0.68837	-0.26031	1.129084	-1.61147	-1.19774
RSc0441	***gntK***	thermoresistant gluconokinase (gluconate kinase 2) protein	1677.32	310.363	114.406	481.113	OK	1787.55	334.399	121.857	512.177	OK	1600.55	269.435	130.053	385.176	OK	1449.63	258.399	117.222	376.331	OK	0.107614	-0.20402	-0.26436	1.077445	-1.1519	-1.2011
RSc0442		acyl-CoA synthetase	3501.69	145.117	65.3392	224.765	OK	2064.47	85.7652	38.5805	132.893	OK	2496.42	100.165	57.0155	143.094	OK	2851.21	115.937	65.5679	165.678	OK	-0.75875	-0.53484	-0.32388	-1.69203	-1.44878	-1.25169
RSc0443		glycin-rich signal peptide protein	65.9165	3.79362	1.91041	5.63069	OK	57.9598	3.34706	1.70932	4.97713	OK	56.6862	3.13598	1.73584	4.51317	OK	42.6095	2.40111	1.28948	3.47167	OK	-0.18068	-0.27466	-0.65987	-1.13342	-1.20971	-1.57994
RSc0444		putative signal peptide protein	60.846	14.6625	5.40428	19.0651	OK	41.3998	10.1179	3.60285	13.0603	OK	48.9058	10.4826	4.59086	14.0688	OK	39.8898	9.20089	3.70231	12.884	OK	-0.53522	-0.48413	-0.67229	-1.44916	-1.39875	-1.5936
RSc0445		putative signal peptide protein	45.6345	5.41229	2.46642	8.31275	OK	36.7999	4.39523	1.91833	6.85117	OK	36.6793	4.07107	2.07266	6.12787	OK	43.5161	5.01374	2.43312	7.56972	OK	-0.3003	-0.41083	-0.11035	-1.2314	-1.32945	-1.07949
RSc0446		lipoprotein	63.8883	10.2346	4.33907	15.3009	OK	64.3998	10.4149	4.33907	15.3009	OK	47.7943	7.03854	3.37934	10.2507	OK	71.6203	11.0867	5.2943	15.8829	OK	0.025194	-0.54011	0.115375	1.017617	-1.45408	1.083257
RSc0447		hypothetical protein	1282.84	70.0725	30.9759	108.632	OK	310.039	16.99	8.5964	25.357	OK	355.678	18.6997	11.1808	26.1991	OK	359.008	19.2084	11.3229	27.0519	OK	-2.04416	-1.90583	-1.86711	-4.12434	-3.74725	-3.64801
RSc0448	***queF***	7-cyano-7-deazaguanine reductase	1056.69	101.267	44.0151	158.377	OK	1746.15	168.292	71.428	265.171	OK	1247.1	112.959	60.9416	164.771	OK	1348.09	125.874	66.1978	185.186	OK	0.732802	0.157635	0.313816	1.661864	1.115457	1.242991
RSc0449	***ilvA***	threonine dehydratase	7109.86	336.182	143.085	528.561	OK	9961.72	472.346	192.273	751.472	OK	4819.44	220.056	123.145	316.074	OK	5089.57	235.95	130.44	341.503	OK	0.490602	-0.61137	-0.51076	1.405031	-1.52771	-1.4248
RSc0450		putative ATP-sensitive inward rectifier potassium channel related transmembrane protein	723.053	61.1089	27.6701	94.3014	OK	641.238	54.4656	24.9519	83.8467	OK	551.301	44.2569	25.1651	63.3253	OK	589.281	48.5945	26.884	70.0635	OK	-0.16604	-0.46548	-0.33059	-1.12197	-1.38078	-1.25753
RSc0451		hypothetical conserved protein	914.718	169.255	64.0222	260.508	OK	263.119	49.2218	19.9517	71.725	OK	370.128	62.3069	31.3921	91.5602	OK	271.069	48.3186	23.0458	62.4104	OK	-1.78183	-1.44173	-1.80855	-3.43862	-2.71647	-3.5029
RSc0452		putative transmembrane protein	1175.34	69.6987	30.9104	108.315	OK	1117.8	66.5187	29.4655	102.897	OK	1122.61	63.9421	36.042	91.8357	OK	1079.74	62.6799	34.9729	90.3085	OK	-0.06737	-0.12437	-0.15313	-1.04781	-1.09003	-1.11198
RSc0453		hypothetical protein	808.238	123.928	49.9052	197.408	OK	687.237	106.336	42.8233	169.744	OK	808.057	114.234	58.0736	166.579	OK	693.538	102.848	49.9957	153.698	OK	-0.22087	-0.11751	-0.26899	-1.16544	-1.08486	-1.20496
RSc0454		putative oxidoreductase protein	17815.7	296.013	96.2187	495.91	OK	27099.4	450.706	136.744	765.14	OK	21839.8	355.281	164.792	545.211	OK	27556.6	450.702	206.265	694.662	OK	0.606526	0.2633	0.606513	1.522589	1.200221	1.522575
RSc0455		hypothetical protein	785.928	179.366	0	829.588	OK	1028.56	237.902	0	1150.94	OK	926.987	189.121	0	705.287	OK	898.427	196.532	0	809.601	OK	0.407461	0.076403	0.131858	1.326349	1.054386	1.095704
RSc0456		ATP-binding transport ABC transporter protein	19914.9	762.053	279.944	1243.51	OK	13911.3	533.525	205.769	860.076	OK	15291.9	567.344	297.204	837.791	OK	16925.1	635.726	329.194	942.609	OK	-0.51434	-0.42567	-0.26149	-1.42834	-1.34319	-1.19871
RSc0457		hypothetical protein	3248.16	819.327	273.666	1125.24	OK	2492.27	637.953	210.963	863.931	OK	3491.21	779.885	345.234	1117.36	OK	2905.61	700.703	287.797	928.445	OK	-0.36099	-0.07118	-0.22564	-1.28431	-1.05057	-1.16929
RSc0458	***ubiE***	ubiquinone/menaquinone biosynthesis methyltransferase	13583.9	1534.75	571.867	2495.36	OK	10884.5	1238.01	469.371	2004.7	OK	11331.7	1201.06	610.06	1788.61	OK	11809.2	1297.09	640.263	1949.78	OK	-0.30998	-0.3537	-0.24273	-1.23969	-1.27783	-1.18323
RSc0459		hypothetical protein	23675.2	1677.33	609.194	2743.03	OK	19266.6	1370.72	510.758	2229.86	OK	28393.1	1922.27	919.933	2914.62	OK	22468.8	1555.98	766.235	2336.37	OK	-0.29123	0.196644	-0.10834	-1.22369	1.14603	-1.07799
RSc0460		hypothetical protein	698.715	99.9937	18.3101	181.628	OK	712.997	102.906	12.8381	192.466	OK	476.831	63.1908	18.1667	108.17	OK	500.435	69.3552	15.0524	123.741	OK	0.041418	-0.66212	-0.52783	1.029125	-1.58241	-1.44176
RSc0461	***ubiB***	putative ubiquinone biosynthesis protein UbiE	1470.45	66.8769	18.0104	115.703	OK	1966.03	89.657	27.1338	152.223	OK	1282.66	56.3786	27.3395	85.7108	OK	1991.77	88.8367	44.2897	133.449	OK	0.422908	-0.24636	0.409648	1.340627	-1.18621	1.328362
RSc0462		hypothetical protein	429.978	59.1681	25.8626	90.5703	OK	502.318	69.6879	29.7471	109.584	OK	471.274	60.1942	31.7658	87.835	OK	487.743	65.0423	32.9759	92.0704	OK	0.236089	0.024805	0.136559	1.177795	1.017342	1.09928
RSc0463		sodium/solute symporter transmembrane protein	1878.11	94.6415	42.3079	146.87	OK	2273.31	114.898	51.3866	177.505	OK	1448.28	70.3772	39.5749	100.901	OK	1461.42	72.1743	40.1484	104.209	OK	0.279809	-0.42736	-0.39099	1.214034	-1.34478	-1.31129
RSc0464		hypothetical protein	1158.1	418.311	119.493	499.63	OK	1116.88	411.529	115.884	481.393	OK	679.123	209.008	84.334	257.875	OK	490.463	167.808	61.6575	183.661	OK	-0.02358	-1.00102	-1.31776	-1.01648	-2.00141	-2.4928
RSc0465		hypothetical protein	2166.12	244.735	102.408	386.934	OK	2428.79	276.252	115.429	434.179	OK	2299.68	243.747	129.146	358.277	OK	1607.38	176.55	90.871	261.33	OK	0.174764	-0.00584	-0.47114	1.12878	-1.00405	-1.38621
RSc0466	***aspS***	aspartyl-tRNA synthetase	12978.5	504.724	195.895	813.443	OK	20821.4	811.59	295.472	1327.23	OK	22761.2	857.987	427.318	1290.34	OK	15313.1	584.511	307.698	860.822	OK	0.685256	0.765461	0.211735	1.607988	1.699913	1.15808
RSc0467		hypothetical protein	3416.5	310.769	135.464	485.968	OK	3265.07	298.595	128.284	467.832	OK	3231.12	278.379	150.139	405.58	OK	2698	239.258	128.013	349.862	OK	-0.05765	-0.15879	-0.37728	-1.04077	-1.11635	-1.29889
RSc0468	***ntpA***	dATP pyrophosphohydrolase	1022.21	201.274	74.015	305.016	OK	1136.2	226.333	81.3902	340.311	OK	1496.07	266.686	126.284	405.095	OK	1278.29	242.122	108.355	343.642	OK	0.169286	0.405981	0.266573	1.124502	1.32499	1.202947
RSc0469		hypothetical protein	1012.07	111.415	31.985	190.789	OK	1103.08	122.227	35.0024	208.463	OK	1014.79	104.934	48.4779	161.168	OK	1105.13	118.316	52.9855	183.621	OK	0.13362	-0.08646	0.086702	1.097043	-1.06176	1.06194
RSc0470		hypothetical protein	925.873	53.8635	7.62103	100.062	OK	1020.28	59.5597	9.04829	109.922	OK	691.35	38.6505	12.2993	65.0744	OK	869.416	49.52	16.4608	82.4749	OK	0.145029	-0.47882	-0.1213	1.105753	-1.3936	-1.08771
RSc0471		putative transferase protein	806.21	34.6137	16.0809	53.2025	OK	930.117	40.0348	18.4058	61.6498	OK	739.144	30.7041	17.928	43.463	OK	746.12	31.4252	18.1191	44.648	OK	0.209911	-0.17291	-0.13942	1.156617	-1.12733	-1.10146
RSc0472		putative transcription regulator protein	4845.37	650.089	259.61	1040.25	OK	3230.11	436.83	175.347	692.862	OK	3478.98	433.89	222.756	644.42	OK	5473.06	711.92	348.533	1057.38	OK	-0.57357	-0.58331	0.131078	-1.4882	-1.49828	1.095112
RSc0473		putative acyl-CoA dehydrogenase oxidoreductase protein	28445.5	1126.64	395.843	1855.06	OK	21361.4	848.038	307.742	1388.62	OK	13801.4	529.676	281.486	775.633	OK	34298	1333.2	613.037	2053.05	OK	-0.40983	-1.08884	0.242867	-1.32853	-2.12704	1.183342
RSc0474		putative 3-hydroxyacyl-CoA dehydrogenase oxidoreductase	33169.2	919.95	309.379	1531.52	OK	26568.6	738.088	254.415	1220.27	OK	13459.1	363.646	192.846	534.289	OK	34391.3	937.574	425.258	1450.51	OK	-0.31776	-1.33902	0.027377	-1.2464	-2.5298	1.019158
RSc0475		acetyl-CoA acetyltransferase	13062.6	810.444	320.824	1300.58	OK	8689.37	541.094	224.008	858.143	OK	5450.77	324.429	178.577	470.293	OK	12258.9	744.279	392.308	1095.66	OK	-0.58283	-1.32081	-0.12287	-1.49779	-2.49806	-1.0889
RSc0476		enoyl-CoA hydratase	4240.97	452.935	189.836	714.22	OK	2391.07	256.984	108.514	403.411	OK	1327.12	133.324	70.8398	195.827	OK	3140.41	326.318	169.168	481.927	OK	-0.81763	-1.76437	-0.47303	-1.7625	-3.39725	-1.38802
RSc0477		hypothetical protein	1045.54	260.684	88.0147	363.252	OK	876.757	221.8	74.6745	302.838	OK	710.245	157.002	70.7923	218.276	OK	960.074	228.923	95.2974	299.204	OK	-0.23304	-0.73152	-0.18744	-1.17531	-1.66039	-1.13874
RSc0478		ABC transporter ATP-binding protein	1670.22	66.5205	29.5035	103.534	OK	1931.07	77.0904	34.3906	119.86	OK	1909.55	73.6859	41.783	105.422	OK	2317.23	90.5723	51.3538	129.813	OK	0.212752	0.14759	0.445271	1.158897	1.107717	1.36157
RSc0479		putative transcription regulator protein	2674.18	219.947	96.5674	342.859	OK	2265.95	187.279	81.779	291.065	OK	1800.62	140.812	77.1119	203.772	OK	2074.27	166.514	89.6165	242.697	OK	-0.23197	-0.64339	-0.40151	-1.17443	-1.56199	-1.32089
RSc0480	***gdhA***	glutamate dehydrogenase (NAD(P)+) oxidoreductase protein	47467	2681.5	939.404	4422.55	OK	60065.7	3404.56	1194.78	5610.75	OK	89075.2	4839.3	1597.37	8089.01	OK	48885.8	2704.42	1145.42	4267.69	OK	0.344428	0.851758	0.012279	1.269648	1.804699	1.008547
RSc0481		amino-acid-binding periplasmic (PBP) ABC transporter protein	46316	3824.07	1331.91	6313.55	OK	41700.7	3459.85	1203.66	5685.2	OK	104627	8212.39	2448.93	13981.3	OK	35892.6	2892.28	1308.13	4469.4	OK	-0.1444	1.102693	-0.4029	-1.10527	2.147552	-1.32216
RSc0482	***gltJ***	glutamate/aspartate transmembrane ABC transporter protein	3145.74	357.296	150.622	563.531	OK	4002.91	457.718	189.758	725.107	OK	5927.6	631.435	327.593	935.021	OK	2656.3	293.282	151.203	434.612	OK	0.357339	0.821514	-0.28483	1.281061	1.76726	-1.21827
RSc0483	***gltK***	glutamate/aspartate transmembrane ABC transporter protein	3482.42	429.634	74.0988	783.075	OK	4216.34	523.991	95.4716	950.856	OK	7079.11	815.641	152.513	1477.2	OK	2820.39	337.818	98.1767	577.079	OK	0.286434	0.924826	-0.34686	1.219622	1.898455	-1.27179
RSc0484	***gltL***	putative glutamate/aspartate transport ATP- binding ABC transporter protein	5705.33	641.23	103.962	1179.77	OK	6363.62	719.987	101.148	1341.18	OK	17955.1	1893.61	683.088	3117.29	OK	6087.72	665.21	286.617	1049.33	OK	0.167129	1.562225	0.052968	1.122822	2.95309	1.037397
RSc0485		hypothetical protein	3972.23	382.382	163.909	600.688	OK	4314.78	417.728	177.471	652.302	OK	3464.53	315.158	168.73	460.164	OK	2891.1	271.143	142.583	399.614	OK	0.127549	-0.27894	-0.49596	1.092436	-1.2133	-1.41026
RSc0486	***ttuD2***	putative hydroxypyruvate reductase oxidoreductase protein	974.55	55.1994	24.987	85.3722	OK	1077.32	61.2246	27.3667	94.9406	OK	670.231	36.5061	21.0794	51.6958	OK	780.57	43.2951	24.6986	61.6731	OK	0.149459	-0.59652	-0.35045	1.109153	-1.51206	-1.27496
RSc0487	***pyrC***	dihydroorotase	1695.58	125.081	54.8808	194.385	OK	2380.03	176.34	78.2768	274.28	OK	1591.66	112.057	61.6287	162.297	OK	1573.83	113.44	61.3832	165.366	OK	0.495497	-0.15863	-0.14093	1.409806	-1.11623	-1.10262
RSc0488		putative transmembrane protein	685.532	67.8165	30.0221	105.592	OK	934.717	93.0096	40.4784	145.12	OK	652.447	60.9213	33.5241	88.069	OK	601.973	57.9973	31.2579	83.9273	OK	0.455743	-0.15469	-0.22565	1.371489	-1.11318	-1.1693
RSc0489		hypothetical protein	1819.3	410.852	141.625	593.872	OK	1481.19	338.961	114.827	485.961	OK	1810.62	365.874	168.138	534.973	OK	1576.55	341.349	145.966	466.467	OK	-0.2775	-0.16727	-0.26737	-1.21209	-1.12293	-1.20361
RSc0490	***rplM***	50S ribosomal protein L13	6799.54	1638.54	535.474	2541.51	OK	11477	2804.9	861.682	4408.84	OK	16896.9	3621.72	1534.83	5138.8	OK	13931.5	3213.41	1283.37	4176.2	OK	0.775538	1.144264	0.971694	1.711829	2.210334	1.961142
RSc0491	***rpsI***	30S ribosomal protein S9	8212.18	2284.63	693.99	3383.43	OK	13905.7	3931.03	1120.38	6227.07	OK	23457	5722.86	2249.31	7984.13	OK	19817.1	5257.27	1944.91	6647.05	OK	0.782947	1.324776	1.202353	1.720642	2.50494	2.301147
RSc0492		hypothetical protein	1256.47	136.224	57.0749	214.414	OK	1533.63	167.343	69.5974	264.419	OK	1324.9	135.022	71.6831	197.99	OK	1401.58	147.813	76.4732	218.915	OK	0.296827	-0.01279	0.117792	1.22844	-1.0089	1.085073
RSc0493		hypothetical protein	1918.68	507.676	165.216	690.124	OK	2163.83	581.382	187.478	775.515	OK	2022.92	471.797	206.909	662.297	OK	1863.03	470.696	191.065	608.492	OK	0.195578	-0.10574	-0.10911	1.145183	-1.07605	-1.07856

RSc0494		iron-sulfur cluster insertion protein ErpA	7287.32	2196.28	652.253	3128.69	OK	8733.53	2677.7	765.255	3790.73	OK	5370.74	1407.59	585.677	1920.69	OK	7259.03	2081.87	788.131	2418.77	OK	0.285932	-0.64183	-0.07718	1.219198	-1.56031	-1.05496
RSc0495	***anmK***	anhydro-N-acetylmuramic acid kinase	3165.01	204.032	91.8033	315.57	OK	3251.27	210.393	93.6338	326.609	OK	3272.24	202.149	112.617	291.556	OK	3209.31	202.392	111.358	292.322	OK	0.044291	-0.01338	-0.01164	1.031176	-1.00931	-1.0081
RSc0496	***tyrS***	tyrosyl-tRNA synthetase	2872.95	181.927	74.6702	288.958	OK	3317.51	210.865	85.5949	336.262	OK	2553.1	155.01	81.0445	228.692	OK	2280.06	141.266	76.1948	206.222	OK	0.21296	-0.231	-0.36495	1.159064	-1.17365	-1.28783
RSc0497		D-tyrosyl-tRNA deacylase	669.306	127.129	0.949704	311.883	OK	806.837	154.981	0.38417	374.758	OK	826.952	142.609	14.4859	272.128	OK	467.798	85.5459	3.29165	176.469	OK	0.285798	0.165772	-0.57152	1.219085	1.121766	-1.48609
RSc0498		hypothetical protein	49.6909	412.461	0	343.472	OK	35.8799	320.713	0	365.427	OK	61.1322	257.678	2.8878	226.692	OK	37.17	275.143	1.4439	133.801	OK	-0.36297	-0.67869	-0.58408	-1.28608	-1.60068	-1.49908
RSc0499	***gpmB***	putative phosphoglycerate mutase 2 protein	951.226	117.355	43.6737	191.103	OK	875.837	108.846	42.9995	174.608	OK	859.185	98.9937	53.4612	144.599	OK	657.275	78.7265	44.078	113.309	OK	-0.10859	-0.24547	-0.57596	-1.07817	-1.18548	-1.49067
RSc0500	***ruvB***	Holliday junction DNA helicase B	2518.01	177.808	79.6318	275.173	OK	2498.71	177.183	79.0321	274.394	OK	2234.1	150.771	83.8215	217.569	OK	2230.2	153.94	84.1173	223.485	OK	-0.00508	-0.23796	-0.20795	-1.00353	-1.17932	-1.15505
RSc0501	***ruvA***	Holliday junction DNA helicase motor protein	769.702	118.019	47.6921	187.449	OK	590.638	91.3895	37.5119	144.183	OK	325.668	46.0393	24.2337	65.824	OK	353.568	52.4323	26.4169	71.7187	OK	-0.36892	-1.35808	-1.17049	-1.29138	-2.56344	-2.25088
RSc0502	***glpQ***	putative glycerophosphoryl diester phosphodiesterase, periplasmic precursor protein	1465.37	96.7908	42.1977	151.175	OK	514.278	34.1018	16.1994	51.9399	OK	607.988	38.4571	22.183	54.4237	OK	696.258	44.9804	25.2562	63.6992	OK	-1.50502	-1.33162	-1.10557	-2.83829	-2.51685	-2.15184
RSc0503	***ruvC***	Holliday junction resolvase	518.205	86.9034	35.5031	134.228	OK	475.638	80.5609	32.6723	120.899	OK	484.612	74.4749	37.9328	104.257	OK	555.737	89.9733	43.4016	129.507	OK	-0.10933	-0.22266	0.050084	-1.07873	-1.16688	1.035325
RSc0504	***purH***	bifunctionalphosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase	2679.25	122.113	54.8737	189.278	OK	6024.14	275.304	118.212	431.957	OK	9890.08	435.615	235.894	635.074	OK	5312.59	237.452	131.379	341.538	OK	1.172809	1.834837	0.959419	2.254502	3.567311	1.944527
RSc0505	***fis***	DNA-binding protein Fis	74.0293	60.0767	0.275218	118.344	OK	89.2397	74.8892	0.275218	148.618	OK	121.153	75.2095	8.95958	126.792	OK	85.2191	64.651	5.70155	112.402	OK	0.317952	0.324109	0.105867	1.24656	1.251891	1.076141
RSc0506		NIFR3-like protein	914.718	64.8057	23.2381	106.413	OK	1171.16	83.3217	29.952	136.598	OK	696.907	47.1819	25.1851	69.1913	OK	572.962	39.678	21.6062	57.8936	OK	0.362572	-0.45789	-0.70778	1.285716	-1.37353	-1.63329
RSc0507		amino acid dehydrogenase transmembrane protein	924.859	53.659	24.2516	82.9315	OK	894.237	52.0604	23.5934	80.2481	OK	597.984	33.3428	19.4291	47.1492	OK	715.296	40.6324	23.0252	58.0875	OK	-0.04363	-0.68644	-0.40119	-1.03071	-1.60931	-1.3206
RSc0508	***ubiH***	hypothetical protein	1716.87	102.949	7.1904	199.091	OK	1577.79	94.9455	8.18038	182.626	OK	982.561	56.5738	13.0044	100.18	OK	1300.04	76.3052	17.9389	134.671	OK	-0.11676	-0.86372	-0.43208	-1.0843	-1.81973	-1.34917
RSc0509	***pepP***	XAA-Pro aminopeptidase	4513.76	239.25	62.5985	416.617	OK	4050.75	215.381	55.4572	374.588	OK	2976.58	151.966	72.5475	231.938	OK	3830.33	198.908	94.3044	303.737	OK	-0.15163	-0.65477	-0.26642	-1.11082	-1.57437	-1.20282
RSc0510		hypothetical protein	853.872	28.2871	0.550436	58.8966	OK	688.157	22.8419	0.091739	55.7469	OK	570.197	18.3569	1.35751	35.3255	OK	661.808	21.5352	2.98653	40.0014	OK	-0.30846	-0.62382	-0.39345	-1.23839	-1.54095	-1.31353
RSc0511		nucleotidyl transferase family protein	631.784	72.1403	0.620946	143.793	OK	800.397	92.0127	3.63697	180.429	OK	681.346	72.9471	16.8017	128.901	OK	579.308	64.2967	11.8137	116.562	OK	0.351028	0.016045	-0.16606	1.275469	1.011184	-1.12199
RSc0512		Branched-chain amino acid transport	125.748	48.6113	0	110.486	OK	188.599	74.4534	0	156.965	OK	146.717	47.9366	0	95.7831	OK	137.801	50.3773	0.194286	100.446	OK	0.615046	-0.02016	0.051482	1.531607	-1.01407	1.036329
RSc0513		hypothetical protein	429.978	48.8373	0	108.925	OK	636.638	72.7973	0.088342	146.559	OK	394.581	42.0325	3.22451	80.8742	OK	396.178	43.742	3.48596	83.7502	OK	0.575902	-0.21648	-0.15896	1.490609	-1.16189	-1.11649
RSc0514		hypothetical protein	1460.3	104.843	8.40007	204.976	OK	1853.79	133.66	14.0596	257.976	OK	1249.32	85.6768	24.5512	147.239	OK	1295.51	90.9041	27.085	155.143	OK	0.350337	-0.29125	-0.20581	1.274859	-1.2237	-1.15334
RSc0515		organic solvent tolerance transmembrane protein	7195.04	203.767	24.1372	383.736	OK	8277.21	234.807	23.767	447.37	OK	6024.3	166.16	35.078	297.707	OK	6010.66	167.308	47.6748	286.857	OK	0.204555	-0.29435	-0.28441	1.152331	-1.22633	-1.21792
RSc0516	***surA***	peptidyl-prolyl cis-trans isomerase	8520.47	411.029	18.2348	806.673	OK	9841.2	476.096	28.301	933.934	OK	11508.4	535.874	199.013	874.372	OK	9065.86	428.735	152.939	704.78	OK	0.212012	0.382654	0.060846	1.158303	1.303738	1.043077
RSc0517	***pdxA***	4-hydroxythreonine-4-phosphate dehydrogenase	1022.21	76.9954	34.3219	119.113	OK	1264.08	95.6377	41.8575	149.446	OK	788.05	56.61	31.9844	80.5858	OK	805.955	59.3036	32.7965	85.7708	OK	0.312807	-0.44372	-0.37665	1.242122	-1.3601	-1.29833
RSc0518	***ksgA***	dimethyladenosine transferase	1088.13	102.45	16.9757	187.722	OK	1647.71	156.003	34.4842	277.092	OK	1353.8	120.562	55.8718	185.113	OK	1115.1	102.315	42.5046	161.833	OK	0.606654	0.234855	-0.0019	1.522723	1.176789	-1.00132
RSc0519		hypothetical protein	1161.14	100.508	17.4864	183.394	OK	1354.24	117.824	19.6899	216.021	OK	703.576	57.7956	18.0918	97.4712	OK	723.456	61.0864	19.2839	102.59	OK	0.229323	-0.79828	-0.71839	1.172285	-1.73903	-1.64534
RSc0520	***gloA***	lactoylglutathione lyase	1049.59	274.362	8.88753	568.802	OK	1031.32	273.701	3.98084	612.785	OK	272.316	62.8194	0.461371	142.333	OK	533.979	133.321	7.98961	260.911	OK	-0.00348	-2.1268	-1.04118	-1.00242	-4.36747	-2.05791
RSc0521		hypothetical protein	812.294	74.2016	14.7818	133.779	OK	847.317	77.8199	13.2962	141.95	OK	742.479	64.2302	14.3624	114.166	OK	701.697	62.4881	19.272	105.739	OK	0.068689	-0.2082	-0.24787	1.048763	-1.15524	-1.18745
RSc0522		putative acyltransferase transmembrane protein	522.262	56.91	5.47366	108.361	OK	772.797	84.755	13.9407	155.572	OK	920.318	94.244	26.7457	161.74	OK	689.912	73.1233	23.1177	123.098	OK	0.574616	0.727719	0.361649	1.489281	1.656018	1.284894
RSc0523		D,D-heptose 1,7-bisphosphate phosphatase	876.182	128.826	10.4392	254.07	OK	1003.72	148.868	7.26754	303.753	OK	1642.79	223.295	82.914	363.191	OK	954.635	135.859	42.6945	228.985	OK	0.20861	0.793527	0.076686	1.155574	1.733307	1.054593
RSc0524	***glyS***	glycyl-tRNA synthetase subunit beta	3918.48	130.618	57.9424	203.321	OK	5673.62	189.495	81.3778	297.462	OK	6520.03	211.19	117.658	304.764	OK	5040.62	165.036	92.3544	237.166	OK	0.536806	0.693188	0.337427	1.450757	1.616852	1.263501
RSc0525		putative signal peptide protein	674.377	91.6244	8.30327	174.875	OK	957.716	131.171	11.3411	250.313	OK	783.604	98.8941	29.9677	167.62	OK	522.193	68.7702	14.884	122.668	OK	0.517645	0.110153	-0.41395	1.431616	1.079342	-1.33233
RSc0526	***glyQ***	glycyl-tRNA synthetase subunit alpha	2339.53	184.641	60.849	308.902	OK	3260.47	258.526	82.5421	434.436	OK	1960.68	147.344	70.0393	224.396	OK	2071.55	159.639	79.6828	239.588	OK	0.485586	-0.32553	-0.20991	1.400155	-1.25313	-1.15662
RSc0527	***lnt***	apolipoprotein N-acyltransferase	1226.05	55.9988	25.0312	86.9741	OK	1296.28	59.3663	26.4241	92.3409	OK	1110.38	49.0095	27.9668	69.8363	OK	1440.56	64.5237	36.2114	92.5896	OK	0.084248	-0.19233	0.204433	1.060135	-1.14261	1.152234
RSc0528		hypothetical protein	3217.74	281.937	123.058	439.607	OK	2124.27	187.095	80.9141	292.999	OK	3424.52	284.621	154.048	413.203	OK	2716.13	232.118	124.088	340.039	OK	-0.5916	0.013669	-0.28051	-1.50692	1.00952	-1.21463
RSc0529		putative metalloprotease	1914.62	203.469	85.7841	319.992	OK	2736.07	292.599	122.848	461.624	OK	2369.71	236.938	126.65	345.867	OK	2834.89	293.133	152.377	432.147	OK	0.524116	0.219701	0.526746	1.438052	1.164492	1.440676
RSc0530		PHOH-like protein	1044.52	82.4361	36.6783	128.143	OK	1674.39	132.765	57.8819	206.57	OK	1153.73	86.7023	47.4863	125.179	OK	1353.53	104.307	56.0611	152.463	OK	0.687527	0.072794	0.339488	1.61052	1.051752	1.265307
RSc0531		hypothetical protein	3050.41	162.086	73.5877	250.292	OK	3845.59	204.981	91.9144	317.505	OK	2805.41	143.573	81.1022	205.853	OK	2118.69	110.294	61.8208	158.505	OK	0.338731	-0.17498	-0.55541	1.264643	-1.12894	-1.46958
RSc0532		hypothetical protein	1935.92	636.276	189.415	789.949	OK	1915.43	641.266	187.07	781.651	OK	1524.97	431.714	176.18	565.556	OK	1112.38	347.132	129.199	409.129	OK	0.01127	-0.55958	-0.87417	1.007843	-1.47384	-1.83295
RSc0533		putative transmembrane protein	1765.55	130.692	57.0997	203.312	OK	2032.27	151.096	66.5227	235.638	OK	1443.83	101.989	56.2058	147.686	OK	1449.63	104.845	56.6367	152.919	OK	0.209295	-0.35776	-0.31791	1.156123	-1.28143	-1.24653
RSc0534		lipoprotein transmembrane	1476.53	129.373	55.7137	202.536	OK	396.519	34.9232	16.6567	52.9854	OK	264.536	21.9863	12.678	31.0929	OK	335.437	28.6661	16.0777	41.0795	OK	-1.88928	-2.55686	-2.17412	-3.7045	-5.88426	-4.5131
RSc0535		putative signal peptide protein	219.046	47.4755	18.3802	68.4699	OK	121.44	26.6583	10.2424	35.2171	OK	72.2472	14.0623	6.50541	19.7931	OK	117.856	24.5156	10.9346	31.9734	OK	-0.8326	-1.75535	-0.95348	-1.78089	-3.37608	-1.93654
RSc0536	***fabG***	3-ketoacyl-(acyl-carrier-protein) reductase	2173.22	111.876	50.0441	173.149	OK	916.317	47.315	21.6493	72.924	OK	691.35	34.3037	19.9183	48.6491	OK	1346.28	67.9135	37.9481	97.7478	OK	-1.24153	-1.70546	-0.72013	-2.36449	-3.26134	-1.64733
RSc0537	***fadE***	acyl-CoA dehydrogenase	4453.93	122.266	52.9485	191.2	OK	1652.31	45.4317	19.7466	71.0003	OK	1532.75	40.9944	23.4824	58.5159	OK	2970.88	80.1664	45.4448	114.701	OK	-1.42825	-1.57652	-0.60895	-2.6912	-2.9825	-1.52515
RSc0538		putative transcription regulator protein	5860.48	438.349	189.048	688.266	OK	2610.03	196.088	87.2529	304.756	OK	2356.37	168.13	93.1548	242.761	OK	3479.48	254.259	137.434	371.315	OK	-1.16058	-1.3825	-0.78578	-2.23547	-2.6072	-1.72403
RSc0539	***rhlE1***	ATP-dependent RNA helicase protein	1293.99	57.039	25.435	88.4075	OK	2667.07	117.87	53.0524	182.45	OK	1060.37	45.2003	25.8745	64.4711	OK	1491.33	64.4793	36.2478	92.7334	OK	1.047176	-0.33562	0.176887	2.066481	-1.26192	1.130442
RSc0540		serine/threonine protein kinase	616.573	45.02	20.9118	69.0275	OK	1177.6	86.3557	37.8757	133.922	OK	678.012	47.2625	26.8366	67.4871	OK	1184.91	84.5438	46.1273	122.317	OK	0.939725	0.07013	0.909133	1.918163	1.049811	1.877916
RSc0541		pirin-like protein	867.056	75.9711	33.7441	117.961	OK	790.277	69.6034	30.9441	108.125	OK	1013.68	84.2499	45.9666	122.53	OK	779.664	66.6294	36.4049	96.7493	OK	-0.12629	0.149224	-0.18929	-1.09149	1.108973	-1.1402
RSc0542		transcription regulator protein	1088.13	92.6932	40.5488	144.306	OK	1265	108.304	46.7924	169.14	OK	1200.41	97.102	52.7354	140.904	OK	1259.25	104.658	56.1265	153.154	OK	0.224551	0.067038	0.175147	1.168414	1.047563	1.12908
RSc0543		response regulator transcription regulator protein	342.766	38.1248	17.8167	58.4041	OK	553.838	62.0083	27.5508	95.7758	OK	426.814	44.5694	24.6924	64.1318	OK	521.287	56.3796	29.9224	82.7368	OK	0.701732	0.225324	0.564443	1.626456	1.16904	1.478817
RSc0544		hypothetical protein	317.413	51.6181	22.0441	79.9819	OK	562.118	92.2969	37.3941	142.767	OK	385.689	57.6005	29.9441	81.407	OK	417.936	65.6557	32.1074	94.9558	OK	0.838405	0.158204	0.347043	1.788072	1.115897	1.271951
RSc0545		oxidoreductase protein	926.887	57.6736	25.9864	89.1499	OK	1997.31	124.736	55.4699	193.418	OK	1540.53	91.9505	51.2711	132.53	OK	1579.27	96.159	52.9695	139.271	OK	1.112895	0.672946	0.737511	2.162792	1.594326	1.667297
RSc0546		hypothetical protein	21.2961	22.3755	3.62822	16.0247	OK	20.2399	22.0875	3.32587	15.42	OK	30.0104	23.2124	5.36887	18.791	OK	23.5712	23.1245	4.17579	15.2118	OK	-0.01869	0.052976	0.047502	-1.01304	1.037403	1.033474
RSc0547		putative sugar transporter transmembrane protein	4506.66	188.218	83.4492	292.979	OK	618.238	25.8841	12.3208	39.4191	OK	1922.89	77.742	43.9203	111.255	OK	1145.92	46.9567	26.6952	67.26	OK	-2.86227	-1.27564	-2.003	-7.27157	-2.42106	-4.00833
RSc0548		hypothetical protein	77.0716	31.4428	0	67.8438	OK	25.7599	10.7413	0	25.5174	OK	26.6759	9.13789	0	20.3781	OK	24.4778	9.43209	0	21.5768	OK	-1.54956	-1.7828	-1.73708	-2.92728	-3.44093	-3.3336
RSc0549		transmembrane sensor histidine kinase transcription regulator	826.492	38.57	6.93292	70.1645	OK	346.839	16.2306	2.46411	30.0287	OK	315.665	14.2292	4.57329	23.8552	OK	325.464	14.8927	3.74927	26.0389	OK	-1.24876	-1.43862	-1.37287	-2.37638	-2.71062	-2.58986
RSc0550		response regulator transcription regulator protein	1088.13	130.495	22.4262	239.372	OK	607.198	73.3374	17.5131	129.114	OK	617.991	69.318	31.9675	106.671	OK	873.042	101.695	48.6899	154.806	OK	-0.83137	-0.91269	-0.35975	-1.77938	-1.88256	-1.2832
RSc0551	***recA***	recombinase A	12904.4	926.48	362.324	1490.22	OK	25224.5	1818.7	656.537	2981.72	OK	15276.4	1047.64	541.968	1551.27	OK	19842.4	1392.31	698.308	2084.78	OK	0.973076	0.177311	0.587649	1.963021	1.130775	1.502796
RSc0552	***recX***	recombination regulator RecX	392.457	79.4575	31.1271	116.324	OK	574.078	117.625	44.2757	169.723	OK	510.176	93.2988	45.531	134.343	OK	565.71	110.106	49.7664	150.888	OK	0.565939	0.231675	0.470638	1.480351	1.174198	1.385722
RSc0553		hypothetical protein	1269.65	175.84	70.3583	281.022	OK	1317.44	183.96	72.9262	294.683	OK	1306.01	167.824	85.8234	246.932	OK	1257.43	168.746	82.9862	244.906	OK	0.065129	-0.06731	-0.05941	1.046178	-1.04776	-1.04204
RSc0554	***sucC***	succinyl-CoA synthetase subunit beta	16018.7	1026.48	392.807	1654.34	OK	28192.4	1813.42	652.067	2962.89	OK	65089.1	3997.68	1521.76	6468.84	OK	28977.2	1816.6	864.182	2762.56	OK	0.821008	1.961457	0.823535	1.766639	3.894552	1.769737
RSc0555	***sucD***	succinyl-CoA synthetase subunit alpha	11090.2	991.964	388.523	1588.41	OK	19521.4	1755.35	638.095	2872.93	OK	57772.2	4897.71	1958.82	7808.55	OK	25830.4	2252.91	1065.27	3441.65	OK	0.823399	2.303748	1.18343	1.76957	4.937387	2.271161
RSc0556		hypothetical protein	266.708	31.9853	14.7413	49.199	OK	289.799	35.0019	15.939	53.99	OK	247.863	27.802	15.3603	39.9913	OK	335.437	39.0727	20.7228	56.4422	OK	0.130024	-0.20222	0.288752	1.094312	-1.15047	1.221583
RSc0557	***pilA1***	type 4 fimbrial pilin signal peptide protein	212.961	38.093	15.9152	58.2323	OK	393.759	71.1822	28.746	111.16	OK	202.292	33.0042	16.7957	46.0056	OK	204.888	35.3322	17.0391	46.6142	OK	0.901991	-0.20688	-0.10854	1.868643	-1.15419	-1.07814
RSc0558	***pilA***	type 4 fimbrial pilin signal peptide protein	20313.4	3791.34	1215.62	6200.66	OK	46216	8721.56	2665.46	14617.4	OK	27062.7	4592.2	1969.35	7199.62	OK	14140.9	2542.04	1102.47	3587.72	OK	1.201878	0.276478	-0.57672	2.30039	1.211234	-1.49146
RSc0559		hypothetical protein	1402.5	58.3476	25.8734	90.8016	OK	2758.15	115.028	51.5585	178.289	OK	1473.84	59.3606	33.512	85.1175	OK	1307.3	53.3628	30.1311	76.4608	OK	0.97924	0.024832	-0.12884	1.971426	1.017361	-1.09341
RSc0560	***moaC***	molybdenum cofactor biosynthesis protein C	958.325	195.868	71.6917	292.167	OK	1253.96	259.398	91.5385	385.191	OK	1653.9	305.093	143.845	457.774	OK	1042.57	204.801	90.5692	287.291	OK	0.405286	0.639367	0.064341	1.324351	1.557646	1.045607
RSc0561		putative signal peptide protein	2893.23	122.261	55.501	189.039	OK	2562.19	108.543	49.0074	167.572	OK	1544.98	63.187	35.7978	90.4364	OK	2388.85	99.0383	55.9199	141.797	OK	-0.1717	-0.95226	-0.30391	-1.12638	-1.93491	-1.23448
RSc0562		hypothetical protein	653.08	98.7276	19.4955	177.869	OK	557.518	85.0392	12.2669	157.607	OK	405.696	56.5971	20.4209	92.7043	OK	519.474	75.9712	26.4715	124.794	OK	-0.21533	-0.80273	-0.378	-1.16097	-1.74439	-1.29954
RSc0563		hypothetical protein	1154.05	77.9049	17.349	138.455	OK	1394.71	94.5276	27.178	162.119	OK	718.026	46.3872	21.7069	71.1288	OK	909.306	60.0257	27.1972	92.8138	OK	0.279022	-0.74799	-0.37613	1.213372	-1.67945	-1.29786
RSc0564		hypothetical protein	1567.8	361.637	123.399	520.903	OK	1540.99	360.292	121.062	512.141	OK	1554.98	320.329	145.647	466.619	OK	1307.3	288.957	122.165	390.266	OK	-0.00538	-0.17499	-0.32369	-1.00373	-1.12895	-1.25153
RSc0565	***rfaF***	ADP-heptose--lipopolysaccharide heptosyltransferase II protein	2871.93	214.067	95.4716	332.111	OK	3305.55	247.475	109.344	384.523	OK	2121.84	150.888	83.4084	218.15	OK	2418.77	176.141	95.9785	256.294	OK	0.20922	-0.50458	-0.28133	1.156063	-1.41871	-1.21532
RSc0566		hypothetical protein	636.855	835.743	118.068	457.963	OK	630.198	862.153	117.093	453.409	OK	560.193	522.943	120.004	359.692	OK	474.144	580.772	101.715	303.861	OK	0.044885	-0.67641	-0.52509	1.031601	-1.59815	-1.43902
RSc0567	***ilvE1***	branched-chain amino acid aminotransferase	8025.59	672.984	275.401	1069.19	OK	8268.93	696.835	283.018	1109.5	OK	7705.99	613.96	326.607	899.279	OK	6346.1	519.282	273.869	759.168	OK	0.050245	-0.13243	-0.37405	1.035441	-1.09614	-1.29599
RSc0568		hypothetical protein	674.377	68.2864	29.1338	107.335	OK	640.318	65.227	27.6811	102.735	OK	473.497	45.2087	24.7598	65.3627	OK	510.408	50.3201	26.3521	73.961	OK	-0.06613	-0.595	-0.44046	-1.0469	-1.51047	-1.35704
RSc0569		Branched-chain amino acid transport	103.438	40.6991	0	110.957	OK	91.0797	36.6065	0	99.2736	OK	71.1357	23.6056	0.663677	50.1076	OK	108.79	40.4634	1.48776	80.339	OK	-0.1529	-0.78587	-0.00838	-1.1118	-1.72413	-1.00583
RSc0570		hypothetical protein	282.934	24.7906	12.0617	37.4775	OK	271.399	23.9034	11.5592	36.1134	OK	141.16	11.7322	6.72854	16.7151	OK	286.481	24.4824	13.882	35.0592	OK	-0.05258	-1.07932	-0.01805	-1.03712	-2.11304	-1.01259
RSc0571	***pgk***	phosphoglycerate kinase	7754.82	454.841	192.487	717.1	OK	9567.04	563.08	231.844	894.1	OK	7889.39	444.584	244.193	645.047	OK	5832.97	334.936	182.578	486.874	OK	0.307978	-0.03291	-0.44148	1.237971	-1.02307	-1.35799
RSc0572	***pykA1***	pyruvate kinase	5337.21	268.951	117.934	419.948	OK	7038.89	355.759	151.119	560.289	OK	5580.82	271.193	150.49	391.999	OK	5093.2	251.536	138.755	364.071	OK	0.403557	0.011977	-0.09658	1.322765	1.008336	-1.06923
RSc0573	***fbaA***	fructose-1,6-bisphosphate aldolase	17023.7	1214.1	461.026	1964.26	OK	14705.2	1053.18	406.664	1694.02	OK	17282.6	1177.59	601.552	1752.34	OK	14527.1	1012.64	519.706	1494.69	OK	-0.20514	-0.04405	-0.26177	-1.15279	-1.031	-1.19895
RSc0574	***hemH***	phosphoribosylaminoimidazole-succinocarboxamidesynthase	1854.79	159.905	69.3604	250.448	OK	2479.39	214.846	93.8738	333.695	OK	1808.4	147.978	80.3755	214.288	OK	1648.17	138.614	74.0154	202.127	OK	0.426088	-0.11183	-0.20614	1.343585	-1.0806	-1.1536
RSc0575	***purE***	phosphoribosylaminoimidazole carboxylase catalytic subunit	658.151	121.781	47.1011	184.364	OK	934.717	174.858	65.5375	266.317	OK	462.382	77.8368	38.6172	114.855	OK	375.327	66.9026	31.7658	93.0551	OK	0.521895	-0.64576	-0.86415	1.43584	-1.56457	-1.82027

RSc0576	***purK***	phosphoribosylaminoimidazole carboxylase ATPase subuni	2531.19	150.936	67.8751	233.907	OK	3484.95	208.541	94.0088	322.627	OK	3245.56	185.862	104.044	267.528	OK	2676.24	156.214	86.8061	225.225	OK	0.466394	0.300295	0.049587	1.381652	1.231396	1.034968
RSc0577		hypothetical protein	1370.05	103.925	45.482	162.372	OK	1703.83	129.824	57.0118	202.694	OK	1813.96	131.197	72.4549	189.338	OK	1515.81	112.317	60.5153	164.076	OK	0.321014	0.336192	0.112034	1.249209	1.26242	1.080751
RSc0580		putative lipase / esterase protein	2433.84	177.711	79.1441	275.061	OK	1419.55	104.099	45.4631	162.421	OK	1289.33	89.8762	49.8394	129.862	OK	2816.76	200.978	109.476	291.126	OK	-0.77158	-0.98352	0.177505	-1.70713	-1.97729	1.130926
RSc0581		putative phosphoglycolate phosphatase protein	925.873	110.419	46.8788	174.029	OK	300.839	36.132	16.5131	55.4105	OK	171.17	19.0984	10.5886	27.6028	OK	244.778	28.3565	15.1136	40.9064	OK	-1.61164	-2.53146	-1.96124	-3.05599	-5.78158	-3.89396
RSc0582		AvrD-related protein	918.775	99.6118	42.8488	156.147	OK	268.639	29.3127	13.715	44.8933	OK	90.0311	9.17515	4.95815	13.3618	OK	145.96	15.3932	8.31961	22.1016	OK	-1.76479	-3.44051	-2.69402	-3.39825	-10.8567	-6.47116
RSc0583	***mobB2***	molybdopterin-guanine dinucleotide biosynthesis protein B	225.13	39.6101	1.46366	77.33	OK	262.199	46.615	1.34169	91.7226	OK	185.62	29.8245	5.65527	53.7853	OK	195.823	33.2276	5.41462	61.0048	OK	0.234926	-0.40937	-0.25349	1.176846	-1.32811	-1.19208
RSc0584		D-alanyl-D-alanine carboxypeptidase	1167.23	54.3531	17.7882	90.9899	OK	1472.91	68.7765	22.8334	114.681	OK	864.743	38.8972	20.2415	57.531	OK	1112.38	50.791	26.3	75.3385	OK	0.339553	-0.4827	-0.09779	1.265365	-1.39735	-1.07013
RSc0585		putative transport transmembrane protein	1795.97	108.603	48.1302	168.377	OK	1265.92	76.8239	33.8013	118.83	OK	841.402	48.8445	27.753	69.9003	OK	786.01	46.5211	26.5103	66.4312	OK	-0.49944	-1.1528	-1.22311	-1.41366	-2.22344	-2.33449
RSc0586		hypothetical protein	5528.87	1903	545.743	2521.45	OK	3535.55	1240.44	358.462	1463.83	OK	4562.69	1345.61	537.098	1751.68	OK	5304.43	1731.47	622.537	2046.16	OK	-0.61742	-0.50002	-0.13628	-1.53413	-1.41423	-1.09907
RSc0587		hypothetical protein	1176.36	108.38	46.8235	169.642	OK	932.877	86.4174	38.0721	134.786	OK	987.007	86.0871	47.1506	124.923	OK	833.152	74.8239	40.3621	108.764	OK	-0.3267	-0.33223	-0.53453	-1.25415	-1.25896	-1.44847
RSc0588		hypothetical protein	2161.05	54.5777	23.7942	85.2981	OK	2753.55	69.6452	30.3245	108.997	OK	1675.02	41.2564	23.7072	58.7527	OK	1777.81	44.1474	25.347	62.9459	OK	0.351712	-0.40369	-0.30598	1.276074	-1.32289	-1.23626
RSc0589		amidase	654.095	35.5478	16.8294	54.3129	OK	662.398	36.1147	16.8772	55.2213	OK	495.727	25.934	15.2815	36.6002	OK	500.435	26.6407	15.4702	37.685	OK	0.022826	-0.45492	-0.41613	1.015948	-1.3707	-1.33434
RSc0590		putative transcription regulator protein	1889.27	324.431	122.566	512.809	OK	431.478	74.852	30.4615	110.933	OK	359.013	56.4008	28.8672	78.2018	OK	319.118	52.8777	25.9095	74.061	OK	-2.1158	-2.52412	-2.61718	-4.3343	-5.75224	-6.1355
RSc0591		hypothetical protein	3891.1	1360.67	397.046	1627.57	OK	991.756	353.598	102.108	418.513	OK	900.311	269.262	109.017	336.073	OK	1101.5	365.148	132.588	418.94	OK	-1.94414	-2.33723	-1.89776	-3.84807	-5.05333	-3.72635
RSc0592		hypothetical protein	676.405	41.4866	19.2353	63.7102	OK	12512	770.192	305.426	1235.26	OK	4641.6	273.196	151.595	393.456	OK	3400.6	204.122	112.91	294.908	OK	4.214501	2.719219	2.298714	18.56484	6.585162	4.920191
RSc0593		hypothetical protein	6685.96	521.915	218.585	820.118	OK	18008	1412.23	527.475	2286.53	OK	27326.1	2031.91	971.383	3086.01	OK	17107.3	1304.1	652.567	1953	OK	1.436088	1.96095	1.321168	2.705862	3.893182	2.498683
RSc0594		hypothetical protein	608.46	199.982	62.7774	242.631	OK	910.797	304.925	91.2798	370.351	OK	2234.1	632.468	260.355	826.267	OK	979.113	305.544	114.428	358.767	OK	0.608584	1.661122	0.61151	1.524762	3.162625	1.527858
RSc0595		putative outer membrane receptor signal peptide protein	6020.71	191.193	81.0747	301.42	OK	17042	542.198	200.555	883.911	OK	44432	1372.04	577.847	2165.7	OK	15110.1	471.4	246.845	695.424	OK	1.50379	2.843221	1.301922	2.835867	7.176204	2.465571
RSc0596		hypothetical protein	116.622	108.982	20.3066	69.6227	OK	146.279	141.697	25.5283	92.5402	OK	153.386	107.393	29.7625	82.7055	OK	97.9113	85.4665	18.6016	54.3739	OK	0.378719	-0.02119	-0.35066	1.300187	-1.0148	-1.27514
RSc0597		hypothetical protein	164.284	142.782	27.9636	98.2962	OK	71.7597	64.5689	12.1458	43.7814	OK	136.714	89.9842	25.6356	71.6124	OK	54.3952	44.1754	9.75266	29.258	OK	-1.1449	-0.66607	-1.6925	-2.21131	-1.58675	-3.23216
RSc0598		hypothetical protein	835.618	278.838	85.1403	341.289	OK	98.4396	33.4677	10.9154	38.204	OK	216.741	62.1896	26.3818	72.505	OK	109.697	34.7418	13.2806	38.4061	OK	-3.05859	-2.16468	-3.00468	-8.33156	-4.48368	-8.02601
RSc0599		putative transcription regulator protein	2190.46	104.262	31.6266	176.327	OK	2108.63	100.65	33.242	167.74	OK	2659.81	122.238	61.8123	182.585	OK	2029.85	94.7245	47.6382	141.74	OK	-0.05087	0.229479	-0.1384	-1.03589	1.172412	-1.10069
RSc0600		hypothetical protein	91.269	12.4003	0	44.7567	OK	62.5598	8.56834	0	32.5043	OK	53.3517	6.73321	0	26.0719	OK	43.5161	5.73085	0	22.0762	OK	-0.53329	-0.88101	-1.11355	-1.44722	-1.84166	-2.16378
RSc0601		hypothetical protein	885.309	38.4714	0.35256	81.3239	OK	632.038	27.5359	0.195867	60.2094	OK	660.228	27.7526	2.04816	53.484	OK	618.292	26.3558	3.51665	49.1945	OK	-0.48247	-0.47116	-0.54567	-1.39714	-1.38623	-1.45969
RSc0602		hypothetical protein	241.356	26.7069	0	75.3076	OK	129.72	14.4482	0	46.3964	OK	112.261	11.6652	0	34.9253	OK	123.296	13.2672	0	35.6084	OK	-0.88632	-1.195	-1.00935	-1.84846	-2.28945	-2.013
RSc0603		hypothetical protein	433.021	38.8936	0	116.047	OK	297.159	26.8327	0	82.8028	OK	184.508	15.7048	0	48.8572	OK	225.74	19.7702	0	55.9634	OK	-0.53554	-1.30833	-0.97621	-1.44949	-2.47654	-1.96728
RSc0604		hydrolase oxidoreductase protein	2272.6	206.718	89.4211	323.337	OK	2275.15	208.066	89.6432	326.076	OK	2615.35	225.327	122.536	327.078	OK	2351.68	208.547	111.363	304.952	OK	0.009377	0.124356	0.012709	1.006521	1.090021	1.008848
RSc0605	***adhC2***	bifunctional: glutathione-dependent formaldehyde dehydrogenase/alcohol dehydrogenase class III	5334.17	363.517	158.995	567.508	OK	5462.94	373.794	162.021	585.543	OK	5900.93	384.743	210.337	558.412	OK	5800.34	386.51	207.582	563.52	OK	0.040221	0.081872	0.088483	1.028271	1.058391	1.063252
RSc0606		putative methyl-accepting chemotaxis transmembrane protein	120.678	4.59323	2.3968	6.77357	OK	1678.07	64.0144	28.31	99.6583	OK	714.691	26.377	15.4203	37.2486	OK	405.244	15.1409	9.08084	21.1772	OK	3.800816	2.5217	1.72087	13.93669	5.742582	3.296351
RSc0607		putative glutathione S-transferase protein	26.3666	3.53753	1.5047	5.51722	OK	116.84	15.801	7.12223	24.0751	OK	78.9161	9.84224	5.14586	14.349	OK	34.4503	4.48119	2.07814	6.82816	OK	2.159202	1.476244	0.34114	4.466676	2.782235	1.266757
RSc0609		putative lipoprotein	247.44	19.5285	9.6799	29.369	OK	560.278	44.4251	20.7426	67.891	OK	460.159	34.5807	19.813	49.3702	OK	439.694	33.884	19.2284	48.006	OK	1.185794	0.824386	0.795023	2.274885	1.770781	1.735105
RSc0610		putative signal peptide protein	189.637	34.4953	6.73964	62.1544	OK	253.919	46.688	13.7289	79.6276	OK	254.532	42.1771	18.0991	66.1172	OK	216.674	37.9831	16.1291	55.4055	OK	0.436652	0.29006	0.138958	1.35346	1.222691	1.101109
RSc0611	***apbE***	thiamine biosynthesis lipoprotein apbE precursor transmembrane	128.791	11.2846	0.861552	21.7542	OK	155.479	13.6938	2.51286	24.8414	OK	135.602	11.2703	3.54134	19.0524	OK	103.351	8.83227	2.83307	14.8028	OK	0.279168	-0.00183	-0.3535	1.213494	-1.00127	-1.27766
RSc0612		hypothetical protein	298.145	46.0438	8.33945	83.7033	OK	107.64	16.776	0	38.184	OK	124.487	17.7169	2.9887	32.4487	OK	70.7137	10.5604	0.746702	20.4596	OK	-1.45661	-1.37788	-2.12434	-2.74462	-2.59886	-4.36004
RSc0613		hypothetical protein	6127.19	960.058	362.803	1551.58	OK	331.199	52.3788	22.2537	81.3723	OK	252.309	36.3976	19.1814	51.7788	OK	263.816	39.9621	19.9576	54.1072	OK	-4.19607	-4.72121	-4.58642	-18.3291	-26.377	-24.0242
RSc0614		hypothetical protein	101.41	9.07063	4.45404	13.6542	OK	66.2398	5.95623	2.84766	8.98109	OK	112.261	9.51706	5.40235	13.6139	OK	77.9664	6.80015	3.6736	9.79626	OK	-0.6068	0.069313	-0.41564	-1.52288	1.049217	-1.33389
RSc0615		transcription regulator protein	733.194	66.6922	29.7577	103.56	OK	1001.88	91.6231	39.973	143.163	OK	1823.96	157.145	84.9279	229.225	OK	1042.57	92.4553	49.1457	135.461	OK	0.458193	1.236506	0.471238	1.37382	2.356273	1.386299
RSc0616		hypothetical protein	216.003	31.7592	13.8462	47.3347	OK	281.519	41.7541	18.0323	62.2543	OK	234.525	31.8778	16.9418	46.1663	OK	223.927	31.8682	16.2006	44.0486	OK	0.394743	0.005377	0.004943	1.314709	1.003734	1.003432
RSc0617		putative secreted aspartic protease	126.763	41.6629	13.8904	47.2635	OK	116.84	39.1166	12.808	43.2948	OK	136.714	38.7032	16.3723	45.7356	OK	97.0047	30.2715	11.3894	33.6344	OK	-0.09098	-0.10631	-0.4608	-1.0651	-1.07647	-1.37631
RSc0618	***rdgC***	recombination associated protein	1490.73	125.989	54.3645	196.339	OK	2149.11	182.542	79.4558	284.995	OK	1251.54	100.47	54.7994	145.559	OK	1183.09	97.5629	52.1867	141.846	OK	0.534931	-0.32653	-0.36889	1.448873	-1.254	-1.29136
RSc0619		putative transmembrane hydrogenase cytochrome B- type	449.246	60.6531	26.5062	93.8299	OK	418.598	56.9688	24.8937	88.7907	OK	355.678	44.6222	24.0605	65.2218	OK	333.624	43.665	22.6686	61.4437	OK	-0.09041	-0.44282	-0.4741	-1.06467	-1.35926	-1.38906
RSc0620		putative sulfate oxidase protein	645.982	67.9763	30.1204	105.754	OK	482.078	51.0455	23.2143	78.8787	OK	535.74	53.0656	29.2213	76.8289	OK	512.221	52.4524	28.2363	75.7618	OK	-0.41325	-0.35725	-0.37402	-1.33168	-1.28099	-1.29596
RSc0621		hypothetical protein	406.654	245.818	58.7903	226.623	OK	257.599	160.212	37.5672	135.632	OK	167.836	80.9162	27.4341	76.286	OK	180.411	102.262	29.5999	82.0616	OK	-0.61761	-1.60309	-1.26532	-1.53433	-3.03793	-2.40381
RSc0622	***dbpA***	ATP-dependent RNA helicase DbpA	4909.26	255.793	112.863	397.646	OK	5291.82	276.575	121.339	431.874	OK	3972.48	199.445	112.021	286.756	OK	5074.16	259.053	142.787	374.418	OK	0.112694	-0.35899	0.018271	1.081245	-1.28252	1.012745
RSc0623		hypothetical protein	111.551	180.36	23.1982	79.2894	OK	117.76	199.173	24.5832	83.7905	OK	98.923	110.052	22.5435	65.9226	OK	120.576	181.923	27.667	80.61	OK	0.143143	-0.71269	0.012449	1.104308	-1.63886	1.008666
RSc0624		zinc-dependent alcohol dehydrogenase oxidoreductase protein	406.654	30.6301	14.8813	46.2902	OK	410.318	31.044	15.0079	46.8601	OK	409.03	29.3829	16.9293	41.2924	OK	435.161	32.0199	18.1787	45.7278	OK	0.019364	-0.05997	0.064019	1.013513	-1.04245	1.045374
RSc0625		transcription regulator protein	1461.32	117.052	50.8008	182.603	OK	1618.27	130.239	56.6675	203.67	OK	2161.86	164.802	90.8252	238.737	OK	2375.26	185.747	100.296	271.029	OK	0.154012	0.493584	0.666189	1.112659	1.407938	1.586876
RSc0626		aldehyde dehydrogenase subunit III	115.607	25.0565	9.8215	33.3931	OK	187.679	41.1992	15.995	56.1229	OK	133.379	25.9612	12.4572	34.7417	OK	179.504	37.3391	17.0248	46.922	OK	0.717431	0.051172	0.575502	1.644252	1.036106	1.490196
RSc0627		putative dehydrogenase large chain transmembrane protein	689.588	21.674	9.96162	33.4093	OK	961.396	30.2731	13.6317	46.8371	OK	686.904	20.9969	12.3845	29.5389	OK	840.405	25.9511	15.143	36.7225	OK	0.482071	-0.04579	0.25983	1.396747	-1.03225	1.197338
RSc0628		hypothetical protein	345.808	28.6618	13.9227	43.2769	OK	298.079	24.8271	12.0709	37.5158	OK	377.908	29.7731	17.253	42.3544	OK	314.585	25.4466	14.479	36.3328	OK	-0.20721	0.05488	-0.17166	-1.15446	1.038773	-1.12635
RSc0629		putative oxidoreductase cytochrome C552 precursor signal peptide protein	26.3666	10.9583	3.06671	12.2669	OK	38.6399	16.4188	4.70229	16.9691	OK	41.1253	14.3186	5.24388	18.1519	OK	38.0766	14.9408	4.8405	16.5384	OK	0.583325	0.385866	0.447233	1.498298	1.306644	1.363423
RSc0630		hypothetical protein	35.4935	11.6656	3.6079	14.2512	OK	49.6798	16.6323	5.41185	18.0395	OK	31.1219	8.8105	3.38123	11.0335	OK	45.3293	14.1456	4.98287	18.5078	OK	0.511727	-0.40496	0.278093	1.425756	-1.32406	1.212591
RSc0631		hypothetical protein	491.839	55.8634	25.2657	86.133	OK	708.397	81.0028	35.0716	126.063	OK	746.924	79.5658	42.703	116.257	OK	839.499	92.6891	48.2805	134.558	OK	0.536068	0.510245	0.730496	1.450016	1.424292	1.65921
RSc0632		putative NADP-dependent alcohol dehydrogenase oxidoreductase protein	256.567	18.4204	9.18277	27.6091	OK	227.239	16.3841	8.14894	24.5685	OK	234.525	16.0835	9.47875	22.677	OK	242.965	17.0485	9.95868	24.1168	OK	-0.16901	-0.19572	-0.11166	-1.12429	-1.1453	-1.08047
RSc0633		putative NAD(P)H:quinone oxidoreductase	170.369	26.6948	11.5764	40.7985	OK	175.719	27.7898	12.026	42.0348	OK	176.728	25.4943	13.4159	37.0324	OK	195.823	29.6626	14.8573	40.6913	OK	0.057997	-0.06638	0.152086	1.041019	-1.04709	1.111175
RSc0634		transcription regulator protein	1188.53	96.2788	42.1937	150.336	OK	1124.24	91.5079	40.1076	142.934	OK	1055.92	81.3732	44.6115	117.902	OK	1111.47	87.892	47.5989	127.993	OK	-0.07332	-0.24266	-0.13149	-1.05214	-1.18318	-1.09542
RSc0635		transcription regulator protein	385.358	50.7508	22.5552	78.1517	OK	416.758	55.3157	24.3359	84.7798	OK	476.831	58.4369	31.1315	84.1232	OK	461.452	58.9383	30.3507	84.1232	OK	0.124258	0.203449	0.215775	1.089947	1.151448	1.161328
RSc0636		hypothetical protein	65.9165	20.4324	6.98114	24.2595	OK	93.8397	29.6035	9.94812	34.7312	OK	70.0242	18.8179	7.91993	23.5876	OK	56.2083	16.5677	6.1982	18.4224	OK	0.534909	-0.11875	-0.30249	1.448851	-1.0858	-1.23327
RSc0638		hypothetical protein	160.228	28.4238	11.7762	41.83	OK	133.4	23.9143	9.81348	33.9792	OK	191.177	30.9523	15.8526	43.4435	OK	174.971	29.9293	14.4005	39.9341	OK	-0.24923	0.122947	0.074459	-1.18857	1.088957	1.052966
RSc0639		heat shock protein	632.798	37.3193	17.5639	56.9029	OK	898.837	53.1938	24.0862	82.1703	OK	729.141	41.3085	23.8117	58.7693	OK	629.171	36.3247	20.9745	51.5244	OK	0.511336	0.146517	-0.03897	1.42537	1.106894	-1.02738
RSc0641	***groES***	co-chaperonin GroES	11111.5	5424.54	1235.13	7204.28	OK	14722.7	7368.1	1591.66	9707.29	OK	19410	7777.21	2581.87	8770.63	OK	7881.86	3620.79	1101.87	3377.87	OK	0.441792	0.519752	-0.5832	1.35829	1.433709	-1.49816
RSc0642	***groEL***	chaperonin GroEL	106602	4632.43	1638.86	7612.2	OK	159207	6936.17	2475.64	11363.8	OK	419679	17641.2	0.347801	51436.4	OK	108928	4643.26	1292.23	7994.43	OK	0.58237	1.929108	0.003369	1.497307	3.808196	1.002338
RSc0643		hypothetical protein	2048.48	144.179	64.102	224.417	OK	1527.19	107.937	47.3589	168.507	OK	1379.37	92.7922	51.3798	133.847	OK	1343.56	92.4379	50.318	134.201	OK	-0.41767	-0.63579	-0.6413	-1.33577	-1.55378	-1.55974
RSc0644		putative transmembrane protein	1312.25	92.36	40.5421	144.23	OK	998.196	70.5489	31.6922	109.308	OK	720.249	48.4523	27.4301	69.4895	OK	646.396	44.4725	24.9525	63.7086	OK	-0.38864	-0.9307	-1.05435	-1.30916	-1.9062	-2.07679
RSc0645		hypothetical protein	116.622	25.2763	0	50.6509	OK	111.32	24.4368	0.701536	48.1254	OK	68.9127	13.4133	0.553652	26.1601	OK	95.1915	19.801	1.38413	38.202	OK	-0.04873	-0.91412	-0.35221	-1.03435	-1.88442	-1.27652
RSc0646		hypothetical protein	225.13	90.1849	6.01878	172.739	OK	106.72	43.682	1.60501	85.4667	OK	180.062	60.7009	13.8542	106.876	OK	184.944	70.0048	12.2709	127.063	OK	-1.04585	-0.57117	-0.36543	-2.06458	-1.48573	-1.28827
RSc0647		Major facilitator superfamily MFS-1-related protein	921.817	55.1213	15.6068	94.8968	OK	633.878	38.0376	11.7615	64.4485	OK	547.967	31.4652	15.1019	47.7749	OK	711.67	41.6555	20.135	63.2147	OK	-0.53518	-0.80885	-0.4041	-1.44913	-1.75182	-1.32327
RSc0648		putative transmembrane protein	839.675	61.3101	27.8207	94.7509	OK	538.198	39.4672	18.6294	60.0829	OK	481.277	33.5486	19.3516	47.4053	OK	468.705	33.4424	18.9256	47.953	OK	-0.63547	-0.86987	-0.87445	-1.55344	-1.8275	-1.8333
RSc0649		putative transmembrane protein	91.269	21.513	8.14265	28.5733	OK	64.3998	15.3905	5.62583	19.8385	OK	65.5782	13.7773	6.28013	18.5483	OK	67.0874	15.1445	6.42618	18.9865	OK	-0.48317	-0.64292	-0.50641	-1.39781	-1.56148	-1.42052
RSc0650		putative tight adherence TadC-related transmembrane protein	175.439	14.3745	7.13302	21.6029	OK	167.439	13.7857	6.79335	20.6518	OK	142.271	11.085	6.36656	15.6148	OK	148.68	11.8904	6.70165	16.8881	OK	-0.06034	-0.3749	-0.27371	-1.04271	-1.29675	-1.20892
RSc0651		putative tight adherence TadB-related transmembrane protein	139.946	11.0448	5.39967	16.5941	OK	115.92	9.1914	4.54363	13.8284	OK	161.167	12.1116	7.01576	17.0847	OK	132.362	10.2001	5.78151	14.6162	OK	-0.26501	0.133022	-0.11478	-1.20165	1.096588	-1.08281
RSc0652	***cpaF1***	secretion ATPase protein	302.202	16.2183	8.22744	24.1149	OK	309.119	16.6422	8.41658	24.8242	OK	431.26	22.2861	13.2008	31.2527	OK	378.953	19.9232	11.8014	28.0808	OK	0.037224	0.458522	0.296827	1.026137	1.374133	1.228439
RSc0653	***cpaE1***	putative pilus assembly protein	303.216	18.9218	9.49294	28.371	OK	289.799	18.1513	9.11538	27.1843	OK	355.678	21.2896	12.5573	29.9567	OK	306.426	18.7115	10.9611	26.3917	OK	-0.05998	0.1701	-0.01612	-1.04245	1.125136	-1.01124
RSc0654		lipoprotein	59.8319	25.8325	7.50303	25.8438	OK	64.3998	28.445	7.91986	27.9279	OK	77.8046	28.0078	10.4858	32.4854	OK	79.7796	32.4931	10.6914	32.691	OK	0.138988	0.116641	0.330946	1.101132	1.084208	1.257838
RSc0655	***cpaC***	outer membrane channel protein	830.548	30.6873	14.0296	47.3288	OK	491.278	18.1915	8.92486	27.4507	OK	708.022	25.379	14.8741	35.8178	OK	582.028	21.1127	12.5062	29.7148	OK	-0.75438	-0.27401	-0.53953	-1.6869	-1.20916	-1.4535
RSc0656	***cpaB***	pilus assembly transmembrane protein	112.565	10.2826	4.97678	15.5246	OK	103.96	9.54794	4.60538	14.4104	OK	126.71	10.9614	6.22859	15.6814	OK	117.856	10.4954	5.78892	15.1684	OK	-0.10694	0.092227	0.029552	-1.07694	1.066014	1.020695
RSc0657	***cpaA1***	prepilin peptidase transmembrane protein	24.3384	4.39003	1.73721	6.57659	OK	23.9199	4.36084	1.61313	6.45251	OK	26.6759	4.38599	1.95858	6.73264	OK	22.6646	3.94051	1.59135	5.99817	OK	-0.00962	-0.00133	-0.15585	-1.00669	-1.00092	-1.11408
RSc0659		putative pilin protein	4.0564	25.4564	0.466674	7.46678	OK	5.51998	37.1067	0.933348	7.93345	OK	8.89196	30.0402	1.8415	9.66785	OK	8.15927	46.4672	1.8415	10.1282	OK	0.543651	0.238866	0.868184	1.457657	1.180065	1.825364
RSc0660		putative pilin transmembrane protein	25.3525	70.2209	5.56552	21.8645	OK	14.7199	43.0374	3.1803	13.5163	OK	30.0104	52.2234	7.05907	24.7067	OK	11.7856	30.3685	2.35302	10.9808	OK	-0.70631	-0.4272	-1.20932	-1.63163	-1.34463	-2.31229
RSc0661		putative pilin transmembrane protein	18.2538	50.559	3.97537	16.299	OK	16.5599	48.4171	3.57783	15.1064	OK	17.7839	30.9472	3.9217	16.8633	OK	6.3461	16.3523	0.784341	7.45124	OK	-0.06245	-0.70816	-1.62847	-1.04424	-1.63372	-3.09186
RSc0662		hypothetical protein	1114.5	199.353	75.1345	312.012	OK	1024.88	185.273	69.5827	286.473	OK	908.091	148.156	72.7814	204.47	OK	887.548	153.054	70.9558	221.752	OK	-0.10567	-0.42821	-0.38128	-1.076	-1.34556	-1.3025

RSc0663		putative glycine rich transmembrane protei	3293.8	312.864	134.322	491.211	OK	2948.59	281.652	121.749	439.077	OK	2825.42	253.75	136.593	370.072	OK	3038.88	281.265	148.165	410.308	OK	-0.15162	-0.30213	-0.15361	-1.11082	-1.23296	-1.11235
RSc0664		lipoprotein	6538.92	961.425	367.408	1540.15	OK	5914.66	877.245	335.744	1406.2	OK	7828.26	1064.05	529.642	1599.3	OK	6487.53	923.274	440.38	1345.18	OK	-0.13219	0.14632	-0.05842	-1.09596	1.106743	-1.04132
RSc0665		dihydrodipicolinate synthase-like transmembrane protei	589.192	50.3908	23.2266	77.4923	OK	761.757	65.4796	29.2092	101.493	OK	782.492	63.5388	35.5499	91.5133	OK	552.111	46.0675	25.4821	65.6146	OK	0.377885	0.334477	-0.12941	1.299436	1.260921	-1.09385
RSc0666	***hemL***	glutamate-1-semialdehyde 2,1-aminomutase	2237.1	126.378	56.4869	196.319	OK	2868.55	162.591	73.4527	251.322	OK	2370.82	128.802	72.6563	184.544	OK	2265.56	125.333	69.9238	180.104	OK	0.363502	0.02741	-0.01198	1.286545	1.019181	-1.00834
RSc0667		rubredoxin protein	529.36	906.493	108.039	409.281	OK	533.598	956.769	108.743	433.563	OK	648.001	756.42	148.935	453.053	OK	689.912	1102.36	158.655	486.034	OK	0.077875	-0.26111	0.282228	1.055462	-1.1984	1.216071
RSc0668	***pilG***	twitching motility two-component response regulator transcription regulator protein	6305.67	1074.24	396.305	1712.71	OK	7026.93	1209.25	438.881	1918.2	OK	4614.93	719.665	350.13	1055.8	OK	4505.73	740.801	342.129	1115.8	OK	0.170796	-0.57792	-0.53616	1.12568	-1.49269	-1.45011
RSc0669	***pilH***	putative twitching motility two-component response regulator transcription regulator protein	6531.82	2024.69	600.203	2831.72	OK	8032.49	2534	724.642	3521.11	OK	6326.63	1700.18	697.815	2306.25	OK	5609.05	1653.3	619.304	2044.2	OK	0.323715	-0.25201	-0.29235	1.25155	-1.19087	-1.22464
RSc0670	***pilI***	putative twitching motility protei	4465.08	748.798	284.615	1186.11	OK	5745.38	973.12	360.457	1537.13	OK	2523.09	387.748	191.875	567.014	OK	2224.76	360.187	169.767	537.924	OK	0.378041	-0.94946	-1.05583	1.299576	-1.93115	-2.07891
RSc0671	***pilJ***	putative twitching motility transmembrane protei	22653	704.768	248.342	1161.99	OK	36328.8	1132.32	382.366	1882.06	OK	23913.8	723.674	352.754	1093.98	OK	23830.5	728.435	357.536	1098.79	OK	0.684061	0.038192	0.047652	1.606656	1.026826	1.033581
RSc0672		putative composite two component regulatory (sensor histidine kinase and response regulator hybrid) transcription regulato	22235.2	239.259	77.6227	400.466	OK	37830.3	407.327	125.963	689.867	OK	29091.2	307.297	141.161	473.557	OK	23370	247.727	119.374	375.97	OK	0.767614	0.36106	0.050178	1.702452	1.28437	1.035393
RSc0673		hypothetical protein	23.3243	11.3867	2.87702	11.2868	OK	26.6799	13.3522	3.31964	13.4999	OK	12.2264	4.89889	1.30993	6.11301	OK	27.1976	12.4941	3.49315	12.6627	OK	0.229728	-1.21682	0.133897	1.172614	-2.32434	1.097254
RSc0674	***rsuA***	ribosomal small subunit pseudouridine synthase A protei	1306.16	140.9	59.0554	222.222	OK	1423.23	154.512	64.1464	244.622	OK	1130.39	114.647	61.1042	168.162	OK	1290.98	135.474	70.0605	200.388	OK	0.133047	-0.29747	-0.05666	1.096608	-1.22899	-1.04005
RSc0675		hypothetical protein	5324.03	834.212	267.157	1388.39	OK	5818.06	920.12	298.065	1533.71	OK	5982.06	862.96	380.192	1341.04	OK	6296.24	953.734	419.109	1465.99	OK	0.141408	0.04888	0.193173	1.102981	1.034461	1.143275
RSc0676		Holliday junction resolvase-like protei	1091.17	257.2	5.32974	508.546	OK	1065.36	254.603	4.73754	504.104	OK	1616.11	339.528	55.791	621.587	OK	1218.45	275.058	31.8388	517.6	OK	-0.01464	0.40064	0.096845	-1.0102	1.320093	1.069432
RSc0677	***pyrR***	pyrimidine regulatory protein PyrR	1090.16	193.389	0.177396	541.057	OK	1053.4	188.84	0	547.126	OK	1630.56	263.994	7.60948	561.483	OK	1264.69	216.328	1.88158	492.29	OK	-0.03434	0.448999	0.161715	-1.02409	1.365093	1.118616
RSc0678	***pyrB***	aspartate carbamoyltransferase catalytic subunit	3176.16	252.527	112.238	391.044	OK	4615.62	368.702	160.472	574.971	OK	3504.54	265.247	145.038	385.307	OK	4065.13	315.566	169.222	460.473	OK	0.546018	0.070899	0.321504	1.46005	1.050371	1.249633
RSc0679	***pyrX***	dihydroorotase	4641.54	267.848	112.374	422.587	OK	7566.97	438.155	167.805	708.159	OK	5928.71	328.845	180.404	475.194	OK	7102.19	401.288	217.041	584.262	OK	0.710027	0.295993	0.583223	1.635835	1.22773	1.498193
RSc0680	***plsC***	1-acyl-sn-glycerol-3-phosphate acyltransferase transmembran	580.065	58.4608	0	176.673	OK	1129.76	114.541	0	335.586	OK	631.329	60.0077	0.1901	150.844	OK	837.685	82.2031	0.294394	202.935	OK	0.970323	0.037678	0.491723	1.959279	1.02646	1.406123
RSc0681	***apaH***	diadenosine tetraphosphatase	907.62	84.7117	37.2649	132.128	OK	1045.12	98.0846	42.5561	153.368	OK	674.677	59.5818	33.0334	85.4545	OK	767.878	69.8504	37.5821	102.083	OK	0.211465	-0.50769	-0.27829	1.157864	-1.42177	-1.21276
RSc0682	***rfbB***	dTDP-glucose 4,6-dehydratase protein	5247.97	374.277	108.605	639.837	OK	7407.81	530.545	144.706	916.066	OK	3518.99	239.775	112.746	365.441	OK	4975.34	346.814	164.287	528.833	OK	0.503369	-0.64243	-0.10994	1.41752	-1.56095	-1.07919
RSc0683	***rfbD***	dTDP-4-dehydrorhamnose reductase oxidoreductase protein	3268.44	278.425	13.9705	566.827	OK	4524.54	387.372	10.702	803.248	OK	2232.99	180.628	52.0934	309.649	OK	2784.13	231.393	56.1833	407.246	OK	0.476431	-0.62427	-0.26694	1.391297	-1.54143	-1.20326
RSc0684	***rfbA***	glucose-1-phosphate thymidylyltransferase protei	2603.19	233.817	87.0402	378.713	OK	4777.54	431.4	145.946	715.298	OK	2510.87	213.717	104.802	322.211	OK	4030.68	353.006	173.465	530.442	OK	0.883646	-0.12968	0.594313	1.845033	-1.09405	1.509753
RSc0685	***rfbC***	dTDP-4-dehydrorhamnose 3,5-epimerase protei	1139.85	188.214	4.29317	402.733	OK	2358.87	393.329	4.5021	827.053	OK	1319.34	199.856	47.2621	352.345	OK	1582.9	252.411	42.5761	464.988	OK	1.063363	0.086587	0.423401	2.089797	1.061855	1.341085
RSc0686		putative lipopolysaccharide O-SIDE chain biosynthesis transmembrane protein	836.633	48.6718	22.3805	74.8554	OK	1457.27	85.0699	37.4023	132.456	OK	681.346	38.0912	22.0283	54.1195	OK	1173.12	66.8185	37.0976	96.3738	OK	0.805563	-0.35363	0.457161	1.747827	-1.27777	1.372838
RSc0687	***rfbF***	dTDP-rhamnosyl transferase rfbf protei	1576.93	132.233	57.4069	206.429	OK	2090.23	176.147	76.7272	275.539	OK	1073.7	85.5453	47.068	123.989	OK	1743.36	142.654	76.6478	208.015	OK	0.413698	-0.62832	0.109438	1.332096	-1.54577	1.078808
RSc0688		glycosyl transferase protein	4697.31	454.218	192.581	715.644	OK	4600.9	447.446	188.614	700.711	OK	3476.76	317.634	170.108	463.596	OK	3940.93	371.246	194.508	547.691	OK	-0.02167	-0.51602	-0.29101	-1.01513	-1.43	-1.2235
RSc0689		putative undecaprenyl phosphate N-acetylglucosaminyltransferase transmembrane protei	1948.09	130.685	34.726	226.724	OK	1798.59	121.136	32.1431	209.963	OK	1586.1	101.847	44.2796	159.452	OK	1779.63	116.75	52.5466	180.799	OK	-0.10947	-0.35969	-0.16267	-1.07883	-1.28315	-1.11936
RSc0690		Lipopolysaccharide biosynthesis protein	2043.41	177.593	28.4196	326.348	OK	1942.11	169.659	24.1981	314.925	OK	1648.35	135.932	51.211	220.677	OK	1594.68	135.189	48.7456	221.347	OK	-0.06594	-0.38569	-0.3936	-1.04676	-1.30648	-1.31366
RSc0691		putative phosphomannomutase or phosphoglucomutase protei	5247.97	276.121	121.042	431.106	OK	4841.94	255.551	112.632	397.743	OK	4329.27	219.439	122.388	315.962	OK	4236.48	218.392	121.425	315.366	OK	-0.11169	-0.33148	-0.33838	-1.08049	-1.2583	-1.26434
RSc0692	***rfaC1***	lipopolysaccharide heptosyltransferase protei	1320.36	101.591	37.9057	165.354	OK	1262.24	97.5616	35.5205	159.423	OK	944.771	69.2781	36.44	101.879	OK	965.514	72.5569	35.7405	109.32	OK	-0.05839	-0.5523	-0.48559	-1.0413	-1.46642	-1.40016
RSc0693	***kdtA***	3-deoxy-D-manno-octulosonic-acid transferase	567.896	31.6648	0.724856	68.8056	OK	603.518	33.762	1.90203	70.8786	OK	333.448	17.8862	3.16477	32.6132	OK	475.958	25.991	6.2253	45.7614	OK	0.09252	-0.82403	-0.28487	1.066231	-1.77035	-1.2183
RSc0694		hypothetical protein	1339.63	149.002	61.5329	236.311	OK	1828.95	204.771	85.1727	324.178	OK	1218.2	127.209	67.0468	187.08	OK	1243.84	134.527	69.276	198.74	OK	0.45868	-0.22813	-0.14744	1.374284	-1.17132	-1.1076
RSc0695		porin (omp) ABC transporter protein	3023.03	150.569	68.296	232.286	OK	4337.78	216.689	96.6679	336.611	OK	2973.25	142.842	80.4734	205.179	OK	3320.82	162.114	90.6908	233.517	OK	0.525201	-0.076	0.106584	1.439134	-1.05409	1.076676
RSc0696		hypothetical protein	961.367	359.047	102.887	419.863	OK	1121.48	427.487	118.359	492.194	OK	903.645	286.421	113.517	354.098	OK	839.499	296.746	105.886	323.191	OK	0.251708	-0.32604	-0.27494	1.190616	-1.25356	-1.20995
RSc0697	***pcm***	protein-L-isoaspartate O-methyltransferase	2613.34	344.171	140.277	546.568	OK	2841.87	377.197	153.731	600.186	OK	2295.24	281.287	146.581	412.516	OK	1965.48	251.038	124.916	371.43	OK	0.132193	-0.29108	-0.45522	1.095958	-1.22356	-1.37099
RSc0698		putative transcription regulator protein	2263.47	230.282	98.1001	359.916	OK	1720.39	176.086	74.0409	278.18	OK	1678.36	160.973	86.0673	235.347	OK	1801.39	178.426	93.9788	261.478	OK	-0.38712	-0.51658	-0.36808	-1.30778	-1.43056	-1.29063
RSc0699		hypothetical protein	17.2397	25.0129	0	48.3007	OK	16.5599	25.0892	0	49.6424	OK	35.5678	36.1314	2.31626	67.5023	OK	20.8515	28.2355	0.661787	47.6487	OK	0.004394	0.530581	0.174838	1.00305	1.444511	1.128838
RSc0700		hypothetical protein	291.047	41.3761	18.7655	64.1156	OK	319.239	45.7677	21.0747	70.5356	OK	330.114	43.4754	24.8909	62.0298	OK	309.146	42.5659	24.5086	60.7207	OK	0.145532	0.071402	0.0409	1.106139	1.050737	1.028756
RSc0701	***uppP***	undecaprenyl pyrophosphate phosphatase	3878.93	346.952	150.561	542.735	OK	3077.39	276.717	120.478	432.48	OK	1733.93	146.996	79.5946	214.437	OK	1589.25	138.612	73.688	202.552	OK	-0.32632	-1.23896	-1.32368	-1.25382	-2.36028	-2.50304
RSc0702		putative NADH-dependent flavin oxidoreductase oxidoreductase protein	530.374	35.9163	17.0694	54.7379	OK	564.878	38.4062	18.2267	58.5569	OK	514.622	33.3483	19.3506	47.1492	OK	434.255	28.756	16.6107	40.8703	OK	0.0967	-0.10703	-0.32078	1.069325	-1.07701	-1.249
RSc0703	***trmB***	tRNA (guanine-N(7))-methyltransferase	505.022	54.7535	24.8745	84.5902	OK	670.678	73.1814	31.9449	114.235	OK	430.148	43.8368	24.2865	63.2795	OK	355.382	37.4791	20.2528	54.5397	OK	0.418526	-0.32081	-0.54686	1.336561	-1.24903	-1.46091
RSc0704		Nitrilase superfamily protei	961.367	105.293	45.1666	164.781	OK	1126.08	124.134	52.2077	195.865	OK	603.542	62.1052	33.9682	90.1302	OK	1011.75	107.774	55.8231	159.422	OK	0.237489	-0.76162	0.0336	1.178939	-1.6954	1.023563
RSc0705		hypothetical protein	1595.18	249.946	96.3205	397.982	OK	1733.27	274.115	105.087	442.49	OK	1449.39	209.086	104.334	311.005	OK	2075.18	314.341	150.236	444.832	OK	0.133165	-0.25752	0.330714	1.096697	-1.19542	1.257636
RSc0706		hypothetical protein	1600.25	208.195	84.0055	329.357	OK	1561.23	204.689	82.0451	325.632	OK	1687.25	204.411	105.983	299.769	OK	2143.17	270.471	135.573	399.949	OK	-0.0245	-0.02646	0.377538	-1.01713	-1.01851	1.299123
RSc0707		hypothetical protein	992.804	78.0673	34.728	121.318	OK	1175.76	92.8839	40.7019	144.229	OK	951.44	71.2473	39.3753	102.259	OK	1256.53	96.4803	52.263	140.21	OK	0.25071	-0.13188	0.305516	1.189793	-1.09572	1.235861
RSc0708		hypothetical protein	1903.47	90.8034	40.5914	140.898	OK	2475.71	118.435	53.6675	183.066	OK	1557.2	71.7206	40.5476	102.525	OK	1730.67	80.9417	45.4217	115.76	OK	0.383277	-0.34036	-0.16586	1.304301	-1.26607	-1.12184
RSc0709		Lytic transglycosylase-like protei	3219.77	223.684	99.8836	346.606	OK	4352.5	303.621	134.538	472.629	OK	5130.66	340.818	186.919	493.785	OK	3142.23	213.414	116.504	309.024	OK	0.44081	0.607539	-0.06781	1.357366	1.523658	-1.04812
RSc0710		aminotransferase	1208.81	76.0977	33.6407	118.53	OK	2010.19	127.018	56.249	197.605	OK	1806.18	109.036	61.0654	156.443	OK	1833.12	112.914	62.4593	163.306	OK	0.739108	0.51888	0.5693	1.669144	1.432842	1.483803
RSc0711	***nusB***	transcription antitermination protein NusE	1151	228.727	82.9527	346.387	OK	1928.31	387.716	138.475	577.886	OK	1707.26	306.915	145.757	463.807	OK	1461.42	279.307	123.795	398.314	OK	0.761374	0.424212	0.288225	1.695104	1.34184	1.221137
RSc0712	***ribH***	riboflavin synthase subunit beta	1587.07	306.872	111.238	469.802	OK	2526.31	494.095	180.063	737.424	OK	2447.51	429.064	205.483	606.31	OK	1732.49	322.386	145.417	462.176	OK	0.687151	0.483556	0.071152	1.610101	1.398186	1.050555
RSc0713	***ribAB***	bifunctional 3,4-dihydroxy-2-butanone 4- phosphate synthase/GTP cyclohydrolase II protein	3661.92	227.196	101.593	352.327	OK	5102.3	317.724	138.945	495.995	OK	3347.82	199.262	111.339	286.739	OK	2976.32	180.703	99.8505	261.38	OK	0.483837	-0.18927	-0.33032	1.398458	-1.14019	-1.25729
RSc0714	***ribE***	riboflavin synthase subunit alpha	1051.62	137.652	56.5232	218.313	OK	1748.91	230.704	92.3672	368.779	OK	1203.75	146.674	75.7716	217.406	OK	1400.68	177.827	88.3031	262.286	OK	0.745017	0.091588	0.369449	1.675995	1.065542	1.291859
RSc0715	***ribD***	diaminohydroxyphosphoribosylaminopyrimidinedeaminase/5-amino-6-(5-phosphoribosylamino)uracilreductase	2504.83	169.624	76.1471	262.869	OK	3385.59	230.187	103.053	356.375	OK	2589.78	167.822	93.3281	241.34	OK	3450.47	228.487	124.723	331.015	OK	0.440466	-0.01541	0.429772	1.357043	-1.01074	1.34702
RSc0716		putative type 4 fimbrial pilin related transmembrane protei	129.805	20.9504	1.03317	40.7529	OK	141.679	23.0865	1.95155	44.082	OK	141.16	20.9338	4.75638	37.0318	OK	145.054	22.6194	5.43586	39.7497	OK	0.140072	-0.00114	0.110583	1.10196	-1.00079	1.079664
RSc0717		putative type-4 frimbrial pilin-related signal peptide protei	60.846	14.5005	0	30.7097	OK	39.5599	9.55999	0	21.9142	OK	55.5747	11.7926	0.294128	23.2361	OK	39.8898	9.10182	0	18.0889	OK	-0.60102	-0.29822	-0.67188	-1.51679	-1.22963	-1.59314
RSc0718		putative type 4 fimbrial biogenesis PILY1- related protein transmembrane	280.906	10.7682	1.50339	20.0335	OK	238.279	9.15483	0.909026	17.4113	OK	222.299	8.26195	2.65577	13.8652	OK	229.366	8.63058	2.72475	14.5205	OK	-0.23417	-0.38222	-0.31925	-1.17623	-1.30335	-1.24768
RSc0719		signal peptide protein	169.355	23.7613	2.17781	45.3192	OK	131.56	18.6124	1.24446	35.7783	OK	185.62	24.1454	7.16137	41.1267	OK	169.532	23.0429	6.03601	40.0014	OK	-0.35235	0.023135	-0.04429	-1.27664	1.016165	-1.03118
RSc0720		hypothetical protein	163.27	13.4804	0.247694	32.1177	OK	185.839	15.4188	0.414843	33.2704	OK	123.376	9.68401	0.235476	19.5445	OK	152.306	12.2731	1.04756	23.5298	OK	0.193827	-0.47719	-0.13536	1.143794	-1.39203	-1.09837
RSc0721		hypothetical protein	36.5076	31.7292	5.93167	23.1618	OK	43.2398	38.9069	7.06151	26.2688	OK	36.6793	24.1421	6.40889	21.7345	OK	41.703	33.8678	7.24483	25.6356	OK	0.294215	-0.39426	0.094103	1.226217	-1.31427	1.067402
RSc0722		putative type 4 fimbrial pilin related transmembrane protei	727.11	104.057	43.1445	162.581	OK	1969.71	284.286	112.07	452.806	OK	2090.72	277.067	141.804	407.246	OK	1586.53	219.876	107.443	318.281	OK	1.449969	1.412861	1.079316	2.732022	2.662646	2.113034
RSc0723		type-4 fimbrial pilin-like transmembrane protei	860.971	171.092	63.7384	256.544	OK	2193.27	440.99	158.22	654.743	OK	2271.9	408.421	194.647	617.407	OK	1762.4	336.831	150.724	478.84	OK	1.365974	1.255285	0.977253	2.577502	2.387143	1.968713
RSc0724		putative type-4 fimbrial biogenesis pily1- related signal peptid	8832.81	149.302	57.9803	240.482	OK	23388.2	395.727	133.844	658.262	OK	18208.5	301.301	152.367	450.159	OK	18151.7	302.011	153.247	450.911	OK	1.406272	1.012972	1.016368	2.650514	2.018064	2.02282
RSc0725		hypothetical protein	1731.07	222.517	17.6787	427.203	OK	3606.39	467.117	34.386	898.991	OK	2620.9	313.931	98.4117	529.526	OK	2411.52	300.752	83.9422	517.356	OK	1.069868	0.496532	0.434659	2.099242	1.410818	1.351591
RSc0726		hypothetical protein	3285.68	256.485	51.2206	461.834	OK	5908.22	463.335	76.8636	849.741	OK	3461.19	257.367	102.281	411.7	OK	3796.78	289.43	114.704	463.774	OK	0.853181	0.004953	0.17434	1.80648	1.003439	1.128448
RSc0727		putative type-4 fimbrial biogenesis PILV-related transmembrane protein	2191.47	309.497	10.1684	672.951	OK	4053.51	577.276	9.39932	1313.34	OK	1726.15	225.926	10.6016	449.456	OK	1902.92	260.319	17.3735	507.252	OK	0.899336	-0.45408	-0.24964	1.865207	-1.3699	-1.18891
RSc0728		transcriptional regulator NrdR	845.759	189.016	67.4064	272.058	OK	1077.32	243.947	84.2937	349.912	OK	990.342	198.227	91.6267	288.151	OK	840.405	180.121	78.3556	242.267	OK	0.368059	0.068645	-0.06954	1.290616	1.048731	-1.04938
RSc0729	***glyA***	serine hydroxymethyltransferase	12649.9	750.148	297.442	1202.51	OK	20485.6	1219.07	453.852	1984.51	OK	17589.4	1001.86	514.718	1489.07	OK	15036.6	872.888	452.306	1290.49	OK	0.700534	0.417434	0.218621	1.625106	1.33555	1.163621
RSc0730		oxidoreductase protein	2734.01	280.816	119.252	438.971	OK	3128.91	323.334	137.944	507.617	OK	2407.5	233.016	124.809	339.56	OK	2122.32	212.199	111.039	310.492	OK	0.2034	-0.2692	-0.40421	1.151409	-1.20514	-1.32336
RSc0731		putative thioesterase protein	1153.03	305.088	40.5488	568.319	OK	1115.96	299.837	38.6406	560.05	OK	1183.74	276.079	74.983	474.997	OK	1087.9	274.859	70.4338	475.154	OK	-0.02505	-0.14414	-0.15053	-1.01751	-1.10507	-1.10998
RSc0732	***tolQ***	TOLQ-like transport transmembrane protei	3249.18	394.064	117.764	672.261	OK	3273.35	399.854	117.146	682.844	OK	2964.36	336.062	155.54	516.39	OK	2638.16	310.72	144.632	477.357	OK	0.021043	-0.2297	-0.34281	1.014693	-1.17259	-1.26823
RSc0733	***tolR***	putative TOLR-related transport transmembrane protei	1871.01	441.017	149.825	627.132	OK	1824.35	435.991	145.976	611.883	OK	1893.99	397.906	180.809	576.458	OK	2189.4	494.244	209.727	664.38	OK	-0.01654	-0.14841	0.164389	-1.01153	-1.10834	1.120691
RSc0734	***tolA***	TOLA-like transport transmembrane protei	2847.59	209.345	93.4373	324.487	OK	2876.83	212.415	94.6781	329.698	OK	2249.67	157.858	87.3406	228.359	OK	2399.73	172.384	93.8897	250.821	OK	0.021003	-0.40726	-0.28026	1.014665	-1.32616	-1.21441
RSc0735	***tolB***	translocation protein TolB	7475.95	423.444	178.974	667.658	OK	8799.77	500.096	208.423	791.75	OK	10976	597.841	321.717	873.156	OK	10092.1	559.769	299.611	818.721	OK	0.240034	0.497591	0.40266	1.18102	1.411854	1.321943
RSc0736	***pal***	peptidoglycan-associated lipoprotein precursor	15883.8	2865.04	953.482	4686.38	OK	18614.3	3393.57	1096.93	5529.55	OK	24191.7	3977.55	1746.81	6108.34	OK	22572.2	3924.43	1643.99	5806.22	OK	0.244248	0.473325	0.453928	1.184476	1.388305	1.369764

RSc0737		hypothetical protein	4529.98	440.02	186.724	691.94	OK	5972.62	583.491	240.196	924.954	OK	4998.39	458.628	244.038	671.895	OK	5753.19	544.387	281.156	806.428	OK	0.407141	0.059755	0.307064	1.326056	1.042289	1.237187
RSc0738		putative signal peptide protein	692.63	86.9504	37.2095	136.339	OK	780.157	98.6685	41.6937	154.944	OK	634.664	74.338	39.6249	108.898	OK	615.572	75.0041	38.4954	108.427	OK	0.182397	-0.22609	-0.21322	1.134768	-1.16966	-1.15928
RSc0739		hypothetical protein	561.811	37.9256	18.0623	57.7647	OK	685.397	46.4532	21.2939	71.5567	OK	446.821	28.8663	16.7937	40.7604	OK	490.463	32.3768	18.4447	46.2824	OK	0.292606	-0.39379	-0.22821	1.224851	-1.31384	-1.17138
RSc0740		hypothetical protein	344.794	113.323	37.1614	141.43	OK	111.32	37.2686	12.0865	43.1144	OK	102.258	28.9488	12.1013	35.414	OK	93.3783	29.1398	11.0335	32.2107	OK	-1.60441	-1.96887	-1.95938	-3.04071	-3.9146	-3.88894
RSc0741	***che***	chemotaxis response regulator transcription regulator protein	792.012	209.564	70.6026	282.092	OK	679.877	182.671	60.9027	241.384	OK	351.232	81.9165	37.4915	102.435	OK	454.2	114.754	48.1585	141.966	OK	-0.19814	-1.35516	-0.86885	-1.14722	-2.55826	-1.8262
RSc0742	***cheZ2***	chemotaxis regulator CheZ	2416.6	316.32	129.196	503.49	OK	1448.99	191.141	76.4146	305.166	OK	898.088	109.43	57.4116	161.258	OK	1800.48	228.585	114.435	337.475	OK	-0.72675	-1.53138	-0.46865	-1.6549	-2.89062	-1.38382
RSc0743	***aroG2***	phospho-2-dehydro-3-deoxyheptonate aldolase	5891.92	373.101	161.904	582.668	OK	8313.09	528.392	220.187	833.444	OK	3994.71	242.536	134.984	349.882	OK	8795.7	544.955	292.601	793.579	OK	0.502042	-0.62137	0.546571	1.416217	-1.53833	1.46061
RSc0744		putative DNA/RNA non-specific endonuclease protein	1108.41	107.18	46.2785	167.847	OK	1440.71	140.112	59.2676	220.348	OK	658.005	60.1149	33.2236	86.7805	OK	1265.59	119.222	62.841	174.865	OK	0.386545	-0.83424	0.153615	1.307259	-1.78292	1.112353
RSc0745		hypothetical protein	214.989	42.7226	17.0941	63.3409	OK	244.719	49.2044	19.4793	72.2192	OK	127.822	22.9787	11.2422	31.3736	OK	163.185	31.1881	14.5103	40.2628	OK	0.203788	-0.8947	-0.454	1.151718	-1.85923	-1.36984
RSc0746	***tauD***	putative alpha-ketoglutarate-dependent taurine dioxygenase oxidoreductase protein	350.879	30.372	14.7141	45.9905	OK	419.518	36.4997	17.3442	55.5867	OK	374.574	30.7695	17.8113	43.6867	OK	447.853	37.8154	21.037	54.5558	OK	0.265143	0.018759	0.316232	1.201755	1.013088	1.245074
RSc0747		putative Nudix hydrolase protein	248.455	53.3128	20.77	74.5769	OK	263.119	57.1769	22.0246	79.177	OK	230.079	44.3751	21.5897	61.4689	OK	301.893	62.1869	28.3279	81.2709	OK	0.10095	-0.26473	0.222129	1.07248	-1.20141	1.166453
RSc0748		hypothetical protein	463.444	45.4277	21.0738	69.3549	OK	553.838	54.6038	24.691	84.2953	OK	549.078	50.8212	28.3138	72.9178	OK	670.874	64.0528	34.442	93.552	OK	0.265429	0.161858	0.495689	1.201993	1.118727	1.409994
RSc0749		ABC transporter ATP-binding protein	974.55	118.195	49.8109	186.419	OK	811.437	99.1207	42.0047	155.845	OK	1141.51	129.41	68.0237	190.136	OK	864.883	101.865	52.1637	146.59	OK	-0.25391	0.13078	-0.21451	-1.19244	1.094886	-1.16031
RSc0750		hypothetical protein	2519.02	748.808	235.285	962.948	OK	2883.27	871.743	270.041	1099.08	OK	4190.34	1084.8	454.974	1482.74	OK	3105.06	878.654	339.507	1092.64	OK	0.219307	0.534761	0.230699	1.164174	1.448702	1.173404
RSc0751		hypothetical protein	3141.68	548.266	179.134	914.591	OK	2414.99	425.825	140.809	709.017	OK	2473.08	394.37	178.87	607.199	OK	1857.59	312.696	132.567	488.272	OK	-0.36462	-0.47533	-0.81012	-1.28754	-1.39023	-1.75335
RSc0752		hypothetical protein	1562.73	464.538	20.8083	951.235	OK	1184.04	357.988	17.8384	744.979	OK	1291.56	334.36	78.4411	591.027	OK	1143.2	323.498	92.5328	554.914	OK	-0.37589	-0.47439	-0.52204	-1.29764	-1.38933	-1.43598
RSc0753		hypothetical protein	19802.3	7655.11	1845.96	11818.9	OK	13728.2	5419.48	1331.35	8022.16	OK	14740.6	4816.18	1775.97	5806.44	OK	13716.6	5014.53	1666.2	5371.04	OK	-0.49827	-0.66853	-0.61031	-1.41252	-1.58946	-1.52659
RSc0754		antioxidant oxidoreductase protein	11928.9	1610.53	592.408	2627.94	OK	4066.38	553.411	222.632	878.03	OK	6494.46	814.773	412.707	1214.86	OK	4196.59	549.254	269.438	812.986	OK	-1.54111	-0.98307	-1.55199	-2.91019	-1.97666	-2.93221
RSc0755		hypothetical protein	1147.96	60.5483	26.9152	94.1568	OK	487.598	25.7982	12.5263	39.0224	OK	572.42	29.084	16.9969	40.9763	OK	650.022	33.5907	19.3397	47.8669	OK	-1.23082	-1.05786	-0.85002	-2.347	-2.08184	-1.80253
RSc0756	***gcdH***	glutaryl-CoA dehydrogenase oxidoreductase	1461.32	82.1203	32.6436	131.411	OK	930.117	52.4426	18.9559	85.9665	OK	1661.68	89.8155	49.0087	130.706	OK	933.783	51.3895	27.3944	75.3831	OK	-0.647	0.129226	-0.67627	-1.56591	1.093706	-1.598
RSc0757		putative transcription regulator protein	294.089	28.6961	0.097576	73.8653	OK	392.839	38.5536	0.392564	84.1068	OK	290.1	26.734	0.460772	58.2416	OK	277.415	26.3678	3.04154	50.1854	OK	0.426011	-0.10218	-0.12208	1.343514	-1.07339	-1.0883
RSc0758		putative tryptophan-2,3-dioxygenase	744.349	66.3022	29.6172	102.969	OK	1900.71	170.198	73.3516	266.409	OK	730.252	61.6612	34.4578	88.7289	OK	1277.38	110.955	59.109	162.885	OK	1.360085	-0.10469	0.742846	2.567004	-1.07527	1.673474
RSc0759		Kynureninase protein	717.983	42.343	19.5155	64.9146	OK	2098.51	124.191	55.1055	193.254	OK	709.134	40.175	23.0517	57.148	OK	1198.51	69.1948	38.3013	99.6544	OK	1.552365	-0.07583	0.70854	2.932976	-1.05396	1.63415
RSc0760		putative peptidase protein	179.496	24.6999	11.1424	37.925	OK	408.478	56.6693	24.6359	87.708	OK	166.724	21.2951	11.4962	30.959	OK	219.394	29.2569	15.1266	41.1443	OK	1.198062	-0.21398	0.244272	2.294313	-1.15989	1.184495
RSc0761		transcription regulator protein	285.976	49.9067	20.7393	75.4377	OK	349.599	61.6432	25.348	93.0236	OK	248.975	39.7029	20.3397	55.1564	OK	190.383	32.0479	15.5539	43.0723	OK	0.304708	-0.32999	-0.639	1.235169	-1.257	-1.55725
RSc0762		hypothetical protein	2187.41	2500.92	370.228	1533.18	OK	1230.96	1463.83	207.514	870.813	OK	1486.07	1234.76	296.174	950.826	OK	3172.14	3385.78	633.474	2039.15	OK	-0.77271	-1.01823	0.437029	-1.70848	-2.02543	1.353814
RSc0763		putative monooxygenase oxidoreductase protein	4523.9	703.706	273.481	1132.94	OK	2595.31	407.445	159.214	650.718	OK	2564.22	367.406	184.749	546.416	OK	5064.19	761.659	358.689	1090.29	OK	-0.78837	-0.9376	0.114172	-1.72712	-1.91534	1.082354
RSc0764	***msrA***	methionine sulfoxide reductase A	5006.61	778.794	300.091	1256.83	OK	4527.3	710.754	273.704	1139.09	OK	8909.74	1276.6	620.757	1910.58	OK	6146.65	924.462	433.14	1329.31	OK	-0.13189	0.712993	0.247372	-1.09573	1.639201	1.187043
RSc0765		hypothetical protein	2358.8	167.669	74.7124	260.559	OK	1883.23	134.428	59.2151	208.881	OK	1886.21	128.109	71.0269	185.003	OK	1693.5	117.661	64.1265	170.786	OK	-0.31878	-0.38824	-0.51098	-1.24728	-1.3088	-1.42502
RSc0766	***cfa2***	putative cyclopropane-fatty-acyl-phospholipid synthase protein	4553.31	276.899	123.053	430.078	OK	2301.83	140.484	62.344	218.415	OK	2634.24	153.764	86.2698	220.617	OK	2421.49	144.125	79.8177	207.713	OK	-0.97895	-0.84864	-0.94204	-1.97104	-1.80081	-1.92124
RSc0767	***pdxH1***	pyridoxamine 5'-phosphate oxidase	539.501	72.8385	31.3438	113.483	OK	492.198	66.9853	28.925	103.001	OK	611.322	76.6944	40.2665	110.758	OK	514.034	67.2773	34.4999	95.4465	OK	-0.12086	0.07442	-0.11458	-1.08738	1.052938	-1.08266
RSc0770		putative transmembrane dehydrogenase (small subunit) oxidoreductase protein	327.554	63.9102	0.261793	127.493	OK	43.2398	8.53445	0	17.0165	OK	47.7943	8.44858	1.67868	15.2373	OK	77.9664	14.6368	1.80781	27.3754	OK	-2.90468	-2.91927	-2.12645	-7.4885	-7.56461	-4.36641
RSc0771		putative transmembrane dehydrogenase (large subunit) oxidoreductase protein	2576.83	113.82	41.1228	186.4	OK	439.758	19.4751	7.97147	30.9559	OK	264.536	11.2991	6.36425	16.231	OK	575.682	24.9411	13.6472	36.3059	OK	-2.54705	-3.33247	-2.19016	-5.84439	-10.0734	-4.56355
RSc0772		putative oxidoreductase dehydrogenase (cytochrome C subunit) signal peptide protein	1730.05	98.7736	43.7827	153.564	OK	859.277	49.2242	22.5154	75.8833	OK	589.092	32.3362	18.8625	45.8018	OK	536.699	30.0043	17.3358	42.5514	OK	-1.00476	-1.61098	-1.71896	-2.00661	-3.05458	-3.29198
RSc0773		hypothetical protein	2691.42	84.0998	37.3138	130.859	OK	1743.39	54.577	23.8136	85.3175	OK	1281.55	38.949	22.4918	55.4151	OK	1764.22	54.1619	30.8656	77.221	OK	-0.62381	-1.11052	-0.63482	-1.54094	-2.15923	-1.55275
RSc0774		hypothetical protein	922.831	80.2035	35.4455	124.879	OK	1025.8	89.6113	39.1541	139.5	OK	574.643	47.3881	26.665	68.1047	OK	700.791	59.4095	32.2935	85.0606	OK	0.160015	-0.75914	-0.43297	1.117299	-1.69248	-1.35001
RSc0775	***katGb***	peroxidase/catalase oxidoreductase protein	31377.4	1675.56	88.6978	3260.08	OK	27722.3	1485.05	93.1027	2923.68	OK	10542.7	542.165	185.699	899.591	OK	32059.8	1677.19	202.144	3160.9	OK	-0.17413	-1.62784	0.001403	-1.12829	-3.0905	1.000973
RSc0776	***katGa***	peroxidase/catalase oxidoreductase protein	20915.6	1788.82	51.2296	3907.31	OK	18705.3	1607.89	51.8331	3475.57	OK	7680.3	623.645	133.007	1114.4	OK	23168.5	1933.16	77.765	3848.28	OK	-0.15384	-1.52021	0.111953	-1.11253	-2.86833	1.08069
RSc0777		hypothetical protein	2345.61	598.656	199.27	820.257	OK	2216.27	574.098	187.914	776.39	OK	1303.78	294.351	129.979	414.643	OK	2729.73	665.864	274.076	871.488	OK	-0.06043	-1.02419	0.1535	-1.04278	-2.03382	1.112265
RSc0778		hypothetical protein	458.373	58.5701	26.0118	90.8963	OK	398.359	51.2879	22.7241	79.2925	OK	522.403	62.2214	33.3875	90.1462	OK	290.107	35.9689	18.9832	50.9397	OK	-0.19155	0.087246	-0.70341	-1.14199	1.062341	-1.62835
RSc0779		putative thioredoxin protein	851.844	80.5567	35.7529	125.135	OK	774.637	73.6662	32.5443	114.593	OK	1097.05	98.1091	53.2821	142.663	OK	580.215	53.4685	29.1658	77.7	OK	-0.129	0.284382	-0.59132	-1.09354	1.217889	-1.50662
RSc0780	***fadD2***	acyl-CoA synthetase	2131.64	88.8538	39.7649	137.894	OK	883.197	36.9053	16.902	57.0064	OK	1589.44	64.1383	36.3995	91.8547	OK	1913.8	78.2708	44.2153	112.325	OK	-1.26761	-0.47025	-0.18296	-2.40762	-1.38535	-1.13521
RSc0781		Ankyrin repeat-containing protein	1304.13	134.594	56.781	211.966	OK	893.317	92.7598	40.2301	144.943	OK	828.064	80.5141	43.7285	115.99	OK	1160.43	116.575	60.7834	171.6	OK	-0.53704	-0.7413	-0.20736	-1.45099	-1.67168	-1.15457
RSc0782		hypothetical protein	2747.2	302.428	126.819	475.895	OK	2223.63	246.39	103.197	389.51	OK	2822.09	291.814	154.279	427.201	OK	2517.59	269.536	139.906	398.199	OK	-0.29565	-0.05154	-0.16611	-1.22744	-1.03637	-1.12203
RSc0784	***fkpA***	FKBP-type peptidyl-prolyl cis-trans isomerase	2381.11	794.552	236.683	973.474	OK	3276.11	1113.82	324.006	1338.96	OK	1882.87	540.252	220.925	703.873	OK	2294.57	726.707	269.92	856.241	OK	0.487303	-0.55651	-0.12877	1.401821	-1.47071	-1.09336
RSc0785		hypothetical protein	767.674	127.742	50.5589	201.414	OK	1282.48	215.519	81.4104	342.299	OK	763.597	116.504	58.2084	166.872	OK	720.736	115.801	54.9681	169.533	OK	0.754582	-0.13285	-0.14159	1.687143	-1.09646	-1.10312
RSc0786		hypothetical protein	1970.4	47.7948	16.4603	79.1467	OK	1757.19	42.6843	14.8829	70.345	OK	1181.52	27.9629	14.1407	41.768	OK	1297.32	30.9456	16.1704	45.7373	OK	-0.16315	-0.77334	-0.62712	-1.11973	-1.70922	-1.54448
RSc0787		hypothetical protein	717.983	38.8233	0.757019	85.8135	OK	636.638	34.5349	0.650948	75.8897	OK	483.5	25.17	4.3208	46.0712	OK	441.507	23.3861	3.17813	43.5933	OK	-0.16887	-0.62522	-0.73127	-1.12418	-1.54244	-1.6601
RSc0788		hypothetical protein	335.667	97.1212	33.7099	127.796	OK	415.838	122.328	41.0892	160.332	OK	459.047	116.003	50.9576	151.384	OK	378.046	104.2	42.5198	116.144	OK	0.332897	0.256304	0.101497	1.25954	1.194415	1.072886
RSc0789		hypothetical protein	60.846	56.8599	10.4434	36.842	OK	91.0797	88.2265	15.9552	55.9882	OK	152.275	106.615	29.4764	84.4226	OK	105.164	91.7973	20.0325	58.6666	OK	0.6338	0.906927	0.69104	1.551647	1.875047	1.614447
RSc0790		signal peptide protein	691.616	109.165	44.1768	174.109	OK	840.877	133.97	53.1026	213.54	OK	773.6	112.363	57.2899	161.838	OK	649.115	99.0343	47.9273	146.791	OK	0.2954	0.041657	-0.14051	1.227225	1.029295	-1.10229
RSc0791	***glnS***	glutaminyl-tRNA synthetase	8121.93	330.84	136.672	524.741	OK	9212.85	376.181	153.151	598.896	OK	8656.32	341.498	187.679	495.167	OK	6783.08	271.131	150.391	392.124	OK	0.185293	0.045743	-0.28714	1.137048	1.032215	-1.22022
RSc0792		hypothetical protein	32.4512	10.8287	3.45655	12.9166	OK	63.4798	21.582	6.9131	24.5597	OK	33.3448	9.56763	3.58936	12.3833	OK	47.1425	14.9304	5.38403	16.511	OK	0.994969	-0.17863	0.463393	1.993037	-1.13181	1.37878
RSc0793		hypothetical protein	423.894	20.3572	10.1122	30.5508	OK	728.637	35.0917	16.368	53.6032	OK	335.671	15.5617	9.38391	21.7267	OK	479.584	22.5792	13.2305	31.8292	OK	0.785591	-0.38754	0.149455	1.723798	-1.30816	1.109151
RSc0794		hypothetical protein	288.004	57.2322	22.7921	86.0005	OK	382.719	76.9512	30.0803	111.973	OK	220.076	39.5632	19.6085	53.4659	OK	248.405	47.4752	22.223	60.0021	OK	0.427117	-0.53267	-0.26965	1.344544	-1.4466	-1.20552
RSc0795		hypothetical protein	761.589	168.457	60.7047	242.25	OK	618.238	138.538	50.0423	194.767	OK	612.434	121.437	57.2205	173.485	OK	629.171	133.497	58.9035	177.131	OK	-0.2821	-0.47217	-0.33557	-1.21596	-1.3872	-1.26188
RSc0796		Acyl-CoA-transferase family III protein	1839.58	107.602	47.7781	167.402	OK	1840.91	108.053	47.7781	167.606	OK	1857.31	104.386	58.5517	150.152	OK	1674.46	95.8896	53.2197	138.532	OK	0.006034	-0.04378	-0.16626	1.004191	-1.03081	-1.12214
RSc0797	***alaS***	alanyl-tRNA synthetase	11952.2	308.757	118.032	499.005	OK	17350.2	448.886	162.058	735.627	OK	12601	317.381	169.059	465.396	OK	11429.3	290.285	156.592	424.238	OK	0.539877	0.039744	-0.089	1.453849	1.027931	-1.06363
RSc0798		putative purine nucleoside permease protein	2681.28	175.484	49.228	301.718	OK	210.679	13.8419	3.93374	23.771	OK	292.323	18.3261	8.26022	28.3841	OK	221.207	14.161	6.37533	21.8979	OK	-3.66423	-3.25937	-3.63134	-12.6777	-9.57563	-12.3921
RSc0799		putative purine nucleoside permease protein	2351.7	172.299	15.0927	329.11	OK	264.959	19.4966	5.3716	33.6277	OK	345.675	24.1757	10.4906	37.8363	OK	280.135	20.0554	9.02056	31.1424	OK	-3.14362	-2.83328	-3.10285	-8.83739	-7.12695	-8.59115
RSc0800		putative ferrisiderophore receptor signal peptide protein	377.245	12.4207	3.2535	21.5278	OK	3681.83	121.459	41.7481	201.534	OK	71411.3	2285.12	129.403	4437.58	OK	2374.35	76.7894	33.9555	119.624	OK	3.289651	7.52338	2.628161	9.778756	183.9767	6.182373
RSc0801		putative lipoprotein transmembrane	385.358	43.0854	8.16185	78.1525	OK	1418.63	159.665	3.0388	351.15	OK	48781.3	5119.15	12.5929	12084.9	OK	1960.95	213.174	73.3791	353.089	OK	1.889777	6.892561	2.306761	3.70578	118.814	4.947709
RSc0802		putative stomatin-like transmembrane protein	682.489	74.7492	32.6298	116.695	OK	546.478	60.2417	26.7908	93.5961	OK	8317.32	855.863	442.095	1269.62	OK	873.949	93.0952	48.6228	136.974	OK	-0.3113	3.51725	0.316649	-1.24082	11.44979	1.245434
RSc0803		hypothetical protein	1322.39	68.0756	30.1723	105.785	OK	681.717	35.2012	16.3167	53.7814	OK	2065.16	102.47	57.8664	146.532	OK	816.834	41.2055	23.4703	58.9455	OK	-0.95151	0.589992	-0.7243	-1.9339	1.505238	-1.6521
RSc0804		transcription regulator protein	524.29	45.2002	21.0419	69.0061	OK	527.158	45.6796	21.2545	70.0688	OK	442.375	36.1987	20.688	51.5102	OK	506.782	42.6211	23.6234	61.5746	OK	0.015221	-0.32039	-0.08476	1.010606	-1.24867	-1.06051
RSc0805		hypothetical protein	345.808	20.8523	10.367	31.3104	OK	270.479	16.3681	8.22029	24.3991	OK	213.407	12.3547	7.33454	17.355	OK	229.366	13.5375	8.00601	19.0595	OK	-0.34932	-0.75515	-0.62325	-1.27396	-1.6878	-1.54034
RSc0806		hypothetical protein	300.174	30.9796	14.6664	47.3585	OK	294.399	30.5697	14.3386	46.7849	OK	192.289	18.6966	10.5886	26.5119	OK	299.173	30.0546	16.4891	43.1627	OK	-0.01922	-0.72854	-0.04373	-1.01341	-1.65696	-1.03078
RSc0807		4-oxalocrotonate tautomerase	207.891	318.074	42.934	151.632	OK	188.599	301.583	38.845	136.98	OK	304.55	323.485	69.9184	188.914	OK	190.383	271.844	43.699	121.013	OK	-0.07681	0.024336	-0.22658	-1.05468	1.017012	-1.17006
RSc0808	***ltaA***	low specificity L-threonine aldolase protein	2248.26	165.284	73.2111	257.232	OK	2172.11	160.381	70.7294	250.035	OK	1891.76	132.744	73.3857	191.696	OK	2343.52	168.346	91.7475	244.884	OK	-0.04344	-0.3163	0.026482	-1.03057	-1.24513	1.018526
RSc0809		hypothetical protein	593.249	90.9636	37.7332	142.523	OK	539.118	83.4178	34.5242	131.126	OK	402.361	56.8813	29.6917	81.8706	OK	498.622	73.943	36.3506	108.942	OK	-0.12493	-0.67733	-0.29888	-1.09046	-1.59918	-1.23019
RSc0810		hypothetical protein	555.727	482.989	90.6698	345.449	OK	549.238	494.201	88.975	342.907	OK	713.58	469.673	131.243	404.039	OK	892.081	724.476	163.287	510.203	OK	0.033108	-0.04033	0.584948	1.023214	-1.02835	1.499984
RSc0811	***sorB***	sulfite:cytochrome C oxidoreductase subunit E	1288.92	393.92	120.665	507.591	OK	677.118	210.565	66.1322	261.413	OK	425.703	112.968	49.1858	144.995	OK	692.632	201.363	78.219	240.122	OK	-0.90364	-1.80199	-0.9681	-1.87078	-3.48701	-1.95627
RSc0812	***sorAb***	sulfite:cytochrome C oxidoreductase subunit A	9.1269	413.046	2.38522	13.715	OK	4.59998	230.73	0.596305	9.54089	OK	2.22299	33.9964	0	7.05907	OK	3.62634	117.965	0.588256	8.23558	OK	-0.8401	-3.60285	-1.80794	-1.79017	-12.1497	-3.50143
RSc0813	***sorAa***	sulfite:cytochrome C oxidoreductase subunit A	7365.41	485.007	205.575	764.282	OK	880.437	58.2021	26.3253	89.9919	OK	820.283	51.7309	29.258	74.0087	OK	983.646	63.3532	35.0538	91.0062	OK	-3.05886	-3.22891	-2.93652	-8.33315	-9.37558	-7.6556
RSc0814		hypothetical protein	3663.94	500.973	203.58	796.619	OK	1271.44	175.257	69.7932	278.766	OK	1975.13	250.764	129.071	372.056	OK	1206.67	159.906	78.5865	233.752	OK	-1.51526	-0.9984	-1.64751	-2.8585	-1.99779	-3.13292
RSc0815		hypothetical protein	4725.71	1281.76	411.101	1837.61	OK	376.279	103.669	36.1549	133.806	OK	1120.39	267.188	116.395	368.77	OK	658.181	170.348	69.5822	212.568	OK	-3.62807	-2.2622	-2.91157	-12.364	-4.79722	-7.52436
RSc0816		hypothetical protein	120.678	79.1025	18.4364	62.8857	OK	10.12	6.83451	1.26276	7.07148	OK	5.55747	2.8729	0.498287	4.23544	OK	10.879	6.6798	1.24572	6.47773	OK	-3.53281	-4.78314	-3.56585	-11.574	-27.534	-11.842
RSc0817	***gst1***	glutathione S-transferase protein	1818.28	255.114	101.527	408.288	OK	1980.75	280.228	111.276	448.318	OK	3500.1	455.293	231.619	677.875	OK	1844	250.638	123.278	364.309	OK	0.135459	0.835653	-0.02554	1.098442	1.784665	-1.01786
RSc0818		endoglucanase c-terminal domain harboring protein	1299.06	137.373	57.7187	216.925	OK	239.199	25.4535	11.9447	38.5905	OK	366.793	36.502	20.518	52.4074	OK	281.042	28.919	15.8211	41.7776	OK	-2.43216	-1.91205	-2.24801	-5.39702	-3.76344	-4.75027
RSc0819		hypothetical protein	302.202	79.9616	28.7817	108.607	OK	67.1598	18.0446	6.36059	22.5801	OK	83.3621	19.4422	8.62775	25.0989	OK	62.5544	15.8044	6.43159	18.981	OK	-2.14774	-2.04012	-2.33898	-4.43133	-4.11279	-5.05945

RSc0820		putative transcription regulator protein	317.413	39.6153	18.0475	60.8865	OK	247.479	31.116	14.153	47.9683	OK	355.678	41.4314	22.5828	59.7834	OK	232.993	28.2265	14.899	40.574	OK	-0.3484	0.064667	-0.48901	-1.27315	1.045843	-1.40348
RSc0821		putative NADPH nitroreductase protein	113.579	12.9004	6.00723	19.2585	OK	77.2797	8.83667	4.06371	13.6046	OK	115.595	12.3138	6.71047	17.6912	OK	106.071	11.7113	6.18758	16.7326	OK	-0.54584	-0.06714	-0.13951	-1.45987	-1.04764	-1.10153
RSc0822		hypothetical protein	37.5217	16.5199	4.63014	18.0996	OK	27.5999	12.4355	3.36737	13.0486	OK	53.3517	19.5364	7.05907	21.3848	OK	26.291	10.9148	3.11429	11.6267	OK	-0.40974	0.24196	-0.59792	-1.32845	1.182598	-1.51353
RSc0824	***ripAG***	Type III effector protein	240.342	112.453	31.4416	115.792	OK	167.439	80.2542	22.1175	77.1944	OK	210.073	81.1168	30.5893	87.0618	OK	199.449	87.8853	29.0919	79.7888	OK	-0.48667	-0.47125	-0.35563	-1.40121	-1.38631	-1.27954
RSc0830		hypothetical protein	172.397	14.0183	6.95315	21.062	OK	1007.4	82.3098	36.3184	128.194	OK	968.112	74.8788	41.2889	107.884	OK	714.39	56.7035	31.233	81.9784	OK	2.553753	2.417246	2.016126	5.871596	5.341504	4.044963
RSc0834		hypothetical protein	19.2679	3.69239	0.387958	6.98324	OK	21.1599	4.10115	0.517277	7.62984	OK	20.0069	3.47854	0.765441	6.12353	OK	26.291	4.84969	1.02059	8.675	OK	0.151474	-0.08607	0.393338	1.110703	-1.06148	1.313428
RSc0835		hypothetical protein	107.495	9.73657	4.25713	15.1264	OK	101.2	9.2156	4.0068	14.388	OK	95.5886	8.20214	4.46195	12.0129	OK	121.483	10.7281	5.82847	15.5426	OK	-0.07934	-0.24741	0.139909	-1.05653	-1.18708	1.101836
RSc0836		hypothetical protein	102.424	14.0045	6.30784	21.3653	OK	69.9197	9.63787	4.27305	14.8539	OK	80.0276	10.1604	5.31939	14.8541	OK	77.0598	10.2119	5.11866	14.6534	OK	-0.5391	-0.46293	-0.45564	-1.45307	-1.37834	-1.37139
RSc0839		hypothetical protein	14.1974	0.428054	0.180901	0.693454	OK	18.3999	0.555749	0.211427	0.875913	OK	16.6724	0.489159	0.205376	0.762824	OK	27.1976	0.80577	0.385145	1.24431	OK	0.376641	0.192511	0.912575	1.298315	1.142751	1.882403
RSc0844		hypothetical protein	10.141	0.561071	0.097136	1.01993	OK	7.35997	0.408538	0	0.777086	OK	12.2264	0.650883	0.191649	1.10198	OK	7.25269	0.393013	0.047912	0.718683	OK	-0.45771	0.214215	-0.51361	-1.37336	1.160072	-1.42761
RSc0845		hypothetical protein	23.3243	1.3986	0.479707	2.33857	OK	25.7599	1.55013	0.601761	2.5274	OK	14.4494	0.831967	0.230311	1.38187	OK	20.8515	1.22386	0.528249	1.93691	OK	0.148406	-0.74939	-0.19254	1.108344	-1.68108	-1.14278
RSc0852		putative bacteriophage-related protein	5.0705	0.870723	0	1.79891	OK	5.51998	0.957595	0	1.79891	OK	5.55747	0.873077	0	1.65632	OK	4.53293	0.751104	0	1.4197	OK	0.137202	0.003895	-0.2132	1.09977	1.002704	-1.15926
RSc0853		bacteriophage-like protein	68.9588	2.43877	1.09633	3.74876	OK	41.3998	1.46719	0.637911	2.30357	OK	61.1322	2.09891	1.09869	3.12439	OK	62.5544	2.17238	1.14602	3.19496	OK	-0.7331	-0.21651	-0.16688	-1.6622	-1.16192	-1.12263
RSc0854		hypothetical conserved protein	9.1269	1.68879	0.505106	2.77808	OK	11.96	2.23735	0.757659	3.53574	OK	8.89196	1.49686	0.498287	2.49144	OK	4.53293	0.808003	0.124572	1.37029	OK	0.405801	-0.17405	-1.06356	1.324824	-1.12822	-2.09008
RSc0856		hypothetical conserved protein	3.0423	2.843	0	5.5118	OK	8.27997	8.02059	0.290095	14.2146	OK	5.55747	3.89107	0	7.72682	OK	0.906586	0.791356	0	1.43089	OK	1.496294	0.452753	-1.84502	2.821171	1.368649	-3.59257
RSc0857		bacteriophage-like protein	58.8178	2.77502	1.27386	4.29338	OK	59.7998	2.82922	1.27741	4.39998	OK	68.9127	3.13979	1.68579	4.60175	OK	49.8622	2.30653	1.20271	3.37684	OK	0.027906	0.17817	-0.26677	1.019531	1.131448	-1.20311
RSc0858		bacteriophage-like protein	39.5499	2.33888	1.13255	3.50061	OK	40.4799	2.40225	1.18403	3.60357	OK	41.1253	2.33615	1.26962	3.40257	OK	43.5161	2.51924	1.37119	3.65649	OK	0.038568	-0.00168	0.107171	1.027094	-1.00117	1.077114
RSc0859		bacteriophage-like protein	23.3243	6.93341	2.21485	8.68902	OK	17.4799	5.28498	1.53336	7.15567	OK	28.8989	7.48139	2.85724	10.5886	OK	24.4778	6.92661	2.35302	8.7398	OK	-0.39167	0.109741	-0.00142	-1.31191	1.079035	-1.00098
RSc0860		bacteriophage-like protein	8.1128	0.619773	0.192242	1.02529	OK	9.19997	0.706006	0.256322	1.15345	OK	11.1149	0.809431	0.316078	1.26431	OK	10.879	0.811781	0.316078	1.26431	OK	0.187941	0.385168	0.389351	1.139136	1.306012	1.309804
RSc0862		signal peptide protein	5.0705	1.14507	0.288148	1.87296	OK	10.12	2.31588	0.720369	3.45777	OK	4.44598	0.898401	0.142129	1.56342	OK	3.62634	0.785163	0.142129	1.42129	OK	1.016125	-0.35	-0.54437	2.022479	-1.27456	-1.45839
RSc0863		probable bacteriophage protein	46.6486	4.9088	2.32975	7.32208	OK	51.5198	5.45524	2.57937	8.32054	OK	94.4771	9.35804	5.17118	13.4615	OK	68.9005	7.05554	3.89127	10.2402	OK	0.152272	0.930836	0.523386	1.111318	1.90638	1.437325
RSc0866		hypothetical protein	1.0141	0.135214	0	0.666669	OK	NA	NA	NA	0.199693	OK	2.22299	0.275623	0	1.11589	OK	0	0	0	0.196997	OK	NA	1.027452	NA	NA	2.038421	NA
RSc0868	***ripP1, popP2***	Type III effector protein (acetyltransferase) PopP2	943.113	46.5419	21.2475	71.7323	OK	719.437	35.6073	16.638	54.6113	OK	506.842	24.131	14.2914	33.9528	OK	783.29	37.8888	21.8701	53.7875	OK	-0.38636	-0.94764	-0.29676	-1.30709	-1.92872	-1.22838
RSc0869		putative cytosine-specific methyltransferase protein	24.3384	3.75868	0.55614	6.89613	OK	22.9999	3.58461	0.667368	6.45122	OK	37.7908	5.37835	1.53617	9.21702	OK	35.3568	5.2802	1.86535	8.66839	OK	-0.06841	0.516938	0.490366	-1.04856	1.430915	1.404802
RSc0870		putative cytosine-specific methyltransferase protein	98.3677	16.892	7.55582	26.2737	OK	73.5997	12.7679	5.20434	20.4704	OK	136.714	21.4777	11.7825	31.2628	OK	69.8071	11.567	5.63378	17.5641	OK	-0.40382	0.346499	-0.54633	-1.32301	1.271472	-1.46036
RSc0873		putative bacteriophage-related transmembrane protein	6.0846	0.099481	0.015704	0.188445	OK	5.51998	0.090336	0.015704	0.157037	OK	7.78046	0.12456	0.046475	0.216884	OK	5.43952	0.087546	0.015492	0.154917	OK	-0.13911	0.324355	-0.18437	-1.10122	1.252105	-1.13632
RSc0874		hypothetical protein	60.846	16.7127	5.85464	20.6539	OK	58.8798	16.4308	5.69201	19.6781	OK	77.8046	18.766	8.1821	25.3485	OK	59.8347	15.6775	6.2569	18.6103	OK	-0.02454	0.167176	-0.09225	-1.01716	1.122859	-1.06603
RSc0875		putative transmembrane protein	8.1128	0.152368	0.053802	0.251076	OK	6.43998	0.121085	0.035868	0.215208	OK	7.78046	0.142929	0.053076	0.247687	OK	10.879	0.20107	0.070768	0.318454	OK	-0.33154	-0.09226	0.400138	-1.25836	-1.06604	1.319634
RSc0876		hypothetical protein	6.0846	0.386442	0.109525	0.657153	OK	18.3999	1.173	0.492865	1.80717	OK	22.2299	1.35355	0.648282	2.05289	OK	13.5988	0.845012	0.378164	1.29656	OK	1.601879	1.808424	1.12872	3.035384	3.502595	2.186646
RSc0878		hypothetical protein	5.0705	1.37528	0.271231	2.71231	OK	3.67999	1.01388	0	1.92858	OK	3.33448	0.795202	0	1.90783	OK	4.53293	1.1732	0.258817	2.32935	OK	-0.43984	-0.79033	-0.22928	-1.35645	-1.72947	-1.17225
RSc0882		putative transmembrane protein	6.0846	1.24361	0.270025	2.02519	OK	8.27997	1.71283	0.405038	2.97028	OK	8.89196	1.64029	0.53276	2.6638	OK	0.906586	0.178088	0	0.26638	OK	0.461848	0.399417	-2.80387	1.377305	1.318975	-6.98312
RSc0883		putative lysozyme (endolysin) protein	1.0141	0.217603	0	0.85831	OK	2.75999	0.599758	0	1.30383	OK	2.22299	0.428745	0	0.964344	OK	1.81317	0.373495	0	0.617969	OK	1.462682	0.978421	0.77939	2.756203	1.970308	1.716406
RSc0884		hypothetical protein	124.734	39.2228	13.1969	45.2215	OK	138.919	44.4672	14.7806	53.3156	OK	92.2541	25.1103	10.5886	31.0715	OK	107.884	32.2466	12.498	36.4526	OK	0.181049	-0.64341	-0.28255	1.133708	-1.56202	-1.21634
RSc0886		hypothetical protein	804.181	65.8902	29.5511	101.968	OK	890.557	73.3215	32.676	113.925	OK	504.619	39.317	22.3835	56.0928	OK	563.896	45.0964	25.0642	65.073	OK	0.154172	-0.74491	-0.54705	1.112783	-1.67587	-1.4611
RSc0887		hemagglutinin-related protein	824.463	5.13305	2.25581	8.01181	OK	828.917	5.16267	2.26807	8.06698	OK	731.364	4.47921	2.60028	6.34953	OK	1012.66	6.21456	3.55574	8.87725	OK	0.008301	-0.19657	0.275836	1.00577	-1.14597	1.210695
RSc0888		activation/secretion protein	112.565	4.49986	2.32468	6.64714	OK	172.959	6.93049	3.55967	10.2795	OK	96.7	3.74512	2.22164	5.30326	OK	103.351	4.05458	2.4008	5.73325	OK	0.623077	-0.26487	-0.15033	1.540157	-1.20153	-1.10982
RSc0889		hypothetical protein	210.933	10.6794	5.43411	15.8982	OK	219.879	11.1657	5.70357	16.6167	OK	223.41	10.9064	6.55696	15.2405	OK	230.273	11.4257	6.82278	16.038	OK	0.064243	0.030344	0.097452	1.045536	1.021256	1.069882
RSc0890		putative bacteriophage related protein	5.0705	0.971682	0	2.7157	OK	4.59998	0.891554	0	2.19843	OK	4.44598	0.77301	0	1.65846	OK	3.62634	0.668923	0	1.65846	OK	-0.12416	-0.33	-0.53864	-1.08987	-1.25701	-1.45261
RSc0891		putative site-specific integrase/recombinase protein	76.0575	4.01159	1.35042	6.65896	OK	55.1998	2.92055	1.07102	4.79631	OK	50.0173	2.54132	1.14844	3.95063	OK	47.1425	2.43615	1.05656	3.81281	OK	-0.45793	-0.6586	-0.71957	-1.37357	-1.57855	-1.64669
RSc0892		putative phage-related protein	86.1985	17.6177	5.31403	30.0447	OK	50.5998	10.4673	2.8961	18.204	OK	47.7943	8.81655	3.5049	14.2041	OK	58.0215	11.3976	4.91095	18.0723	OK	-0.75114	-0.99874	-0.6283	-1.68312	-1.99825	-1.54574
RSc0896		putative transmembrane protein	4927.51	87.5652	36.7933	138.243	OK	3964.27	70.5215	30.2443	110.737	OK	3351.16	58.2756	33.1754	83.2153	OK	3512.11	61.4275	34.8367	88.132	OK	-0.31229	-0.58747	-0.51147	-1.24168	-1.5026	-1.4255
RSc0897		hydrolase protein	1051.62	128.267	17.8269	238.564	OK	1362.51	167.39	23.707	311.085	OK	951.44	108.443	29.6481	187.28	OK	973.673	115.319	33.5152	197.132	OK	0.384063	-0.24221	-0.15352	1.305012	-1.18281	-1.11228
RSc0898	***ubiG***	3-demethylubiquinone-9 3-methyltransferase	2616.38	271.33	76.5338	466.047	OK	3278.87	342.125	95.2645	590.056	OK	2530.87	247.217	117.119	377.827	OK	2408.8	243.138	113.858	372.964	OK	0.334475	-0.13427	-0.15827	1.260918	-1.09754	-1.11595
RSc0899		outer membrane lipoprotein transmembrane	18141.2	3415.58	1104.53	5543.08	OK	10816.4	2059.27	694.1	3229.63	OK	13201.2	2258.18	1041.97	3350.16	OK	10778.4	1954.16	855.912	2711.44	OK	-0.73	-0.59697	-0.80558	-1.65864	-1.51254	-1.74785
RSc0900		signal peptide protein	163264	21240.9	7394.45	35011.5	OK	163881	21485.9	7427.48	35538.6	OK	226210	27405.4	4160.79	50578	OK	156600	19763.1	4454.56	34982.5	OK	0.016545	0.367615	-0.10404	1.011534	1.290218	-1.07478
RSc0901	***gyrA***	DNA gyrase subunit A	17018.6	439.108	158.604	719.508	OK	19175.5	495.512	176.461	814.68	OK	17268.2	434.416	222.337	646.12	OK	13852.6	351.411	185.289	517.407	OK	0.174344	-0.0155	-0.32142	1.128451	-1.0108	-1.24956
RSc0902		signal peptide protein	22525.2	3529.43	1173.04	5822.05	OK	32909.2	5204.56	1671.73	8605.46	OK	34713.1	5007.63	2141.45	7826.14	OK	27641.8	4187.09	1772.79	6552.51	OK	0.560341	0.504693	0.246513	1.474618	1.418821	1.186336
RSc0903	***serC***	phosphoserine aminotransferase	3381.01	223.322	100.425	346.191	OK	4378.26	290.323	128.859	451.203	OK	2627.57	166.202	92.9785	239.487	OK	2457.75	158.778	87.335	229.876	OK	0.378533	-0.42619	-0.49211	1.30002	-1.34368	-1.4065
RSc0904	***pheA***	bifunctional chorismate mutase/prephenate dehydratase	3584.84	241.998	108.489	374.865	OK	4555.82	308.774	136.535	480.815	OK	4200.34	271.358	150.005	391.152	OK	3531.15	233.101	127.234	338.266	OK	0.351556	0.165202	-0.05404	1.275936	1.121323	-1.03817
RSc0905	***hisC2***	histidinol-phosphate aminotransferase	3406.36	227.8	102.469	353.089	OK	4714.98	316.562	139.965	491.966	OK	4198.12	268.755	148.466	387.853	OK	4518.42	295.51	160.664	429.022	OK	0.47472	0.238524	0.375439	1.389649	1.179785	1.297234
RSc0906	***tyrA***	putative prephenate dehydrogenase oxidoreductase protein	1148.98	100.673	43.8673	157.305	OK	1521.67	134.021	57.2932	210.506	OK	682.458	56.7209	31.6596	81.7341	OK	705.324	60.2764	32.7928	87.6835	OK	0.412782	-0.82772	-0.74001	1.331251	-1.77488	-1.67019
RSc0907	***aroA***	3-phosphoshikimate 1-carboxyvinyltransferase	1740.2	97.5368	43.1796	151.743	OK	3044.27	171.195	77.3205	264.874	OK	2248.55	121.227	68.2807	173.634	OK	1660.87	91.1665	50.835	131.376	OK	0.811622	0.313693	-0.09744	1.755184	1.242885	-1.06988
RSc0908	***cmk***	cytidylate kinase protein	1282.84	155.584	63.9363	247.103	OK	2671.67	326.357	134.285	517.159	OK	1951.78	221.269	116.429	326.001	OK	1775.1	209.068	106.344	304.64	OK	1.068757	0.508108	0.426279	2.097626	1.422184	1.343763
RSc0909	***rpsA***	30S ribosomal protein S1	29273	1234.58	433.687	2035.44	OK	84860.5	3587.89	1250.08	5915.63	OK	63211.8	2580.27	979.906	4176.87	OK	46254.9	1913.91	817.711	3009.08	OK	1.539115	1.063502	0.632503	2.906162	2.089998	1.550252
RSc0910	***ihfB***	integration host factor subunit beta	3979.33	1003.76	335.441	1377.59	OK	8676.49	2220.94	685.399	3380.2	OK	10404.7	2324.26	1001.88	3156.93	OK	6089.54	1468.52	593.419	1968.11	OK	1.145756	1.211357	0.548949	2.212621	2.315554	1.463019
RSc0911		hypothetical protein	841.703	240.331	78.2131	315.016	OK	716.677	208.012	67.23	266.091	OK	484.612	121.02	53.5176	158.911	OK	518.567	141.099	57.2934	170.074	OK	-0.20836	-0.98978	-0.76831	-1.15537	-1.98588	-1.70328
RSc0912		hypothetical protein	2484.55	143.375	64.5522	222.178	OK	3328.55	192.735	85.9688	298.925	OK	2377.49	131.871	74.2196	188.557	OK	3116.84	176.108	97.7333	254.325	OK	0.426825	-0.12067	0.296667	1.344272	-1.08724	1.228303
RSc0913	***ugd***	UDP-glucose 6-dehydrogenase	4448.86	236.394	104.851	367.845	OK	6704.94	357.392	151.909	561.985	OK	5868.69	300.344	165.58	433.994	OK	6457.61	336.166	184.214	488.093	OK	0.596314	0.345422	0.50798	1.511849	1.270523	1.422058
RSc0914	***rfaE***	ADP-heptose synthase protein	3659.89	295.362	62.7239	527.954	OK	5271.58	427.463	91.2347	763.554	OK	4008.05	307.755	98.5402	516.856	OK	4372.46	344.475	114.092	573.108	OK	0.533315	0.059298	0.221915	1.447251	1.041959	1.166281
RSc0915	***rfaD***	ADP-L-glycero-D-manno-heptose-6-epimeraseprotein	4517.82	348.861	43.8603	653.735	OK	6232.06	483.433	37.4673	929.08	OK	6862.37	504.952	202.205	809.484	OK	7190.13	542.251	210.863	873.318	OK	0.470664	0.533494	0.636308	1.385747	1.44743	1.554347
RSc0916		putative ComEA-related signal peptide protein	316.399	129.081	38.4786	139.738	OK	393.759	164.189	47.1869	182.469	OK	445.709	152.679	60.1353	177.409	OK	436.974	168.38	59.1363	173.813	OK	0.347081	0.242225	0.383444	1.271984	1.182815	1.304452
RSc0917	***cysM***	cysteine synthase B	2354.74	204.651	89.22	319.437	OK	2703.87	236.204	102.2	370.003	OK	2637.58	217.509	118.761	314.703	OK	2183.97	185.146	98.9207	270.59	OK	0.206868	0.087909	-0.1445	1.15418	1.062829	-1.10535
RSc0918	***mltB***	putative membrane-bound lytic murein transglycosylase B	3250.19	218.719	97.4935	339.904	OK	2162.91	146.131	65.0916	227.216	OK	1521.64	98.0045	54.334	141.427	OK	2104.19	138.471	76.0789	200.871	OK	-0.58182	-1.15816	-0.65949	-1.49673	-2.23172	-1.57953
RSc0919		Probable Histone deacetylase	1632.7	137.988	59.8009	215.158	OK	1210.72	102.836	44.7461	160.654	OK	1478.29	118.673	64.2192	172.855	OK	1368.04	112.814	60.2313	164.123	OK	-0.4242	-0.21755	-0.2906	-1.34183	-1.16276	-1.22315
RSc0920		ABC transporter ATP-binding protein	822.435	59.4448	22.4455	96.4486	OK	1730.51	125.615	48.7441	202.193	OK	751.37	51.864	24.4352	79.3391	OK	1104.22	77.9985	37.588	118.194	OK	1.079386	-0.19682	0.391896	2.113137	-1.14617	1.312116
RSc0921		transmembrane ABC transporter protein	325.526	42.6097	1.70163	93.328	OK	671.598	88.5923	3.16591	195.627	OK	584.646	71.2376	24.3695	118.07	OK	622.825	79.0725	22.0907	135.972	OK	1.055999	0.741457	0.891994	2.079158	1.671863	1.855739
RSc0922		NLPA lipoprotein-related, probable solute-binding protein	1912.59	192.757	81.8479	302.628	OK	3809.71	386.249	163.615	607.267	OK	3473.42	330.148	176.556	484.062	OK	5125.84	503.005	259.916	745.564	OK	1.002748	0.77633	1.383789	2.003813	1.712768	2.609529
RSc0923	***etfB***	electron transfer flavoprotein subunit beta	13322.2	1459.11	548.267	2369.27	OK	8905.57	981.716	382.714	1579.8	OK	14499.4	1492.01	744.506	2227.5	OK	14716.6	1567.65	767.801	2363.88	OK	-0.57171	0.032169	0.103515	-1.48629	1.022548	1.074388
RSc0924	***etfA***	electron transfer flavoprotein subunit alpha	10404.7	865.718	343.266	1384.21	OK	7262.45	607.25	250.861	963.263	OK	12691	1003.58	522.167	1484.78	OK	10762.1	873.874	451.848	1292.49	OK	-0.51161	0.213187	0.013528	-1.42564	1.159246	1.009421
RSc0925		putative acyl-CoA dehydrogenase oxidoreductase protein	5414.28	214.839	93.3724	336.22	OK	2828.07	112.481	50.6188	173.865	OK	4440.42	170.725	95.8491	244.944	OK	4429.58	172.499	96.7033	247.898	OK	-0.93357	-0.33158	-0.31667	-1.91	-1.25839	-1.24545
RSc0926	***dadA***	D-amino acid dehydrogenase small subunit	11213.9	640.234	258.253	1015.69	OK	6994.73	400.698	171.836	629.382	OK	15825.5	868.683	455.014	1280.68	OK	8341.5	466.334	251.467	679.985	OK	-0.67608	0.440231	-0.45724	-1.5978	1.356821	-1.37291
RSc0927	***lrp***	leucine-responsive regulatory DNA-binding transcription regulator protein	240.342	46.0577	18.7513	69.0565	OK	372.599	72.2158	28.5796	106.171	OK	487.946	84.8378	41.9717	124.384	OK	480.491	88.6323	40.9511	122.471	OK	0.648872	0.881265	0.94439	1.567942	1.84199	1.924375
RSc0928		hypothetical protein	686.546	45.7701	21.1244	70.3387	OK	745.197	49.8763	22.8372	76.7902	OK	511.288	32.6329	19.0933	46.128	OK	861.257	56.1537	31.2026	80.203	OK	0.123949	-0.48808	0.294976	1.089714	-1.40258	1.226864
RSc0929		hypothetical protein	720.011	157.641	57.3395	226.816	OK	605.358	134.255	49.0069	188.825	OK	688.015	135.159	63.5316	194.496	OK	800.515	168.169	73.5629	227.098	OK	-0.23167	-0.22199	0.093269	-1.17419	-1.16634	1.066785
RSc0930		hypothetical protein	912.69	885.834	149.093	604.899	OK	666.078	670.557	110.57	436.986	OK	752.482	544.109	143.309	445.301	OK	682.659	618.807	131.125	401.496	OK	-0.40168	-0.70314	-0.51755	-1.32104	-1.62805	-1.43152
RSc0931		signal peptide protein	679.447	179.779	61.0617	241.066	OK	547.398	147.076	49.9306	192.249	OK	383.466	89.4341	40.9426	111.533	OK	708.95	179.116	73.4143	225.89	OK	-0.28966	-1.00733	-0.00533	-1.22235	-2.01018	-1.0037
RSc0932		probable membrane-bound dehydrogenase oxidoreductase	1153.03	81.421	35.9182	126.943	OK	783.837	55.5818	25.3047	85.808	OK	1170.4	78.986	43.7741	114.168	OK	1012.66	69.8986	38.1544	101.509	OK	-0.55079	-0.0438	-0.22014	-1.46489	-1.03083	-1.16484
RSc0933	***rpsP***	30S ribosomal protein S16	2065.72	1354.05	283.617	1177.4	OK	2325.75	1570.7	320.237	1321.61	OK	1409.38	728.569	228.714	729.243	OK	870.322	534.384	142.759	445.718	OK	0.214127	-0.89414	-1.34133	1.160001	-1.85851	-2.53385
RSc0934	***rimM***	16S rRNA-processing protein	2724.89	446.506	172.084	711.312	OK	3195.15	528.669	203.414	829.554	OK	1667.24	250.762	124.43	368.14	OK	2027.13	320.832	151.331	484.214	OK	0.243685	-0.83236	-0.47686	1.184013	-1.7806	-1.39171
RSc0935	***trmD***	tRNA (guanine-N(1)-)-methyltransferase	2065.72	212.174	90.2757	331.392	OK	2555.75	264.105	112.396	414.648	OK	1716.15	166.102	88.8959	242.612	OK	2003.55	200.324	104.517	293.985	OK	0.315864	-0.35318	-0.08291	1.244757	-1.27737	-1.05915
RSc0936	***rplS***	50S ribosomal protein L19	6474.01	1848.52	566.962	2674.89	OK	10828.4	3142.88	907.272	5270.56	OK	9414.36	2351	978.912	3065.93	OK	11547.2	3141.92	1195.77	3793.51	OK	0.765717	0.346904	0.765276	1.700214	1.271828	1.699695
RSc0937		Probable Nudix hydrolase	402.598	58.0028	25.0625	89.7807	OK	420.438	61.0921	26.2257	95.2796	OK	397.915	53.0647	28.1667	77.302	OK	421.562	58.8091	29.6272	87.7341	OK	0.074863	-0.12837	0.019917	1.053261	-1.09306	1.013901
RSc0938	***cobD***	adenosylcobinamide-phosphate synthase	4131.44	327.266	144.126	510.254	OK	4514.42	359.281	156.742	560.19	OK	4506	339.829	184.861	493.722	OK	4231.04	327.246	175.282	478.605	OK	0.134649	0.054345	-8.8E-05	1.097826	1.038388	-1.00006

RSc0939		hypothetical protein	998.889	415.15	112.446	461.847	OK	768.197	326.422	88.1169	351.445	OK	970.335	337.843	128.475	397.325	OK	685.379	268.935	91.3645	278.127	OK	-0.34689	-0.29728	-0.62638	-1.27182	-1.22883	-1.54368
RSc0940		probable gtpase protein	1577.94	127.824	19.2463	236.339	OK	1708.43	139.059	22.6783	255.316	OK	1023.69	78.8891	29.8074	127.86	OK	1341.75	106.101	34.0561	178.048	OK	0.121538	-0.69626	-0.26872	1.087894	-1.6203	-1.20474
RSc0941		Probable CAAX prenyl protease 1	3284.67	193.183	52.1087	335.648	OK	3381.91	199.593	49.4571	349.623	OK	1558.32	88.0487	38.2522	137.81	OK	2707.97	155.918	70.82	241.018	OK	0.047093	-1.13359	-0.30918	1.033181	-2.19405	-1.239
RSc0942	***orn***	oligoribonuclease	2041.38	263.987	107.335	420.363	OK	2564.95	334.242	136.218	529.552	OK	4317.05	520.036	267.025	760.935	OK	2186.69	274.328	137.941	405.736	OK	0.340426	0.978145	0.055435	1.266131	1.96993	1.039172
RSc0943	***mogA***	molybdenum cofactor biosynthesis protein	1596.19	216.867	63.5909	370.002	OK	1726.83	236.511	67.6413	405.443	OK	1577.21	199.051	86.8065	311.165	OK	1718.89	226.369	98.494	352.62	OK	0.125097	-0.12367	0.061866	1.090581	-1.0895	1.043815
RSc0944		hypothetical protein	1439.01	199.295	28.1144	372.135	OK	1657.83	231.492	33.2331	429.797	OK	1416.04	181.964	63.4798	300.822	OK	1381.64	185.414	63.7443	307.315	OK	0.216057	-0.13125	-0.10416	1.161554	-1.09524	-1.07486
RSc0945	***pmbA***	putative PMBA protein (tlde protein)	6648.44	353.271	150.644	555.892	OK	7125.37	379.803	161.706	596.811	OK	6012.08	307.681	169.51	444.49	OK	5153.03	268.253	147.824	388.911	OK	0.104476	-0.19934	-0.39718	1.075104	-1.14817	-1.31693
RSc0946	***folA***	dihydrofolate reductase oxidoreductase protein	304.23	57.2795	2.81115	111.807	OK	477.478	90.9043	7.92234	173.78	OK	391.246	66.9259	13.6139	120.13	OK	351.755	63.7746	12.6055	114.836	OK	0.66633	0.224546	0.154963	1.58703	1.168409	1.113393
RSc0947	***thyA***	thymidylate synthase	1524.19	155.069	52.1918	257.703	OK	1823.43	186.633	59.262	313.812	OK	1609.44	154.363	77.4	231.433	OK	1513.09	149.87	75.9707	223.851	OK	0.267294	-0.00658	-0.0492	1.203548	-1.00457	-1.03469
RSc0948		Pyridoxal phosphate-dependent enzyme, beta subunit	2703.59	206.539	85.2913	327.516	OK	528.078	40.5248	11.5986	69.207	OK	471.274	34.3199	14.4131	54.1125	OK	401.618	29.9682	13.9074	46.0841	OK	-2.34954	-2.5893	-2.78491	-5.09661	-6.01805	-6.89194
RSc0949		hypothetical protein	619.615	75.1476	0.485125	185.803	OK	517.958	63.2709	7.45143	118.734	OK	587.981	66.658	27.3216	105.885	OK	360.821	42.4971	16.7246	68.1939	OK	-0.24818	-0.17295	-0.82236	-1.18771	-1.12736	-1.7683
RSc0950		hypothetical protein	1527.23	104.744	45.7417	163.43	OK	257.599	17.739	8.89096	26.4974	OK	154.498	10.1357	5.94346	14.3105	OK	301.893	20.2443	11.7715	28.6787	OK	-2.56187	-3.36935	-2.37128	-5.90473	-10.3342	-5.174
RSc0951		hypothetical protein	4451.9	252.159	111.45	392.157	OK	4396.66	249.865	111.995	388.29	OK	2683.15	146.146	82.4101	209.767	OK	4703.37	260.877	143.936	377.619	OK	-0.01318	-0.78692	0.049036	-1.00918	-1.72539	1.034573
RSc0952		putative ATP-dependent RNA helicase protein	2685.34	103.867	46.6704	161.232	OK	4069.14	157.751	70.6049	244.632	OK	1657.24	62.1381	35.3649	88.7773	OK	3401.51	129.139	73.1987	185.031	OK	0.602912	-0.74119	0.314187	1.518779	-1.67155	1.243311
RSc0953		hypothetical protein	958.325	524.213	123.902	504.941	OK	408.478	229.501	56.4675	217.47	OK	854.739	378.002	129.595	403.518	OK	683.566	351.149	104.044	316.507	OK	-1.19165	-0.47176	-0.57807	-2.28414	-1.3868	-1.49285
RSc0954		hypothetical protein	1.0141	4.02765	0	3.86406	OK	NA	NA	NA	0	OK	4.44598	10.3919	0.423544	6.7767	OK	2.71976	9.97998	0	5.08253	OK	NA	1.367449	1.309099	NA	2.58014	2.477867
RSc0969		putative transmembrane protein	55.7755	39.8806	5.75944	51.5731	OK	35.8799	26.4718	2.87972	36.9128	OK	33.3448	18.5737	2.58259	33.3153	OK	35.3568	23.6588	3.35736	32.7988	OK	-0.59123	-1.10243	-0.75331	-1.50653	-2.14715	-1.68566
RSc0970		signal peptide protein	112.565	54.9533	20.504	89.8272	OK	118.68	59.3942	25.5234	93.5858	OK	194.512	77.9369	44.0748	112.19	OK	150.493	69.1339	38.5881	99.686	OK	0.112116	0.5041	0.331187	1.080812	1.418239	1.258048
RSc0971		hypothetical conserved protein	3280.61	2851.22	503.345	2082.3	OK	1211.64	1090.22	185.859	777.896	OK	1032.58	679.636	187.808	595.191	OK	804.142	653.059	148.24	451.687	OK	-1.38696	-2.06875	-2.12629	-2.61527	-4.19522	-4.36595
RSc0972		hypothetical protein	2279.7	181.925	79.8865	282.726	OK	2150.95	172.463	75.5665	269.168	OK	1129.28	85.7779	47.075	124.375	OK	1299.14	101.22	54.5493	147.978	OK	-0.07706	-1.08467	-0.84585	-1.05486	-2.12088	-1.79732
RSc0973		amino-acid-binding periplasmic (PBP) ABC transporter protein	1891.3	162.401	70.4739	254.285	OK	4286.26	369.923	160.084	579.538	OK	3254.46	265.281	144.13	385.927	OK	2720.66	227.907	121.908	332.078	OK	1.187664	0.707961	0.488885	2.277837	1.633494	1.40336
RSc0974		hypothetical protein	220.06	251.599	41.0673	152.136	OK	95.6796	113.78	18.0447	63.4676	OK	131.156	108.977	27.0086	75.5013	OK	110.603	118.052	22.7118	66.2938	OK	-1.14488	-1.2071	-1.0917	-2.21128	-2.30873	-2.13126
RSc0975		ABC transporter ATP-binding protein	1409.6	51.9035	22.9498	80.9141	OK	2408.55	88.8794	39.8673	137.867	OK	1131.5	40.4217	23.2716	57.5807	OK	1172.22	42.3763	24.1028	60.5728	OK	0.776017	-0.3607	-0.29257	1.712397	-1.28405	-1.22482
RSc0976	***parE***	DNA topoisomerase IV subunit B	4413.36	155.825	68.7463	242.785	OK	7012.21	248.1	104.903	391.529	OK	4367.06	149.696	84.3569	215.195	OK	5244.6	181.835	101.311	262.38	OK	0.670995	-0.05789	0.222703	1.592171	-1.04094	1.166918
RSc0977		putative Lytic transglycosylase-like protein	583.108	53.9546	24.6946	83.1658	OK	983.476	91.4996	40.0067	142.913	OK	521.291	45.6552	25.62	65.4568	OK	661.808	59.6888	32.3582	87.0042	OK	0.762019	-0.24097	0.145714	1.695863	-1.18178	1.106278
RSc0978	***parC***	DNA topoisomerase IV subunit A	3642.65	107.413	47.7654	167.097	OK	5915.58	174.74	74.1462	275.228	OK	4075.85	116.99	66.2126	167.739	OK	5561	161.146	90.2784	232.056	OK	0.702041	0.123217	0.5852	1.626805	1.089161	1.500247
RSc0979		probable transmembrane protein	315.385	48.3584	16.0449	80.5566	OK	451.718	69.8945	23.3481	116.077	OK	311.219	43.9966	20.5222	67.4614	OK	431.535	63.9943	28.8185	98.6814	OK	0.531412	-0.13637	0.404177	1.445344	-1.09914	1.323334
RSc0980		Chromate transporter protein	247.44	41.496	7.21113	76.1362	OK	292.559	49.552	4.06498	95.1884	OK	214.518	32.9671	12.1407	53.7878	OK	243.872	39.4826	12.9519	66.0548	OK	0.255971	-0.33195	-0.07176	1.194139	-1.25871	-1.05099
RSc0981	***lldP***	putative L-lactate permease transmembrane protein	10541.6	444.587	179.896	709.745	OK	6969.89	294.686	124.646	464.534	OK	10698.1	436.693	235.996	636.181	OK	10316	426.852	230.655	623.091	OK	-0.59329	-0.02585	-0.05873	-1.50868	-1.01808	-1.04155
RSc0982		Putative integral membrane sensory domain containing protein	1503.91	85.8624	37.8917	133.744	OK	1200.6	68.7768	30.5031	107.085	OK	962.554	52.8361	29.9928	75.3022	OK	1098.78	61.4277	34.3268	88.4025	OK	-0.3201	-0.7005	-0.48314	-1.24842	-1.62507	-1.39778
RSc0983		putative Phytanoyl-CoA dioxygenase	762.603	98.0276	41.477	153.96	OK	584.198	75.6682	32.5405	118.117	OK	311.219	37.2777	20.4106	54.1408	OK	320.931	40.0249	20.9855	56.6322	OK	-0.3735	-1.39488	-1.29229	-1.29549	-2.62966	-2.44917
RSc0984		gst-related protein	2466.29	330.895	134.62	526.142	OK	2094.83	283.298	113.755	451.008	OK	1847.3	230.392	119.146	340.023	OK	1572.02	204.484	101.433	300.736	OK	-0.22405	-0.52228	-0.69439	-1.16801	-1.43623	-1.6182
RSc0985		aminotransferase protein	6900.95	419.665	180.122	659.253	OK	5632.22	343.743	150.691	536.569	OK	4442.64	259.323	143.61	374.529	OK	4273.65	254.364	139.499	368.39	OK	-0.28791	-0.69449	-0.72234	-1.22087	-1.61831	-1.64986
RSc0986		hypothetical protein	3264.39	680.118	242.837	1002.11	OK	1920.95	405.165	142.202	594.103	OK	3022.15	567.377	265.322	853.967	OK	2161.3	432.586	190.999	606.18	OK	-0.74728	-0.26148	-0.6528	-1.67862	-1.19871	-1.57221
RSc0987		hypothetical protein	1046.55	86.4082	20.3731	152.32	OK	363.399	30.1507	8.75088	51.5481	OK	236.748	18.5828	7.89087	29.2704	OK	345.409	27.8336	12.2072	43.2986	OK	-1.51898	-2.2172	-1.63434	-2.86588	-4.6499	-3.10446
RSc0988		hypothetical protein	1393.37	155.788	29.1814	282.422	OK	379.959	42.7636	8.89129	77.3205	OK	349.009	36.6254	16.7906	56.4582	OK	409.777	44.5467	18.372	70.7701	OK	-1.86513	-2.08867	-1.80619	-3.643	-4.25355	-3.49718
RSc0989		putative transcription regulator protein	2198.57	108.001	48.4866	167.102	OK	1641.27	80.859	35.8512	125.654	OK	2451.96	116.216	65.9038	166.657	OK	2079.71	100.141	56.1562	143.065	OK	-0.41756	0.105764	-0.10901	-1.33567	1.076064	-1.07849
RSc0990	***hptG***	heat shock protein 90	29159.4	1066.38	370.632	1762.04	OK	38489.9	1410.64	484.096	2334.78	OK	85659.6	3039.59	965.231	5116.39	OK	16361.2	587.454	307.185	868.794	OK	0.403628	1.511155	-0.86017	1.322831	2.850382	-1.81526
RSc0991		hypothetical protein	2318.23	440.327	162.224	671.004	OK	2905.35	558.075	205.286	835.542	OK	3613.47	623.147	297.242	891.852	OK	770.598	140.919	64.6729	196.428	OK	0.341884	0.500997	-1.64371	1.26741	1.415191	-3.12468
RSc0992		glutathione S-transferase-like transmembrane protein	2384.15	166.711	74.5101	258.734	OK	1609.07	112.98	49.5346	176.315	OK	2331.92	155.882	86.762	224.678	OK	2067.92	141.356	77.1413	204.146	OK	-0.56128	-0.09689	-0.23802	-1.47558	-1.06947	-1.17937
RSc0993		putative transcriptional regulatory DNA-binding transcription regulator protein	406.654	127.873	42.4061	163.466	OK	345.919	110.726	36.2475	133.729	OK	529.072	144.006	61.6222	183.478	OK	430.628	128.715	50.6864	148.935	OK	-0.20772	0.171417	0.009469	-1.15486	1.126164	1.006585
RSc0994		hypothetical protein	435.049	46.9302	8.31528	85.4437	OK	522.558	56.7309	8.40013	105.129	OK	272.316	27.6191	9.96082	45.284	OK	357.195	37.4837	12.7231	61.8575	OK	0.273618	-0.76485	-0.32425	1.208836	-1.69919	-1.25202
RSc0995		putative spermidine synthase	827.506	73.4046	17.5638	129.422	OK	1154.6	102.958	28.7135	177.453	OK	553.524	46.553	22.1191	70.9828	OK	751.56	65.0147	31.0558	98.8768	OK	0.488114	-0.657	-0.1751	1.40261	-1.5768	-1.12905
RSc0996		hypothetical protein	1901.44	120.763	53.4484	187.672	OK	1253.96	79.9399	35.1029	124.75	OK	1636.12	99.6214	55.6442	142.946	OK	1872.1	116.33	64.1799	168.229	OK	-0.59519	-0.27765	-0.05396	-1.51067	-1.21222	-1.03811
RSc0997		Putative Acetyltransferase	1149.99	165.68	65.9872	263.737	OK	776.477	112.827	46.0007	174.274	OK	799.165	106.574	54.9773	157.108	OK	812.301	113.318	55.9161	160.133	OK	-0.55429	-0.63654	-0.54802	-1.46844	-1.5546	-1.46208
RSc0998		ATPase (AAA+)-related protein	2442.97	221.277	96.2695	346.128	OK	1882.31	171.41	73.696	267.489	OK	2798.74	240.151	130.484	348.951	OK	2057.04	181.658	96.4254	266.571	OK	-0.3684	0.118088	-0.28463	-1.29092	1.085296	-1.2181
RSc0999		putative periplasmic cytochrome type-c oxidoreductase signal peptide protein	2839.48	977.329	195.424	1744.75	OK	1407.59	493.853	104.189	880.332	OK	744.702	219.624	67.1828	359.465	OK	1189.44	388.257	107.712	624.91	OK	-0.98476	-2.15381	-1.33183	-1.97899	-4.45001	-2.51722
RSc1000		putative periplasmic cytochrome type-c oxidoreductase signal peptide protein	3075.77	823.915	123.49	1524.73	OK	1493.15	406.22	71.0063	743.254	OK	1150.4	271.29	120.27	423.538	OK	1751.52	447.859	191.261	705.467	OK	-1.02023	-1.60266	-0.87945	-2.02825	-3.03703	-1.83967
RSc1001		hypothetical protein	781.871	143.438	54.9856	219.817	OK	678.957	125.917	48.081	190.19	OK	1111.49	185.632	89.7864	279.886	OK	837.685	148.073	68.3615	211.648	OK	-0.18795	0.372018	0.045881	-1.13915	1.294162	1.032314
RSc1002		hypothetical protein	433.021	35.8903	17.1462	54.5934	OK	315.559	26.2831	12.8253	39.6419	OK	240.083	18.9147	11.0284	26.7929	OK	233.899	18.9199	10.7577	26.8605	OK	-0.44946	-0.92409	-0.92369	-1.36553	-1.89748	-1.89696
RSc1003		carboxypeptidase	2048.48	89.744	40.2112	138.944	OK	434.238	19.0733	9.47073	28.649	OK	433.483	18.3672	11.0168	25.7319	OK	338.157	14.5315	8.75895	20.2818	OK	-2.23426	-2.28868	-2.62663	-4.70522	-4.8861	-6.17582
RSc1004		Putative NADH dehydrogenase/NAD(P)H nitroreductase	3649.75	551.74	218.284	881.461	OK	3193.31	487.081	191.998	780.588	OK	4116.98	574.344	287.405	845.791	OK	2598.28	379.988	183.248	542.288	OK	-0.17983	0.057927	-0.53803	-1.13275	1.040969	-1.45199
RSc1005	***nth***	endonuclease III protein	825.477	110.064	45.9294	172.435	OK	827.077	111.151	46.2289	175.83	OK	522.403	64.7714	34.4745	93.0812	OK	656.368	84.8573	42.8469	121.449	OK	0.014178	-0.76491	-0.37523	1.009876	-1.69927	-1.29705
RSc1006		ferredoxin	1066.83	106.519	45.4877	167.028	OK	1122.4	112.73	48.0414	177.242	OK	559.082	52.6678	29.2072	75.4979	OK	535.792	52.0951	28.1838	74.9468	OK	0.081761	-1.01612	-1.03189	1.058309	-2.02247	-2.0447
RSc1007		transcription regulator protein	2142.79	247.306	103.131	390.073	OK	1791.23	208.147	85.6891	330.145	OK	1373.81	148.587	78.1792	218.566	OK	1452.35	162.902	83.2087	240.449	OK	-0.24869	-0.73499	-0.60229	-1.18813	-1.66439	-1.51813
RSc1008	***phaZ***	poly[D(-)-3-hydroxybutyrate] depolymerase protein	11704.7	680.933	273.438	1087	OK	17146.9	1000.97	380.468	1620.33	OK	16437.9	918.975	480.767	1351.49	OK	22316.5	1271.1	631.461	1905.95	OK	0.555814	0.432513	0.900493	1.469998	1.349582	1.866703
RSc1009	***tISRso1***	ISRSO1-transposase protein	1.0141	0.098505	0	0.390309	OK	0.919997	0.089879	0	0.156124	OK	NA	NA	0	0	OK	0	0	0	0	OK	-0.13221	NA	NA	-1.09597	NA	NA
RSc1010	***tyrB***	aromatic amino acid aminotransferase	10067	626.395	257.927	995.229	OK	15361.2	959.335	368.059	1546.22	OK	16521.3	986.113	512.658	1459.42	OK	10884.5	662.735	353.059	972.187	OK	0.614962	0.65468	0.081359	1.531518	1.574267	1.058015
RSc1011	***uvrB***	excinuclease ABC subunit B	6188.04	206.591	87.4079	325.516	OK	6682.86	223.551	93.9374	353.174	OK	7252.5	235.275	131.043	339.807	OK	5169.35	169.513	94.553	243.887	OK	0.113827	0.187571	-0.28538	1.082095	1.138844	-1.21873
RSc1012		putative site-specific recombinase transmembrane protein	1260.53	42.0834	18.5103	65.633	OK	1919.11	64.1971	28.3968	100.066	OK	1454.95	47.1992	26.8893	67.4814	OK	960.074	31.4827	18.1389	44.7547	OK	0.609257	0.165511	-0.41869	1.525473	1.121563	-1.33672
RSc1013		putative ribokinase protein	1820.31	149.146	65.0124	232.265	OK	814.197	67.0346	30.0266	103.938	OK	484.612	37.7582	21.5123	53.8142	OK	761.532	60.9019	33.3742	88.3947	OK	-1.15375	-1.98186	-1.29217	-2.22491	-3.95003	-2.44895
RSc1014		transcriptional regulatory DNA-binding repressor transcription regulator protein	2742.13	200.221	88.6439	312.012	OK	1274.2	93.4395	40.8366	146.074	OK	617.991	43.0786	24.585	61.2191	OK	1610.1	114.881	62.2537	166.314	OK	-1.09949	-2.21655	-0.80145	-2.14279	-4.64781	-1.74286
RSc1015		transmembrane ABC transporter protein	910.662	66.268	0.24604	138.028	OK	452.638	33.08	0.24604	67.7225	OK	246.752	17.144	1.09223	33.1918	OK	592.907	42.1622	8.07039	76.2136	OK	-1.00235	-1.95061	-0.65236	-2.00326	-3.86538	-1.57174
RSc1016		ABC transporter ATP-binding protein	3913.41	178.742	59.3766	298.207	OK	1931.99	88.4806	29.4479	147.56	OK	1533.86	67.7008	35.0451	100.369	OK	2288.22	102.491	50.5238	154.527	OK	-1.01445	-1.40063	-0.80238	-2.02013	-2.64018	-1.74398
RSc1017		sugar-binding periplasmic (PBP) ABC transporter protein	12263.5	989.695	386.339	1581.78	OK	6691.14	542.572	225.068	859.485	OK	9003.11	691.298	367.093	1011.48	OK	10576.2	833.225	432.809	1232.38	OK	-0.86717	-0.51768	-0.24828	-1.82408	-1.43165	-1.18779
RSc1018		hypothetical protein	1182.44	181.305	71.0403	288.919	OK	834.437	129.113	51.7864	206.482	OK	1471.62	208.041	104.576	310.999	OK	605.599	89.8071	44.101	133.285	OK	-0.48978	0.198449	-1.01352	-1.40424	1.147464	-2.01883
RSc1019	***nifS***	pyridoxal-phosphate-dependent aminotransferase (NIFS protein	5454.84	332.666	145.933	519.914	OK	5269.74	322.537	141.386	502.307	OK	1869.53	109.429	61.2365	157.577	OK	3590.08	214.281	118.092	309.886	OK	-0.04461	-1.60408	-0.63457	-1.0314	-3.04002	-1.55248
RSc1020	***nifU***	scaffold protein	1305.15	349.614	113.102	475.798	OK	1287.08	350.155	111.34	469.07	OK	1302.67	307.2	133.859	426.547	OK	1162.24	297.181	119.635	381.032	OK	0.002231	-0.18658	-0.23442	1.001547	-1.13807	-1.17643
RSc1021	***iscA***	Iron-binding protein IscA	992.804	397.707	109.742	450.406	OK	935.637	382.971	103.924	423.522	OK	734.698	247.675	96.188	292.522	OK	711.67	269.381	92.8234	286.189	OK	-0.05447	-0.68326	-0.56206	-1.03848	-1.60576	-1.47637
RSc1022		hypothetical protein	168.341	210.655	32.6811	114.704	OK	155.479	202.669	30.1179	108.937	OK	245.64	220.289	53.101	143.499	OK	146.867	171.55	31.6078	87.2374	OK	-0.05576	0.064515	-0.29625	-1.0394	1.045734	-1.22795
RSc1023	***hscB***	co-chaperone HscB	257.581	44.9515	18.6775	67.433	OK	338.559	59.6966	24.6203	93.2662	OK	157.832	25.1688	12.802	35.5346	OK	167.718	28.2326	13.7592	37.8079	OK	0.40928	-0.83673	-0.67101	1.328022	-1.786	-1.59218
RSc1024	***hscA***	chaperone protein HscA	1570.84	59.3682	26.2643	92.4254	OK	2525.39	95.6574	43.2101	148.164	OK	1567.21	57.4403	32.5829	82.2915	OK	1514.91	56.2039	31.936	80.5551	OK	0.688186	-0.04763	-0.07902	1.611257	-1.03356	-1.0563
RSc1025	***fdx***	ferredoxin [2FE-2S] protein	245.412	88.6438	28.1161	103.915	OK	414.918	152.883	46.3535	180.285	OK	477.943	147.092	60.3456	178.975	OK	359.915	123.142	46.1026	133.997	OK	0.786336	0.730627	0.474231	1.724689	1.65936	1.389178
RSc1026	***iscX***	ISC system FeS cluster assembly protein	108.509	142.396	21.1417	75.785	OK	193.199	264.31	38.0551	133.681	OK	244.529	228.269	53.9056	145.032	OK	189.476	232.087	41.7127	114.229	OK	0.892322	0.680826	0.704757	1.856162	1.603058	1.62987
RSc1027		hypothetical protein	5075.57	553.077	227.328	878.693	OK	4115.14	451.32	188.157	713.286	OK	6817.91	698.179	365.581	1030.6	OK	10994.2	1165.26	580.896	1739.82	OK	-0.29333	0.336117	1.0751	-1.22547	1.262354	2.106868
RSc1028	***lysS***	lysyl-tRNA synthetase	3541.24	166.344	75.1135	257.814	OK	5506.18	259.363	113.72	405.016	OK	6225.48	282.429	156.446	407.879	OK	6300.77	290.194	159.803	420.56	OK	0.640803	0.763718	0.802848	1.559197	1.697861	1.744541
RSc1029		short chain dehydrogenase	743.335	82.6788	35.9811	129.237	OK	1064.44	119.175	50.1476	187.901	OK	708.022	73.9342	39.9537	107.944	OK	495.902	53.6341	28.4649	78.7072	OK	0.527492	-0.16128	-0.62437	1.441422	-1.11828	-1.54153
RSc1030	***prfB***	peptide chain release factor 2 protein	2387.19	207.471	90.5037	323.717	OK	3525.43	307.974	134.222	480.975	OK	2583.11	213.017	116.299	308.371	OK	2308.17	195.675	105.393	286.279	OK	0.569899	0.038059	-0.08445	1.48442	1.026731	-1.06028
RSc1031	***pncB***	nicotinate phosphoribosyltransferase	2252.32	137.75	61.4327	214.087	OK	2841.87	174.435	78.5533	269.053	OK	2754.28	161.663	90.9312	232.426	OK	3047.94	182.436	100.709	263.225	OK	0.340637	0.230937	0.405338	1.266316	1.173597	1.324399
RSc1032		putative transmembrane protein	2299.98	259.859	108.391	411.304	OK	2280.67	259.405	108.039	408.225	OK	1205.97	127.823	67.524	187.991	OK	1279.19	140.503	72.124	206.912	OK	-0.00252	-1.02358	-0.88713	-1.00175	-2.03296	-1.84949

RSc1033		hypothetical protein	896.464	45.2807	20.7499	69.8238	OK	1090.2	55.2306	24.7834	85.6887	OK	690.238	33.6184	19.4972	47.704	OK	780.57	38.6398	22.2383	54.9546	OK	0.286572	-0.42965	-0.22881	1.219738	-1.3469	-1.17187
RSc1034		Dehydrogenase	1276.75	97.5368	42.8058	152.255	OK	1623.79	124.61	54.4685	194.485	OK	1291.56	94.0559	51.7103	135.787	OK	1226.61	91.5283	49.6242	132.879	OK	0.353401	-0.05243	-0.09173	1.277569	-1.03701	-1.06565
RSc1035	***rmuC***	Putative DNA recombination protein RmuC	1221.99	64.9315	28.8726	100.96	OK	1949.47	103.912	46.3556	160.909	OK	1611.67	82.4807	46.4696	118.417	OK	1613.72	84.0062	47.0707	120.729	OK	0.678372	0.345138	0.371577	1.600333	1.270273	1.293767
RSc1036		hypothetical conserved protein	1203.74	529.978	137.852	575.821	OK	1137.12	512.341	130.065	544.462	OK	1364.92	499.807	183.743	586.941	OK	642.769	266.849	88.6536	270.321	OK	-0.04883	-0.08456	-0.98991	-1.03442	-1.06037	-1.98606
RSc1037	***moeA1***	molybdopterin biosynthesis MOEA protein	1307.17	74.6303	33.0492	116.171	OK	1818.83	104.193	46.3288	162.151	OK	961.443	52.775	29.9436	75.2529	OK	1382.54	77.2915	42.9946	111.156	OK	0.481425	-0.49991	0.050548	1.396122	-1.41412	1.035658
RSc1038	***mobA***	molybdopterin-guanine dinucleotide biosynthesis protein A	515.163	73.2372	31.4151	114.979	OK	638.478	91.5353	38.0123	144.614	OK	700.242	92.2205	47.7262	135.947	OK	777.851	107.101	53.3046	150.926	OK	0.321752	0.332511	0.548323	1.249847	1.259203	1.462385
RSc1039	***moaA***	molybdenum cofactor biosynthesis protein A	1912.59	128.304	56.48	200.091	OK	2559.43	172.378	77.373	267.419	OK	1969.57	126.47	70.2132	182.328	OK	2931.9	192.343	105.207	278.135	OK	0.42601	-0.02077	0.584115	1.343512	-1.0145	1.499119
RSc1040	***rne***	ribonuclease E protein	13509.8	301.785	113.955	489.025	OK	21574.8	482.577	167.104	798.297	OK	15632.1	341	177.012	505.061	OK	15317.7	336.568	175.656	497.445	OK	0.677238	0.176251	0.157377	1.599076	1.129944	1.115258
RSc1041	***rluC***	ribosomal large subunit pseudouridine synthase C protein	2560.6	197.727	72.1601	323.298	OK	2613.71	202.751	72.4188	332.932	OK	1631.67	120.063	57.1529	182.94	OK	1752.43	132.161	63.9781	199.78	OK	0.036199	-0.71972	-0.58121	1.025409	-1.64686	-1.49611
RSc1042		putative phosphoglycolate phosphatase protein	751.448	97.1756	7.12314	186.86	OK	872.157	113.652	10.7335	216.329	OK	814.726	98.1428	30.1294	165.952	OK	684.472	85.8696	23.1024	148.625	OK	0.225957	0.014288	-0.17845	1.169553	1.009953	-1.13166
RSc1043		hypothetical protein	304.23	76.74	0	246.946	OK	314.639	80.5389	0	260.836	OK	327.891	73.2461	0.223386	166.422	OK	323.651	78.0502	0.723466	176.767	OK	0.069707	-0.06723	0.024424	1.049504	-1.0477	1.017073
RSc1044		putative protease transmembrane protein	1542.45	101.882	44.4633	159.275	OK	1514.31	100.414	43.9535	156.726	OK	1997.36	126.339	70.2368	182.493	OK	1919.24	123.989	68.0017	179.866	OK	-0.02094	0.310401	0.283313	-1.01462	1.240052	1.216986
RSc1045		Methyltransferase	636.855	71.9538	31.7606	112.174	OK	670.678	76.2833	33.0803	118.86	OK	509.065	53.9565	29.596	78.2862	OK	459.639	50.4856	26.9055	73.5127	OK	0.084296	-0.41527	-0.5112	1.060171	-1.33355	-1.42523
RSc1046	***maf***	Maf-like protein	419.837	63.9178	27.1915	98.9684	OK	381.799	58.6531	24.8797	89.721	OK	222.299	31.2177	16.3988	44.8522	OK	226.646	33.3767	16.7246	47.7844	OK	-0.12401	-1.03385	-0.93738	-1.08976	-2.04749	-1.91504
RSc1047		hypothetical protein	1595.18	271.757	102.565	432.798	OK	1645.87	283.236	105.904	446.275	OK	967	150.797	74.7085	210.831	OK	1097.88	180.505	84.3558	266.715	OK	0.059687	-0.84971	-0.59028	1.04224	-1.80214	-1.50554
RSc1048	***rpmF***	50S ribosomal protein L32	3108.22	5650.9	611.809	2486.59	OK	3015.75	5746.59	593.92	2412.89	OK	2722.05	3340.48	629.316	1999.13	OK	1931.03	3275.3	445.074	1421.7	OK	0.024225	-0.75843	-0.78685	1.016934	-1.69164	-1.72531
RSc1049	***plsX***	putative glycerol-3-phosphate acyltransferase PlsX	2398.35	171.046	76.3741	265.586	OK	3195.15	228.835	102.014	354.719	OK	1740.6	118.6	65.7985	171.386	OK	2630.01	183.329	100.457	266.117	OK	0.419923	-0.52828	0.100051	1.337856	-1.44221	1.071811
RSc1050	***fabH***	3-oxoacyl-(acyl carrier protein) synthase III	2452.09	192.816	85.671	299.619	OK	4312.02	340.647	149.284	530.635	OK	2529.76	189.438	104.72	272.843	OK	3691.62	283.454	152.191	411.887	OK	0.821053	-0.0255	0.55589	1.766695	-1.01783	1.470075
RSc1051	***fabD***	acyl-carrier-protein S-malonyltransferase	3708.56	310.981	136.696	483.492	OK	6245.86	526.347	220.695	831.881	OK	5161.78	411.255	221.199	600.886	OK	5702.43	466.612	245.519	682.726	OK	0.759188	0.403207	0.585397	1.692537	1.322444	1.500452
RSc1052	***fabG***	3-ketoacyl-(acyl-carrier-protein) reductase	4440.74	486.37	201.704	770.837	OK	7314.89	806.366	320.975	1291.97	OK	7819.37	804.623	418.716	1186.52	OK	8754.9	932.594	468.355	1386.85	OK	0.729381	0.726259	0.939195	1.657927	1.654343	1.917458
RSc1053	***acpP***	acyl carrier protein	3924.57	2984.61	575.315	2360.03	OK	4630.34	3637.35	671.649	2795.81	OK	3481.2	2044.3	598.521	1935.33	OK	4619.96	3286.18	790.174	2569.59	OK	0.285345	-0.54594	0.138869	1.218702	-1.45997	1.101042
RSc1054	***fabF1***	3-oxoacyl-(acyl carrier protein) synthase II	7284.28	438.013	186.883	689.085	OK	11968.2	722.226	288.943	1156.08	OK	9290.98	536.413	292.41	779.95	OK	9421.24	554.51	297.357	811.483	OK	0.721477	0.292371	0.34024	1.648869	1.224651	1.265967
RSc1055	***rpoE1***	RNA polymerase sigma factor RpoE	7707.16	1133.19	426.013	1827.59	OK	7600.09	1127.22	421.504	1831.56	OK	5483	745.275	372.295	1110.32	OK	6662.5	948.175	450.545	1384.57	OK	-0.00762	-0.60455	-0.25716	-1.0053	-1.5205	-1.19513
RSc1056	***rseA***	putative transmembrane sigma-e factor negative regulatory transcription regulator protein	15006.7	1964.29	420.97	3507	OK	14522.1	1915.66	360.212	3453.82	OK	12843.3	1564.92	606.95	2508.04	OK	12941.5	1643.03	542.447	2728.26	OK	-0.03617	-0.32792	-0.25765	-1.02539	-1.2552	-1.19553
RSc1057	***rseB***	putative sigma-e factor regulatory (negative regulator) transcription regulator protein	12775.6	867.889	31.453	1816.67	OK	14847.8	1012.71	31.5113	2044.28	OK	9305.43	604.857	124.086	1092.66	OK	13323.2	885.017	206.455	1564.35	OK	0.222639	-0.52092	0.028195	1.166866	-1.43487	1.019735
RSc1058		periplasmic protease signal peptide protein	14537.1	690.414	264.689	1116.62	OK	22028.4	1049.14	378.133	1717.83	OK	15773.2	723.326	382.445	1064.22	OK	19355.6	901.26	464.685	1337.01	OK	0.603674	0.067184	0.384482	1.519581	1.04767	1.305391
RSc1059		Glutaredoxin	280.906	153.658	0	888.891	OK	399.279	224.332	0	1318.64	OK	426.814	188.755	0	775.693	OK	404.337	207.709	0	991.959	OK	0.545913	0.296792	0.434841	1.459944	1.22841	1.351762
RSc1060	***lepA***	GTP-binding protein LepA	8604.64	338.927	139.231	538.359	OK	14505.6	572.688	219.866	925.195	OK	7414.78	283.028	156.054	409.862	OK	9616.16	371.744	202.368	539.895	OK	0.756775	-0.26003	0.133335	1.689709	-1.1975	1.096826
RSc1061	***lepB***	signal peptidase I	3706.54	315.744	138.273	492.618	OK	7294.65	624.538	256.832	990.148	OK	5664.18	458.178	246.029	670.473	OK	6561.87	545.366	286.031	803.695	OK	0.984034	0.537153	0.788469	1.977988	1.451106	1.727241
RSc1062		hypothetical protein	2579.87	717.719	231.876	948.481	OK	3961.51	1119.88	353.304	1455.17	OK	4269.25	1041.58	446.499	1454.44	OK	3688.9	978.628	387.009	1253.17	OK	0.641853	0.537283	0.447341	1.560332	1.451236	1.363525
RSc1063	***rnc***	ribonuclease III	2870.92	303.593	129.721	477.119	OK	4330.42	460.805	192.451	728.374	OK	3216.67	320.111	170.654	467.299	OK	3539.31	364.193	188.288	533.468	OK	0.602018	0.076434	0.262565	1.517838	1.054408	1.199609
RSc1064	***era***	GTP-binding protein Era	4716.58	413.265	177.767	647.097	OK	7180.57	632.427	260.26	1004.35	OK	5916.49	491.735	263.476	720.308	OK	6914.53	590.91	310.15	870.177	OK	0.613832	0.250814	0.515871	1.530318	1.189878	1.429857
RSc1065	***recO***	DNA repair protein RecO	999.903	98.0124	6.60523	189.429	OK	1757.19	173.245	19.1866	327.352	OK	1087.04	100.614	24.9782	176.244	OK	1220.26	116.507	26.84	205.256	OK	0.821778	0.037795	0.24938	1.767582	1.026544	1.188697
RSc1066	***pdxJ***	pyridoxal phosphate biosynthetic protein PdxJ	3316.11	338.982	107.13	572.244	OK	4654.26	478.657	123.411	834.362	OK	3294.47	317.413	150.109	485.108	OK	3925.52	390.646	184.799	596.092	OK	0.497784	-0.09485	0.204653	1.412043	-1.06795	1.152409
RSc1067	***acpS***	4'-phosphopantetheinyl transferase	505.022	127.388	5.71424	248.492	OK	712.997	182.508	7.41306	356.445	OK	703.576	157.169	28.6425	285.816	OK	824.087	198.733	34.432	361.993	OK	0.51873	0.303087	0.641602	1.432694	1.233782	1.560061
RSc1068		beta-hexosaminidase	2905.4	209.999	74.3751	346.072	OK	4203.46	305.122	103.511	507.683	OK	3294.47	227.404	112.029	342.851	OK	3852.99	272.162	133.15	410.681	OK	0.539004	0.114875	0.374083	1.452969	1.082881	1.296016
RSc1069	***efp***	elongation factor P	4926.5	783.356	300.424	1261.44	OK	7832.85	1257.28	460.234	2046.97	OK	7041.32	1029.8	505.788	1549.07	OK	5721.46	879.247	410.21	1256.29	OK	0.682566	0.394624	0.1666	1.604992	1.3146	1.122411
RSc1070		hypothetical protein	279.892	17.5172	8.75983	26.2254	OK	284.279	17.8577	8.97612	26.7121	OK	186.731	11.2087	6.66788	15.7362	OK	200.355	12.2698	7.25466	17.2832	OK	0.027774	-0.64415	-0.51366	1.019438	-1.56282	-1.42767
RSc1071	***uvrC***	excinuclease ABC subunit C	1236.19	44.155	19.3695	68.891	OK	1545.59	55.3231	24.3511	86.3268	OK	708.022	24.548	14.4199	34.6595	OK	1305.48	45.7871	26.1239	65.4715	OK	0.325305	-0.84697	0.052364	1.252929	-1.79872	1.036963
RSc1072	***pgsA***	CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase transmembrane protein	1212.86	188.665	73.4574	299.755	OK	1597.11	250.735	96.0424	404.519	OK	1342.69	192.382	96.0695	285.23	OK	1159.52	174.393	83.1646	265.266	OK	0.410337	0.028147	-0.11348	1.328996	1.019702	-1.08184
RSc1073		two-component system response regulator transcription regulator protein	2898.3	338.136	57.546	618.755	OK	1150	135.096	27.3298	241.729	OK	1005.9	109.918	42.6213	177.248	OK	1316.36	149.23	57.5699	240.957	OK	-1.32362	-1.62118	-1.18007	-2.50293	-3.07626	-2.26587
RSc1074		putative sensory protein with Peptidoglycan-binding (LysM) and FecR domains	3439.83	143.383	21.6556	265.074	OK	1369.87	57.2416	10.5637	103.902	OK	965.889	38.9763	13.9196	64.0154	OK	1084.28	44.3448	14.4779	74.2132	OK	-1.32474	-1.8792	-1.69304	-2.50487	-3.67872	-3.23337
RSc1075		two-component system sensor histidine kinase transcription regulator protein	1897.38	55.7195	0.616697	131.298	OK	855.597	25.1695	0.441262	55.5108	OK	510.176	14.5843	0.45739	29.0729	OK	708.95	20.4599	1.58727	40.1723	OK	-1.14651	-1.93377	-1.44538	-2.21377	-3.82051	-2.72335
RSc1076		two-component system response regulator transcription regulator protein	701.757	76.0832	33.3931	118.75	OK	259.439	28.3088	13.2039	43.2747	OK	284.543	28.998	16.3871	41.43	OK	263.816	27.8225	15.1266	40.0014	OK	-1.42633	-1.39162	-1.45133	-2.68762	-2.62374	-2.73459
RSc1077		hypothetical protein	1010.04	701.077	143.027	592.541	OK	449.878	322.043	68.0219	250.362	OK	690.238	374.806	116.347	357.461	OK	695.351	451.816	117.368	357.206	OK	-1.12232	-0.90343	-0.63384	-2.17697	-1.87051	-1.55169
RSc1078		transcriptional regulatory DNA-binding transcription regulato	367.104	39.0126	18.1966	59.7889	OK	390.999	41.8139	19.2868	64.3171	OK	517.957	51.7885	28.6223	74.782	OK	299.173	30.9351	16.8756	44.7534	OK	0.100042	0.408692	-0.3347	1.071805	1.327481	-1.26111
RSc1079	***gudD1***	glucarate dehydratase protein	275.835	14.8033	7.51818	22.0817	OK	324.759	17.4842	8.84213	26.1008	OK	541.298	27.9725	16.466	39.509	OK	473.238	24.8802	14.4602	35.3109	OK	0.240133	0.91809	0.749079	1.181102	1.889612	1.68072
RSc1080	***exuT2***	putative hexuronate transporter transmembrane protein	368.118	20.8505	10.4608	31.2337	OK	302.679	17.2014	8.67604	25.6811	OK	369.016	20.0996	12.0314	28.1221	OK	365.354	20.2647	11.9336	28.5134	OK	-0.27756	-0.05292	-0.04111	-1.21214	-1.03736	-1.02891
RSc1081		glucosidase protein	378.259	10.8268	5.39345	16.2337	OK	448.958	12.8721	6.27456	19.4645	OK	453.49	12.6397	7.66488	17.595	OK	337.25	9.4872	5.8211	13.1436	OK	0.249641	0.223355	-0.19055	1.188911	1.167446	-1.1412
RSc1082		porin transmembrane protein	233.243	14.6833	7.33682	22.0105	OK	259.439	16.3932	8.26072	24.5104	OK	641.332	38.716	22.3031	55.1679	OK	256.564	15.8034	9.27508	22.3031	OK	0.158921	1.398754	0.106059	1.116452	2.636737	1.076284
RSc1083		hypothetical protein	166.312	13.223	6.55936	19.8768	OK	157.319	12.5669	6.16182	18.883	OK	233.414	17.6663	10.3272	24.9682	OK	139.614	10.8379	6.144	15.4907	OK	-0.07342	0.41795	-0.28696	-1.05221	1.336028	-1.22007
RSc1084		porin transmembrane protein	104.452	7.20985	3.58763	10.8217	OK	88.3197	6.1212	3.05831	9.17494	OK	106.703	7.04387	4.06138	9.97939	OK	71.6203	4.83331	2.66891	6.96237	OK	-0.23615	-0.0336	-0.57696	-1.17785	-1.02356	-1.4917
RSc1085	***nagL***	putative GST-related protein	52.7332	7.07506	3.1097	10.9341	OK	55.1998	7.46504	3.31033	11.4357	OK	24.4529	3.04971	1.38542	4.65107	OK	23.5712	3.06608	1.38542	4.65107	OK	0.077408	-1.21407	-1.20635	1.05512	-2.31991	-2.30753
RSc1086	***nagK***	putative isomerase-decarboxylase	130.819	15.6886	7.27851	23.9546	OK	81.8797	9.88943	4.51452	14.9256	OK	101.146	11.3452	6.08958	16.451	OK	100.631	11.7218	6.08958	16.9963	OK	-0.66576	-0.46763	-0.42052	-1.5864	-1.38284	-1.33841
RSc1087	***nagI***	gentisate 1,2-dioxygenase oxidoreductase protein	217.017	15.7921	7.87328	23.6814	OK	199.639	14.5901	7.31969	21.8361	OK	225.633	15.6767	9.22331	22.0874	OK	153.213	10.8951	6.25	15.4733	OK	-0.11421	-0.01058	-0.53552	-1.08238	-1.00736	-1.44947
RSc1088	***nagAb***	ferredoxin subunit of A ring-hydroxylating dioxygenase oxidoreductase protein	45.6345	19.3278	5.57316	19.6093	OK	32.1999	13.9475	3.71544	14.4489	OK	50.0173	17.7049	6.51606	19.7518	OK	46.2359	18.4806	5.90518	18.53	OK	-0.47067	-0.12653	-0.06467	-1.38575	-1.09166	-1.04584
RSc1089	***nagH***	putative salicylate-5-hydroxylase small oxygenase component oxidoreductase protein	80.1139	16.5312	6.52162	22.9615	OK	57.9598	12.1062	4.75535	16.304	OK	63.3552	11.7897	5.49535	16.352	OK	56.2083	11.1448	4.82518	14.3415	OK	-0.44945	-0.48766	-0.56882	-1.36552	-1.40217	-1.48331
RSc1090	***nagG***	putative salicylate-5-hydroxylase large oxygenase component oxidoreductase protein	314.371	18.4892	9.3758	27.5638	OK	233.679	13.7913	6.91657	20.6473	OK	273.428	15.4494	9.24923	21.6321	OK	302.8	17.4344	10.3106	24.513	OK	-0.42292	-0.25913	-0.08475	-1.34064	-1.19676	-1.0605
RSc1091	***nagAa***	ferredoxin oxidoreductase oxidoreductase protein	111.551	8.70781	4.30645	12.9846	OK	90.1597	7.07052	3.52346	10.5704	OK	98.923	7.35571	4.18394	10.492	OK	134.175	10.2282	5.79315	14.6116	OK	-0.30049	-0.24345	0.23217	-1.23157	-1.18382	1.174601
RSc1092		transcriptional regulatory DNA-binding transcription regulato	1598.22	138.902	59.9792	217.737	OK	1426.91	124.652	53.5605	195.485	OK	2182.98	180.02	98.1468	260.177	OK	2008.99	170.312	90.5484	249.624	OK	-0.15616	0.37409	0.294113	-1.11432	1.296022	1.226131
RSc1093	***pcaK***	4-hydroxybenzoate transporter	213.975	11.4548	5.80317	17.0792	OK	209.759	11.2647	5.70881	16.7018	OK	228.968	11.8035	7.07458	16.5229	OK	202.169	10.6026	6.28334	14.8939	OK	-0.02414	0.043262	-0.11153	-1.01688	1.030441	-1.08038
RSc1094		transcriptional regulatory DNA-binding transcription regulato	338.709	28.1822	13.6921	42.6588	OK	407.558	34.078	16.2379	51.8098	OK	203.404	16.0848	9.36684	22.7383	OK	255.657	20.7592	11.8104	29.5259	OK	0.274056	-0.80909	-0.44103	1.209203	-1.7521	-1.35758
RSc1095		hypothetical protein	163.27	13.6377	6.69549	20.4316	OK	162.839	13.6691	6.69549	20.5697	OK	180.062	14.2923	8.30745	20.2239	OK	246.591	20.1001	11.4398	28.4632	OK	0.003318	0.067638	0.559602	1.002302	1.047999	1.473863
RSc1096	***aspC***	aspartate aminotransferase protein	833.59	51.1274	23.3799	78.6946	OK	981.636	60.4261	27.1526	93.7321	OK	1307.12	76.9344	43.0358	110.761	OK	1460.51	87.6674	48.1729	126.487	OK	0.241075	0.589532	0.777944	1.181873	1.504759	1.714685
RSc1097	***efpR***	transcription regulator protein	1554.62	552.442	157.236	666.23	OK	1442.55	522.791	145.938	618.777	OK	2151.85	652.78	261.743	831.298	OK	2164.02	728.709	263.043	835.756	OK	-0.07959	0.240774	0.39952	-1.05672	1.181626	1.319069
RSc1098		transcriptional regulatory DNA-binding transcription regulato	1488.7	104.097	45.491	162.697	OK	1403.91	98.5746	43.1124	154.134	OK	933.656	62.4121	34.9629	89.7538	OK	1392.52	95.1876	51.8577	138.385	OK	-0.07864	-0.73803	-0.12908	-1.05602	-1.6679	-1.0936
RSc1099	***sda2a***	probable inactivated L-serine amonya-lyase	3.0423	4.91891	0.346242	4.84739	OK	6.43998	10.8923	0.692484	6.5786	OK	2.22299	2.47307	0	4.09881	OK	7.25269	10.9428	1.0247	6.14822	OK	1.146898	-0.99204	1.153571	2.214373	-1.98899	2.224639
RSc1100	***sda2b***	L-serine dehydratase	24.3384	9.08979	2.70755	10.25	OK	14.7199	5.61099	1.54717	6.57548	OK	8.89196	2.81841	0.763142	4.0065	OK	19.9449	7.05011	2.09864	8.58535	OK	-0.69599	-1.68937	-0.3666	-1.62	-3.22515	-1.28931
RSc1101	***soxB2***	sarcosine oxidase subunit beta	153.129	9.10583	4.65549	13.5527	OK	106.72	6.36841	3.20712	9.5179	OK	86.6966	4.95142	2.85765	7.09309	OK	123.296	7.17708	4.18441	10.1038	OK	-0.51586	-0.87895	-0.34339	-1.42984	-1.83903	-1.26874
RSc1102	***soxD2***	sarcosine oxidase subunit delta	25.3525	11.8622	0	27.9721	OK	17.4799	8.37818	0	18.8649	OK	16.6724	6.43784	0	14.332	OK	24.4778	10.7859	0	21.3911	OK	-0.50166	-0.88172	-0.13723	-1.41584	-1.84257	-1.09979
RSc1103	***soxA2***	sarcosine oxidase subunit alpha	678.433	15.3304	4.91774	25.7433	OK	543.718	12.3027	4.51149	20.0558	OK	511.288	11.2811	5.8849	16.6844	OK	438.788	9.75256	4.97791	14.5119	OK	-0.31742	-0.44249	-0.65254	-1.2461	-1.35895	-1.57194
RSc1104	***soxG2***	sarcosine oxidase subunit gamma	165.298	22.6013	0.610436	44.5618	OK	131.56	18.1344	1.22087	35.1001	OK	107.815	13.6883	2.00732	25.2922	OK	79.7796	10.5723	1.30476	19.7721	OK	-0.31768	-0.72346	-1.09612	-1.24632	-1.65114	-2.13778
RSc1105	***folB2***	putative dihydroneopterin aldolase protein	93.2972	21.0693	0	64.3616	OK	57.0398	13.0531	0	42.3359	OK	78.9161	15.9466	0	36.1706	OK	74.34	16.0958	0.216516	35.7252	OK	-0.69075	-0.40189	-0.38846	-1.61412	-1.32124	-1.30899
RSc1106	***purU***	formyltetrahydrofolate deformylase	129.805	11.7574	5.75404	17.7047	OK	105.8	9.63449	4.64749	14.5326	OK	104.481	8.96513	5.0214	12.881	OK	120.576	10.6481	5.89468	15.2825	OK	-0.28729	-0.39117	-0.14297	-1.22034	-1.31146	-1.10418

RSc1107		hypothetical protein	51.7191	16.5012	5.49981	18.9832	OK	54.2798	17.6328	5.67722	19.8703	OK	56.6862	15.63	6.47567	19.077	OK	54.3952	16.4907	6.12564	18.3769	OK	0.095691	-0.07825	-0.00092	1.068577	-1.05574	-1.00064
RSc1108		transcriptional regulatory DNA-binding transcription regulato	129.805	14.8218	6.91911	22.7089	OK	106.72	12.2684	5.67722	18.7171	OK	245.64	26.299	14.7015	37.6289	OK	146.867	16.3006	8.75091	23.6275	OK	-0.27277	0.827287	0.137204	-1.20813	1.774346	1.099772
RSc1109		hypothetical protein	12.1692	10.2152	1.67275	8.92135	OK	11.96	10.3878	1.67275	7.80618	OK	11.1149	7.10206	1.65017	7.15074	OK	10.879	8.53513	1.37514	7.15074	OK	0.024173	-0.52441	-0.25923	1.016896	-1.43834	-1.19684
RSc1110		transcriptional regulatory DNA-binding transcription regulato	1028.3	87.2502	38.3889	135.794	OK	822.477	70.1373	31.3964	108.594	OK	1546.09	124.588	67.6015	181.213	OK	1124.17	93.0658	50.0803	134.789	OK	-0.31498	0.513935	0.093093	-1.24399	1.427939	1.066654
RSc1111		hypothetical protein	218.032	14.9535	4.97192	24.9181	OK	90.1597	6.20864	1.22836	11.1722	OK	92.2541	6.05228	2.36585	9.69419	OK	70.7137	4.74191	1.6734	7.78998	OK	-1.26813	-1.30493	-1.65694	-2.4085	-2.47072	-3.15348
RSc1112		putative transcription regulator protein	219.046	54.6148	13.7132	95.743	OK	217.119	54.9263	20.2382	89.8071	OK	193.4	42.7518	22.3264	63.2214	OK	177.691	42.3691	22.6521	62.2335	OK	0.008205	-0.35331	-0.36628	1.005704	-1.27749	-1.28902
RSc1113		hypothetical protein	2032.26	228.408	95.5938	358.017	OK	603.518	68.2827	30.0538	106.459	OK	1450.5	152.975	80.5598	223.787	OK	1392.52	152.161	77.9667	224.738	OK	-1.74202	-0.57832	-0.58601	-3.34503	-1.49311	-1.50109
RSc1114	***fdxA***	ferredoxin protein	1499.85	579.808	159.131	672.567	OK	1826.19	720.927	194.779	814.761	OK	1148.17	375.14	145.132	462.013	OK	1179.47	431.19	149.406	475.807	OK	0.314278	-0.62815	-0.42725	1.243389	-1.54558	-1.34467
RSc1115	***recJ***	single-stranded-DNA-specific exonuclease protei	1163.17	48.769	21.8842	75.5896	OK	1502.35	63.1462	27.9905	98.1944	OK	1242.65	50.4328	28.7726	72.0623	OK	1149.55	47.2883	26.8644	67.7596	OK	0.372732	0.048398	-0.04448	1.294802	1.034116	-1.03131
RSc1116		putative signal peptide protein	686.546	48.1633	22.1826	74.0611	OK	804.077	56.6428	25.6411	87.5376	OK	931.433	62.4606	35.0012	89.9443	OK	611.945	41.9659	23.7067	60.2374	OK	0.233958	0.375012	-0.19872	1.176057	1.296851	-1.14768
RSc1117		lipoprotein releasing system transmembran	4442.77	262.734	82.8822	442.622	OK	3946.79	234.219	73.4099	394.9	OK	3118.85	177.168	82.779	271.698	OK	4122.25	238.645	116.754	358.59	OK	-0.16574	-0.56848	-0.13874	-1.12175	-1.48297	-1.10094
RSc1118	***lolD***	lipoprotein releasing system ATP-binding ABC transporte	2557.56	287.448	13.2622	591.292	OK	2449.03	277.086	9.0513	561.746	OK	2145.18	226.239	69.0786	384.098	OK	2020.78	220.812	43.8175	398.292	OK	-0.05297	-0.34545	-0.38048	-1.0374	-1.27055	-1.30178
RSc1119		deoxyribonuclease protein	1677.32	165.169	70.2413	259.735	OK	1687.27	167.119	70.7148	262.497	OK	1105.94	102.812	55.668	149.642	OK	1407.93	135.033	70.928	198.069	OK	0.016933	-0.68393	-0.29063	1.011806	-1.60651	-1.22318
RSc1120	***comEC***	DNA internalizaion competence protein ComEC/Rec2	685.532	18.5343	8.48048	28.6058	OK	681.717	18.4606	8.45516	28.4539	OK	517.957	13.6462	8.2661	19.0295	OK	527.633	14.0232	8.44091	19.6039	OK	-0.00575	-0.4417	-0.40238	-1.00399	-1.3582	-1.32169
RSc1121		hypothetical protein	9043.74	427.624	175.539	678.408	OK	8446.49	400.5	165.778	634.206	OK	10757	491.168	266.299	716.398	OK	15334	710.875	373.019	1048.23	OK	-0.09454	0.199874	0.733253	-1.06773	1.148598	1.662383
RSc1122		hypothetical protein	4439.73	362.384	157.176	565.862	OK	3352.47	274.961	120.405	427.376	OK	3441.19	267.135	145.902	388.338	OK	4605.46	366.926	195.605	535.376	OK	-0.39829	-0.43995	0.01797	-1.31795	-1.35656	1.012534
RSc1123		Putative transglutaminase	2079.92	186.817	80.9591	291.453	OK	1975.23	178.359	76.8562	278.705	OK	1932.89	164.522	89.19	240.105	OK	2220.23	194.447	103.718	284.844	OK	-0.06684	-0.18335	0.057751	-1.04742	-1.13551	1.040842
RSc1124		hypothetical protein	1219.96	104.338	45.3974	163.008	OK	1380.91	118.702	51.0985	185.531	OK	766.931	62.2753	34.6473	89.9163	OK	948.289	79.1242	42.7016	115.121	OK	0.18608	-0.74453	-0.39907	1.137668	-1.67543	-1.31866
RSc1125		putative hydrolase protein	658.151	64.22	28.6749	99.7353	OK	671.598	65.9112	29.145	102.086	OK	466.828	43.0203	23.9596	60.9811	OK	548.484	52.1324	28.3651	75.2795	OK	0.037501	-0.57801	-0.30084	1.026334	-1.49278	-1.23186
RSc1126	***pyrG***	CTP synthetase	10820.4	463.636	186.744	740.399	OK	16535.1	710.292	267.158	1152.18	OK	11529.5	478.001	258.514	696.482	OK	12206.3	513.085	274.998	750.932	OK	0.61542	0.044021	0.146205	1.532004	1.030983	1.106655
RSc1127	***kdsA***	2-dehydro-3-deoxyphosphooctonate aldolase	3904.29	362.825	156.37	568.687	OK	6631.34	619.644	254.44	983.942	OK	4999.5	439.68	235.476	641.558	OK	5021.58	454.836	237.853	671.131	OK	0.772166	0.27718	0.326073	1.707832	1.211824	1.253596
RSc1128		hypothetical protein	911.676	445.072	112.204	454.79	OK	1104.92	552.965	133.671	554.822	OK	1165.96	467.176	165.706	528.12	OK	916.558	421.051	131.648	411.318	OK	0.313149	0.069927	-0.08004	1.242417	1.049664	-1.05705
RSc1129	***eno***	phosphopyruvate hydratase	22971.4	1318.51	482.406	2151.72	OK	31269.8	1800.92	643.759	2957.78	OK	39219.1	2164.01	968.362	3356.44	OK	33745.8	1896.58	883.307	2908.9	OK	0.449826	0.714799	0.524492	1.365875	1.641254	1.438427
RSc1130	***ftsB***	cell division protein FtsB	438.091	160.885	49.2591	180.361	OK	586.958	219.945	64.5927	260.671	OK	573.531	179.11	72.2294	218.39	OK	581.122	202.068	73.5529	219.713	OK	0.451113	0.154816	0.328811	1.367095	1.11328	1.255978
RSc1131		hypothetical protein	639.897	163.317	56.7786	220.114	OK	680.797	176.352	59.5787	236.604	OK	495.727	111.919	51.1015	152.077	OK	467.798	114.11	48.1858	143.33	OK	0.110783	-0.54522	-0.51725	1.079814	-1.45924	-1.43122
RSc1132		putative redox regulated molecular chaperone heat-shock-like	2459.19	185.232	66.8706	303.261	OK	3580.63	270.904	98.5329	443.081	OK	3421.18	245.762	129.375	362.011	OK	1722.51	126.746	63.719	188.658	OK	0.548448	0.407929	-0.54739	1.462512	1.326779	-1.46144
RSc1133		hypothetical protein	1219.96	214.644	11.4363	443.376	OK	1544.67	274.619	5.15576	582.067	OK	898.088	144.301	5.46297	285.842	OK	682.659	115.835	18.8347	213.969	OK	0.355486	-0.57286	-0.88987	1.279416	-1.48747	-1.85302
RSc1134		hypothetical protein	348.85	34.8312	16.3596	52.8296	OK	338.559	34.0038	16.0404	51.7123	OK	326.779	30.784	17.4771	44.0076	OK	339.97	33.0553	18.2643	47.7865	OK	-0.03468	-0.1782	-0.0755	-1.02433	-1.13147	-1.05373
RSc1135		putative hydrolase protein	1220.98	103.191	44.9552	161.002	OK	1011.08	85.8791	37.6369	133.89	OK	863.631	69.3299	38.2977	100.042	OK	2338.99	192.883	103.479	281.423	OK	-0.26494	-0.57377	0.902409	-1.20158	-1.48841	1.869184
RSc1136		Putative thiol-disulphide oxidoreductase DCC	286.99	80.879	5.61444	153.572	OK	231.839	66.4032	4.2934	128.307	OK	235.637	58.1588	5.70155	110.773	OK	356.288	95.7165	21.3401	169.092	OK	-0.28451	-0.47577	0.243002	-1.218	-1.39066	1.183453
RSc1137		hypothetical protein	335.667	56.7346	4.86269	108.402	OK	315.559	53.8724	5.81151	101.879	OK	355.678	55.06	9.59409	100.387	OK	255.657	41.7095	6.90306	76.2847	OK	-0.07468	-0.04322	-0.44385	-1.05313	-1.03041	-1.36023
RSc1138		putative transmembrane protein	1003.96	66.9312	15.5335	118.534	OK	836.277	55.9723	12.8506	99.1908	OK	1523.86	97.2603	46.7837	148.393	OK	943.756	61.5326	25.8843	97.1476	OK	-0.25797	0.539172	-0.12133	-1.19579	1.453138	-1.08774
RSc1139		thioredoxin reductase oxidoreductase protein	1844.65	121.469	53.5545	189.361	OK	1418.63	93.7802	41.0133	146.597	OK	3894.68	245.617	136.481	354.384	OK	2136.82	137.625	75.7921	199.512	OK	-0.37323	1.015822	0.180154	-1.29525	2.022055	1.133005
RSc1140		hypothetical protein	3528.05	325.048	141.144	507.354	OK	3397.55	314.733	136.282	492.395	OK	4487.1	391.367	209.78	571.12	OK	2436.9	218.854	115.847	319.429	OK	-0.04652	0.267869	-0.57068	-1.03277	1.204028	-1.48523
RSc1141		hypothetical protein	1062.78	148.145	60.0663	235.105	OK	1133.44	159.304	63.4721	253.682	OK	1856.2	239.98	123.398	354.311	OK	1505.84	203.37	99.4717	296.684	OK	0.104773	0.695904	0.457097	1.075325	1.619899	1.372777
RSc1142		integral membrane transmembrane protei	737.251	92.0138	39.2295	144.57	OK	739.677	93.001	39.4195	145.615	OK	823.618	95.9396	50.8815	140.276	OK	777.851	94.2347	48.3515	136.902	OK	0.015396	0.060276	0.034408	1.010729	1.042665	1.024137
RSc1143	***trpS***	tryptophanyl-tRNA synthetase	4228.8	261.611	116.596	405.25	OK	6006.66	372.957	161.672	582.232	OK	3893.57	231.095	128.7	332.92	OK	4609.08	279.034	153.205	404.743	OK	0.511586	-0.17894	0.093018	1.425617	-1.13205	1.066599
RSc1144		Methyltransferase type 11	708.856	111.069	44.9571	176.906	OK	936.557	148.115	58.4442	237.486	OK	589.092	84.9811	43.574	123.072	OK	822.273	124.555	60.0945	184.164	OK	0.415262	-0.38624	0.165327	1.33354	-1.30698	1.12142
RSc1145	***dapA***	dihydrodipicolinate synthase	7488.11	666.996	272.886	1059.67	OK	7921.17	709.295	287.658	1130.26	OK	6456.67	545.19	292.532	797.339	OK	6773.1	588.32	308.756	867.117	OK	0.088708	-0.29092	-0.18108	1.063417	-1.22342	-1.13373
RSc1146	***nlpD***	NlpB lipoprotein	12306.1	765.721	304.896	1227.28	OK	19092.7	1192.38	449.516	1933.32	OK	19983.6	1192.77	603.895	1781.06	OK	17086.4	1040.36	529.801	1546.15	OK	0.638953	0.639425	0.442192	1.557199	1.557708	1.358667
RSc1147		Beta-lactamase-like protein	992.804	102.463	44.163	160.757	OK	1609.07	167.082	69.9726	263.503	OK	1220.42	118.664	63.2891	173.782	OK	1254.71	126.047	65.714	185.179	OK	0.705453	0.211779	0.298859	1.630657	1.158116	1.230171
RSc1148		hypothetical protein	2902.35	175.013	78.7996	271.112	OK	3298.19	199.591	88.8524	310.538	OK	2350.81	136.095	76.5478	195.605	OK	2446.88	144.418	80.2151	208.415	OK	0.189585	-0.36285	-0.27721	1.140435	-1.28596	-1.21185
RSc1149	***slyD***	fkbp-type peptidyl-prolyl cis-trans isomerase (rotamase) protei	6596.72	1170.23	424.31	1846.77	OK	8270.77	1482.68	522.077	2340.52	OK	14482.8	2344.82	1084.03	3562.49	OK	10180.1	1741.33	776.901	2457.04	OK	0.341415	1.002685	0.573398	1.266999	2.003726	1.488024
RSc1150		hypothetical protein	661.193	47.1553	0	133.821	OK	632.958	45.3322	0	147.306	OK	666.897	45.4407	0.119308	104.514	OK	689.005	48.0282	0.059654	109.048	OK	-0.05688	-0.05343	0.026462	-1.04022	-1.03773	1.018511
RSc1151	***mutS***	DNA mismatch repair protein	7098.7	183.821	60.1282	307.425	OK	9451.13	245.111	78.089	412.593	OK	7031.32	177.52	90.0812	265.245	OK	6815.71	173.523	87.5292	259.456	OK	0.415134	-0.05032	-0.08317	1.333422	-1.03549	-1.05935
RSc1152		transcription regulator protein	2753.28	242.23	104.742	378.05	OK	3311.07	292.823	126.497	458.803	OK	2932.12	244.657	132.322	355.251	OK	2518.5	216.101	115.195	316.308	OK	0.273651	0.014383	-0.16467	1.208863	1.010019	-1.12091
RSc1153		putative transmembrane efflux transmembrane protei	594.263	36.7636	3.64029	69.9685	OK	398.359	24.7343	1.28481	48.2874	OK	501.284	29.7527	6.81261	52.6525	OK	501.342	30.3513	8.44975	52.23	OK	-0.57176	-0.30526	-0.27652	-1.48634	-1.23564	-1.21127
RSc1154	***dkgB***	2,5-diketo-D-gluconate reductase B	1344.7	125.506	34.6269	216.722	OK	1062.6	99.7251	29.2813	170.245	OK	1541.64	136.145	65.7921	206.472	OK	1275.57	116.032	56.1257	176.018	OK	-0.33173	0.117388	-0.11323	-1.25852	1.084769	-1.08165
RSc1155		methyl-accepting chemotaxis transducer transmembrane protei	888.352	33.1079	15.0269	51.146	OK	4409.54	164.701	73.3626	256.377	OK	2407.5	87.0331	49.5479	124.441	OK	2031.66	74.3339	41.9846	106.659	OK	2.314602	1.394389	1.166845	4.974674	2.628771	2.245201
RSc1156		methyl-accepting chemotaxis transducer transmembrane protei	333.639	13.0936	6.75085	19.3953	OK	4287.18	168.64	74.938	261.426	OK	2403.05	91.3969	52.0797	130.728	OK	1147.74	44.2082	25.1237	63.003	OK	3.687013	2.803283	1.755452	12.87957	6.980273	3.376321
RSc1157		hypothetical protein	388.4	44.3495	12.7737	75.9328	OK	498.638	57.3229	19.6929	94.029	OK	512.399	54.859	27.0403	82.4336	OK	237.526	26.3627	13.1264	39.5541	OK	0.370194	0.30681	-0.75042	1.292526	1.23697	-1.68228
RSc1158		glutamine amidotransferase	392.457	44.5756	8.17782	81.0967	OK	314.639	35.9779	3.08736	69.637	OK	241.194	25.6931	6.9241	44.5273	OK	126.015	13.9134	4.74763	23.1861	OK	-0.30914	-0.79487	-1.67978	-1.23897	-1.73492	-3.20379
RSc1159		putative transcription regulator protein	156.171	25.9871	11.0268	38.2418	OK	119.6	20.0986	8.44603	28.8573	OK	192.289	29.3379	15.1596	41.7758	OK	81.5927	13.1096	6.24901	18.9785	OK	-0.3707	0.17497	-0.98717	-1.29298	1.128941	-1.9823
RSc1160	***suhB***	inositol monophosphatase	1857.83	183.787	78.2634	289.131	OK	2166.59	215.588	91.809	337.135	OK	1484.96	138.656	74.1593	202.942	OK	1554.79	149.797	78.1446	221.227	OK	0.230242	-0.40652	-0.29503	1.173032	-1.32549	-1.22691
RSc1161		putative tRNA/rRNA methyltransferase protei	907.62	83.2637	36.6728	129.846	OK	839.957	77.4754	34.2876	120.379	OK	619.103	53.7769	30.001	77.3556	OK	644.583	57.6443	31.2511	83.3852	OK	-0.10395	-0.6307	-0.53051	-1.07471	-1.54832	-1.44444
RSc1162	***cysE2***	O-acetylserine synthase	1512.02	150.969	63.8424	238.052	OK	1669.79	167.709	70.7054	262.791	OK	1862.87	175.49	94.1559	256.567	OK	1730.67	168.273	88.2514	247.513	OK	0.151708	0.217136	0.156551	1.110884	1.162424	1.11462
RSc1163		UDP-2,3-diacylglucosamine hydrolase	815.336	81.4078	0	260.078	OK	773.717	77.7097	0	206.769	OK	731.364	68.8975	0	211.142	OK	525.82	51.1255	0	140.289	OK	-0.06707	-0.24072	-0.67112	-1.04759	-1.18158	-1.59231
RSc1164	***ppiB***	peptidyl-prolyl cis-trans isomerase B	12293.9	2094.41	634.595	3554.08	OK	8348.05	1436.6	454.657	2419.39	OK	17389.3	2711.74	1262.51	4161.33	OK	11147.4	1832.77	903.614	2761.32	OK	-0.54389	0.372675	-0.19252	-1.45789	1.294751	-1.14276
RSc1165	***ppiA***	peptidyl-prolyl cis-trans isomerase A	3257.29	510.379	199.497	819.68	OK	2578.75	407.827	158.811	650.191	OK	4185.89	603.847	298.809	904.189	OK	2988.11	452.629	215.32	643.299	OK	-0.32361	0.242614	-0.17324	-1.25146	1.183134	-1.12759
RSc1166		signal peptide protein	1882.17	243.398	98.7482	384.064	OK	1721.31	224.307	90.259	357.23	OK	1925.11	231.901	120.614	341.819	OK	1638.2	205.518	102.709	304.374	OK	-0.11784	-0.06981	-0.24405	-1.08511	-1.04958	-1.18431
RSc1167	***cysS***	cysteinyl-tRNA synthetase	3542.25	184.566	69.0076	300.077	OK	4279.82	223.684	77.7142	369.684	OK	1591.66	79.9119	39.0369	120.792	OK	2216.6	113.165	56.215	170.145	OK	0.277325	-1.20765	-0.70571	1.211946	-2.30962	-1.63095
RSc1168		hypothetical protein	1312.25	118.36	1.71374	261.931	OK	1740.63	157.839	3.53648	344.761	OK	840.29	71.8116	17.3485	126.567	OK	1036.23	91.1294	17.149	165.07	OK	0.415272	-0.72089	-0.37719	1.33355	-1.6482	-1.29881
RSc1169	***accA***	acetyl-CoA carboxylase carboxyltransferase subunit alpha	10042.6	801.426	321.673	1268.95	OK	11777.8	944.339	370.389	1517.44	OK	8330.65	632.781	337.065	925.306	OK	8233.61	641.507	336.999	945.827	OK	0.236736	-0.34086	-0.3211	1.178323	-1.26651	-1.24929
RSc1170		puative tRNA(Ile)-lysidine synthase	634.827	33.3197	15.8568	50.6306	OK	761.757	40.1059	18.4996	61.7118	OK	655.782	33.1604	19.2104	47.0198	OK	712.577	36.6445	20.857	52.417	OK	0.267439	-0.00691	0.137221	1.203669	-1.0048	1.099785
RSc1171	***lysC***	aspartate kinase	6801.57	402.227	172.56	631.861	OK	13555.2	804.426	316.188	1292.24	OK	9967.89	566.232	305.724	825.708	OK	6908.18	399.929	218.425	580.926	OK	0.99995	0.493383	-0.00827	1.99993	1.407742	-1.00575
RSc1172	***fabI***	enoyl-(acyl carrier protein) reductase	3390.14	344.907	147.434	538.295	OK	4132.62	422.984	178.379	666.935	OK	2022.92	194.02	103.648	283.535	OK	3058.82	302.974	158.389	445.68	OK	0.294396	-0.83	-0.18701	1.226371	-1.77769	-1.1384
RSc1173		substrate-binding periplasmic (PBP) ABC transporter protei	2983.48	111.969	50.5469	173.348	OK	2783.91	104.711	46.8776	162.614	OK	2365.26	86.094	49.0526	123.037	OK	2589.21	95.3927	54.1609	136.603	OK	-0.09669	-0.37911	-0.23115	-1.06931	-1.30054	-1.17377
RSc1174		transmembrane ABC transporter protein	1539.4	110.893	48.6667	173.078	OK	1517.07	109.751	47.8738	171.553	OK	1766.17	121.515	67.4422	175.434	OK	1698.04	119.545	64.9153	173.208	OK	-0.01493	0.131966	0.108385	-1.01041	1.095786	1.078021
RSc1175		transmembrane ABC transporter protein	1342.67	89.7909	9.8462	169.675	OK	1216.24	81.6577	10.7621	152.559	OK	1377.14	88.1618	31.1728	145.078	OK	1461.42	95.5782	35.3518	155.751	OK	-0.13698	-0.02642	0.090112	-1.0996	-1.01848	1.064453
RSc1176		ABC transporter ATP-binding protein	3130.53	134.945	36.2092	233.851	OK	2638.55	114.028	30.2513	197.886	OK	2301.91	95.9981	41.3284	150.717	OK	2216.6	93.732	40.1297	147.875	OK	-0.24298	-0.49129	-0.52576	-1.18344	-1.4057	-1.43969
RSc1177		putative transmembrane protein	2712.72	344.575	140.546	545.05	OK	1483.03	189.8	76.5303	299.864	OK	1197.08	141.782	73.6929	208.163	OK	985.459	121.471	61.2524	173.596	OK	-0.86034	-1.28114	-1.50421	-1.81546	-2.43032	-2.83669
RSc1178		lipoprotein transmembran	649.024	52.3778	24.1504	80.5012	OK	962.316	78.0325	34.6826	121.221	OK	515.734	39.6003	22.567	56.5166	OK	684.472	53.9246	29.7143	77.8924	OK	0.57512	-0.40344	0.041988	1.489801	-1.32266	1.029532
RSc1179	***gltX***	glutamyl-tRNA synthetase	3415.49	164.027	74.0419	254.219	OK	4760.98	229.292	101.893	356.455	OK	4606.03	213.535	119.666	306.879	OK	3548.38	167.061	93.2473	240.558	OK	0.483253	0.380539	0.026442	1.397892	1.301828	1.018497
RSc1180		inner membrane transmembrane protei	443.162	24.0843	0.430296	48.8625	OK	551.078	30.0455	0.334675	60.2415	OK	479.054	25.0618	6.03715	44.0523	OK	545.765	29.0539	7.64077	50.4668	OK	0.319056	0.057397	0.270639	1.247514	1.040587	1.206342
RSc1181		inner membrane transmembrane protei	1415.68	55.7621	17.0554	94.6514	OK	1795.83	70.9004	22.3855	119.547	OK	1404.93	53.6273	25.8035	81.3801	OK	1484.08	57.372	27.6793	87.2131	OK	0.346509	-0.05632	0.041062	1.27148	-1.03981	1.028871
RSc1182	***rpmE2***	50S ribosomal protein L31 type B	1796.99	1086.26	236.625	993.58	OK	3464.71	2154.85	463.736	1891.54	OK	2285.23	1101.75	360.494	1143.33	OK	1603.75	909.052	251.479	803.049	OK	0.988218	0.020427	-0.25693	1.983733	1.01426	-1.19494
RSc1183		putative signal peptide protein	305.244	48.8986	8.2214	89.2936	OK	237.359	38.3862	6.96535	69.311	OK	277.874	40.9217	14.5312	66.9109	OK	242.965	37.6106	12.2783	62.9684	OK	-0.34921	-0.25693	-0.37865	-1.27386	-1.19493	-1.30013
RSc1184		hypothetical protein	711.898	65.0306	19.3658	110.988	OK	572.238	52.5559	16.6235	88.5364	OK	531.295	45.9611	22.0595	69.9848	OK	554.831	49.4092	24.6676	74.3591	OK	-0.30727	-0.50071	-0.39634	-1.23736	-1.41491	-1.31616
RSc1185		transcription regulator protein	2073.83	263.423	108.201	416.537	OK	1508.79	193.096	77.6855	308.335	OK	1926.22	228.142	119.181	335.796	OK	1555.7	191.76	96.0096	285.75	OK	-0.44806	-0.20745	-0.45808	-1.36421	-1.15464	-1.37371
RSc1186		putative sigma-54 interacting transcription regulator protei	910.662	48.2693	22.1218	74.316	OK	423.198	22.5018	11.131	33.7673	OK	294.546	15.0377	9.08912	20.9004	OK	366.261	19.0198	11.2576	26.7599	OK	-1.10107	-1.68252	-1.3436	-2.14513	-3.20989	-2.53784
RSc1187	***rho***	transcription termination factor Rho	5509.61	322.273	141.244	503.225	OK	10409.8	611.004	248.885	971.318	OK	6357.75	357.322	196.782	517.408	OK	6259.98	358.483	195.877	520.879	OK	0.922899	0.148941	0.153621	1.895921	1.108756	1.112358
RSc1188	***trxA***	thioredoxin 1 (redox factor) protein	8141.2	3147.19	826.381	4030.87	OK	9864.2	3894.1	985.118	4932.49	OK	8834.16	2886.37	1091.11	3391.46	OK	8476.58	3098.87	1047.79	3253.52	OK	0.307226	-0.12481	-0.02232	1.237326	-1.09036	-1.01559
RSc1189		hypothetical protein	1911.58	45.1439	10.0759	80.3619	OK	2220.87	52.5212	13.2413	91.8868	OK	964.777	22.2369	8.33454	36.109	OK	1205.76	28.0045	11.4352	44.5315	OK	0.218369	-1.02158	-0.68887	1.163417	-2.03013	-1.61202
RSc1190		hypothetical protein	1820.31	34.7656	4.62189	65.0693	OK	1811.47	34.6358	3.65197	66.0031	OK	1202.64	22.4629	9.15225	35.7872	OK	1292.79	24.2968	9.37822	39.2607	OK	-0.0054	-0.63012	-0.51689	-1.00375	-1.54769	-1.43087

RSc1191	***dnaX***	DNA polymerase III subunits gamma and tau	8284.18	263.461	107.777	418.945	OK	8044.45	256.317	105.244	407.284	OK	5364.07	165.882	92.9879	238.44	OK	7707.79	240.821	133.309	348.393	OK	-0.03966	-0.66743	-0.12963	-1.02787	-1.58824	-1.09401
RSc1192		hypothetical protein	2441.95	840.503	247.241	1014.87	OK	2468.35	866.019	250.387	1025.42	OK	2947.68	869.318	349.606	1128.78	OK	2640.88	862.037	315.467	1004.09	OK	0.043146	0.048631	0.036497	1.030358	1.034283	1.02562
RSc1194	***recR***	recombination protein RecR	1477.54	205.961	77.7819	334.127	OK	1667.95	234.43	88.9677	380.326	OK	1280.44	165.543	90.7588	239.955	OK	1526.69	206.186	113.986	298.605	OK	0.186786	-0.31517	0.001575	1.138225	-1.24415	1.001092
RSc1195	***oprB***	Carbohydrate-selective porin OprB	2109.33	101.073	45.3715	156.555	OK	2182.23	104.863	47.082	162.243	OK	1110.38	51.3647	29.2347	73.5296	OK	1917.43	90.0739	50.5384	128.962	OK	0.053108	-0.97655	-0.16622	1.037498	-1.96775	-1.12211
RSc1196		DNA-binding transcriptional regulatory transcription regulato	2061.67	174.931	76.2882	271.869	OK	1812.39	154.553	66.9882	241.731	OK	1309.34	105.51	57.3923	153	OK	1465.95	121.361	64.6353	177.626	OK	-0.17868	-0.72941	-0.52748	-1.13185	-1.65796	-1.44141
RSc1197		hypothetical protein	2934.81	178.98	80.4219	277.009	OK	3484.03	213.242	95.8612	330.306	OK	3094.4	181.124	101.244	260.959	OK	2625.47	156.706	87.0039	226.012	OK	0.252693	0.017179	-0.19174	1.191429	1.011979	-1.14214
RSc1198		signal peptide protein	7293.41	528.941	223.195	834.637	OK	7451.97	542.761	227.857	856.656	OK	10780.4	746.559	397.768	1095.47	OK	7633.45	541.006	287.526	793.903	OK	0.03721	0.497149	0.032538	1.026128	1.411422	1.02281
RSc1199		ABC transporter ATP-binding protein	1964.31	194.32	82.9371	305.449	OK	2000.07	199.019	84.759	311.549	OK	1563.87	146.024	78.3009	213.647	OK	1257.43	121.148	63.8442	178.482	OK	0.034472	-0.41223	-0.68166	1.024182	-1.33074	-1.60399
RSc1200		transmembrane permease ABC transporter protein	850.83	86.9743	38.2178	135.632	OK	781.997	80.4226	35.2091	125.549	OK	810.28	78.0681	42.4346	112.464	OK	726.175	72.265	38.4238	105.004	OK	-0.11299	-0.15586	-0.26729	-1.08147	-1.11408	-1.20355
RSc1201		transcription regulator protein	2035.3	280.071	112.651	446.82	OK	704.717	97.7673	40.5828	152.825	OK	768.043	98.0995	51.1278	141.887	OK	633.704	84.5066	42.4552	119.601	OK	-1.51837	-1.51347	-1.72866	-2.86467	-2.85497	-3.31419
RSc1202		flavoprotein NADH-dependent oxidoreductase	15286.5	1009.71	391.277	1618.12	OK	1822.51	120.851	53.2993	188.388	OK	3491.21	220.829	122.537	318.552	OK	1942.81	125.512	68.721	182.157	OK	-3.06264	-2.19294	-3.00804	-8.355	-4.57236	-8.04473
RSc1203		oxidoreductase protein	3086.92	244.526	108.788	378.876	OK	1983.51	157.858	69.1568	245.45	OK	3531.22	266.314	145.438	387.184	OK	4882.87	377.661	201.607	551.976	OK	-0.63136	0.12314	0.627104	-1.54903	1.089103	1.544462
RSc1204	***surE***	stationary phase survival protein SurE	2462.23	266.951	113.213	420.14	OK	2264.11	247.05	103.672	387.002	OK	2483.08	253.053	134.458	370.769	OK	2577.42	271.819	141.349	399.93	OK	-0.11177	-0.07714	0.026071	-1.08055	-1.05492	1.018236
RSc1205		hypothetical protein	1390.33	111.366	48.4674	173.603	OK	1367.11	110.026	47.7341	172.336	OK	888.084	67.7	37.6191	97.665	OK	1096.97	85.784	46.4978	124.959	OK	-0.01746	-0.71808	-0.37653	-1.01218	-1.64499	-1.29821
RSc1206		lipoprotein NLPD/LppB-like protein	7656.46	764.463	308.199	1220.03	OK	9240.45	928.081	363.423	1485.53	OK	6849.03	645.207	340.488	944.708	OK	7161.12	696.277	357.651	1031.7	OK	0.279804	-0.24468	-0.13479	1.21403	-1.18483	-1.09793
RSc1207	***rpoS***	RNA polymerase sigma factor RpoS	16311.8	1080.75	411.791	1748.99	OK	15698.8	1044.22	402.023	1686.29	OK	15563.1	987.366	515.088	1459.6	OK	17228.8	1116.44	569.095	1662.24	OK	-0.04961	-0.13038	0.046873	-1.03498	-1.09458	1.033023
RSc1208		Endonuclease/exonuclease/phosphatase	2106.29	191.59	82.6849	299.946	OK	2045.15	187.032	80.6123	293.358	OK	1721.71	148.335	80.1813	216.226	OK	1766.94	156.692	83.1022	229.371	OK	-0.03474	-0.36916	-0.29009	-1.02437	-1.2916	-1.22272
RSc1209	***rumA***	23S rRNA 5-methyluridine methyltransferase	1285.88	69.531	30.7011	107.906	OK	1991.79	108.046	48.2174	167.69	OK	866.966	45.1324	25.7789	64.4238	OK	1249.28	66.1727	37.0014	95.18	OK	0.635917	-0.62349	-0.07142	1.553926	-1.5406	-1.05075
RSc1210		hypothetical protein	34647.7	4132.08	1401.13	6862.28	OK	22041.3	2647.25	928.31	4365.96	OK	27181.6	3032.81	1398.87	4635.63	OK	31787.6	3682.46	1621.87	5718.21	OK	-0.64237	-0.44621	-0.1662	-1.5609	-1.36246	-1.1221
RSc1211	***ndk***	nucleoside diphosphate kinase	7529.69	1834.99	591.854	2848.61	OK	10622.3	2625.73	808.641	4092.94	OK	19517.8	4226.27	1770.83	6017.9	OK	8868.22	2068.03	836.648	2614.64	OK	0.516946	1.203613	0.172485	1.430923	2.303157	1.126998
RSc1212		hypothetical protein	6777.23	440.866	95.7629	786.285	OK	6986.45	456.226	90.508	821.951	OK	7432.57	463.215	165.998	760.283	OK	6798.49	432.605	162.414	702.763	OK	0.049408	0.071342	-0.02729	1.034841	1.050693	-1.0191
RSc1213	***pilF***	putative type 4 fimbrial biogenesis protein	2540.32	259.679	0.650515	544.156	OK	3179.51	326.989	1.1384	650.271	OK	3963.59	381.881	77.5695	685.131	OK	3429.61	341.297	72.9972	608.363	OK	0.332513	0.556394	0.394298	1.259205	1.470589	1.314303
RSc1214		hypothetical protein	3310.02	226.292	2.93973	538.449	OK	3765.55	258.476	1.7847	609.682	OK	3820.21	249.849	6.27858	500.913	OK	3872.93	258.891	17.5137	506.761	OK	0.191845	0.142871	0.194159	1.142223	1.1041	1.144057
RSc1215	***ispG***	4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase	3368.84	191.319	85.9674	295.072	OK	4083.86	232.705	104.055	361.311	OK	3776.86	206.248	115.298	296.775	OK	4196.59	233.379	129.073	336.531	OK	0.282522	0.1084	0.286695	1.216319	1.078032	1.219842
RSc1216	***hisS***	histidyl-tRNA synthetase	3294.81	186.621	83.0916	288.144	OK	5313.9	301.992	132.52	471.382	OK	3956.92	215.525	120.069	310.175	OK	4136.75	229.449	127.014	330.716	OK	0.694399	0.207744	0.298062	1.61821	1.154881	1.229492
RSc1217		hypothetical protein	2359.81	320.616	129.815	508.525	OK	2898.91	397.042	160.091	633.884	OK	3507.88	442.709	226.856	656.393	OK	2855.75	376.087	185.8	552.905	OK	0.308445	0.465512	0.23022	1.238372	1.380808	1.173014
RSc1218	***yfgL***	outer membrane assembly lipoprotein YfgL	4901.15	314.066	137.908	489.547	OK	6224.7	400.393	172.674	627.454	OK	6374.42	391.508	214.385	568.137	OK	5701.52	357.432	193.48	520.393	OK	0.350349	0.317974	0.186601	1.274869	1.246579	1.138079
RSc1219	***engA***	GTP-binding protein EngA	2419.64	131.833	59.5134	204.128	OK	3257.71	178.067	79.5908	275.142	OK	2398.61	125.794	71.1894	180.384	OK	2315.42	123.572	69.0622	178.115	OK	0.433709	-0.06765	-0.09336	1.350701	-1.04801	-1.06685
RSc1220	***hfq***	RNA-binding protein Hfq	7451.61	5666.91	1040.61	5001	OK	9682.04	7605.69	1318.34	6590.1	OK	8193.94	4811.81	1380.49	4287.32	OK	4396.94	3127.54	750.467	2452.58	OK	0.424517	-0.23598	-0.85753	1.342123	-1.17771	-1.81194
RSc1221		GTP-binding protein hflX-related protein Nucleotide-binding	2824.27	166.561	74.775	258.118	OK	5181.42	306.64	135.067	478.283	OK	3154.42	178.71	100.009	257.318	OK	3450.47	199.21	110.192	288.223	OK	0.880495	0.10157	0.258239	1.841007	1.07294	1.196018
RSc1222		hypothetical protein	6347.25	345.827	149.311	541.515	OK	7688.41	420.249	176.815	663.512	OK	6990.19	366.598	201.372	529.241	OK	6173.85	329.494	180.526	477.952	OK	0.281194	0.084148	-0.0698	1.2152	1.060062	-1.04957
RSc1223		putative serine protease transmembrane protein	5059.35	432.702	184.968	678.005	OK	6156.62	529.214	221.427	833.201	OK	7047.99	572.301	307.104	837.992	OK	5871.96	489.949	257.043	720.927	OK	0.290477	0.4034	0.179258	1.223045	1.322622	1.132301
RSc1224		hypothetical protein	78.0857	97.7134	15.0589	52.5461	OK	85.5597	111.528	16.3405	57.6725	OK	58.9092	52.8296	12.0109	35.4007	OK	58.9281	68.8316	12.0109	35.4007	OK	0.190778	-0.88721	-0.50549	1.141379	-1.8496	-1.4196
RSc1225	***hisZ***	ATP phosphoribosyltransferase regulatory subunit	1732.08	111.659	49.0912	173.733	OK	2610.03	168.898	75.8279	261.764	OK	1639.45	101.28	56.5273	145.942	OK	1718.89	108.4	59.7011	156.667	OK	0.597053	-0.14075	-0.04273	1.512623	-1.10248	-1.03006
RSc1226	***purA***	adenylosuccinate synthetase	5450.79	297.739	129.81	464.83	OK	9760.24	534.858	219.184	850.708	OK	9376.57	492.972	267.107	717.466	OK	7739.52	414.096	225.511	602.721	OK	0.845108	0.727457	0.475917	1.796399	1.655719	1.390802
RSc1227		putative nucleotide phosphoribosyltransferase protein	1965.33	301.346	117.294	481.237	OK	2478.47	383.494	150.49	615.572	OK	2419.72	342.074	172.911	509.672	OK	2455.94	364.203	175.312	517.531	OK	0.347783	0.182888	0.273322	1.272604	1.135154	1.208587
RSc1228	***rnr***	exoribonuclease RNase R	25642.5	672.942	232.74	1113.43	OK	26873.1	706.329	244.31	1168.65	OK	25140.9	643.166	311.781	973.908	OK	29692.5	766.082	358.944	1173.51	OK	0.069858	-0.06529	0.187017	1.049613	-1.0463	1.138407
RSc1229		putative tRNA/rRNA methyltransferase protein	3177.18	347.978	147.779	545.348	OK	3331.31	367.231	153.618	580.811	OK	2615.35	269.123	143.836	393.726	OK	2858.47	304.491	157.389	448.872	OK	0.077692	-0.37073	-0.1926	1.055328	-1.29301	-1.14282
RSc1230		hypothetical protein	1733.1	192.767	80.3057	304.101	OK	1675.31	187.57	77.7853	297.322	OK	1559.43	162.841	85.8234	238.351	OK	1551.17	167.766	86.1663	248.382	OK	-0.03943	-0.24339	-0.20041	-1.02771	-1.18377	-1.14902
RSc1231	***tal***	transaldolase B	10734.2	866.28	344.344	1372.28	OK	11511	933.406	366.482	1498.87	OK	13935.9	1070.06	553.188	1570.69	OK	12587.9	991.713	510.768	1472.74	OK	0.107671	0.304786	0.195089	1.077488	1.235236	1.144795
RSc1232	***rpiA***	ribose-5-phosphate isomerase A	648.01	79.4896	34.4972	124.396	OK	1079.16	133.341	55.1205	211.201	OK	351.232	40.2493	22.102	58.3529	OK	340.876	40.5996	21.5471	58.1679	OK	0.746282	-0.9818	-0.9693	1.677465	-1.97493	-1.95789
RSc1233		Permease for cytosine/purines, uracil, thiamine, allantoin	691.616	33.0665	15.4921	50.5307	OK	728.637	34.935	16.303	53.3901	OK	818.06	37.7598	21.8508	53.6377	OK	1102.41	51.6726	29.1765	74.0149	OK	0.079303	0.191481	0.644029	1.056507	1.141935	1.562687
RSc1234		methyl-accepting chemotaxis transmembrane protein	213.975	9.96396	5.0437	14.881	OK	375.359	17.5271	8.79522	26.2189	OK	187.843	8.44939	5.1401	11.7194	OK	251.124	11.4663	6.90829	15.996	OK	0.814796	-0.23787	0.202609	1.75905	-1.17925	1.150777
RSc1235		hypothetical protein	948.184	518.666	122.502	500.041	OK	1124.24	631.643	143.036	595.476	OK	990.342	437.971	149.391	469.812	OK	1092.44	561.187	164.353	511.245	OK	0.284304	-0.24397	0.113676	1.217822	-1.18425	1.081981
RSc1236		outer membrane porin lipoprotein transmembrane	202.82	13.7782	6.96227	20.5967	OK	183.999	12.5499	6.26604	18.7981	OK	300.104	19.5069	11.5044	27.4159	OK	300.987	19.9936	11.6761	28.2172	OK	-0.13471	0.501597	0.537151	-1.09787	1.41578	1.451104
RSc1237	***iolB***	putative myo-inositol catabolism protein	388.4	38.2464	17.9944	58.245	OK	336.719	33.3508	15.7846	50.9052	OK	317.888	29.552	16.8172	42.1987	OK	275.602	26.4327	14.6372	38.228	OK	-0.1976	-0.37207	-0.533	-1.14679	-1.29421	-1.44694
RSc1238	***iolE***	putative myo-inositol catabolism protein	498.937	41.8383	19.528	63.9855	OK	450.798	37.9894	18.0046	57.8224	OK	444.598	35.4225	20.2891	50.552	OK	382.579	31.3053	17.6932	44.9503	OK	-0.13923	-0.24016	-0.41842	-1.10132	-1.18112	-1.33646
RSc1239	***iolD***	putative acetolactate synthase protein	418.823	15.6635	7.86212	23.4838	OK	443.438	16.6207	8.3065	24.9537	OK	311.219	11.2894	6.91294	15.6806	OK	366.261	13.4471	8.16064	18.7155	OK	0.085575	-0.47244	-0.22011	1.06111	-1.38745	-1.16482
RSc1240	***iolC***	transferase kinase protein	498.937	17.9408	8.67253	27.1717	OK	541.878	19.5262	9.39799	29.6779	OK	313.442	10.939	6.6687	15.1916	OK	364.448	12.8675	7.80726	17.9242	OK	0.122167	-0.71376	-0.47951	1.088368	-1.64008	-1.39427
RSc1241	***mocB***	putative rhizopine-binding precursor signal peptide protein	324.512	27.2119	13.2957	41.1335	OK	222.639	18.7621	9.21003	28.1841	OK	240.083	19.1282	11.1351	27.0522	OK	271.069	22.1807	12.638	31.5609	OK	-0.53642	-0.50854	-0.29493	-1.45037	-1.42261	-1.22683
RSc1242		sugar ATP-binding ABC transporter protein	318.427	14.7003	7.52793	21.8393	OK	257.599	11.9246	6.12161	17.703	OK	227.856	10.1629	6.16138	14.1589	OK	246.591	11.163	6.73264	15.5463	OK	-0.3019	-0.53253	-0.39712	-1.23277	-1.44647	-1.31688
RSc1243		sugar transmembrane ABC transporter protein	148.059	11.0359	5.4609	16.5082	OK	84.6397	6.33669	3.13845	9.47812	OK	176.728	12.5674	7.36867	17.6477	OK	129.642	9.44086	5.32526	13.437	OK	-0.8004	0.187482	-0.22521	-1.74159	1.138774	-1.16895
RSc1244	***iolH***	putative protein implicated IN myo-inositol catabolique pathway	181.524	15.587	7.62643	23.4442	OK	128.8	11.1159	5.43736	16.7358	OK	116.707	9.51315	5.43362	13.5841	OK	110.603	9.26513	5.15498	13.3054	OK	-0.48772	-0.71235	-0.75046	-1.40223	-1.63847	-1.68233
RSc1245	***iolI***	putative protein implicated IN myo-inositol catabolique pathway	322.484	31.4668	14.9642	47.7915	OK	195.039	19.1413	9.16656	28.8316	OK	207.85	19.1543	10.8205	27.4376	OK	157.746	14.9935	8.26993	21.6409	OK	-0.71714	-0.71616	-1.06949	-1.64392	-1.64281	-2.0987
RSc1246	***iolG***	putative oxidoreductase myo-inositol 2- dehydrogenase signal peptide protein	300.174	22.6894	11.2416	34.0423	OK	184.919	14.0402	6.9863	21.0859	OK	216.741	15.6227	9.14755	21.9291	OK	189.476	13.9906	8.08242	19.8615	OK	-0.69245	-0.53837	-0.69756	-1.61603	-1.45234	-1.62176
RSc1247		putative myo-inositol catabolism protein	232.229	19.1739	9.43454	28.8505	OK	141.679	11.755	5.74276	17.5701	OK	235.637	18.4956	10.7909	26.168	OK	145.054	11.6886	6.60944	16.5911	OK	-0.70587	-0.05196	-0.71404	-1.63113	-1.03667	-1.64039
RSc1248		hypothetical protein	385.358	24.5473	12.0786	37.0045	OK	216.199	13.8238	6.91775	20.6984	OK	363.459	22.1944	13.1613	31.1971	OK	260.19	16.2155	9.53245	22.9104	OK	-0.82841	-0.14537	-0.59819	-1.77573	-1.10601	-1.51382
RSc1249		hypothetical protein	2061.67	177.741	77.3662	278.079	OK	2192.35	189.973	82.4673	297.279	OK	3144.42	257.302	139.853	374.131	OK	2788.66	234.531	125.665	341.91	OK	0.096018	0.533686	0.400002	1.068819	1.447623	1.31951
RSc1250	***argA***	N-acetylglutamate synthase	3044.33	164.202	74.5646	253.947	OK	3136.27	169.7	76.8917	262.068	OK	2785.41	144.647	81.8508	207.555	OK	3304.51	174.599	97.312	251.55	OK	0.047515	-0.18294	0.088574	1.033483	-1.13519	1.063318
RSc1251	***hrpA***	ATP-dependent RNA helicase protein	3482.42	58.4953	25.2221	91.7343	OK	5060.9	85.0938	35.4882	134.378	OK	2320.8	38.1643	21.9562	54.4057	OK	4502.11	74.4391	41.9569	106.919	OK	0.540733	-0.6161	0.34774	1.454712	-1.53272	1.272565
RSc1252		putative signal peptide protein	6386.8	494.962	210.519	775.86	OK	6869.61	534.822	224.463	836.305	OK	6141.01	453.448	244.785	659.628	OK	7010.63	530.603	282.021	778.63	OK	0.111741	-0.12638	0.100315	1.080531	-1.09155	1.072008
RSc1253		lipoprotein signal peptide	2218.85	216.507	92.9192	339.868	OK	2905.35	285.134	122.534	445.636	OK	2683.15	247.264	133.324	360.167	OK	2903.79	276	144.994	407.159	OK	0.397226	0.191639	0.350255	1.316974	1.14206	1.274786
RSc1254		putative sterol desaturase	963.395	76.3138	34.149	118.366	OK	1304.56	103.823	45.1798	162.423	OK	855.851	64.5458	35.9687	92.1371	OK	1178.56	91.1548	49.1963	132.732	OK	0.44411	-0.24162	0.256375	1.360475	-1.18232	1.194473
RSc1255		hypothetical protein	1602.28	148.258	63.3502	232.384	OK	1127	104.852	45.1858	164.23	OK	1296	113.505	61.3102	165.567	OK	1125.98	101.553	53.9056	148.907	OK	-0.49976	-0.38535	-0.54588	-1.41397	-1.30618	-1.45991
RSc1256		hypothetical protein	2351.7	230.518	99.1571	361.794	OK	1927.39	190.025	80.9141	298.179	OK	1656.13	153.287	82.5368	223.951	OK	1727.05	164.893	86.493	242.103	OK	-0.27869	-0.58864	-0.48335	-1.21309	-1.50383	-1.39799
RSc1257		hypothetical protein	1215.91	248.514	88.9733	373.175	OK	1251.2	258.827	91.2685	384.381	OK	1024.8	189.043	88.9709	282.363	OK	796.889	156.539	70.1911	213.637	OK	0.058661	-0.39461	-0.6668	1.041499	-1.31459	-1.58755
RSc1258	***glnA1***	glutamine synthetase protein	55761.3	2863.69	1002.35	4725.6	OK	38925.1	2005.11	705.318	3304.69	OK	52242.5	2586.13	1065.41	4105.24	OK	38519.9	1938.53	874.143	3003.21	OK	-0.51419	-0.14708	-0.56291	-1.4282	-1.10733	-1.47725
RSc1259		putative signal peptide protein	2724.89	499.894	186.173	769.548	OK	3338.67	619.177	228.605	939.777	OK	2905.45	485.242	233.692	699.095	OK	2204.82	389.732	178.83	567.326	OK	0.30873	-0.04292	-0.35914	1.238617	-1.0302	-1.28266
RSc1260	***ntrB***	nitrogen regulation(sensor protein kinase transcription regulato	1592.14	110.968	48.6269	173.1	OK	1322.04	92.5229	40.5026	144.457	OK	972.558	64.808	36.3288	93.0159	OK	1083.37	73.8172	40.7749	106.412	OK	-0.26226	-0.7759	-0.58811	-1.19936	-1.71226	-1.50328
RSc1261	***ntrC***	nitrogen assimilation regulatory response regulator transcription regulator protein	2667.08	127.515	57.5725	197.343	OK	2129.79	102.114	45.7507	158.036	OK	1569.43	72.4413	40.965	103.486	OK	1872.1	87.7499	49.3012	125.505	OK	-0.32049	-0.81578	-0.5392	-1.24875	-1.76025	-1.45316
RSc1262		hypothetical protein	1258.5	486.505	134.119	563.853	OK	585.118	230.987	66.1735	254.059	OK	263.424	86.0681	34.7772	94.8117	OK	361.728	132.24	48.183	139.498	OK	-1.07464	-2.4989	-1.8793	-2.1062	-5.65256	-3.67895
RSc1263		hypothetical protein	6278.29	556.922	232.656	880.8	OK	4990.98	445.057	189.214	698.04	OK	4369.29	367.47	197.964	535.941	OK	5989.81	518.157	271.583	764.525	OK	-0.32349	-0.59985	-0.10409	-1.25135	-1.51556	-1.07481
RSc1264	***ugpB***	glycerol-3-phosphate-binding periplasmic lipoprotein signal	6138.35	342.263	147.922	536.333	OK	4500.62	251.774	112.078	391.785	OK	5432.99	291.426	161.41	421.373	OK	7084.06	386.845	211.434	562.088	OK	-0.44298	-0.23198	0.17665	-1.35941	-1.17444	1.130257
RSc1265	***ugpA***	SN-glycerol-3-phosphate transmembrane ABC transporter	993.818	88.8922	38.9181	138.659	OK	851.917	76.6037	34.0259	118.945	OK	941.436	79.8114	43.651	115.466	OK	998.151	87.0577	46.8203	125.839	OK	-0.21464	-0.15546	-0.03008	-1.16042	-1.11378	-1.02107
RSc1266	***ugpE***	SN-glycerol-3-phosphate transmembrane ABC transporter	996.86	93.4472	40.7342	146.173	OK	682.637	64.3471	28.5215	100.053	OK	873.635	77.4751	42.5041	112.396	OK	732.521	66.9216	36.1434	97.5797	OK	-0.53828	-0.27042	-0.48168	-1.45224	-1.20616	-1.39637
RSc1267	***ugpC***	glycerol-3-phosphate transporter ATP-binding subunit	3913.41	269.259	109.564	429.164	OK	2702.03	186.668	78.2431	294.497	OK	2739.83	180.304	98.1326	262.458	OK	2527.56	170.031	91.9414	248.109	OK	-0.52852	-0.57856	-0.6632	-1.44245	-1.49336	-1.58359
RSc1268	***ugpQ***	cytoplasmic glycerophosphodiester phosphodiesterase	725.082	78.2169	0.107873	206.146	OK	452.638	49.1401	0.108564	132.339	OK	435.706	44.1905	1.11565	98.9887	OK	408.87	42.9064	1.25927	95.5994	OK	-0.67058	-0.82374	-0.86629	-1.59171	-1.76999	-1.82297
RSc1269	***kgd***	alpha-ketoglutarate decarboxylase	73907.6	1762.86	587.215	2942.31	OK	78806.9	1882.36	629.338	3134.99	OK	97100.2	2260.18	622.197	3893.21	OK	111025	2604.33	648.191	4564.02	OK	0.094625	0.35852	0.562994	1.067788	1.28211	1.477332
RSc1270	***sucB***	dihydrolipoamide acetyltransferase	21464.4	1262.4	464.896	2055.71	OK	23389.1	1380.38	503.168	2255.93	OK	27790.7	1570.24	755.809	2384.28	OK	40567	2335.74	1035.21	3634.8	OK	0.128896	0.314816	0.887711	1.093457	1.243853	1.850238
RSc1271		dihydrolipoamide dehydrogenase	36131.4	1825.01	638.587	3004.75	OK	39068.6	1979.26	693.039	3265.09	OK	41928.9	2042.17	899.744	3183.57	OK	63868.1	3161.6	1205.64	5114.58	OK	0.117057	0.162199	0.79275	1.08452	1.118991	1.732374
RSc1272		hypothetical protein	2196.54	151.131	67.1577	235.081	OK	1879.55	129.848	57.4213	201.942	OK	1329.35	87.4822	48.6613	126.137	OK	1940.09	130.512	71.1114	189.206	OK	-0.21898	-0.78874	-0.21162	-1.16391	-1.72756	-1.15799
RSc1273		putative lipoprotein	3076.78	288.422	125.464	451.262	OK	952.196	89.7564	39.1412	139.725	OK	1377.14	122.127	65.7017	177.874	OK	1163.15	106.263	56.273	156.247	OK	-1.68409	-1.2398	-1.44054	-3.21339	-2.36166	-2.71423

RSc1274		cation-transporting ATPase lipoprotein transmembrane	12890.2	346.759	129.911	563.433	OK	10491.6	282.683	110.585	454.914	OK	3364.49	88.2031	50.184	126.293	OK	10936.1	289.205	156.617	422.028	OK	-0.29475	-1.97503	-0.26184	-1.22667	-3.93137	-1.19901
RSc1275		Cytochrome oxidase maturation protein cbb3-type	448.232	867.416	95.328	351.113	OK	310.959	631.371	68.0395	246.325	OK	64.4667	83.3431	15.0753	44.508	OK	456.919	824.77	110.911	326.631	OK	-0.45824	-3.37959	-0.07273	-1.37386	-10.4078	-1.05171
RSc1276		cytochrome C oxidase subunit I	24928.6	1238.75	446.876	2028.5	OK	48995.3	2441.82	851.171	4019.89	OK	49503.8	2372.9	990.797	3755.21	OK	68732.8	3347.64	1230.15	5457.97	OK	0.979072	0.937766	1.434259	1.971197	1.91556	2.702434
RSc1277		cytochrome C oxidase subunit II	8465.71	1069.01	411.227	1723.78	OK	16389.7	2085.14	746.553	3420.73	OK	10968.2	1291.85	645.715	1936.3	OK	21209.6	2599.23	1198.59	3970.25	OK	0.963869	0.273163	1.281809	1.950534	1.208455	2.431437
RSc1278		putative signal peptide protein	500.965	857.868	0	1707.51	OK	981.636	1760.13	0	3516.36	OK	736.921	860.217	6.59618	1711.19	OK	958.261	1531.14	0	3045.7	OK	1.036854	0.003945	0.835779	2.051749	1.002738	1.78482
RSc1279		cytochrome C oxidase subunit III	12011	944.463	291.1	1599.95	OK	24407.5	1928.18	514.523	3340.41	OK	13253.5	992.469	480.679	1507.11	OK	34089.4	2617.5	1043.18	4188.76	OK	1.029674	0.071528	1.470623	2.041562	1.050829	2.771416
RSc1280		iron-sulfur 4Fe-4S ferredoxin transmembrane protein	7760.91	392.931	164.595	619.534	OK	15868.1	805.799	306.601	1305.27	OK	4571.58	223.174	124.937	321.025	OK	18405.5	913.244	468.955	1350.73	OK	1.036144	-0.81611	1.216724	2.050739	-1.76065	2.324184
RSc1281		lipoprotein transmembrane	1747.29	1466.73	190.694	1798.49	OK	1862.07	1617.3	197.385	1923.11	OK	723.583	462.344	113.312	526.68	OK	2154.05	1689.96	314.633	1632.57	OK	0.140984	-1.66556	0.204386	1.102657	-3.17238	1.152196
RSc1282		hypothetical protein	2037.33	1335.44	224.831	2456.76	OK	2207.07	1490.55	271.491	2710.85	OK	623.549	322.34	116.312	528.317	OK	2318.14	1423.35	528.66	2320.95	OK	0.15853	-2.05066	0.091975	1.116149	-4.14295	1.065828
RSc1283	***fnr***	putative fumarate and nitrate reduction regulatory transcription regulator protein	7427.27	843.595	335.521	1350.92	OK	7302.93	835.065	331.369	1333.43	OK	6336.63	675.007	350.862	998.117	OK	7212.8	796.366	400.885	1188.36	OK	-0.01466	-0.32165	-0.08312	-1.01021	-1.24976	-1.05931
RSc1284		hypothetical protein	1173.31	129.165	54.2279	203.635	OK	1140.8	126.406	52.9347	199.583	OK	286.766	29.6526	16.6696	42.2693	OK	882.108	94.4394	49.2434	138.715	OK	-0.03115	-2.12298	-0.45175	-1.02183	-4.35594	-1.3677
RSc1285	***scpB***	Putative chromosome segregation and condensation protein E	2831.37	242.153	106.279	377.678	OK	2958.71	254.327	111.347	395.345	OK	1520.52	123.468	66.795	179.416	OK	1635.48	136.463	72.9745	199.274	OK	0.070766	-0.97178	-0.82741	1.050274	-1.96126	-1.7745
RSc1286		hypothetical protein	8660.41	341.124	139.983	541.943	OK	11032.6	435.573	174.567	696.405	OK	6313.29	240.983	134.452	347.179	OK	7642.52	295.447	162.205	428.246	OK	0.352618	-0.50136	-0.2074	1.276876	-1.41555	-1.1546
RSc1287		hypothetical protein	1411.63	277.95	0	572.365	OK	1586.99	316.133	0	736.726	OK	748.036	133.343	1.42914	265.3	OK	947.382	179.445	4.54725	354.296	OK	0.185706	-1.05968	-0.63128	1.137374	-2.08447	-1.54894
RSc1288	***nusA***	transcription elongation factor NusA	10683.5	523.613	149.974	897.297	OK	15635.3	768.527	204.477	1330.77	OK	8280.64	391.604	194.605	588.685	OK	9678.71	464.986	229.93	700.694	OK	0.553595	-0.41911	-0.17131	1.467739	-1.3371	-1.12608
RSc1289	***infB***	translation initiation factor IF-2	28292.4	666.686	224.881	1108.65	OK	44888.5	1059.23	347.142	1770.9	OK	37805.3	869.471	380.795	1355.82	OK	44573.2	1032.97	431.422	1635.23	OK	0.667937	0.38313	0.631719	1.588799	1.304169	1.54941
RSc1290	***rbfA***	ribosome-binding factor A	410.711	125.521	41.8953	163.253	OK	619.158	192.541	61.1117	237.522	OK	603.542	160.16	68.8259	207.673	OK	593.814	172.635	67.6304	203.404	OK	0.617237	0.351585	0.459796	1.533935	1.275962	1.375348
RSc1291	***truB***	tRNA pseudouridine synthase B	762.603	62.7229	28.2819	97.1126	OK	1220.84	100.901	43.9562	157.425	OK	759.151	59.3672	32.9423	85.7845	OK	955.542	76.707	41.6821	111.6	OK	0.685876	-0.07933	0.290366	1.608679	-1.05652	1.22295
RSc1292	***emrB***	multidrug resistance B (translocase) transmembrane protein	341.752	15.7771	8.02427	23.4937	OK	197.799	9.1564	4.67393	13.6495	OK	232.302	10.3612	6.28379	14.4038	OK	300.987	13.6254	8.20157	19.0146	OK	-0.78498	-0.60664	-0.21153	-1.72307	-1.52271	-1.15792
RSc1293	***emrA***	multidrug resistance A (translocase) transmembrane protein	573.981	32.8575	15.7124	49.9395	OK	160.079	9.19478	4.65368	13.7109	OK	237.86	13.0904	7.84889	18.3141	OK	251.124	14.0763	8.34253	19.795	OK	-1.83734	-1.32771	-1.22295	-3.57349	-2.51005	-2.33424
RSc1294		putative outer membrane CHANEL lipoprotein	265.694	13.0817	6.70296	19.4079	OK	109.48	5.40603	2.76004	8.01727	OK	92.2541	4.38241	2.54991	6.18028	OK	118.763	5.73162	3.37106	8.08191	OK	-1.27491	-1.57775	-1.19054	-2.41983	-2.98505	-2.28237
RSc1295		putative transcription regulator protein	40.564	9.25761	3.48113	12.329	OK	11.04	2.55351	0.725236	4.20637	OK	25.5644	5.21557	2.14634	7.58373	OK	18.1317	3.96635	1.43089	6.15283	OK	-1.85816	-0.82781	-1.22283	-3.62544	-1.77499	-2.33404
RSc1296	***typA***	GTP-binding elongation factor protein	4619.23	179.314	79.6082	279.036	OK	8404.17	326.99	134.708	518.886	OK	6548.93	246.424	136.971	355.686	OK	5732.34	218.413	121.237	315.983	OK	0.866758	0.458655	0.284571	1.823561	1.37426	1.218048
RSc1297		putative transmembrane protein	4.0564	4.0938	0.298153	4.77044	OK	8.27997	8.67328	1.19261	5.96305	OK	3.33448	2.49247	0.294128	4.11779	OK	6.3461	5.98078	0.588256	5.58843	OK	1.083137	-0.71586	0.546893	2.118638	-1.64247	1.460936
RSc1298		enoyl-CoA hydratase	678.433	45.0893	20.8406	69.298	OK	567.638	37.8741	17.9936	57.6819	OK	394.581	25.1084	14.7735	35.3328	OK	441.507	28.6978	16.5148	40.8377	OK	-0.25157	-0.84462	-0.65184	-1.1905	-1.79579	-1.57118
RSc1299		tRNA-dihydrouridine synthase A	802.153	59.1742	26.8182	91.3436	OK	1023.96	75.8664	33.7872	117.851	OK	698.019	49.1424	27.6838	70.161	OK	766.972	55.2826	30.6302	79.7981	OK	0.358493	-0.268	-0.09814	1.282086	-1.20414	-1.07039
RSc1301		hypothetical protein	657.137	185.193	61.5938	240.595	OK	448.958	128.59	43.2643	159.516	OK	621.326	153.353	67.2783	204.441	OK	545.765	146.619	59.622	178.051	OK	-0.52625	-0.27217	-0.33696	-1.44018	-1.20763	-1.26309
RSc1302	***pepV***	hypothetical protein	566.882	23.3127	11.3298	35.2566	OK	844.557	34.8163	16.1002	53.6302	OK	429.037	17.085	10.2577	23.8243	OK	503.155	20.3036	12.0592	28.5672	OK	0.578647	-0.44839	-0.19938	1.493448	-1.36451	-1.14821
RSc1303		hypothetical protein	312.343	477.887	64.0602	231.707	OK	402.959	644.358	80.7568	314.509	OK	250.086	265.635	57.481	155.636	OK	313.679	447.895	71.9352	194.965	OK	0.431193	-0.84722	-0.09351	1.348348	-1.79904	-1.06696
RSc1304	***lexA***	LexA repressor	3080.84	405.739	165.8	644.109	OK	4258.66	565.245	227.728	902.01	OK	2351.92	288.234	150.095	422.861	OK	3127.72	399.484	198.5	592.083	OK	0.478324	-0.49331	-0.02241	1.393125	-1.40767	-1.01566
RSc1305	***fpr***	ferredoxin--NADP reductase	6700.16	701.614	281.889	1117.2	OK	8782.29	925.359	364.525	1484.54	OK	11774.1	1160.8	592.062	1726.88	OK	8226.36	838.34	424.28	1246.27	OK	0.399336	0.72637	0.256858	1.3189	1.654471	1.194874
RSc1306	***ansB***	L-asparaginase II precursor signal peptide protein	1206.78	82.5024	36.3422	128.627	OK	1589.75	109.125	47.8924	170.336	OK	782.492	51.1765	29.1186	73.0844	OK	902.96	60.3594	33.4922	86.8956	OK	0.403474	-0.68895	-0.45086	1.322689	-1.61211	-1.36685
RSc1307	***rpsF***	30S ribosomal protein S6	5384.87	1669.17	502.467	2312.68	OK	8135.53	2566.51	732.321	3569.8	OK	6106.55	1641.04	671.816	2230.32	OK	4034.31	1189.13	451.264	1459.16	OK	0.620677	-0.02452	-0.48922	1.537597	-1.01714	-1.40369
RSc1308		hypothetical protein	2665.05	1030.25	286.949	1177.93	OK	4209.9	1661.95	450.019	1862.7	OK	4099.19	1339.32	515.83	1673.97	OK	2890.2	1056.6	365.258	1176.79	OK	0.689883	0.378506	0.036435	1.613152	1.299995	1.025576
RSc1309	***rpsR***	30S ribosomal protein S18	2491.64	1331.06	314.849	1290.79	OK	4437.14	2433.65	551.679	2509.1	OK	5045.07	2185.86	740.291	2423.76	OK	3365.25	1688.94	498.006	1604.23	OK	0.870546	0.715625	0.343542	1.828355	1.642195	1.268868
RSc1310	***rplI***	50S ribosomal protein L9	4703.4	1040.35	361.243	1505.25	OK	8194.41	1836.24	600.365	2928.61	OK	10250.2	2032.48	905.43	2869.44	OK	5910.03	1253.99	530.131	1758.69	OK	0.819686	0.966172	0.269457	1.765021	1.95365	1.205354
RSc1311	***dnaB***	replicative DNA helicase	3143.71	160.68	72.6436	248.32	OK	3007.47	154.181	70.0621	238.311	OK	2370.82	116.815	66.0782	166.871	OK	3123.19	156.432	87.3448	224.907	OK	-0.05957	-0.45996	-0.03865	-1.04215	-1.37551	-1.02716
RSc1312		hypothetical protein	1457.26	201.823	80.2188	323.34	OK	1687.27	235.603	93.2633	375.416	OK	1034.8	132.974	68.2939	195.154	OK	1040.76	139.669	68.6992	196.37	OK	0.223267	-0.60195	-0.53108	1.167374	-1.51776	-1.44501
RSc1313	***pit***	inorganic phosphate transporter	1649.94	125.156	54.9733	195.369	OK	2064.47	157.303	69.497	244.991	OK	1281.55	92.6899	51.0892	133.85	OK	1402.49	103.92	56.3678	151.257	OK	0.329819	-0.43324	-0.26825	1.256855	-1.35027	-1.20435
RSc1314		lipoprotein transmembrane	2254.34	236.066	100.124	371.653	OK	1348.72	142.109	59.2622	224.948	OK	1354.91	133.581	71.2993	195.092	OK	939.223	95.7153	50.3674	140.882	OK	-0.73219	-0.82148	-1.30237	-1.66116	-1.76721	-2.46634
RSc1315		putative signal peptide protein	90.2549	21.9951	8.31468	28.8746	OK	69.9197	17.2835	6.34939	22.6764	OK	63.3552	13.7185	6.11454	18.1945	OK	78.873	18.3928	7.75503	23.4142	OK	-0.34779	-0.68106	-0.25804	-1.27261	-1.60332	-1.19585
RSc1316		hypothetical protein	20503.1	848.05	310.691	1384.86	OK	22194	920.234	332.158	1507.49	OK	17473.8	699.784	361.602	1038.87	OK	26532.1	1076.79	524.551	1627.43	OK	0.117851	-0.27724	0.344516	1.085118	-1.21187	1.269725
RSc1317	***bcp***	bacterioferritin comigratory oxidoreductase protein	2068.76	439.528	155.67	646.641	OK	2535.51	545.473	192.233	787.908	OK	4179.22	798.767	369.03	1201.91	OK	1905.64	388.763	169.827	542.683	OK	0.311553	0.86182	-0.17706	1.241043	1.817329	-1.13058
RSc1318		hypothetical protein	2748.21	241.784	104.67	377.473	OK	3966.11	350.752	151.71	548.417	OK	4255.91	355.114	191.59	518.699	OK	3198.44	274.443	145.753	401.23	OK	0.536733	0.554563	0.182788	1.450683	1.468724	1.135075
RSc1319		hypothetical protein	10197.8	734.612	298.22	1167.08	OK	15663.9	1133.18	434.158	1832.01	OK	14850.7	1021.75	531.175	1508.03	OK	13227.1	931.21	481.601	1379.77	OK	0.625323	0.475988	0.342124	1.542556	1.39087	1.267622
RSc1320		hypothetical protein	1727.01	143.696	2.54577	284.369	OK	2142.67	179.159	3.23381	355.237	OK	1853.97	146.609	31.087	262	OK	2112.35	171.521	44.3907	298.653	OK	0.318221	0.028954	0.255365	1.246792	1.020272	1.193638
RSc1321	***pmrF***	putative polymixin resistance glycosyltransferase transmembrane protein	2773.56	213.404	31.5881	394.464	OK	3390.19	262.037	36.2296	487.939	OK	2833.2	207.753	68.7464	346.149	OK	2727.92	204.999	68.3012	340.87	OK	0.296183	-0.03872	-0.05797	1.227892	-1.0272	-1.041
RSc1322		putative aminotransferase protein	3009.85	194.03	11.4103	384.921	OK	3476.67	224.979	12.8128	458.607	OK	2915.45	180.108	45.0354	314.63	OK	2598.28	163.858	38.3429	289.905	OK	0.213511	-0.10742	-0.24383	1.159506	-1.0773	-1.18414
RSc1323		putative small multidrug resistance transmembrane protein	395.499	120.872	40.5103	157.021	OK	461.838	143.619	46.5695	172.255	OK	261.201	69.3144	30.3995	82.6594	OK	269.256	78.2787	31.4242	85.0504	OK	0.248767	-0.80225	-0.62679	1.188191	-1.74382	-1.54412
RSc1324		hypothetical protein	1202.72	51.3295	22.9315	79.663	OK	996.356	42.6295	19.4629	65.7884	OK	1164.85	48.1048	27.3745	68.8164	OK	963.701	40.3485	23.0402	57.4864	OK	-0.26794	-0.09361	-0.34727	-1.20408	-1.06703	-1.27215
RSc1325		hypothetical protein	162.256	47.5811	16.5651	58.3159	OK	115.92	34.5677	11.8322	40.3985	OK	125.599	32.1227	14.007	39.3529	OK	109.697	30.6332	12.3395	35.6844	OK	-0.46096	-0.5668	-0.63529	-1.37646	-1.48123	-1.55325
RSc1326		aminotransferase AlaT	8255.79	492.295	206.685	778.049	OK	11405.2	682.494	274.663	1089.53	OK	9825.61	562.678	304.103	820.693	OK	7420.41	433.135	234.33	631.428	OK	0.471293	0.192786	-0.18471	1.386352	1.142969	-1.13659
RSc1327		homoserine dehydrogenase	3937.75	218.993	97.9676	339.715	OK	8722.49	486.686	201.643	772.861	OK	5637.5	301.633	166.048	436.347	OK	4667.1	254.205	140.395	368.098	OK	1.152107	0.46191	0.215108	2.222382	1.377364	1.160791
RSc1328	***thrC***	threonine synthase	4117.25	206.506	92.5486	320.045	OK	9226.65	464.147	189.64	737.627	OK	8591.85	415.603	227.589	603.418	OK	6763.13	332.457	183.17	481.364	OK	1.168398	1.009022	0.686984	2.24762	2.012547	1.609914
RSc1329		hypothetical protein	493.867	73.1145	30.9599	114.886	OK	954.036	142.484	56.9577	225.134	OK	865.854	118.451	60.6583	170.375	OK	654.555	93.7833	46.079	141.323	OK	0.96257	0.696061	0.359173	1.948779	1.620075	1.282691
RSc1330	***moeA2***	putative molybdopterin biosynthesis MOEA protein	2744.15	160.952	71.5055	250.244	OK	3139.95	184.805	83.6702	286.073	OK	2428.62	136.858	76.8934	196.645	OK	1976.36	113.485	62.7248	164.123	OK	0.199373	-0.23395	-0.50413	1.148199	-1.17605	-1.41827
RSc1331	***moaD***	molybdopterin MPT converting factor subunit 1	151.101	91.3389	22.1988	76.5981	OK	172.959	107.571	25.3701	89.7711	OK	100.035	48.2282	16.1235	46.9267	OK	90.6586	51.3879	14.439	42.3544	OK	0.235988	-0.92135	-0.8298	1.177713	-1.89389	-1.77744
RSc1332	***moaE***	molybdopterin MPT converting factor subunit 2	796.069	138.925	47.9066	227.526	OK	918.157	161.895	54.8197	264.76	OK	1316.01	209.858	101.818	312.154	OK	969.14	163.139	75.0175	229.36	OK	0.220752	0.595107	0.231795	1.165341	1.510585	1.174295
RSc1333	***crcB***	hypothetical protein	250.483	73.4533	0.586494	167.151	OK	338.559	100.96	1.19282	227.231	OK	350.121	89.5455	6.64965	174.681	OK	244.778	68.3551	3.63029	133.762	OK	0.458885	0.285794	-0.10378	1.374479	1.219081	-1.07458
RSc1334		D--3-hydroxybutyrate oligomer hydrolase	14281.6	456.223	173.776	739.488	OK	2736.99	87.5977	38.6761	136.49	OK	2853.21	88.6225	50.4927	126.684	OK	2783.22	87.3449	49.9093	124.7	OK	-2.38077	-2.36399	-2.38494	-5.20816	-5.14794	-5.22324
RSc1335	***clpB***	ATP-dependent protease	54579.9	1448.29	479.413	2414.95	OK	43500.2	1156.09	383.073	1925.31	OK	100819	2607.56	712.099	4518.52	OK	29883.8	779.565	365.141	1193.97	OK	-0.3251	0.84835	-0.89361	-1.25275	1.800441	-1.85782
RSc1336	***sbp***	sulfate-binding precursor signal peptide protein	407.668	30.9235	14.9696	46.8197	OK	929.197	70.8004	31.7864	109.437	OK	551.301	39.8736	22.811	56.4935	OK	879.388	65.1598	35.6305	94.5119	OK	1.195054	0.36673	1.075279	2.289534	1.289427	2.107129
RSc1337		NADPH-dependent FMN reductase oxidoreductase protein	127.777	17.0369	7.68818	26.3595	OK	206.079	27.695	12.381	42.3349	OK	76.6931	9.50899	4.92493	13.9868	OK	118.763	15.354	7.87989	21.9652	OK	0.700963	-0.8413	-0.15005	1.625589	-1.79166	-1.10961
RSc1338	***ssuA1***	putative alkanesulfonates binding precursor signal peptide	82.1421	6.23086	3.12131	9.36394	OK	240.119	18.296	9.10914	27.4548	OK	112.261	8.11941	4.65019	11.5626	OK	109.697	8.12818	4.58735	11.6255	OK	1.554025	0.381944	0.383501	2.936352	1.303096	1.304504
RSc1339	***ssuD***	alkanesulfonate monooxygenase	79.0998	5.08391	2.54506	7.57984	OK	233.679	15.0762	7.57984	22.5182	OK	186.731	11.5021	6.82255	16.1558	OK	135.988	8.55048	4.96682	12.1169	OK	1.568262	1.177887	0.750067	2.965473	2.262452	1.681871
RSc1340	***ssuC***	aliphatic sulfonate ABC transporter transmembrane protein	40.564	4.12692	1.94418	6.23758	OK	110.4	11.2997	5.4275	17.0926	OK	88.9196	8.52834	4.71492	12.3067	OK	81.5927	8.08169	4.31535	11.6674	OK	1.453147	1.047199	0.969592	2.738047	2.066514	1.958286
RSc1341	***ssuB***	aliphatic sulfonate ABC transporter ATP-binding protein	70.987	6.59682	3.16356	9.86729	OK	120.52	11.2616	5.42324	16.8723	OK	111.149	9.77502	5.49864	13.9695	OK	80.6861	7.30826	3.93822	10.6258	OK	0.771569	0.567329	0.147757	1.707126	1.481778	1.107846
RSc1342	***ssuF***	putative molybdopterin-binding protein	508.064	512.748	87.9551	326.775	OK	275.999	289.109	48.897	178.593	OK	474.608	354.762	93.5326	278.833	OK	423.376	399.004	84.4147	248.244	OK	-0.82664	-0.5314	-0.36185	-1.77355	-1.44533	-1.28507
RSc1343		hypothetical protein	2567.7	222.26	97.5256	346.671	OK	1280.64	111.42	47.9809	174.295	OK	1330.46	109.291	59.3943	159.25	OK	1451.44	122.555	65.0743	178.674	OK	-0.99624	-1.02407	-0.85882	-1.99479	-2.03365	-1.81355
RSc1344		hypothetical protein	939.057	119.281	49.9613	187.62	OK	416.758	53.337	23.6811	82.4987	OK	507.953	60.162	32.3831	87.0829	OK	507.688	62.5792	32.3831	90.1218	OK	-1.16116	-0.98744	-0.93061	-2.23636	-1.98266	-1.90608
RSc1345	***cysU***	putative sulfate transport ABC transporter protein	195.721	16.7391	8.1645	25.1269	OK	260.359	22.3801	10.9095	33.7841	OK	234.525	19.0436	11.0399	27.0096	OK	238.432	19.8945	11.2482	28.5371	OK	0.418995	0.186084	0.249148	1.336995	1.137672	1.188505
RSc1346	***cysW***	putative sulfate transport ABC transporter protein	1039.45	81.7354	6.89307	156.571	OK	889.637	70.2807	4.52973	135.826	OK	680.235	50.9385	16.32	85.5507	OK	1041.67	79.9826	20.6591	139.174	OK	-0.21783	-0.6822	-0.03127	-1.16299	-1.60459	-1.02191
RSc1347	***cysA***	sulfate transport ATP-binding ABC transporter protein	3080.84	207.323	61.8434	352.555	OK	2830.83	191.257	61.0763	321.799	OK	1500.52	96.6444	45.3428	147.944	OK	2905.61	191.211	90.1564	292.251	OK	-0.11637	-1.10112	-0.11671	-1.084	-2.14521	-1.08426
RSc1348	***cysB1***	transcriptional regulator CysB-like protein	4286.6	335.839	147.716	524.174	OK	4002.91	315.067	138.554	489.814	OK	2257.45	168.45	92.8439	244.054	OK	3995.32	305.666	164.317	444.269	OK	-0.09211	-0.99545	-0.13581	-1.06593	-1.9937	-1.09871
RSc1349	***ripV1***	Type III effector protein	873.14	29.6577	13.3621	46.0007	OK	974.276	33.1593	14.9268	51.3831	OK	730.252	24.0958	14.2005	33.9885	OK	1025.35	34.2058	19.6028	48.7755	OK	0.161007	-0.29963	0.205834	1.118067	-1.23082	1.153353
RSc1350		hypothetical protein	10.141	4.84574	0	13.1431	OK	1.83999	0.900982	0	2.19051	OK	4.44598	1.7485	0	5.18625	OK	6.3461	2.85462	0	7.34719	OK	-2.42715	-1.4706	-0.76342	-5.37829	-2.77137	-1.69751
RSc1351		putative transmembrane sensor histidine kinase transcription regulator protein	710.884	42.2728	17.5422	67.0171	OK	534.518	31.897	13.9041	50.007	OK	513.511	29.3276	16.9052	41.806	OK	686.286	39.9489	22.5274	57.57	OK	-0.40631	-0.52747	-0.08157	-1.32529	-1.4414	-1.05817
RSc1352		two-component response regulator transcription regulator protein	311.329	30.7983	14.6546	46.4986	OK	192.279	19.1329	9.18882	29.1508	OK	193.4	18.0584	10.2369	25.7096	OK	230.273	22.1857	12.2687	32.0393	OK	-0.6868	-0.77018	-0.47322	-1.6097	-1.70548	-1.38821
RSc1353	***ilvG***	acetolactate synthase 2 catalytic subunit	2576.83	104.766	47.2495	162.109	OK	265.879	10.8358	5.56962	16.0818	OK	339.006	13.3492	8.15067	18.521	OK	321.838	12.8402	7.7868	17.866	OK	-3.27329	-2.97235	-3.02843	-9.66851	-7.84811	-8.15922
RSc1354	***menG***	ribonuclease activity regulator protein RraA	617.587	115.268	32.6451	197.776	OK	67.1598	12.6739	4.69987	20.4508	OK	58.9092	9.99617	4.00988	15.9142	OK	58.9281	10.5932	4.13519	16.5408	OK	-3.18506	-3.52747	-3.44378	-9.09491	-11.5312	-10.8813
RSc1355		hypothetical protein	506.036	129.152	15.5687	245.015	OK	43.2398	11.2007	2.59038	19.9459	OK	81.1391	18.3185	8.80491	27.9951	OK	60.7413	14.8166	6.34219	23.4173	OK	-3.52741	-2.8177	-3.12378	-11.5307	-7.05036	-8.71671

RSc1356	***ripG6, gala6***	Type III effector protein GALA6	848.802	32.1361	14.6916	49.6057	OK	890.557	33.7924	15.3138	52.2675	OK	985.896	36.1971	20.9044	51.4596	OK	1006.31	37.4002	21.4159	53.3693	OK	0.072504	0.171679	0.218851	1.05154	1.126369	1.163806
RSc1357	***ripG7, gala7***	Type III effector protein GALA7	2379.08	85.979	38.4948	133.506	OK	3786.71	137.142	61.1213	212.98	OK	5398.53	189.343	106.18	271.872	OK	3618.18	128.389	72.6822	183.863	OK	0.673614	1.138946	0.578465	1.595064	2.202201	1.49326
RSc1358	***aceA***	isocitrate lyase	138868	7643.74	2768.03	12513	OK	28907.2	1596.33	571.293	2621.29	OK	25242	1337.05	654.728	2019.89	OK	43281.3	2333.42	1024.71	3640.38	OK	-2.25952	-2.51523	-1.71183	-4.78832	-5.71687	-3.27577
RSc1359		hypothetical protein	2003.86	374.004	138.075	575.036	OK	992.676	187.331	69.609	285.041	OK	1169.29	198.414	95.2347	299.112	OK	1523.97	273.956	123.93	397.981	OK	-0.99746	-0.91454	-0.44911	-1.99649	-1.88497	-1.3652
RSc1360		transcription regulator protein	474.599	39.7974	18.6278	60.9386	OK	459.078	38.6872	18.2816	58.7919	OK	276.762	22.0505	12.8429	31.2193	OK	516.754	42.2844	23.4999	59.9793	OK	-0.04082	-0.85186	0.087451	-1.0287	-1.80483	1.062492
RSc1361		hypothetical protein	47.6627	44.5403	8.12265	29.0095	OK	53.3598	51.6882	9.28303	31.9104	OK	43.3483	30.3503	7.72682	27.7593	OK	40.7964	35.611	7.15446	25.4699	OK	0.214724	-0.5534	-0.32279	1.160482	-1.46754	-1.25075
RSc1362		putative 2-haloalkanoic acid dehalogenase protein	1026.27	122.393	51.374	193.386	OK	649.518	78.0098	33.8518	122.013	OK	676.9	75.5257	40.4539	110.14	OK	1903.83	220.551	112.312	323.45	OK	-0.64979	-0.69648	0.849591	-1.56894	-1.62055	1.80199
RSc1363	***aceB***	malate synthase	8421.09	379.779	156.79	602.98	OK	4388.38	198.437	88.2172	308.436	OK	5613.05	244.686	135.734	353.739	OK	7387.77	326.756	178.887	474.409	OK	-0.93648	-0.63423	-0.21695	-1.91385	-1.55211	-1.16227
RSc1364		hypothetical protein	753.476	156.983	57.8378	230.257	OK	780.157	164.55	59.8888	238.872	OK	1289.33	242.059	113.035	360.147	OK	820.46	164.216	72.9737	223.507	OK	0.067918	0.62475	0.064986	1.048203	1.541944	1.046075
RSc1365		putative multidrug resistance-like efflux transmembrane protei	482.712	23.8763	11.6573	35.9836	OK	534.518	26.5161	12.757	40.1186	OK	450.155	21.4804	12.8018	30.1168	OK	506.782	24.5698	14.4074	34.7167	OK	0.151289	-0.15256	0.041307	1.110562	-1.11154	1.029046
RSc1366		acyl-CoA-binding protein	2199.58	897.361	242.618	1003.48	OK	1220.84	509.062	134.067	562.192	OK	2530.87	866.957	330.444	1053.27	OK	3021.65	1164.34	392.577	1264.64	OK	-0.81785	-0.04973	0.375752	-1.76277	-1.03507	1.297516
RSc1367		putative transmembrane protein	1040.47	117.555	38.0951	196.986	OK	887.797	100.979	32.3765	169.097	OK	770.266	81.6416	38.0148	125.241	OK	576.589	63.331	27.6866	98.4219	OK	-0.21928	-0.52596	-0.89235	-1.16415	-1.43989	-1.8562
RSc1368		acyltransferase protein	668.292	115.686	5.02011	230.233	OK	578.678	101.205	6.12116	200.949	OK	514.622	81.4512	25.6404	137.382	OK	533.979	89.1778	33.0672	145.128	OK	-0.19293	-0.50621	-0.37546	-1.14309	-1.42031	-1.29725
RSc1369		putative DNA polymerase-related protein, bacteriophage-type	1333.54	119.778	51.2863	188.221	OK	1261.32	113.894	48.9418	178.55	OK	1412.71	120.246	65.194	174.766	OK	1471.39	128.864	68.2296	188.354	OK	-0.07267	0.005626	0.105486	-1.05166	1.003907	1.075857
RSc1370		hypothetical protein	2208.71	123.154	55.1589	190.905	OK	3257.71	182.243	81.5159	283.032	OK	1961.79	105.231	58.9971	151.038	OK	2530.28	138.173	77.1352	199.181	OK	0.5654	-0.2269	0.166012	1.479798	-1.17032	1.121953
RSc1371	***alr***	alanine racemase	6660.61	444.045	189.435	697.049	OK	5561.38	372.225	162.03	581.55	OK	5181.79	330.728	181.076	479.472	OK	4859.3	316.825	172.234	460.942	OK	-0.25453	-0.42506	-0.48702	-1.19295	-1.34263	-1.40155
RSc1372	***radA***	DNA repair protein RadA	3189.34	169.889	76.7081	263.241	OK	4194.26	224.123	100.289	347.887	OK	2747.62	140.956	79.7505	201.763	OK	2748.77	143.446	80.3992	206.258	OK	0.399698	-0.26935	-0.24408	1.319232	-1.20526	-1.18434
RSc1373	***dsbB***	disulfide bond formation protein B	1047.57	212.092	77.147	318.785	OK	1291.68	264.657	93.6498	394.322	OK	1442.72	263.838	123.754	397.734	OK	1055.27	205.39	91.1943	284.304	OK	0.319434	0.314962	-0.04632	1.247841	1.243979	-1.03263
RSc1374		hypothetical protein	604.404	108.111	32.9407	182.716	OK	817.877	147.853	42.8106	252.052	OK	620.214	101.189	45.5188	155.908	OK	619.198	106.778	45.3971	155.908	OK	0.45165	-0.09546	-0.0179	1.367604	-1.06841	-1.01248
RSc1375		putative racemase transmembrane protein	416.795	28.4041	2.38521	55.2687	OK	586.958	40.1618	2.80537	79.2346	OK	359.013	23.4078	7.10686	39.7723	OK	350.849	23.3791	6.73022	40.0481	OK	0.499725	-0.27911	-0.28088	1.413944	-1.21345	-1.21494
RSc1376		ABC transporter ATP-binding protein	1297.03	44.6924	19.5962	69.7281	OK	1645.87	56.8279	25.0818	88.6267	OK	1091.49	36.5275	21.0834	51.9264	OK	1002.68	33.9308	19.5193	48.3916	OK	0.34657	-0.29105	-0.39743	1.271534	-1.22353	-1.31716
RSc1377		hypothetical protein	1038.44	79.8996	35.5849	123.967	OK	839.037	64.8514	29.3318	100.373	OK	1105.94	81.0961	44.7074	117.142	OK	1804.11	135.576	73.2617	197.336	OK	-0.30105	0.021444	0.762842	-1.23204	1.014975	1.69683
RSc1378		L-asparaginase precursor protein	671.334	53.9754	24.6101	83.2598	OK	577.758	46.6731	21.6676	71.2223	OK	682.458	52.2127	29.2918	74.9449	OK	784.197	61.5522	34.0419	88.0734	OK	-0.20971	-0.0479	0.189508	-1.15646	-1.03376	1.140375
RSc1379		ABC transporter ATP-binding protein	1507.97	56.3962	24.9537	87.8848	OK	1185.88	44.4484	19.6211	69.255	OK	1718.37	62.3334	35.4415	88.7554	OK	1588.34	58.3153	33.0135	83.596	OK	-0.34347	0.144407	0.048276	-1.2688	1.105277	1.034029
RSc1380		substate-binding periplasmic (PBP) ABC transporter protein	4180.12	193.393	86.5311	300.206	OK	2514.35	116.644	52.9215	180.314	OK	7877.16	352.081	194.928	508.662	OK	4221.06	191.494	106.581	274.731	OK	-0.72942	0.864372	-0.01424	-1.65798	1.820547	-1.00992
RSc1381		transmembrane ABC transporter protein	800.125	67.6226	30.1793	105.035	OK	436.078	37.0398	17.5639	56.4554	OK	1028.13	82.5356	45.2422	119.844	OK	668.154	55.0987	30.3219	79.277	OK	-0.86843	0.287511	-0.29549	-1.82567	1.220533	-1.2273
RSc1382		transmembrane ABC transporter protein	422.88	36.902	17.6029	56.2435	OK	261.279	22.918	11.0913	34.4903	OK	722.472	59.8118	33.46	86.1912	OK	471.425	40.1256	22.0949	58.0255	OK	-0.68722	0.696731	0.120824	-1.61018	1.620828	1.087356
RSc1383		D-aminopeptidase protein	311.329	23.2057	11.4867	34.8996	OK	167.439	12.5356	6.2769	18.7679	OK	266.759	18.9697	11.1459	26.7501	OK	184.037	13.4021	7.7402	19.0099	OK	-0.88845	-0.29078	-0.79202	-1.85118	-1.2233	-1.7315
RSc1384		hypothetical protein	326.54	32.1549	15.311	48.7743	OK	235.519	23.3274	11.1281	35.4363	OK	429.037	39.8848	22.4229	56.213	OK	212.141	20.3463	11.2115	29.4301	OK	-0.46301	0.3108	-0.66027	-1.37842	1.240396	-1.58038
RSc1385		chitin-binding protein	1011.06	304.717	95.3135	393.962	OK	1200.6	368.103	111.972	468.667	OK	1593.88	417.732	175.855	561.958	OK	1601.94	459.43	177.041	564.669	OK	0.27264	0.455108	0.592375	1.208016	1.370885	1.507727
RSc1386	***hlk1***	Type III effector protein	352.907	10.6402	5.38076	15.9181	OK	697.357	21.0629	9.69658	32.3686	OK	624.66	18.3271	10.8927	25.7389	OK	539.419	15.9811	9.59333	22.366	OK	0.985179	0.784453	0.586841	1.979559	1.722439	1.501955
RSc1387	***folE***	GTP cyclohydrolase I	4656.75	640.801	256.479	1023.87	OK	3345.11	464.076	186.354	741.736	OK	4052.51	517.613	263.908	764.9	OK	3877.47	517.074	252.715	760.463	OK	-0.46552	-0.308	-0.30951	-1.38081	-1.23799	-1.23928
RSc1388		N5-glutamine S-adenosyl-L-methionine-dependen	1896.37	162.187	67.1459	256.9	OK	2138.99	183.865	76.155	290.684	OK	2109.62	171.302	93.1102	248.919	OK	1989.05	165.964	88.111	243.434	OK	0.180989	0.078884	0.033212	1.133661	1.056201	1.023288
RSc1389		hypothetical protein	289.019	52.1316	0	142.857	OK	377.199	68.767	0	181.763	OK	356.79	58.6626	1.64418	128.082	OK	328.184	57.0586	0.869308	124.833	OK	0.399558	0.170283	0.130286	1.319104	1.125279	1.094511
RSc1390	***dapE***	succinyl-diaminopimelate desuccinylase	1727.01	111.332	48.9803	173.677	OK	2897.07	187.472	84.3148	290.22	OK	3210	198.304	110.373	286.029	OK	2936.43	185.183	101.837	268.026	OK	0.751807	0.832845	0.734083	1.6839	1.781195	1.66334
RSc1391		hypothetical protein	244.398	80.3261	26.5181	94.7073	OK	441.598	147.842	46.9027	170.834	OK	327.891	92.8249	39.863	114.606	OK	318.212	99.3018	38.7952	104.64	OK	0.880115	0.208643	0.305951	1.840523	1.155601	1.236233
RSc1392		putative transmembrane protein	551.67	140.799	49.3119	198.803	OK	1098.48	284.547	93.4903	387.65	OK	633.552	143.035	64.7593	195.352	OK	734.335	179.126	74.4271	226.657	OK	1.01503	0.022731	0.347338	2.020945	1.015881	1.272211
RSc1393	***dapD***	2,3,4,5-tetrahydropyridine-2-carboxylate N- succinyltransferase	4422.49	427.643	181.614	672.633	OK	7750.97	753.796	303.494	1197.1	OK	8708.56	795.609	416.715	1170.19	OK	6146.65	579.03	299.013	858.521	OK	0.817767	0.895653	0.437231	1.762676	1.860451	1.354003
RSc1394	***dapC***	hypothetical protein	3257.29	192.098	85.7139	298.227	OK	5033.3	297.874	131.216	464.416	OK	2776.51	157.3	88.5085	225.856	OK	2521.22	145.56	80.8077	210.252	OK	0.63286	-0.28832	-0.40023	1.550636	-1.22122	-1.31972
RSc1395		hypothetical protein	273.807	23.2323	11.2579	35.1024	OK	249.319	21.2609	10.4188	32.0956	OK	203.404	16.3908	9.51939	23.1087	OK	173.158	14.3351	8.13977	20.2804	OK	-0.12793	-0.50325	-0.69658	-1.09272	-1.4174	-1.62066
RSc1396		Epoxide hydrolase Alpha/beta hydrolase	451.275	32.0776	15.4972	48.6625	OK	388.239	27.713	13.5676	41.8486	OK	389.023	26.422	15.3475	37.2386	OK	314.585	21.8567	12.7301	30.9925	OK	-0.211	-0.27983	-0.55349	-1.15749	-1.21405	-1.46763
RSc1397	***zipA***	ZipA, C-terminal FtsZ-binding region	2604.21	157.477	70.6994	243.747	OK	3037.83	184.355	83.1387	285.894	OK	3214.44	186.603	104.022	268.262	OK	2654.48	157.109	87.4012	226.788	OK	0.227345	0.244831	-0.00338	1.170679	1.184954	-1.00234
RSc1398	***ligA***	putative DNA ligase (polydeoxyribonucleotide synthase [NAD+]) protein	2626.52	74.1886	28.4029	119.915	OK	3841.91	108.699	41.6418	175.745	OK	3401.17	93.5662	48.8064	138.354	OK	3345.3	92.8732	49.4048	136.299	OK	0.551069	0.33479	0.324065	1.465171	1.261194	1.251853
RSc1399	***def***	peptide deformylase	677.419	117.266	0.865536	282.511	OK	804.077	140.625	0.524671	363.597	OK	886.973	140.385	4.90649	280.619	OK	781.477	130.511	6.34623	267.043	OK	0.262068	0.259604	0.154387	1.199197	1.19715	1.112948
RSc1400		putative transmembrane protein	563.84	37.5897	17.813	57.3214	OK	765.437	51.231	23.4082	79.0168	OK	493.504	31.4979	18.3611	44.4946	OK	581.122	37.889	21.5715	53.0556	OK	0.44668	-0.25508	0.011442	1.3629	-1.1934	1.007962
RSc1401		Pseudouridine synthase	3591.94	133.405	59.6796	206.892	OK	5386.58	200.497	86.8191	313.309	OK	5420.76	195.298	109.639	280.966	OK	5433.17	198.103	110.745	285.189	OK	0.587768	0.549864	0.570438	1.50292	1.463948	1.484974
RSc1402	***glnD***	PII uridylyl-transferase	3477.35	92.3862	40.4685	144.242	OK	5505.26	146.493	62.4585	229.762	OK	3985.82	103.214	58.4216	147.97	OK	4305.38	112.451	63.2614	161.556	OK	0.665082	0.159889	0.283547	1.585659	1.117201	1.217184
RSc1403	***map***	methionine aminopeptidase	5199.29	502.758	211.014	793.734	OK	6395.82	622.004	254.493	985.071	OK	6610.06	603.891	318.425	881.309	OK	5460.37	514.38	266.633	761.919	OK	0.30706	0.264424	0.03297	1.237184	1.201156	1.023116
RSc1404	***rpsB***	30S ribosomal protein S2	13911.4	1539.35	574.848	2503.59	OK	19881.1	2214.36	787.787	3632.25	OK	29632.5	3079.14	1424.17	4729.69	OK	17362.9	1868.34	898.152	2831.77	OK	0.524568	1.000206	0.279436	1.438503	2.000286	1.21372
RSc1405	***tsf***	elongation factor Ts	11444.1	1019.37	397.03	1635.64	OK	18546.2	1660.71	608.644	2713.14	OK	23823.8	2011.64	980.253	3026.33	OK	20377.3	1770	861.158	2666.32	OK	0.704122	0.980694	0.796072	1.629153	1.973415	1.736367
RSc1406	***pyrH***	uridylate kinase	2093.1	245.531	101.991	386.044	OK	2053.43	242.555	100.27	383.96	OK	1474.95	162.008	84.7981	238.847	OK	1973.64	224.946	114.911	331.597	OK	-0.01759	-0.59984	-0.12633	-1.01227	-1.51555	-1.09151
RSc1407	***frr***	ribosome recycling factor	7510.43	1212.18	447.478	1975.77	OK	6439.06	1049.24	388.702	1685.1	OK	8068.34	1196.52	580.844	1801.76	OK	7052.33	1099.73	511.99	1568.13	OK	-0.20826	-0.01876	-0.14045	-1.15529	-1.01309	-1.10225
RSc1408	***uppS***	undecaprenyl pyrophosphate synthetase protein	7125.07	746.109	300.704	1187.07	OK	4137.22	435.925	183.174	688.684	OK	3723.51	367.1	195.255	538.506	OK	3855.71	392.932	203.759	576.036	OK	-0.77531	-1.02321	-0.92511	-1.71155	-2.03244	-1.89882
RSc1409	***cdsA***	phosphatidate cytidylyltransferase transmembrane protein	4842.33	476.832	200.701	749.687	OK	2488.59	246.486	105.835	384.985	OK	2697.6	250.778	134.615	365.852	OK	2461.38	236.069	124.961	346.465	OK	-0.95198	-0.92707	-1.01427	-1.93452	-1.90141	-2.01988
RSc1410	***dxr***	1-deoxy-D-xylulose 5-phosphate reductoisomerase	3782.59	238.825	106.627	370.932	OK	2714.91	172.054	76.5511	267.248	OK	1924	116.48	64.9828	167.483	OK	2350.78	145.222	80.3551	210.106	OK	-0.47309	-1.03587	-0.71769	-1.38808	-2.05035	-1.64455
RSc1411		hypothetical protein	4156.8	218.175	97.6447	338.511	OK	3989.11	210.023	94.0282	325.76	OK	4528.23	228.976	127.978	329.413	OK	4038.84	207.699	115.628	299.134	OK	-0.05494	0.069711	-0.07099	-1.03881	1.049506	-1.05044
RSc1412		putative outer membrane signal peptide protein	20304.3	612.179	173.165	1051.46	OK	29788.6	899.73	252.812	1545.6	OK	24487.3	718.444	297.255	1139.62	OK	21399.1	633.98	285.09	982.97	OK	0.555539	0.230922	0.050484	1.469717	1.173585	1.035612
RSc1413		hypothetical protein	3911.38	640.928	0.163862	1861.8	OK	5154.74	852.903	0	2615.09	OK	6604.5	993.351	33.8411	2240.43	OK	5107.7	808.392	10.9206	1815.03	OK	0.412219	0.632141	0.334893	1.330731	1.549864	1.261284
RSc1414	***lpxD***	UDP-3-O-[3-hydroxymyristoyl] glucosamine N- acyltransferase	3392.16	240.327	23.6317	457.121	OK	5436.26	386.762	46.9027	726.33	OK	4482.66	303.484	85.48	521.659	OK	5000.73	346.304	93.0136	599.843	OK	0.686447	0.336622	0.52704	1.609316	1.262796	1.44097
RSc1415	***fabZ***	(3R)-hydroxymyristoyl-ACP dehydratase	1735.13	335.501	11.9695	659.102	OK	2619.23	512.268	8.06639	1014.41	OK	2620.9	459.461	78.4198	838.874	OK	3149.48	586.064	108.838	1058.6	OK	0.610582	0.453625	0.804741	1.526875	1.369477	1.746832
RSc1416	***lpxA***	UDP-N-acetylglucosamine acyltransferase	2916.55	287.197	30.8588	542.594	OK	4566.86	452.332	34.8049	869.65	OK	4163.66	387.069	100.903	671.831	OK	4155.79	398.578	92.0274	703.597	OK	0.655341	0.43055	0.472821	1.574989	1.347747	1.387821
RSc1417	***lpxB***	lipid-A-disaccharide synthase	1782.79	113.563	0.1274	299.071	OK	2405.79	153.826	0.12788	420.278	OK	2026.25	123.732	1.893	285.842	OK	2454.13	152.945	3.05376	347.879	OK	0.437807	0.123726	0.42952	1.354543	1.089545	1.346785
RSc1418	***rnhB***	ribonuclease HII	516.177	60.55	27.0828	93.5671	OK	676.198	79.8736	34.4197	125.269	OK	604.653	66.4149	36.0102	96.4143	OK	550.298	62.7204	32.9721	92.2146	OK	0.399592	0.13338	0.050808	1.319135	1.09686	1.035845
RSc1419		putative tRNA/rRNA methyltransferase protein	489.81	51.042	23.366	78.5197	OK	832.597	87.2994	38.0626	136.233	OK	607.988	59.6636	32.7432	86.012	OK	701.697	71.1668	37.7117	104.501	OK	0.774287	0.225166	0.47952	1.710344	1.168912	1.394279
RSc1420		hypothetical protein	2108.31	200.26	86.328	314.261	OK	3442.63	328.843	141.529	513.445	OK	2106.28	189.164	102.029	276.211	OK	2372.54	219.592	116.626	322.272	OK	0.715525	-0.08224	0.132951	1.64208	-1.05866	1.096535
RSc1421	***ppsA***	phosphoenolpyruvate synthase	43033.3	1245.01	413.186	2076.45	OK	32753.7	949.223	319.686	1577.23	OK	57337.6	1615.12	622.705	2589.55	OK	33829.3	961.874	437.165	1486.58	OK	-0.39134	0.375484	-0.37224	-1.31161	1.297275	-1.29436
RSc1422		hypothetical protein	557.755	134.407	48.3383	184.346	OK	342.239	83.6411	30.7744	116.792	OK	384.577	82.431	38.6521	112.402	OK	274.696	63.3607	27.8414	79.3775	OK	-0.68432	-0.70535	-1.08495	-1.60695	-1.63054	-2.1213
RSc1423		putative transmembrane protein	3908.34	329.019	144.016	514.027	OK	2706.63	228.991	99.5541	358.061	OK	5057.3	404.453	218.146	589.877	OK	3499.42	287.457	153.175	421.625	OK	-0.52288	0.297801	-0.19482	-1.43682	1.229269	-1.14459
RSc1424	***smpB***	SsrA-binding protein	1200.69	271.153	93.9361	393.177	OK	1279.72	292.854	99.6991	419.399	OK	913.649	184.621	85.4194	266.918	OK	679.939	147.218	64.1001	195.854	OK	0.111074	-0.55454	-0.88115	1.080032	-1.4687	-1.84185
RSc1425		hypothetical protein	657.137	153.219	46.6098	259.515	OK	620.998	146.783	43.2281	248.341	OK	555.747	115.61	50.7673	165.066	OK	430.628	96.1869	38.5831	153.027	OK	-0.06191	-0.40633	-0.67168	-1.04385	-1.32531	-1.59293
RSc1426		hypothetical protein	334.653	109.99	3.28669	224.81	OK	363.399	121.662	4.35226	242.052	OK	225.633	63.8761	14.721	113.239	OK	213.954	66.767	19.0358	114.527	OK	0.145506	-0.78402	-0.72017	1.106119	-1.72193	-1.64737
RSc1427		hypothetical protein	1218.95	218.037	81.5499	341.868	OK	2367.15	427.925	159.522	656.347	OK	1380.48	225.226	109.05	323.378	OK	955.542	164.779	76.3109	239.643	OK	0.972785	0.0468	-0.40404	1.962626	1.032971	-1.32321
RSc1428		hypothetical protein	312.343	25.7885	12.6478	38.9687	OK	286.119	23.7389	11.5539	35.9606	OK	210.073	16.489	9.57695	23.3354	OK	258.377	20.8204	11.87	29.6751	OK	-0.11947	-0.64522	-0.30873	-1.08634	-1.56398	-1.23862
RSc1429	***guaB***	inositol-5-monophosphate dehydrogenase	7560.12	373.945	157.439	590.386	OK	11462.2	568.614	226.987	909.092	OK	15526.5	740.889	390.65	1089.54	OK	9095.78	440.982	239.936	640.784	OK	0.604624	0.986431	0.237894	1.520582	1.981278	1.17927
RSc1430		hypothetical protein	1118.55	172.743	0	355.818	OK	1353.32	210.919	0	461.151	OK	1254.88	178.593	19.0924	337.409	OK	1188.53	177.496	6.36413	348.711	OK	0.288062	0.048048	0.039159	1.220999	1.033865	1.027515
RSc1431	***guaA***	bifunctional GMP synthase/glutamine amidotransferase protein	6848.22	297.591	91.6037	503.734	OK	10331.6	450.114	129.829	770.524	OK	7634.86	320.93	157.42	484.704	OK	9967.01	424.861	206.484	643.153	OK	0.59696	0.108928	0.51366	1.512526	1.078426	1.427668
RSc1432		hypothetical protein	804.181	880.801	104.575	821.573	OK	913.557	1039.98	121.135	911.427	OK	898.088	719.57	156.711	703.688	OK	821.367	839.915	142.492	656.191	OK	0.239668	-0.29168	-0.06857	1.180721	-1.22407	-1.04868
RSc1433		hypothetical protein	695.673	409.816	42.4148	781.728	OK	654.118	396.288	26.6568	779.106	OK	650.224	306.582	99.487	513.466	OK	663.621	366.713	125.439	608.406	OK	-0.04843	-0.4187	-0.16032	-1.03414	-1.33673	-1.11754
RSc1440	***pcaQ***	transcriptional regulatory DNA-binding transcription regulato	1070.89	86.4234	37.8356	134.974	OK	848.237	68.782	30.8588	106.664	OK	994.788	76.3841	42.0897	110.254	OK	871.229	68.6378	37.5233	99.7314	OK	-0.32939	-0.17815	-0.33242	-1.25648	-1.13143	-1.25912
RSc1441	***pcaH***	protocatechuate 3,4-dioxygenase subunit beta oxidoreductase	1204.75	134.001	56.3183	211.02	OK	863.877	96.7205	41.5434	151.833	OK	1151.51	120.245	63.6173	176.62	OK	1632.76	176.591	91.2249	261.157	OK	-0.47035	-0.15627	0.398168	-1.38545	-1.1144	1.317833
RSc1442	***pcaG***	protocatechuate 3,4-dioxygenase alpha chain oxidoreductase	972.522	128.079	52.9255	202.502	OK	666.078	88.4074	37.1963	138.695	OK	714.691	87.5872	45.9653	127.649	OK	922.904	117.877	59.4024	166.685	OK	-0.53479	-0.54824	-0.11975	-1.44874	-1.4623	-1.08655
RSc1443		putative ligase protein	1306.16	193.371	75.9435	310.139	OK	782.917	116.928	47.249	185.975	OK	521.291	71.314	37.1399	103.97	OK	549.391	78.7157	39.2683	117.06	OK	-0.72575	-1.43911	-1.29665	-1.65376	-2.71154	-2.45657
RSc1444		hypothetical protein	1200.69	136.376	57.0686	215.377	OK	1118.72	127.921	53.4466	201.242	OK	1131.5	120.533	63.9673	176.477	OK	765.158	84.4812	43.9231	122.357	OK	-0.09234	-0.17816	-0.69089	-1.0661	-1.13144	-1.61428

RSc1445		hypothetical protein	402.598	24.9064	1.01714	48.8227	OK	450.798	27.9904	0.856538	56.4245	OK	245.64	14.5795	3.06304	26.0886	OK	384.392	23.2711	6.44294	40.1363	OK	0.168416	-0.77258	-0.09798	1.123824	-1.70832	-1.07027
RSc1446	***hipA***	putative HIPA transcription regulator protei	1070.89	58.6446	17.3597	99.8868	OK	1474.75	81.0228	25.0526	137.13	OK	882.527	46.5142	24.0865	69.2553	OK	1028.07	55.1452	26.7662	83.356	OK	0.46633	-0.33433	-0.08876	1.38159	-1.26079	-1.06346
RSc1447		putative transcription regulator protei	311.329	204.071	47.2274	170.978	OK	489.438	330.542	72.2301	266.191	OK	293.435	151.689	50.0778	134.537	OK	153.213	94.0739	25.9109	71.7533	OK	0.695762	-0.42795	-1.1172	1.61974	-1.34532	-2.16926
RSc1448		hypothetical protein	1359.91	129.172	54.9708	202.25	OK	1579.63	150.888	64.0176	236.827	OK	1238.21	111.203	60.0525	162.157	OK	1331.77	123.263	64.893	181.368	OK	0.224185	-0.2161	-0.06755	1.168117	-1.16159	-1.04794
RSc1449		hypothetical protein	675.391	91.185	38.3987	143.315	OK	815.117	110.933	45.8567	174.759	OK	409.03	51.3155	27.4409	74.667	OK	456.919	59.8021	30.523	84.8082	OK	0.28282	-0.8294	-0.6086	1.216571	-1.77695	-1.52478
RSc1450		putative 6-pyruvoyl tetrahydrobiopterin synthase protei	769.702	157.316	58.3254	232.492	OK	1118.72	231.422	82.3577	342.797	OK	1084.82	200.115	94.4317	298.212	OK	920.185	180.759	80.7131	251.995	OK	0.556861	0.347164	0.200402	1.471065	1.272058	1.149019
RSc1451		putative hydrolase protein	312.343	51.5747	9.80015	93.2181	OK	536.358	89.4348	16.2169	162.636	OK	327.891	49.6692	18.0697	81.3711	OK	359.915	57.3923	16.4584	98.2898	OK	0.794173	-0.05431	0.154194	1.734083	-1.03836	1.112799
RSc1452	***ldcA***	L,D-carboxypeptidase A	637.869	53.6981	14.227	93.1913	OK	1076.4	91.0669	23.689	158.801	OK	564.639	45.1565	21.0332	69.2575	OK	1001.78	82.2903	40.1685	124.449	OK	0.762056	-0.24994	0.615851	1.695905	-1.18916	1.532462
RSc1453		ABC transporter ATP-binding protein	2983.48	131.512	59.56	203.321	OK	6191.58	273.635	117.057	430.213	OK	4599.37	196.058	110.348	281.175	OK	4022.52	173.918	97.5873	250.094	OK	1.057058	0.576086	0.403213	2.080685	1.490799	1.32245
RSc1454		putative signal peptide protein	442.148	206.876	56.378	219.44	OK	143.519	68.7893	18.8649	64.6178	OK	405.696	156.654	58.8256	172.84	OK	249.311	109.857	36.3649	103.533	OK	-1.58851	-0.40118	-0.91314	-3.00739	-1.32059	-1.88314
RSc1455		hypothetical protein	1358.89	222.671	84.9397	359.485	OK	1094.8	181.145	69.5067	288.122	OK	1587.21	238.725	118.363	351.084	OK	1440.56	227.997	106.916	343.414	OK	-0.29777	0.100436	0.034101	-1.22924	1.072097	1.023919
RSc1456	***betB***	putative betaine aldehyde dehydrogenase (BADH) oxidoreductase protein	4449.87	224.765	99.8507	349.657	OK	2730.55	138.333	61.7568	214.132	OK	4923.92	239.822	133.695	345.688	OK	3287.28	162.727	90.8542	234.143	OK	-0.70027	0.093547	-0.46596	-1.62481	1.06699	-1.38124
RSc1457		hypothetical protein	515.163	281.799	70.0011	263.904	OK	457.238	256.896	62.5343	229.137	OK	861.408	380.951	130.516	407.201	OK	519.474	266.855	80.3352	238.934	OK	-0.13348	0.434939	-0.07861	-1.09694	1.351854	-1.056
RSc1458		hypothetical protein	1549.54	58.7702	26.0028	91.4771	OK	972.436	36.9647	16.6196	57.3377	OK	1322.68	48.6464	27.7695	69.4407	OK	1201.23	44.7229	25.4126	63.9756	OK	-0.66894	-0.27275	-0.39407	-1.5899	-1.20811	-1.3141
RSc1459		hypothetical protein	2739.08	163.332	72.6456	253.974	OK	2729.63	163.343	72.5419	253.767	OK	2576.44	147.544	82.9185	212.181	OK	2527.56	147.536	81.8442	212.846	OK	9.72E-05	-0.14666	-0.14674	1.000067	-1.10701	-1.10707
RSc1460		methyl-accepting chemotaxis transducer transmembrane protei	459.387	21.4383	10.6082	32.2005	OK	3910.91	183.014	82.318	283.874	OK	615.768	27.7569	16.2743	39.1407	OK	893.894	40.9031	23.3196	58.3403	OK	3.093692	0.372656	0.93202	8.536778	1.294734	1.907945
RSc1461		putative transporter transmembrane protein	248.455	28.5215	13.2721	43.4684	OK	635.718	73.4748	32.0669	114.283	OK	230.079	24.7582	13.7959	35.5004	OK	259.284	28.9292	15.6413	42.1787	OK	1.3652	-0.20414	0.020477	2.57612	-1.152	1.014294
RSc1462		putative fatty acyl CoA reductase	607.446	41.5285	19.6003	63.4093	OK	876.757	60.1828	27.2421	93.1598	OK	718.026	46.9602	26.5866	67.157	OK	657.275	43.9363	24.6875	63.0137	OK	0.535249	0.177337	0.081312	1.449193	1.130795	1.057979
RSc1463		hypothetical protein	979.621	72.5151	32.5125	112.265	OK	482.078	35.8416	17.0363	54.5411	OK	520.18	36.7442	21.1772	52.2658	OK	853.097	61.7005	33.982	89.1412	OK	-1.01665	-0.98076	-0.233	-2.02321	-1.97351	-1.17528
RSc1464	***coxG***	Carbon monoxide dehydrogenase subunit G	356.963	47.8927	17.1535	78.3445	OK	196.879	26.6253	10.6332	42.4324	OK	208.961	26.0611	13.5574	38.495	OK	222.114	28.8919	14.349	42.6513	OK	-0.84701	-0.87791	-0.72914	-1.79877	-1.83771	-1.65765
RSc1465	***coxE***	carbon monoxide dehydrogenase subunit E	223.102	13.4154	1.50328	25.3754	OK	88.3197	5.32967	0.543107	10.2587	OK	72.2472	4.17118	0.923757	7.39006	OK	74.34	4.37546	0.941719	7.82804	OK	-1.33177	-1.68536	-1.61638	-2.51712	-3.21621	-3.06605
RSc1466		ATPase associated with various cellular activities, AAA-5	384.344	33.2687	15.9225	50.682	OK	44.1598	3.84207	1.77707	5.89987	OK	51.1288	4.2	2.24394	6.10072	OK	85.2191	7.19564	3.9269	10.4484	OK	-3.11421	-2.9857	-2.20897	-8.65906	-7.92112	-4.62345
RSc1467		oxidoreductase protein	898.493	89.7105	39.2631	140.054	OK	151.799	15.2463	7.26207	23.2227	OK	132.268	12.4602	7.00658	17.7133	OK	199.449	19.3924	10.7067	27.9476	OK	-2.55682	-2.84795	-2.20979	-5.88408	-7.19976	-4.62606
RSc1468		oxidoreductase protein	4157.81	120.453	52.9249	187.883	OK	768.197	22.2929	10.1799	34.4282	OK	709.134	20.0019	11.8006	28.1564	OK	1281.91	36.4979	21.0174	51.9707	OK	-2.43381	-2.59026	-1.72258	-5.4032	-6.02208	-3.30027
RSc1469		putative dehydrogenase oxidoreductase protein	788.97	138.814	53.9114	215.524	OK	151.799	26.9876	11.2214	38.543	OK	203.404	32.682	16.7252	45.7235	OK	290.107	49.2261	23.9447	64.2535	OK	-2.36278	-2.08658	-1.49566	-5.14362	-4.24741	-2.81993
RSc1470		hypothetical protein	1749.32	3385.28	342.744	1446.66	OK	1540.99	3128.84	301.629	1276.01	OK	3991.38	5160.09	927.131	3009.67	OK	1455.98	2628.14	339.194	1089.73	OK	-0.11365	0.608121	-0.36523	-1.08196	1.524273	-1.28809
RSc1471	***creA***	putative CREA signal peptide protein	1329.49	246.001	90.6665	382.239	OK	1433.35	268.138	97.2329	412.419	OK	1389.37	233.885	112.239	333.354	OK	1324.52	236.098	107.256	342.074	OK	0.124312	-0.07286	-0.05928	1.089987	-1.0518	-1.04194
RSc1472		transcription regulator protein	1310.22	106.137	46.4333	165.545	OK	1493.15	121.536	52.6244	189.906	OK	1493.85	115.122	62.735	166.829	OK	1303.67	103.09	55.6316	150.498	OK	0.195456	0.117236	-0.04202	1.145086	1.084655	-1.02956
RSc1473		putative multidrug resistance-like transmembrane protei	817.365	37.8153	17.5714	57.8946	OK	335.799	15.5782	7.95688	23.2076	OK	413.476	18.4809	11.0792	25.8787	OK	484.117	21.9626	12.9189	30.989	OK	-1.27944	-1.03294	-0.78392	-2.42745	-2.04618	-1.7218
RSc1474		probable Type III effecor chaperone	944.127	173.205	21.2159	324.641	OK	1081	200.478	25.7353	373.476	OK	2190.76	365.881	74.0583	656.493	OK	1104.22	195.187	48.175	341.807	OK	0.210963	1.078894	0.172376	1.157461	2.112416	1.126913
RSc1475	***ripM***	Type III effector protein	2888.16	116.761	35.5761	197.973	OK	3081.99	124.894	37.1199	212.751	OK	8109.47	317.558	143.596	492.071	OK	3496.7	138.722	66.7286	210.659	OK	0.097146	1.443462	0.248638	1.069655	2.719727	1.188085
RSc1476		hypothetical protein	3141.68	68.6786	30.1906	107.148	OK	2291.71	50.1625	21.7364	78.4913	OK	2758.73	58.9051	33.8713	83.8503	OK	2455.94	52.8124	30.3553	75.3058	OK	-0.45325	-0.22147	-0.37898	-1.36912	-1.16592	-1.30043
RSc1477	***bioA***	adenosylmethionine--8-amino-7-oxononanoatetransaminase	859.957	44.4834	10.9852	78.0868	OK	1005.56	52.174	13.2281	90.8571	OK	521.291	25.9874	11.8303	40.187	OK	1072.49	54.3612	24.3831	84.3024	OK	0.230064	-0.77545	0.28931	1.172887	-1.71173	1.222056
RSc1478	***bioF***	8-amino-7-oxononanoate synthase	933.986	55.2335	7.39218	103.195	OK	1098.48	65.1883	9.31706	121.181	OK	476.831	27.0867	10.3954	43.7403	OK	1010.84	58.5198	21.4201	95.8692	OK	0.23907	-1.02796	0.083381	1.180231	-2.03914	1.059498
RSc1479	***bioD***	dithiobiotin synthetase	182.538	22.2642	10.3602	34.0672	OK	256.679	31.534	14.2802	48.1607	OK	95.5886	10.895	5.80071	15.9289	OK	228.46	27.0582	14.3637	39.1318	OK	0.502182	-1.03106	0.28134	1.416355	-2.04352	1.215323
RSc1480		lipoprotein transmembrane	481.698	83.3853	33.8889	125.305	OK	613.638	107.319	42.2104	163.776	OK	562.416	89.0158	44.6149	124.565	OK	514.941	85.9983	41.2836	121.947	OK	0.364041	0.094268	0.044515	1.287025	1.067524	1.031336
RSc1481		hypothetical protein	1992.71	353.498	132.482	552.376	OK	915.397	164.101	62.193	253.311	OK	862.52	139.645	68.4931	192.894	OK	1152.27	197.099	90.7594	288.978	OK	-1.10712	-1.33994	-0.84278	-2.15415	-2.5314	-1.7935
RSc1482		hypothetical protein	193.693	212.147	36.1872	126.349	OK	126.96	144.529	23.6137	80.3479	OK	247.863	198.594	51.1278	145.518	OK	218.487	223.421	45.0772	123.13	OK	-0.55371	-0.09524	0.074701	-1.46785	-1.06824	1.053142
RSc1483		hypothetical protein	406.654	139.968	44.5995	171.921	OK	550.158	193.022	58.4791	225.033	OK	436.817	128.824	54.0384	158.646	OK	374.42	122.218	46.5533	136.009	OK	0.463668	-0.1197	-0.19564	1.379044	-1.08651	-1.14523
RSc1494		putative integrase-like protein	459.387	54.7864	24.6779	84.5836	OK	46.9198	5.63527	2.5687	8.62349	OK	58.9092	6.57284	3.43903	9.59309	OK	69.8071	8.08687	4.16304	11.9461	OK	-3.28126	-3.05923	-2.76016	-9.72205	-8.33527	-6.77473
RSc1495		hypothetical protein	5547.13	208.546	90.6422	326.504	OK	854.677	32.2032	14.7006	49.7004	OK	995.899	36.3125	20.94	51.6724	OK	1175.84	43.3963	24.6672	62.0746	OK	-2.69509	-2.52183	-2.26472	-6.47594	-5.74309	-4.80562
RSc1496		hypothetical protein	1234.16	76.1309	33.5355	117.801	OK	179.399	11.1069	5.60705	16.5008	OK	188.954	11.1836	6.69031	15.6458	OK	232.993	14.0652	8.2707	19.8075	OK	-2.77703	-2.7671	-2.43635	-6.85438	-6.80737	-5.41271
RSc1497		Methyltransferase FkbM	363.048	41.4546	19.1606	63.6913	OK	87.3997	10.0474	4.61274	15.4349	OK	102.258	10.948	5.95062	15.8391	OK	126.922	14.0869	7.43827	20.5646	OK	-2.04471	-1.92086	-1.55718	-4.1259	-3.7865	-2.94278
RSc1498		putative bacteriophage protein	189.637	28.4674	7.5189	49.1453	OK	31.2799	4.73752	0.871756	8.49962	OK	38.9023	5.3916	1.82747	8.92237	OK	42.6095	6.18875	2.14997	10.1049	OK	-2.58711	-2.40053	-2.20159	-6.00892	-5.27995	-4.59986
RSc1499		hypothetical conserved protein	188.623	22.4951	6.05479	38.9892	OK	48.7598	5.85626	1.83479	9.8161	OK	42.2368	4.7126	1.71952	7.69257	OK	38.0766	4.41102	1.44801	7.33057	OK	-1.94156	-2.25502	-2.35043	-3.84121	-4.77339	-5.09975
RSc1500		Aldo/keto reductase	107.495	10.3478	0.096264	22.9108	OK	45.0798	4.36432	0.774505	8.03549	OK	52.2403	4.75214	1.72837	7.82316	OK	58.0215	5.44157	2.06328	8.90961	OK	-1.2455	-1.12267	-0.92723	-2.371	-2.1775	-1.90162
RSc1501	***mel***	Tyrosinase	38710.2	2314.73	808.833	3817.85	OK	1660.59	99.6487	43.8696	155.259	OK	2281.9	131.031	73.7869	188.339	OK	2637.26	154.364	85.7856	222.54	OK	-4.53785	-4.14286	-3.90644	-23.2289	-17.6655	-14.9953
RSc1502		hypothetical protein	28471.9	2350.77	837.076	3860.64	OK	1163.8	96.5585	42.0452	150.816	OK	1344.91	105.564	57.5966	153.096	OK	1533.94	123.607	66.3642	180.681	OK	-4.60559	-4.47694	-4.2493	-24.3456	-22.2687	-19.0181
RSc1503		hypothetical protein	13757.3	595.416	231.531	958.521	OK	2838.19	123.151	55.6971	190.276	OK	1492.74	62.4989	35.3082	89.7143	OK	3884.72	164.929	92.6791	237.108	OK	-2.27347	-3.252	-1.85205	-4.83485	-9.52682	-3.61014
RSc1504		hypothetical protein	18446.5	4038.72	1240.14	6823.82	OK	7529.25	1669.83	552.916	2661.06	OK	8029.44	1577.36	713.337	2201.73	OK	15004	3151.97	1291.25	4252.02	OK	-1.2742	-1.35639	-0.35764	-2.41864	-2.56043	-1.28133
RSc1505		alcohol dehydrogenase-like oxidoreductase protei	2245.22	171.522	75.6792	267.024	OK	629.278	48.2908	22.3641	74.2694	OK	431.26	31.4059	18.0796	44.6934	OK	980.926	73.1956	40.0786	106.202	OK	-1.82857	-2.44929	-1.22856	-3.55186	-5.46146	-2.34334
RSc1506		hypothetical protein	246.426	357.538	49.6424	178.109	OK	57.0398	86.4183	11.4043	39.5798	OK	52.2403	53.068	10.9195	33.4203	OK	73.4335	99.4381	15.8829	48.3105	OK	-2.04869	-2.75218	-1.84623	-4.13729	-6.73736	-3.59558
RSc1507		hypothetical protein	1660.08	339.297	120.701	509.402	OK	231.839	47.9592	18.9018	67.3713	OK	201.181	37.1115	18.247	51.9441	OK	236.619	46.481	21.5768	58.4704	OK	-2.82267	-3.19261	-2.86784	-7.0747	-9.14264	-7.29969
RSc1508		hypothetical protein	4660.8	1296.63	412.625	1719	OK	2138.07	604.413	190.581	789.854	OK	1677.25	409.202	177.016	563.378	OK	4032.49	1069.78	422.251	1369.4	OK	-1.10116	-1.66388	-0.27745	-2.14527	-3.16868	-1.21205
RSc1509		hypothetical protein	1447.12	579.702	148.865	828.385	OK	804.997	329.498	82.658	458.23	OK	725.806	244.677	94.6047	329.929	OK	1338.12	506.506	171.991	625.222	OK	-0.81504	-1.24443	-0.19473	-1.75935	-2.36925	-1.14451
RSc1510		hypothetical protein	356.963	346.459	0	833.723	OK	204.239	205.613	2.01345	491.282	OK	112.261	81.1743	0.723086	177.879	OK	281.042	254.754	4.53233	523.937	OK	-0.75275	-2.09359	-0.44358	-1.68501	-4.26809	-1.35997
RSc1511		hypothetical protein	1872.03	580.28	176.972	739.651	OK	1266.84	399.647	119.552	502.991	OK	1029.24	276.593	115.7	366.555	OK	1504.03	443.32	167.696	539.76	OK	-0.53802	-1.06898	-0.3884	-1.45198	-2.09796	-1.30894
RSc1512		hypothetical protein	5819.92	3109.05	714.182	3317.92	OK	2998.27	1644.47	380.635	1547.93	OK	4333.72	1877.65	637.365	2079.46	OK	6067.78	3045.28	883.75	2930.88	OK	-0.91885	-0.72755	-0.0299	-1.89061	-1.65582	-1.02094
RSc1513	***rnhA***	ribonuclease H	860.971	188.503	67.9317	273.422	OK	1120.56	248.515	86.2917	359.148	OK	908.091	178.392	83.3156	256.634	OK	1035.32	217.495	94.0435	298.431	OK	0.398745	-0.07954	0.206395	1.318361	-1.05668	1.153801
RSc1514		hypothetical protein	1338.61	140.861	58.8262	222.907	OK	1598.03	169.21	70.8078	267.505	OK	1556.09	154.132	81.8359	226.136	OK	1686.25	172.675	89.88	254.291	OK	0.264543	0.129894	0.293787	1.201255	1.094213	1.225854
RSc1515	***gloB***	putative hydroxyacylglutathione hydrolase protei	2042.4	189.8	81.7252	297.977	OK	1375.39	128.519	54.7597	202.242	OK	1426.05	125.413	67.3955	182.718	OK	1280.1	115.947	61.451	170.384	OK	-0.5625	-0.59779	-0.71101	-1.47682	-1.5134	-1.63695
RSc1516		putative membrane-bound lytic murein transglycosylase-like	2400.37	129.469	59.1292	199.9	OK	3387.43	183.29	84.0632	282.348	OK	1996.24	103.665	59.3149	147.866	OK	2796.82	147.775	83.1627	212.381	OK	0.501521	-0.32068	0.190796	1.415706	-1.24892	1.141393
RSc1517		hypothetical protein	58.8178	113.824	0	580.558	OK	84.6397	171.853	0	834.495	OK	60.0207	77.5953	0	281.832	OK	59.8347	108.006	0	444.046	OK	0.59437	-0.55276	-0.07569	1.509813	-1.46689	-1.05387
RSc1518	***prpE***	propionyl-CoA synthetase	1487.68	55.1572	24.2479	86.0036	OK	802.237	29.8088	13.6331	45.9523	OK	823.618	29.6228	17.3298	41.886	OK	904.773	32.9329	19.0026	46.8374	OK	-0.88781	-0.89684	-0.74402	-1.85037	-1.86198	-1.67484
RSc1519	***carA***	carbamoyl phosphate synthase small subunit	3840.4	253.666	113.396	393.883	OK	4217.26	279.647	124.214	434.947	OK	2818.75	178.295	99.3484	256.473	OK	3191.18	206.16	113.15	298.548	OK	0.140677	-0.50866	-0.29917	1.102422	-1.42273	-1.23043
RSc1520		leucine export protein LeuE	882.267	113.41	47.5965	179.118	OK	1167.48	151.217	61.4869	240.799	OK	585.758	70.162	37.4674	101.957	OK	702.604	87.6252	44.4625	126.488	OK	0.415072	-0.69279	-0.37213	1.333366	-1.6164	-1.29426
RSc1521	***carB***	carbamoyl phosphate synthase large subunit	14219.7	296.94	110.827	483.404	OK	19753.2	413.001	146.043	678.115	OK	25431	518.941	249.488	787.96	OK	20185.1	414.69	206.996	622.046	OK	0.475974	0.805399	0.481862	1.390857	1.747629	1.396545
RSc1522	***greA***	transcription elongation factor GreA	1529.26	312.56	111.25	469.979	OK	1943.95	402.134	142.033	593.65	OK	1111.49	205.036	96.5627	305.937	OK	982.739	193.047	85.9075	269.576	OK	0.363543	-0.60826	-0.69518	1.286582	-1.52442	-1.61909
RSc1523		hypothetical protein	1052.64	221.456	79.4004	328.335	OK	1175.76	250.442	87.9321	367.553	OK	718.026	136.007	64.3461	198.197	OK	606.506	122.551	54.9793	165.074	OK	0.177456	-0.70334	-0.85364	1.130888	-1.62827	-1.80705
RSc1524	***yhbY***	putative RNA-binding protei	1789.89	343.004	124.793	525.036	OK	1908.07	369.816	133.587	558.271	OK	1441.61	250.648	119.409	355.675	OK	1435.13	264.726	118.898	381.062	OK	0.108582	-0.45256	-0.37373	1.078168	-1.36847	-1.29569
RSc1525	***rrmJ***	ribosomal RNA large subunit methyltransferase J	1437.99	183.744	74.4576	292.125	OK	1448.99	186.555	75.0378	298.024	OK	1820.63	216.848	113.422	319.47	OK	1144.11	141.852	71.0676	210.15	OK	0.021904	0.238987	-0.37331	1.015298	1.180164	-1.29532
RSc1526	***hflB***	ATP-dependent zinc metallopeptidase	33895.3	1265.44	437.77	2092.67	OK	32947.8	1232.78	427.19	2038.37	OK	41295.4	1495.41	650.5	2340.4	OK	36732.1	1346.27	609.627	2083.85	OK	-0.03772	0.240902	0.089329	-1.02649	1.181731	1.063875
RSc1527	***folP***	7,8-dihydropteroate synthase protein	481.698	43.4475	20.3642	66.4595	OK	721.277	65.4047	29.1863	101.307	OK	496.838	42.46	23.8606	60.7031	OK	588.374	51.7436	28.2846	74.8454	OK	0.590121	-0.03317	0.252107	1.505373	-1.02326	1.190945
RSc1528	***mrsA***	putative phosphoglucosamine mutase (MRSA protein)	6880.67	374.89	160.332	589.767	OK	4656.1	254.503	112.989	395.462	OK	4313.71	226.231	126.023	324.701	OK	3732.41	199.196	110.613	287.736	OK	-0.55878	-0.72867	-0.91228	-1.47303	-1.65711	-1.88202
RSc1529	***pstS1***	phosphate ABC transporter phosphate-binding protein	1878.11	139.025	61.156	215.544	OK	4610.1	342.752	150.643	534.74	OK	5563.03	392.959	213.865	570.676	OK	11072.1	800.795	417.449	1182.6	OK	1.301821	1.499034	2.526089	2.465398	2.826535	5.760079
RSc1530	***pstC***	phosphate transporter permease subunit	296.117	23.719	11.6668	35.8005	OK	447.118	35.9842	17.2003	54.6008	OK	565.751	43.128	24.3998	61.8216	OK	1205.76	94.2915	50.7727	137.849	OK	0.60132	0.862582	1.991085	1.517104	1.818289	3.975357
RSc1531	***pstA***	phosphate transporter permease subunit	178.482	15.8981	3.92955	27.8707	OK	324.759	29.0803	6.54925	51.448	OK	332.337	28.0619	11.2706	44.7952	OK	679.033	58.9816	25.0537	92.8925	OK	0.871188	0.819758	1.891411	1.829168	1.76511	3.709978
RSc1532	***pstB***	phosphate ABC transporter ATP-binding protei	310.315	31.7212	9.91562	53.667	OK	520.718	53.552	13.4724	93.8953	OK	511.288	49.2611	22.5452	75.9215	OK	744.307	74.0694	29.6554	118.522	OK	0.755493	0.635001	1.22343	1.688209	1.552939	2.335013
RSc1533	***phoU***	phosphate transporter PhoU	858.943	101.312	43.2978	159.274	OK	753.477	89.4944	38.3859	140.627	OK	866.966	95.7237	51.0586	140.075	OK	1192.16	136.612	69.454	199.837	OK	-0.17894	-0.08186	0.431279	-1.13205	-1.05838	1.348429
RSc1534	***phoB***	phosphate regulon two-component response regulator transcription regulator protein	1329.49	155.107	64.2206	245.968	OK	1213.48	142.553	58.9891	226.035	OK	1447.17	158.136	82.8402	233.305	OK	1786.88	202.57	103.75	297.726	OK	-0.12177	0.027902	0.385157	-1.08807	1.019528	1.306002
RSc1535	***phoR***	phosphate regulon two-component sensor kinase transcription regulator protein	1435.97	79.0403	34.8597	122.613	OK	1862.99	102.879	45.6415	159.794	OK	1846.19	97.7916	55.137	140.18	OK	2153.14	116.082	64.8671	167.224	OK	0.380288	0.307122	0.554484	1.301602	1.237237	1.468643

RSc1536	***ppk***	polyphosphate kinase	7657.47	240.325	99.2194	381.374	OK	8696.73	273.448	111.349	435.536	OK	9597.76	292.957	160.407	425.581	OK	9739.45	300.31	164.195	436.055	OK	0.18628	0.285702	0.321466	1.137826	1.219003	1.2496
RSc1537	***ppx***	exopolyphosphatase protein	4338.32	196.477	87.4536	305.579	OK	5323.1	241.722	105.79	377.461	OK	3420.07	149.705	84.7088	214.66	OK	4230.13	187.88	104.763	270.13	OK	0.298988	-0.39224	-0.06455	1.230281	-1.31243	-1.04576
RSc1538		hypothetical protein	264.68	25.2526	12.08	38.2405	OK	370.759	35.5735	16.8504	54.1676	OK	200.069	18.0446	10.3229	25.6555	OK	220.3	20.4796	11.3856	29.3748	OK	0.494371	-0.48486	-0.30224	1.408706	-1.39945	-1.23306
RSc1539		hydrolase protein	275.835	56.9176	22.4181	84.3734	OK	169.279	35.3577	13.8584	49.048	OK	283.431	52.7436	26.0024	73.9862	OK	187.663	37.2093	17.2902	48.6539	OK	-0.68685	-0.10988	-0.61321	-1.60977	-1.07914	-1.52966
RSc1540		putative acyltransferase	710.884	43.4771	20.1419	66.7862	OK	734.157	45.063	20.6719	69.4365	OK	500.173	29.3576	17.0986	41.5701	OK	744.307	44.5509	25.0989	63.793	OK	0.051688	-0.56652	0.035199	1.036477	-1.48095	1.024698
RSc1541		hypothetical protein	520.233	50.7625	23.3473	77.8766	OK	430.558	42.2554	19.7434	64.2443	OK	351.232	32.3676	18.3948	45.3687	OK	232.993	22.1455	12.289	31.6885	OK	-0.26463	-0.64921	-1.19675	-1.20133	-1.56831	-2.29223
RSc1542		putative Sulfide:quinone oxidoreductase	1374.11	80.157	35.2527	124.936	OK	943.917	55.2524	24.9261	85.2575	OK	794.719	44.547	25.6937	63.3309	OK	524.007	29.9268	17.2629	42.3544	OK	-0.53679	-0.8475	-1.42139	-1.45074	-1.79938	-2.67844
RSc1543		transcription regulator protein	580.065	182.402	58.5943	225.052	OK	415.838	133.107	43.1099	168.217	OK	389.023	105.887	45.8261	125.327	OK	329.997	98.6366	39.0563	106.06	OK	-0.45454	-0.7846	-0.88693	-1.37034	-1.72261	-1.84923
RSc1544		Beta-lactamase hydrolase-like protein	883.281	81.3787	35.9778	126.633	OK	841.797	77.9802	34.4818	121.098	OK	692.461	60.3967	33.3522	86.9224	OK	666.341	59.8428	32.4668	87.2176	OK	-0.06154	-0.43018	-0.44347	-1.04358	-1.3474	-1.35987
RSc1545		hypothetical protein	845.759	25.1118	11.4104	38.7898	OK	689.077	20.4956	9.39354	31.6065	OK	551.301	15.932	9.59379	22.2674	OK	616.478	17.9873	10.6295	25.2927	OK	-0.29305	-0.65644	-0.48139	-1.22523	-1.57619	-1.39609
RSc1546		Peroxidase / Pyruvate formate lyase - related protein	17077.4	282.435	99.4754	465.431	OK	1955.91	32.3794	13.7979	50.9682	OK	1262.66	20.4462	11.873	29.0403	OK	1563.86	25.4598	14.5515	36.3866	OK	-3.12477	-3.78801	-3.47163	-8.72268	-13.8136	-11.0934
RSc1547		hypothetical protein	3828.23	434.813	181.365	686.414	OK	390.079	44.6041	20.3186	68.6414	OK	316.776	33.7444	18.8242	48.542	OK	379.859	41.9403	22.5716	60.9171	OK	-3.28515	-3.68768	-3.37399	-9.74827	-12.8855	-10.3674
RSc1548		putative transposase-related protein	94.3113	47.0594	12.746	44.7229	OK	72.6797	37.1907	9.83904	35.3311	OK	122.264	49.9285	18.0889	52.943	OK	87.0322	40.8479	12.7946	37.2807	OK	-0.33954	0.085381	-0.20422	-1.26535	1.060968	-1.15206
RSc1555		hypothetical protein	611.502	669.764	107.028	414.926	OK	797.637	908.021	136.162	549.862	OK	621.326	497.822	124.945	379.677	OK	584.748	597.953	117.987	355.777	OK	0.439073	-0.42802	-0.16362	1.355733	-1.34539	-1.12009
RSc1556		oxidoreductase protein	2480.49	127.694	57.7011	197.214	OK	3046.11	157.289	71.4199	243.019	OK	1865.09	92.5427	52.1112	132.863	OK	2386.13	120.369	67.6232	173.149	OK	0.300727	-0.4645	-0.08523	1.231765	-1.37984	-1.06085
RSc1557		hypothetical protein	148.059	41.7255	3.13748	80.2535	OK	150.879	43.2148	5.44931	80.7489	OK	104.481	25.7874	4.56124	46.9156	OK	112.417	30.2006	6.67896	53.4317	OK	0.050596	-0.69426	-0.46635	1.035693	-1.61806	-1.38161
RSc1558	***wrbA***	TRP repressor binding protein	707.842	102.669	35.2458	169.992	OK	541.878	79.2745	27.6499	131.081	OK	585.758	78.6098	42.1394	115.011	OK	444.227	62.3818	33.2814	91.6993	OK	-0.37307	-0.38522	-0.7188	-1.29511	-1.30606	-1.64582
RSc1559	***rbn***	putative ribonuclease BN transmembrane protein	1726	95.4944	42.254	148.763	OK	1989.03	110.407	49.1021	171.639	OK	1806.18	96.1531	54.2845	137.7	OK	2069.74	112.156	62.5734	160.985	OK	0.209344	0.009917	0.232019	1.156162	1.006898	1.174477
RSc1560		putative transmembrane protein	614.545	250.715	70.8816	275.426	OK	552.918	230.555	64.401	246.668	OK	891.419	305.358	117.274	365.407	OK	776.944	299.382	103.089	314.661	OK	-0.12094	0.284453	0.255939	-1.08744	1.217949	1.194113
RSc1561		hydrolase protein	862.999	83.8273	14.0511	153.548	OK	696.437	68.038	11.5531	124.509	OK	481.277	44.1597	15.4786	72.7726	OK	557.55	52.7573	16.0177	89.5603	OK	-0.30108	-0.92469	-0.66805	-1.23207	-1.89828	-1.58892
RSc1562		O-acetylhomoserine O-acetylserine sulphydrylase	1729.04	94.9287	26.1336	164.598	OK	1338.6	73.7309	18.0114	129.605	OK	900.311	47.5699	22.403	72.8096	OK	1367.13	73.5187	34.8468	112.338	OK	-0.36457	-0.9968	-0.36873	-1.2875	-1.99556	-1.29122
RSc1563		hypothetical protein	18286.3	4003.63	1231.67	6761.4	OK	12178.9	2701.02	854.443	4414.72	OK	19210	3773.74	1629.95	5540.62	OK	15426.5	3240.72	1327.2	4370.72	OK	-0.5678	-0.08531	-0.30499	-1.48227	-1.06092	-1.23541
RSc1564		hypothetical protein	4097.98	151.153	67.2025	235.057	OK	4794.1	177.215	77.7672	276.573	OK	4325.94	154.801	87.0063	222.327	OK	3724.25	134.864	76.2512	193.525	OK	0.229491	0.034405	-0.1645	1.172421	1.024134	-1.12078
RSc1565		putative FKBP-type peptidyl-prolyl cis-trans isomerase signal peptide protein	1641.83	400.114	133.791	564.34	OK	2061.71	509.636	169.317	703.573	OK	2192.98	474.853	214.158	679.609	OK	1364.41	318.175	132.432	421.456	OK	0.349056	0.24707	-0.33059	1.273727	1.186794	-1.25753
RSc1566	***aroC***	chorismate synthase	3175.15	217.765	97.9176	337.564	OK	4062.71	279.769	124.415	435.306	OK	3421.18	224.445	124.755	324.005	OK	2832.17	189.92	104.27	274.669	OK	0.361464	0.04359	-0.19738	1.284729	1.030675	-1.14661
RSc1567	***etf***	electron transfer flavoprotein-ubiquinone oxidoreductase	9334.79	393.692	160.602	626.508	OK	10239.6	432.927	175.168	690.07	OK	7139.13	291.416	161.255	421.588	OK	21242.2	878.949	442.464	1314.19	OK	0.137056	-0.43399	1.158712	1.099659	-1.35096	2.23258
RSc1568		short chain dehydrogenase	2256.37	195.311	84.9439	305.443	OK	2164.75	188.342	81.6741	294.496	OK	1934	158.869	86.1113	230.495	OK	2548.41	215.18	114.862	313.31	OK	-0.05242	-0.29794	0.139771	-1.037	-1.22938	1.10173
RSc1569		putative transcription regulator protein	637.869	106.971	42.934	166.428	OK	665.158	112.661	44.3494	174.331	OK	510.176	78.4036	40.0272	110.889	OK	625.544	101.275	48.5214	146.96	OK	0.074768	-0.44823	-0.07894	1.053192	-1.36436	-1.05624
RSc1570	***lpsI***	fesuccinyl-CoA:3-ketoacid-coenzyme A transferase subunit A	5810.79	696.866	280.821	1112.05	OK	3276.11	395.688	162.062	628.532	OK	5330.73	597.93	309.751	885.716	OK	4077.82	474.997	239.675	704.21	OK	-0.81652	-0.2209	-0.55296	-1.76115	-1.16546	-1.4671
RSc1571	***lpsJ***	succinyl-CoA:3-ketoacid-coenzyme A transferase subunit B	6638.3	896.242	348.209	1434.76	OK	3810.63	518.604	208.824	821.491	OK	7689.32	964.676	484.988	1441.74	OK	5338.88	698.759	341.52	1036.69	OK	-0.78926	0.106156	-0.35909	-1.72818	1.076357	-1.28262
RSc1572		3-hydroxybutyrate dehydrogenase	6560.21	683.625	277.667	1084.91	OK	3932.07	412.285	173.47	651.028	OK	6087.66	597.4	312.689	880.809	OK	4591.86	465.711	240.524	683.29	OK	-0.72956	-0.19451	-0.55377	-1.65814	-1.14433	-1.46792
RSc1573		hypothetical protein	2906.41	231.079	90.9697	371.3	OK	2610.03	208.493	81.3626	335.19	OK	3066.61	232.102	118.958	344.718	OK	2627.29	203.95	103.402	304.324	OK	-0.14839	0.006373	-0.18017	-1.10833	1.004427	-1.13302
RSc1575		hypothetical protein	937.028	257.375	3.57073	579.832	OK	907.117	253.136	5.02301	562.298	OK	1065.92	257.094	32.5612	481.906	OK	957.355	250.84	36.6819	465.598	OK	-0.02396	-0.00158	-0.0371	-1.01675	-1.00109	-1.02605
RSc1576	***relA***	GTP pyrophosphokinase	3402.31	105.393	47.1009	163.661	OK	4036.03	125.252	55.3199	194.554	OK	2908.78	87.6491	49.6686	125.646	OK	3357.99	102.202	58.0318	146.369	OK	0.249055	-0.26597	-0.04436	1.188428	-1.20244	-1.03122
RSc1577	***thrS***	threonyl-tRNA synthetase	7204.17	265.724	112.06	419.619	OK	11243.3	415.609	164.952	665.781	OK	5186.23	185.586	103.855	267.379	OK	7543.7	273.176	149.639	396.107	OK	0.645298	-0.51784	0.039902	1.564063	-1.43181	1.028044
RSc1578	***infC***	translation initiation factor protein	7574.31	1300.69	471.195	2086.62	OK	9038.97	1568.06	552.146	2511.76	OK	6806.79	1069.34	516.653	1574.8	OK	7689.66	1274.17	579.119	1793.2	OK	0.269704	-0.28256	-0.02972	1.20556	-1.21635	-1.02081
RSc1579	***rpmI***	50S ribosomal protein L35	1926.79	2528.52	339.569	1417.47	OK	2600.83	3558.11	463.492	1896.9	OK	4856.12	4533.21	999.82	3286	OK	3406.04	4172.01	709.757	2290.35	OK	0.492818	0.84224	0.722449	1.407191	1.792831	1.649981
RSc1580	***rplT***	50S ribosomal protein L20	8580.3	2820.08	794.098	3900.86	OK	10203.7	3416.08	931.92	5364.04	OK	15135.2	4284.73	1666.77	5488.1	OK	10962.4	3420.96	1228.28	3895.71	OK	0.276606	0.603468	0.278665	1.211342	1.519365	1.213072
RSc1581	***pheS***	phenylalanyl-tRNA synthetase subunit alpha	1700.65	125.455	55.2542	194.945	OK	2989.07	221.465	98.4371	343.472	OK	2911	204.943	112.638	296.542	OK	2462.29	177.479	96.7399	256.275	OK	0.819909	0.708053	0.500478	1.765294	1.633598	1.414683
RSc1582	***pheT***	phenylalanyl-tRNA synthetase subunit beta	5228.7	148.471	63.9239	233.222	OK	8759.29	249.141	100.338	398.067	OK	9494.39	262.555	142.828	381.765	OK	7609.88	212.381	117.18	307.618	OK	0.746781	0.822439	0.516474	1.678045	1.768392	1.430454
RSc1583	***ihfA***	integration host factor subunit alpha	1778.73	739.263	196.065	826.173	OK	2006.51	852.605	222.643	926.761	OK	1647.24	573.52	216.612	690.578	OK	1547.54	607.238	202.696	650.241	OK	0.20579	-0.36624	-0.28383	1.153318	-1.28899	-1.21742
RSc1584		putative transcription regulator protein	1742.22	401.871	137.272	578.149	OK	1924.63	449.988	152.167	635.686	OK	1700.59	350.324	160.054	509.117	OK	1649.99	364.703	155.155	493.991	OK	0.163154	-0.19804	-0.14001	1.119732	-1.14714	-1.10191
RSc1585		hypothetical protein	1280.81	106.158	46.0203	166.043	OK	1213.48	101.071	43.8942	157.95	OK	1310.45	103.243	56.2921	149.729	OK	1085.18	87.7796	47.4965	127.537	OK	-0.07084	-0.04017	-0.27426	-1.05033	-1.02823	-1.20937
RSc1586		lipoprotein	1409.6	463.292	137.1	579.068	OK	454.478	152.154	47.985	176.065	OK	405.696	114.851	48.9389	143.791	OK	525.82	164.088	62.6418	186.858	OK	-1.60639	-2.01216	-1.49745	-3.04489	-4.03385	-2.82344
RSc1587	***dinP***	DNA polymerase IV	590.206	41.0028	19.338	62.6269	OK	429.638	29.9706	14.607	45.2995	OK	197.846	13.1424	7.75914	18.4352	OK	262.91	17.8563	10.4428	25.3193	OK	-0.45217	-1.64149	-1.19929	-1.3681	-3.11989	-2.29627
RSc1588		amino-acid transporter transmembrane protein	4882.89	247.803	109.405	385.956	OK	2000.99	101.853	45.7243	157.74	OK	3511.21	171.806	96.5627	247.067	OK	1782.35	88.6442	49.813	127.418	OK	-1.28271	-0.52841	-1.4831	-2.43295	-1.44234	-2.79548
RSc1589		hypothetical protein	752.462	75.4811	33.2418	117.668	OK	484.838	48.9245	22.5083	75.3748	OK	714.691	67.6277	37.0601	97.5099	OK	510.408	49.8559	27.1037	72.4608	OK	-0.62556	-0.1585	-0.59835	-1.54281	-1.11613	-1.51399
RSc1590		hypothetical protein	14945.8	7457.64	1633.73	9965.61	OK	10520.2	5383.24	1187.84	6868.54	OK	15891	6489.34	2167.35	7150.83	OK	12015.9	5639.56	1671.23	5304.89	OK	-0.47024	-0.20065	-0.40314	-1.38534	-1.14921	-1.32238
RSc1591	***hpaI1***	putative 2,4-dihydroxyhept-2-ene-1,7-dioic acid aldolase oxidoreductase protein	2626.52	257.457	111.267	403.627	OK	2641.31	260.411	111.896	406.929	OK	3043.27	281.677	150.335	412.218	OK	1611	153.813	81.1405	226.045	OK	0.016459	0.12971	-0.74315	1.011474	1.094074	-1.67383
RSc1592		transcription regulator protein	683.503	145.217	53.1827	222.01	OK	698.277	150.223	54.5677	215.778	OK	906.98	173.349	81.5664	254.673	OK	514.034	104.866	47.4096	140.043	OK	0.048895	0.255469	-0.46966	1.034473	1.193724	-1.38479
RSc1593	***xthA***	exodeoxyribonuclease III protein	923.845	91.8148	39.9922	143.352	OK	1211.64	121.126	51.4413	190.738	OK	822.506	77.1404	42.276	111.847	OK	923.811	89.4117	47.6095	130.985	OK	0.39971	-0.25124	-0.03826	1.319243	-1.19023	-1.02688
RSc1594	***codA***	cytosine deaminase	1808.14	104.906	46.5793	163.18	OK	1763.63	102.675	45.1617	159.889	OK	1811.74	101.02	56.7889	145.244	OK	1758.78	99.9074	55.4403	144.395	OK	-0.03101	-0.05446	-0.07043	-1.02173	-1.03847	-1.05003
RSc1595	***prlC***	oligopeptidase A	12608.3	414.49	160.684	668.21	OK	19519.6	642.939	233.617	1052.31	OK	39800.4	1271.67	553.573	1990.18	OK	12253.4	395.686	212.072	578.823	OK	0.633345	1.617315	-0.06698	1.551157	3.068035	-1.04752
RSc1596	***folD***	bifunctional: methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate cyclohydrolase	1793.94	163.179	70.2489	256.049	OK	2183.15	199.653	85.868	313.196	OK	2221.88	191.428	103.914	277.494	OK	1368.04	121.317	64.1158	177.45	OK	0.291039	0.230346	-0.42767	1.223521	1.173117	-1.34506
RSc1597		response regulator transcription regulator protein	3661.92	500.696	202.359	796.212	OK	3381.91	466.169	187.302	743.206	OK	3862.44	490.379	249.911	725.746	OK	3234.7	428.659	210.869	629.896	OK	-0.10308	-0.03004	-0.2241	-1.07407	-1.02104	-1.16805
RSc1598		two-component transmembrane sensor histidine kinase transcription regulator protein	3046.36	81.3383	36.0035	126.7	OK	3428.83	91.6946	40.407	142.988	OK	2399.72	62.4468	35.8877	89.0282	OK	3745.11	98.3024	55.5593	140.984	OK	0.172902	-0.38131	0.273292	1.127324	-1.30252	1.208562
RSc1599		hypothetical protein	16.2256	9.8082	2.19549	9.51378	OK	10.12	6.29405	1.21972	6.83041	OK	5.55747	2.67934	0.4813	4.09105	OK	8.15927	4.62491	0.9626	5.2943	OK	-0.64	-1.87211	-1.08456	-1.55833	-3.66068	-2.12073
RSc1600	***aceE***	pyruvate dehydrogenase subunit E1	34744.1	884.756	293.598	1475.12	OK	41871.8	1067.87	353.858	1782.74	OK	42614.7	1058.23	450.718	1665.23	OK	32594.5	816.098	373.304	1259.28	OK	0.271384	0.258302	-0.11654	1.206966	1.19607	-1.08413
RSc1601	***aceF***	dihydrolipoamide acetyltransferase	12783.7	547.76	215.173	880.456	OK	16215.9	696.579	262.594	1130.75	OK	13881.5	575.509	305.219	845.447	OK	13737.5	577.449	307.852	846.745	OK	0.346743	0.071295	0.07615	1.271687	1.050659	1.054201
RSc1602		hypothetical protein	2277.67	354.298	138.641	561.384	OK	3143.63	493.527	193.203	785.781	OK	2923.23	418.846	209.235	626.713	OK	3240.14	487.32	232.177	693.333	OK	0.478166	0.241457	0.459906	1.392971	1.182186	1.375452
RSc1603	***lpdA***	dihydrolipoamide dehydrogenase	10366.1	411.329	165.566	657.503	OK	13567.2	539.609	209.222	870.117	OK	13648	524.74	279.325	767.433	OK	12749.3	496.492	264.59	728.318	OK	0.391622	0.35131	0.271478	1.311867	1.275718	1.207044
RSc1604		hypothetical protein	2637.67	428.942	167.235	682.327	OK	1898.87	311.785	118.646	495.934	OK	1520.52	227.082	112.262	334.964	OK	1553.89	244.108	115.108	368.552	OK	-0.46023	-0.91757	-0.81326	-1.37576	-1.88893	-1.75718
RSc1605		hypothetical protein	60359.2	9254.96	2994.31	15459.3	OK	28371.8	4389.97	1431.87	7280.85	OK	31097.4	4396.2	1917.41	6850.71	OK	31556.4	4679.65	1951.9	7382.76	OK	-1.07602	-1.07397	-0.98383	-2.10821	-2.10522	-1.9777
RSc1606		hypothetical protein	489.81	38.9433	13.45	64.136	OK	639.398	51.0759	15.5702	86.4643	OK	671.343	50.8117	26.0793	75.4928	OK	754.279	58.5529	29.7396	87.1272	OK	0.391268	0.383786	0.588365	1.311545	1.304761	1.503542
RSc1607		hypothetical protein	312.343	26.3977	2.19739	50.9626	OK	499.558	42.4316	3.48247	81.6257	OK	311.219	24.9837	6.3419	43.6708	OK	317.305	26.1663	6.01988	46.5098	OK	0.684727	-0.07943	-0.0127	1.607398	-1.0566	-1.00884
RSc1608		oxidoreductase protein	434.035	51.1941	23.1043	79.1368	OK	621.918	73.8684	32.1095	115.613	OK	445.709	49.2118	26.9202	70.8	OK	509.501	58.3849	30.7787	84.4396	OK	0.52898	-0.05697	0.189618	1.442908	-1.04028	1.140461
RSc1609		putative D-alanyl-D-alanine-endopeptidase (penicillin-binding	6494.3	432.957	185.324	680.207	OK	6343.38	424.564	182.298	666.619	OK	5660.84	361.303	198.311	523.009	OK	5544.68	361.512	195.439	527.121	OK	-0.02824	-0.26101	-0.26018	-1.01977	-1.19832	-1.19763
RSc1610		transcription regulator protein	1736.14	174.974	74.0491	275.373	OK	2051.59	208.002	88.28	327.151	OK	1869.53	177.699	95.0991	259.52	OK	1489.52	146.168	75.9841	215.341	OK	0.249457	0.022295	-0.25951	1.188759	1.015574	-1.19707
RSc1611		hypothetical protein	981.649	112.09	47.7241	176.437	OK	900.677	103.541	44.0872	162.954	OK	306.773	32.844	18.2894	47.2549	OK	899.333	99.8159	51.8054	145.528	OK	-0.11446	-1.77096	-0.16732	-1.08257	-3.4128	-1.12297
RSc1612		putative iron-sulfur binding protein	3134.58	161.754	73.5816	249.885	OK	2627.51	136.001	61.2494	210.559	OK	1159.29	57.6572	33.4329	81.8701	OK	2755.11	139.315	80.4283	198.21	OK	-0.25018	-1.48823	-0.21545	-1.18936	-2.80544	-1.16107
RSc1613		hypothetical protein	90.2549	47.1093	0	229.14	OK	74.5197	39.9189	0	198.202	OK	14.4494	6.1358	0	31.4233	OK	50.7688	24.9052	0	110.376	OK	-0.23894	-2.94069	-0.91956	-1.18013	-7.67778	-1.89154
RSc1614		hypothetical protein	1479.57	614.928	162.945	688.784	OK	1164.72	494.91	129.415	540.968	OK	1151.51	400.922	151.064	481.227	OK	972.767	381.703	128.878	403.98	OK	-0.31325	-0.6171	-0.68797	-1.2425	-1.53378	-1.61101
RSc1615		putative transmembrane protein	232.229	551.585	53.6675	191.67	OK	158.239	395.694	36.4172	128.802	OK	394.581	604.772	101.348	277.573	OK	261.097	577.799	67.3132	183.032	OK	-0.4792	0.132808	0.066984	-1.39397	1.096426	1.047525
RSc1616		arginyl-tRNA-protein transferase	3470.25	365.172	131.548	599.162	OK	2437.99	258.15	93.5229	422.351	OK	2409.72	238.685	111.96	364.363	OK	2976.32	304.781	145.778	462.615	OK	-0.50037	-0.61347	-0.2608	-1.41457	-1.52993	-1.19815
RSc1617	***aat***	leucyl/phenylalanyl-tRNA--protein transferase	1503.91	165.56	3.9631	349.193	OK	1228.2	136.09	7.97798	282.332	OK	1574.99	162.86	49.3236	276.605	OK	1397.96	149.667	29.5488	270.436	OK	-0.28279	-0.02372	-0.1456	-1.21655	-1.01658	-1.10619
RSc1618		hypothetical protein	2760.38	417.293	164.398	667.229	OK	2737.91	417.618	163.083	671.939	OK	4439.31	619.312	308.798	914.293	OK	2697.09	394.44	190.811	562.384	OK	0.001123	0.569606	-0.08125	1.000779	1.484118	-1.05794
RSc1619	***pyrD***	dihydroorotate dehydrogenase 2	1720.93	126.952	55.8764	197.31	OK	1841.83	136.464	60.1076	212.865	OK	1072.59	75.5134	42.0475	108.464	OK	1056.17	76.128	41.495	110.735	OK	0.104237	-0.74948	-0.73778	1.074926	-1.68119	-1.66761
RSc1620		hypothetical protein	739.279	544.935	110.25	437.556	OK	499.558	380.158	76.5921	291.527	OK	967	552.878	166.019	520.541	OK	499.529	344.487	87.3233	261.185	OK	-0.51949	0.020877	-0.66163	-1.43344	1.014576	-1.58187
RSc1621	***kup2***	potassium uptake transmembrane protein	2032.26	75.2178	33.3856	116.951	OK	4086.62	151.585	67.4822	235.663	OK	2912.12	104.561	59.1559	149.977	OK	3972.66	144.353	81.6024	207.029	OK	1.010981	0.475199	0.940455	2.015281	1.39011	1.919134
RSc1622		hypothetical protein	2374.01	446.971	165.858	681.705	OK	1996.39	380.082	138.385	576.414	OK	1250.43	213.897	102.483	320.557	OK	4075.1	738.832	332.28	1079.28	OK	-0.23387	-1.06326	0.725065	-1.17599	-2.08966	1.652975

RSc1623	***tex***	putative transcription accessory protein	3367.83	99.5825	44.3651	154.865	OK	5297.34	156.909	67.8137	246.237	OK	4584.92	131.959	74.5546	189.4	OK	3717.91	108.033	61.0881	155.055	OK	0.655964	0.406126	0.117508	1.575668	1.325122	1.084859
RSc1624		hypothetical protein	2256.37	242.185	102.433	381.927	OK	2619.23	282.923	119.674	443.031	OK	2373.04	239.533	128.314	350.758	OK	1750.62	182.802	95.214	268.3	OK	0.2243	-0.01589	-0.40583	1.16821	-1.01107	-1.32485
RSc1625		hypothetical protein	601.361	718.749	108.913	418.922	OK	424.118	527.63	78.9228	286.963	OK	875.858	755.581	179.072	560.884	OK	655.462	731.301	134.849	414.201	OK	-0.44596	0.072098	0.024977	-1.36222	1.051245	1.017464
RSc1626		ATP-dependent DNA helicase-related protein	3258.3	105.978	46.8425	165.031	OK	4949.58	161.298	69.9632	252.703	OK	2596.45	82.0924	46.9517	117.186	OK	3391.54	108.363	61.5147	155.299	OK	0.605964	-0.36844	0.032107	1.521995	-1.29096	1.022505
RSc1627		hypothetical protein	4635.45	421.646	180.545	660.443	OK	4596.3	420.339	178.99	661.035	OK	3667.93	316.014	170.294	461.517	OK	3795.88	336.618	178.035	494.889	OK	-0.00448	-0.41604	-0.32492	-1.00311	-1.33426	-1.25259
RSc1628	***rluD***	ribosomal large subunit pseudouridine synthase D protei	1569.83	110.489	32.4696	188.539	OK	1415.87	100.069	30.2571	169.703	OK	1433.83	96.456	42.2364	150.541	OK	1545.73	106.347	49.964	162.221	OK	-0.14291	-0.19596	-0.05512	-1.10413	-1.14549	-1.03895
RSc1629		hypothetical protein	1335.57	133.974	16.7521	251.483	OK	1186.8	119.758	14.1273	226.339	OK	1422.71	134.624	52.0438	217.543	OK	1068.86	104.405	32.82	175.919	OK	-0.16183	0.006983	-0.35976	-1.11871	1.004852	-1.28321
RSc1630		hypothetical protein	466.486	227.734	60.4174	222.194	OK	436.998	218.7	56.6552	207.809	OK	361.236	144.74	53.7071	144.966	OK	320.931	147.43	47.8124	137.324	OK	-0.0584	-0.65389	-0.62732	-1.04131	-1.5734	-1.54469
RSc1631	***phbC***	poly-beta-hydroxybutyrate polymerase transmembrane protei	17153.5	675.657	253.554	1095.18	OK	14186.3	560.084	216.39	904.266	OK	14855.1	567.032	297.754	835.103	OK	19100	738.371	379.316	1097.5	OK	-0.27065	-0.25286	0.128055	-1.20635	-1.19157	1.092819
RSc1632	***phbA***	acetyl-CoA acetyltransferase	24771.4	1564.01	571.218	2556.7	OK	17823.1	1129.52	426.725	1823.39	OK	19674.6	1191.11	606.184	1773.13	OK	18450.8	1139.82	579.524	1696.49	OK	-0.46954	-0.39294	-0.45644	-1.38467	-1.31307	-1.37216
RSc1633	***phbB***	acetyacetyl-CoA reductase	27262.1	3032.27	1053.45	5001.38	OK	14578.3	1632.2	603.075	2657.74	OK	22739	2374.48	1136.37	3583.49	OK	15401.1	1665.7	807.563	2513.83	OK	-0.89358	-0.35279	-0.86427	-1.85778	-1.27702	-1.82042
RSc1634		hypothetical protein	11157.1	1828.23	647.143	3009.21	OK	9958.96	1647.81	584.366	2689.99	OK	8267.3	1243.44	602.348	1870.58	OK	9762.12	1545.04	707.433	2218.91	OK	-0.1499	-0.55611	-0.2428	-1.10949	-1.4703	-1.18329
RSc1635		hypothetical protein	449.246	35.3256	16.9373	53.5034	OK	571.318	45.1337	21.0075	69.1277	OK	355.678	26.6345	15.4134	37.7563	OK	427.002	32.7866	18.522	46.4992	OK	0.353491	-0.40742	-0.10761	1.277649	-1.32631	-1.07744
RSc1636		hypothetical protein	2237.1	120.059	53.7148	186.299	OK	3645.95	196.289	88.3268	304.037	OK	1071.48	55.3707	31.4393	79.1113	OK	2522.12	132.599	74.1202	190.595	OK	0.709236	-1.11655	0.143326	1.634938	-2.16828	1.104449
RSc1637	***bktB***	beta-ketothiolase	3650.76	229.825	92.5526	367.004	OK	3207.11	202.648	80.8137	324.396	OK	3694.61	223.037	123.257	322.161	OK	4276.37	263.409	140.574	386.015	OK	-0.18156	-0.04325	0.196769	-1.13411	-1.03043	1.146129
RSc1638		putative signal peptide protein	836.633	93.5407	0.447225	233.339	OK	888.717	100.023	0.787836	234.325	OK	495.727	52.022	0.734587	122.151	OK	790.543	85.9397	4.23968	188.611	OK	0.096666	-0.84647	-0.12227	1.069299	-1.7981	-1.08845
RSc1639	***metC***	cystathionine beta-lyase	3358.7	205.415	91.5925	318.083	OK	3603.63	221.192	99.2782	342.412	OK	2415.28	141.765	79.689	203.615	OK	3319.92	198.716	109.808	286.964	OK	0.106758	-0.53504	-0.04783	1.076805	-1.44898	-1.03371
RSc1640	***serB***	putative phosphoserine phosphatase protein	1672.25	154.732	66.4276	242.367	OK	2459.15	228.792	99.0034	357.808	OK	1857.31	162.665	88.189	236.874	OK	1514	136.548	72.0469	199.999	OK	0.564265	0.072132	-0.18036	1.478634	1.051269	-1.13317
RSc1641	***argE***	acetylornithine deacetylase	713.926	44.5517	20.5501	68.3923	OK	691.837	43.3326	20.0646	66.5585	OK	969.223	58.0141	32.7236	83.3254	OK	601.066	36.7034	20.9644	51.932	OK	-0.04003	0.380923	-0.27957	-1.02813	1.302175	-1.21383
RSc1642	***mfd***	transcription-repair coupling factor protei	2503.81	48.6859	21.0962	76.1541	OK	2728.71	53.1199	22.9871	83.3468	OK	3532.33	67.1618	37.8556	96.4312	OK	2172.18	41.5617	23.8655	59.234	OK	0.125748	0.464137	-0.22825	1.091074	1.379492	-1.17141
RSc1643	***ispD***	2-C-methyl-D-erythritol 4-phosphate cytidylyltransferas	643.954	69.1181	22.6502	115.618	OK	712.997	77.0162	25.1012	128.886	OK	443.486	44.7653	20.3435	69.1177	OK	561.177	58.5989	27.0968	89.4612	OK	0.156098	-0.62668	-0.23819	1.11427	-1.54401	-1.17951
RSc1644		hypothetical protein	429.978	80.2519	5.03933	157.526	OK	478.398	90.2799	5.47267	176.824	OK	394.581	66.9555	26.9803	107.412	OK	380.766	68.4483	22.6504	114.33	OK	0.169869	-0.26133	-0.22952	1.124957	-1.19859	-1.17245
RSc1645	***ahpD***	putative antioxidant protei	153.129	26.942	11.2214	40.7385	OK	184.919	32.8758	13.6608	48.0568	OK	106.703	17.1446	8.6634	25.0276	OK	127.829	21.6903	10.3479	28.878	OK	0.287169	-0.6521	-0.31281	1.220243	-1.57146	-1.24212
RSc1646	***ahpC2***	putative alkyl hydroperoxide reductase (subunit C) oxidoreductase protein	286.99	34.8065	15.7982	53.8069	OK	397.439	48.5489	21.7458	75.2739	OK	248.975	28.2257	15.585	40.6125	OK	344.503	40.5751	21.5439	58.4894	OK	0.480082	-0.30235	0.221238	1.394823	-1.23315	1.165733
RSc1647	***rissS***	oxidative stress resistance two-component transmembrane sensor histidine kinase transcription regulator protei	1007	54.043	24.3986	83.4565	OK	1415.87	76.2273	33.619	118.21	OK	1008.13	52.0967	29.6667	74.54	OK	1290.07	67.8247	37.8764	97.6763	OK	0.4962	-0.05292	0.327703	1.410493	-1.03736	1.255014
RSc1648	***ompR***	osmolarity response regulator	4485.36	514.9	213.957	814.944	OK	5816.22	672.226	271.232	1069.07	OK	4906.14	527.935	274.952	775.208	OK	5754.1	642.005	322.139	953.589	OK	0.384654	0.036068	0.318292	1.305547	1.025316	1.246854
RSc1649		putative transmembrane protei	2032.26	454.183	157.711	656.747	OK	691.837	156.659	55.9573	231.271	OK	462.382	92.5506	43.7662	130.169	OK	927.437	198.774	86.2618	265.703	OK	-1.53565	-2.29496	-1.19214	-2.89918	-4.9074	-2.28492
RSc1650		signal peptide protein	12237.1	541.636	213.555	870.07	OK	3259.55	144.651	64.5603	224.547	OK	3115.52	133.342	75.3578	191.341	OK	4276.37	185.651	103.843	267.249	OK	-1.90475	-2.02219	-1.54473	-3.74443	-4.06201	-2.9175
RSc1651		hypothetical protein	10777.9	678.495	276.354	1080.74	OK	2655.11	167.769	75.1617	260.484	OK	2505.31	151.241	84.8696	217.562	OK	3035.25	186.961	103.205	269.781	OK	-2.01586	-2.16549	-1.8596	-4.04422	-4.48618	-3.62907
RSc1652	***crtB***	putative phytoene synthase protein	2011.97	182.239	78.7861	285.489	OK	1036.84	94.418	41.2373	147.244	OK	515.734	44.2534	25.0342	63.4588	OK	638.236	56.3627	30.6378	81.6523	OK	-0.9487	-2.04197	-1.69302	-1.93013	-4.11808	-3.23333
RSc1653		putative transport/efflux transmembrane protei	3063.6	188.441	84.5896	291.216	OK	2332.19	143.974	64.1346	223.353	OK	2287.46	135.011	75.7755	193.905	OK	2254.68	135.722	75.1449	195.114	OK	-0.3883	-0.48104	-0.47346	-1.30885	-1.39575	-1.38843
RSc1654		transmembrane drug efflux protei	5167.85	112.513	47.8466	177.227	OK	4266.94	93.0183	40.2919	145.707	OK	4350.39	92.5176	52.1081	132.846	OK	3575.57	76.578	43.2911	109.897	OK	-0.27451	-0.28229	-0.55509	-1.20958	-1.21613	-1.46926
RSc1704	***tISRso18***	ISRSO18-transposase protein	1.0141	0.08123	0	0.333338	OK	1.83999	0.148083	0	0.333338	OK	10.0035	0.762578	0.328838	1.24959	OK	7.25269	0.567167	0.197303	0.920748	OK	0.866329	3.230807	2.803696	1.823018	9.387932	6.98227
RSc1708		hypothetical protein	7.0987	9.78616	0.990784	5.94471	OK	5.51998	7.9396	0.660523	5.61444	OK	13.3379	12.9789	2.28062	9.77409	OK	3.62634	4.66601	0.325803	4.56124	OK	-0.30168	0.407353	-1.06855	-1.23258	1.326251	-2.09733
RSc1709	***mnmC***	5-methylaminomethyl-2-thiouridinemethyltransferas	2737.06	97.2784	43.1297	151.378	OK	2797.71	99.6429	44.6631	154.478	OK	1124.83	38.8087	22.368	55.1315	OK	2553.85	89.1282	50.6901	127.288	OK	0.034648	-1.32574	-0.12624	1.024307	-2.50661	-1.09144
RSc1710	***tig***	trigger factor	10826.5	586.899	238.665	935.198	OK	20291.4	1103.51	412.309	1794.78	OK	13232.3	690.545	368.483	1012.41	OK	10990.5	583.616	312.246	855.418	OK	0.910916	0.234623	-0.00809	1.880238	1.176599	-1.00563
RSc1711	***clpP***	ATP-dependent Clp protease proteolytic subunit	11436	1496.91	556.468	2433.85	OK	14603.1	1926.34	694.822	3145.8	OK	18496.4	2253.74	1088.59	3417.01	OK	13917	1766.87	839.802	2671.92	OK	0.363875	0.590334	0.239208	1.286878	1.505595	1.180345
RSc1712	***clpX***	ATP-dependent protease ATP-binding subunit	20144.1	1165.58	432.219	1895.11	OK	24232.7	1406.96	508.338	2304.6	OK	25552.2	1421.01	697.004	2144.93	OK	27058	1532.92	740.604	2325.31	OK	0.271533	0.285869	0.395234	1.20709	1.219144	1.315156
RSc1713	***lon***	ATP-dependent protease LA protein	71886.5	2049.38	684.922	3412.4	OK	74089.2	2115.73	711.949	3515.8	OK	119511	3317.92	758.994	5878.08	OK	67217.9	1883.41	676.804	3090.03	OK	0.045968	0.695092	-0.12184	1.032376	1.618987	-1.08812
RSc1714	***hupB1***	DNA-binding protein HU-beta	475.613	266.533	65.3446	258.076	OK	322.919	185.947	45.7648	166.546	OK	520.18	234.909	81.4508	241.56	OK	389.832	205.08	61.9026	179.192	OK	-0.51942	-0.18221	-0.37813	-1.43338	-1.13462	-1.29965
RSc1715	***ppiD***	peptidyl-prolyl cis-trans isomerase transmembrane protei	5404.14	194.975	84.7764	305.103	OK	9187.09	332.166	135.583	528.67	OK	5538.58	193.934	108.529	278.795	OK	4801.28	170.085	95.3137	244.566	OK	0.768615	-0.00772	-0.19703	1.703634	-1.00537	-1.14634
RSc1716		putative signal peptidase I (SPase I) protein	7448.56	903.37	354.995	1450.83	OK	9559.68	1167.76	444.581	1889.75	OK	10399.1	1178.93	594.337	1758.07	OK	9750.33	1148.38	565.917	1731.03	OK	0.370355	0.384089	0.346211	1.292671	1.305036	1.271218
RSc1717		esterase signal peptide protein	1473.49	194.055	78.1517	309.441	OK	1736.95	230.543	92.1993	367.808	OK	1728.37	211.817	109.692	313.462	OK	1270.13	162.225	80.61	238.317	OK	0.24857	0.126353	-0.25847	1.188029	1.091531	-1.19621
RSc1718		ABC transporter ATP-binding protei	1005.99	118.007	49.8179	185.051	OK	1052.48	124.32	52.0824	196.554	OK	852.516	93.6401	49.9496	136.803	OK	796.889	90.8258	47.0009	134.122	OK	0.075186	-0.33367	-0.3777	1.053497	-1.26022	-1.29927
RSc1719	***pgi***	glucose-6-phosphate isomerase transmembrane protei	4256.18	187.998	83.3635	291.514	OK	4329.5	191.736	85.3512	298.153	OK	4308.15	184.015	103.258	264.244	OK	4252.79	184.25	102.945	265.303	OK	0.028404	-0.03089	-0.02905	1.019883	-1.02164	-1.02034
RSc1720		hypothetical protein	1176.36	52.83	23.6863	81.8732	OK	274.159	12.3451	6.25448	18.4003	OK	280.097	12.16	7.40406	16.9179	OK	242.965	10.7015	6.4885	14.8877	OK	-2.09742	-2.11921	-2.30354	-4.27943	-4.34457	-4.93669
RSc1721		hypothetical protein	1416.7	225.267	86.5495	363.462	OK	1437.95	230.811	87.9125	372.095	OK	1817.29	265.78	132.778	392.955	OK	1256.53	193.097	91.8799	291.102	OK	0.035076	0.238597	-0.22231	1.024611	1.179844	-1.1666
RSc1722	***purL***	phosphoribosylformylglycinamidine synthas	12263.5	200.046	73.6772	326.189	OK	20940	341.909	117.128	567.073	OK	17798.4	284.296	143.649	424.734	OK	15782.8	253.437	131.206	375.408	OK	0.773281	0.507062	0.341295	1.709152	1.421153	1.266894
RSc1723		putative Type III effector protein	2864.83	653.819	228.594	929.898	OK	45.9998	10.6396	3.91628	13.9245	OK	16.6724	3.40146	1.2878	5.2943	OK	19.9449	4.36298	1.57398	6.43901	OK	-5.94138	-7.58659	-7.22743	-61.4515	-192.217	-149.856
RSc1725		hypothetical protein	2511.93	3644.53	461.876	1890.77	OK	27.5999	41.8153	5.36675	20.7962	OK	26.6759	27.0985	5.2943	20.8463	OK	29.9173	40.5118	5.95609	21.839	OK	-6.44556	-7.07138	-6.49125	-87.1578	-134.492	-89.9622
RSc1726		hypothetical protein	48034.9	6652.58	2189.94	11104.6	OK	153.639	21.4535	9.5523	32.8681	OK	113.372	14.5685	7.7008	20.7719	OK	117.856	15.8161	8.00478	23.4064	OK	-8.27656	-8.83492	-8.71638	-310.093	-456.641	-420.621
RSc1727		hypothetical protein	88511.7	13571.6	4453.18	22594.8	OK	355.119	54.9476	23.3481	86.4213	OK	596.873	84.3792	43.446	121.605	OK	462.359	68.5653	33.8399	100.646	OK	-7.94832	-7.32949	-7.6289	-246.992	-160.841	-197.937
RSc1728		hypothetical protein	15275.4	748.665	286.968	1208.04	OK	252.999	12.4357	6.37029	18.5436	OK	106.703	5.04617	2.96997	7.10211	OK	216.674	10.4095	6.1982	14.5916	OK	-5.91176	-7.21299	-6.16835	-60.2029	-148.363	-71.9213
RSc1729		transcription regulator protei	722.039	61.2644	27.6903	94.4688	OK	405.719	34.5979	16.5023	52.5837	OK	379.02	30.5424	17.6592	43.3891	OK	360.821	29.8711	16.8314	42.6993	OK	-0.82436	-1.00424	-1.0363	-1.77075	-2.00588	-2.05096
RSc1730		dehydrogenase/reductase oxidoreductase protein	2288.82	242.038	102.407	380.642	OK	265.879	28.2925	13.2811	43.0175	OK	311.219	30.9714	17.4691	44.332	OK	263.816	27.1466	14.8323	39.2231	OK	-3.09674	-2.96623	-3.15639	-8.55485	-7.81489	-8.91596
RSc1731		transmembrane ABC transporter protein	952.24	93.3404	40.7322	145.944	OK	275.079	27.1205	12.7387	40.8895	OK	285.654	26.4394	15.1266	37.6225	OK	250.218	23.89	13.2648	34.0542	OK	-1.78312	-1.81981	-1.96609	-3.44169	-3.53035	-3.90709
RSc1732		transport system permease transmembrane protei	1161.14	67.9187	30.1864	105.499	OK	459.078	26.9457	13.1555	40.6904	OK	525.737	29.5478	17.2536	41.8011	OK	473.238	27.1004	15.5937	38.5314	OK	-1.33375	-1.20076	-1.32549	-2.52058	-2.2986	-2.50619
RSc1733		putative lipoprotein signal peptide	4927.51	361.018	157.631	563.833	OK	1452.67	106.893	46.7077	166.787	OK	2672.03	186.876	103.506	269.018	OK	1794.13	128.445	69.8787	187.055	OK	-1.7559	-0.94999	-1.49092	-3.37738	-1.93186	-2.81068
RSc1734		ABC transporter ATP-binding protei	1908.54	132.162	58.2676	206.001	OK	802.237	55.781	25.3004	86.1629	OK	715.803	47.4004	26.8206	67.9532	OK	857.63	58.0624	32.1149	83.487	OK	-1.24446	-1.47934	-1.18663	-2.3693	-2.7882	-2.27621
RSc1735		two-component transmembrane sensor kinase transcription regulator protein	207.891	10.6765	3.13818	18.1924	OK	251.159	12.9378	4.00232	21.8308	OK	127.822	6.3275	2.69202	9.96046	OK	140.521	7.07177	2.69202	11.4859	OK	0.277154	-0.75473	-0.5943	1.211802	-1.68732	-1.50974
RSc1736		two-component response regulator transcription regulator protei	248.455	30.1328	8.3684	52.0296	OK	272.319	33.265	7.94005	58.6342	OK	211.184	23.9414	11.9036	36.0509	OK	283.761	33.4211	16.7246	50.1737	OK	0.14267	-0.33183	0.149424	1.103947	-1.25861	1.109127
RSc1737		putative transmembrane outer membrane porin signal peptide	1583.01	113.274	49.6652	176.89	OK	1421.39	102.14	44.6926	159.608	OK	1441.61	98.5446	54.3787	142.378	OK	856.724	59.9165	33.0221	86.8026	OK	-0.14927	-0.20097	-0.91879	-1.10901	-1.14947	-1.89053
RSc1738		ABC transporter ATP-binding protei	391.443	39.8247	18.6317	60.9987	OK	789.357	80.7925	35.5623	125.319	OK	506.842	48.6116	26.931	70.2444	OK	560.27	55.4943	29.8878	81.0328	OK	1.020558	0.287637	0.478676	2.028703	1.220639	1.393464
RSc1739		putative transmembrane ABC transporter protei	283.948	24.3819	11.8633	36.7905	OK	531.758	45.893	21.3258	69.8384	OK	258.978	21.1101	12.2605	29.9546	OK	402.524	33.719	18.8087	48.4846	OK	0.912464	-0.20788	0.467751	1.882257	-1.15499	1.382952
RSc1740		putative signal peptide protein	2618.41	203.656	90.5517	316.541	OK	4123.42	322.191	141.617	502.002	OK	3257.79	241.395	132.71	350.066	OK	2760.55	209.684	113.715	305.401	OK	0.661782	0.245261	0.042082	1.582035	1.185308	1.029599
RSc1741		hypothetical protein	848.802	65.5435	22.8895	108.176	OK	763.597	59.2338	20.1738	98.2826	OK	436.817	32.1422	16.9035	47.3298	OK	553.017	41.7064	19.6463	63.723	OK	-0.14603	-1.02798	-0.65218	-1.10652	-2.03917	-1.57155
RSc1742		hypothetical protein	367.104	26.5339	2.62986	50.3343	OK	351.439	25.5103	3.24146	47.7656	OK	157.832	10.8945	3.07703	18.7035	OK	333.624	23.566	8.32608	38.855	OK	-0.05676	-1.28424	-0.17113	-1.04012	-2.43553	-1.12594
RSc1743		hypothetical protein	46.6486	34.3855	0	153.32	OK	42.3198	32.2049	0	144.588	OK	35.5678	20.3357	0	60.0332	OK	87.9388	60.6448	0	152.407	OK	-0.09452	-0.75779	0.818584	-1.06771	-1.69089	1.763674
RSc1744		putative isomerase rotamase signal peptide protei	4523.9	480.761	200.582	757.55	OK	8130.01	869.434	341.795	1392.5	OK	4177	417.642	221.12	612.236	OK	6251.82	646.449	329.405	957.276	OK	0.854757	-0.20305	0.427217	1.808454	-1.15113	1.344637
RSc1745		hypothetical protein	138.932	70.8864	1.12984	140.552	OK	169.279	88.6073	2.48565	174.674	OK	147.829	61.5479	5.79586	117.032	OK	130.548	62.6275	4.90419	119.93	OK	0.321917	-0.2038	-0.17871	1.24999	-1.15173	-1.13187
RSc1746	***ispZ***	intracellular septation protein A	1242.27	200.502	69.4016	331.836	OK	1223.6	199.384	68.9275	330.298	OK	1192.63	176.866	93.2798	260.709	OK	1126.89	175.725	93.0952	258.39	OK	-0.00807	-0.18096	-0.1903	-1.00561	-1.13364	-1.141
RSc1747		methionine sulfoxide reductase E	298.145	85.1292	29.7875	108.001	OK	287.959	83.5786	28.6227	104.173	OK	258.978	64.6735	29.0571	78.7989	OK	300.987	81.8966	33.8179	91.2754	OK	-0.02652	-0.39648	-0.05585	-1.01855	-1.31629	-1.03947
RSc1748		hypothetical protein	1575.91	71.6736	31.7516	111.62	OK	1448.99	66.0785	29.3029	102.886	OK	1421.6	62.4854	35.4295	89.4193	OK	1376.2	61.381	34.5035	87.7686	OK	-0.11726	-0.19792	-0.22365	-1.08467	-1.14705	-1.16768
RSc1749	***alkK***	acyl-CoA synthetase	7509.41	329.66	137.895	520.743	OK	4861.26	213.961	94.2887	334.102	OK	6198.81	263.178	145.783	380.371	OK	11348.6	488.674	264.539	712.147	OK	-0.62363	-0.32494	0.567894	-1.54075	-1.25261	1.482358
RSc1750	***livJ***	Leu/Ile/Val-binding precursor signal peptide protei	2698.52	159.145	71.1287	247.179	OK	828.917	49.0559	22.4941	75.5967	OK	1994.02	112.969	63.177	162.679	OK	2093.31	120.855	67.1793	174.535	OK	-1.69784	-0.49441	-0.39706	-3.24416	-1.40875	-1.31683
RSc1751	***livH1***	putative amino acid transmembrane transmembrane protei	882.267	72.2881	32.3364	112.022	OK	435.158	35.8275	17.0513	54.3468	OK	563.528	43.9069	24.8631	62.7944	OK	575.682	46.0389	25.6673	65.8102	OK	-1.01269	-0.71931	-0.6509	-2.01767	-1.64639	-1.57015
RSc1752	***livM***	amino acid ABC transporter permease	1190.55	66.04	12.0235	120.04	OK	656.878	36.5565	6.47417	66.4941	OK	746.924	39.8632	12.9176	66.845	OK	729.802	39.6484	13.6379	65.5965	OK	-0.85321	-0.72828	-0.73608	-1.80652	-1.65667	-1.66564
RSc1753	***livG***	amino-acid ATP-binding ABC transporter protei	1007	101.489	17.849	185.082	OK	560.278	56.8041	10.2913	102.993	OK	770.266	73.2136	25.3809	121.035	OK	757.906	74.3742	26.8086	121.749	OK	-0.83726	-0.47114	-0.44845	-1.78665	-1.3862	-1.36457
RSc1754	***livF***	amino-acid ATP-binding ABC transporter protei	876.182	101.123	0.807889	219.284	OK	400.199	46.5044	0.232407	107.721	OK	693.573	75.0145	15.6827	134.547	OK	541.232	60.707	8.41233	112.837	OK	-1.12067	-0.43087	-0.73618	-2.17448	-1.34805	-1.66576
RSc1755		transposase	36.5076	13.6347	4.06132	15.8585	OK	24.8399	9.46855	2.70755	10.4434	OK	32.2333	10.2168	3.62493	12.4011	OK	16.3185	5.76828	1.71707	7.05907	OK	-0.52607	-0.41634	-1.24107	-1.44	-1.33454	-2.36374
RSc1756	***pehB***	exo-poly-galacturonase signal peptide protei	6179.93	204.413	86.4482	322.402	OK	3754.51	124.43	55.2096	193.508	OK	8011.65	257.535	143.119	371.941	OK	3133.16	101.797	57.7177	145.71	OK	-0.71615	0.333282	-1.00579	-1.6428	1.259876	-2.00805

RSc1757		lysine-specific permease transmembrane protein	928.916	43.7301	20.12	67.3474	OK	908.037	42.8662	19.657	66.0426	OK	810.28	36.8386	21.3433	52.3617	OK	811.394	37.4518	21.5094	53.0676	OK	-0.02879	-0.24741	-0.22359	-1.02015	-1.18707	-1.16764
RSc1758	***lysP***	lysine-specific permease transmembrane protein	569.924	26.6547	12.8886	40.3814	OK	606.278	28.4333	13.5999	43.2269	OK	436.817	19.7324	11.8477	27.6583	OK	412.497	18.916	11.1459	26.6263	OK	0.093192	-0.43382	-0.49478	1.066727	-1.35081	-1.40911
RSc1759		trifunctonal enoyl-CoA hydratase/delta3-cis- delta2-trans-enoyl-CoA isomerase/3-hydroxyacyl-CoA dehydrogenase	19950.4	655.856	237.048	1074.47	OK	11577.2	381.333	150.876	612.553	OK	17287.1	552.341	284.08	820.369	OK	26495	855.573	413.09	1297.95	OK	-0.78233	-0.24782	0.383512	-1.7199	-1.18741	1.304513
RSc1760	***pncA***	bifunctional pyrazinamidase/nicotinamidase hydrolase	1666.17	227.816	91.1584	362.599	OK	870.317	119.966	49.2418	189.439	OK	1050.36	133.355	68.6503	196.215	OK	1308.2	173.362	85.1103	252.922	OK	-0.92524	-0.7726	-0.39408	-1.899	-1.70834	-1.31411
RSc1761		acetyl-CoA acetyltransferase	8827.74	559.009	231.385	883.97	OK	4463.82	283.727	125.798	441.248	OK	6062.09	368.055	202.126	534.549	OK	6135.77	380.154	205.845	554.379	OK	-0.97837	-0.60295	-0.55629	-1.97024	-1.51882	-1.47048
RSc1762		acyl-CoA dehydrogenase oxidoreductase protein	4730.78	177.544	78.598	276.773	OK	2246.63	84.5021	37.7216	131.168	OK	3017.71	109.843	62.3137	157.374	OK	2813.14	103.643	58.9308	148.41	OK	-1.07112	-0.69273	-0.77655	-2.10106	-1.61634	-1.71303
RSc1763		gluconate 5-dehydrogenase	3263.37	338.426	143.031	532.48	OK	976.116	101.85	43.8387	158.987	OK	2317.47	226.371	121.221	329.017	OK	1792.32	180.912	94.6889	266.054	OK	-1.73239	-0.58015	-0.90355	-3.32279	-1.49501	-1.87067
RSc1764		hypothetical protein	1056.69	249.073	86.016	354.427	OK	552.918	132.138	47.0793	180.323	OK	633.552	133.102	61.633	185.921	OK	618.292	139.575	60.0264	182.562	OK	-0.91452	-0.90404	-0.83553	-1.88495	-1.87129	-1.78451
RSc1765		6-aminohexanoate-dimer hydrolase lipoprotein	1448.13	80.328	35.4376	124.518	OK	1084.68	60.3644	27.0163	93.7051	OK	723.583	38.6175	22.2817	54.8878	OK	921.998	50.09	28.1882	71.7432	OK	-0.4122	-1.05665	-0.68138	-1.33072	-2.08009	-1.60367
RSc1766		NADP-dependent oxidoreductase oxidoreductase protein	7553.02	572.931	239.768	905.245	OK	4236.58	322.808	141.924	501.003	OK	6893.49	498.58	270.088	726.057	OK	4018.9	297.787	160.683	434.918	OK	-0.82769	-0.20054	-0.94408	-1.77484	-1.14913	-1.92396
RSc1767		hypothetical protein	2939.88	275.589	119.851	431.312	OK	1733.27	163.383	69.635	257.073	OK	2104.06	186.591	100.947	271.338	OK	1793.23	163.825	86.4299	240.806	OK	-0.75426	-0.56264	-0.75036	-1.68677	-1.47697	-1.68222
RSc1768		putative glutathione S-transferase-related protein	2335.47	189.189	83.2435	292.934	OK	1199.68	97.6484	42.6648	152.624	OK	1022.58	78.8035	43.4166	113.919	OK	976.393	77.2102	42.0889	111.927	OK	-0.95416	-1.2635	-1.29296	-1.93745	-2.40077	-2.45031
RSc1769		hypothetical protein	3369.85	292.875	128.303	457.44	OK	1639.43	143.217	61.6195	224.869	OK	2207.43	182.036	99.2725	263.062	OK	1576.55	133.652	71.1301	194.746	OK	-1.03208	-0.68606	-1.1318	-2.04497	-1.60889	-2.19133
RSc1770		hydrolase protein	3772.45	313.886	136.921	489.681	OK	1288	107.696	46.5118	168.502	OK	1693.92	133.952	73.0342	193.649	OK	1205.76	97.9069	52.4679	142.742	OK	-1.54328	-1.22852	-1.68076	-2.91456	-2.34327	-3.20596
RSc1771	***gbd1***	NAD-dependent 4-hydroxybutyrate dehydrogenase oxidoreductase protein	1861.89	121.486	53.5834	189.392	OK	637.558	41.7605	19.5053	63.9526	OK	673.566	42.1021	24.1077	59.9928	OK	685.379	43.7438	24.6054	62.0387	OK	-1.54058	-1.52883	-1.47364	-2.90911	-2.88551	-2.77722
RSc1772		esterase/lipase protein	1384.25	102.115	44.8007	159.291	OK	2251.23	166.797	73.61	259.968	OK	932.544	65.6536	36.6458	94.4687	OK	2182.15	157.288	85.8137	228.652	OK	0.707899	-0.63725	0.623214	1.633423	-1.55536	1.540303
RSc1773		putative thioesterase protein	342.766	76.6037	20.7514	131.235	OK	458.158	103.745	27.0484	178.462	OK	181.174	36.2638	15.8123	56.049	OK	640.956	137.374	53.5077	198.783	OK	0.437556	-1.07888	0.842623	1.354308	-2.1124	1.793308
RSc1774		hypothetical protein	322.484	72.8265	13.324	132.788	OK	461.838	105.688	19.9093	191.77	OK	136.714	27.6258	10.9118	44.2534	OK	417.936	90.49	28.3636	152.428	OK	0.537276	-1.39845	0.313295	1.45123	-2.63618	1.242542
RSc1775		hemagglutinin-related protein	530.374	3.65859	1.68834	5.6278	OK	850.077	5.86633	2.57658	9.16721	OK	925.875	6.28081	3.61872	8.94312	OK	1101.5	7.48898	4.30099	10.6822	OK	0.68117	0.779663	1.033481	1.60344	1.71673	2.046958
RSc1779		activation/secretion signal peptide protein	127.777	5.36785	2.77361	7.94089	OK	333.039	14.0256	7.18099	20.7831	OK	157.832	6.41789	3.8981	8.92066	OK	184.037	7.58534	4.61026	10.4949	OK	1.385646	0.257755	0.498869	2.61289	1.195616	1.413106
RSc1780		putative signal peptide protein	1842.62	180.617	77.061	283.553	OK	1670.71	164.719	69.6694	259.098	OK	2054.04	190.117	102.24	277.476	OK	2104.19	200.901	106.041	295.317	OK	-0.13293	0.073954	0.153551	-1.09652	1.052597	1.112304
RSc1781		hypothetical protein	254.539	124.264	33.8603	125.925	OK	258.519	129.378	34.3029	123.491	OK	367.905	147.412	54.7987	158.065	OK	119.669	54.974	17.4657	51.3056	OK	0.058184	0.246446	-1.17659	1.041154	1.186281	-2.26041
RSc1782		hypothetical protein	3981.36	291.697	92.8587	490.029	OK	3640.43	267.876	73.6807	461.386	OK	3685.72	257.77	118.397	395.593	OK	1638.2	117.282	47.3588	187.177	OK	-0.12291	-0.17839	-1.31449	-1.08893	-1.13162	-2.48714
RSc1783		hypothetical protein	1329.49	88.0861	0.454328	183.378	OK	1520.75	101.154	1.81731	201.097	OK	1047.03	66.4262	6.61087	126.559	OK	1126.89	73.0231	21.4573	124.542	OK	0.199567	-0.40716	-0.27056	1.148354	-1.32607	-1.20628
RSc1784	***tdk***	thymidylate kinase	897.479	126.749	0	341.348	OK	1406.67	200.33	1.9938	488.053	OK	1398.26	183.01	11.256	365.036	OK	968.234	132.454	15.5951	252.531	OK	0.660404	0.529948	0.063517	1.580525	1.443877	1.04501
RSc1785	***holB***	DNA polymerase III subunit delta	1889.27	143.31	63.0633	223.524	OK	2806.91	213.873	94.8497	332.834	OK	1919.55	138.834	76.4139	200.838	OK	1985.42	147.113	79.5559	214.537	OK	0.577615	-0.04578	0.037785	1.49238	-1.03224	1.026537
RSc1786	***pilZ***	putative type 4 fimbrial biogenesis protein	2039.36	574.727	182.965	760.427	OK	2514.35	720.158	227.715	931.668	OK	2490.86	614.783	265.204	844.97	OK	2154.05	578.683	229.854	729.636	OK	0.325437	0.0972	0.009896	1.253044	1.069696	1.006883
RSc1787		hypothetical protein	1962.28	196.841	51.2645	342.27	OK	2934.79	296.146	79.2997	512.885	OK	2194.09	207.616	86.3682	328.484	OK	2484.95	242.727	103.99	381.19	OK	0.589278	0.076887	0.302304	1.504493	1.05474	1.233112
RSc1788		aankyrin repeat-containing protein	2204.65	198.853	33.3728	364.034	OK	2858.43	259.199	25.5715	494.019	OK	2544.21	217.43	85.0332	349.79	OK	2412.43	212.157	76.5107	348.695	OK	0.382358	0.128849	0.09343	1.30347	1.093421	1.066904
RSc1789		hypothetical protein	2242.18	126.332	56.357	196.312	OK	1183.12	66.8831	29.659	104.127	OK	1534.97	83.179	46.5412	118.884	OK	1274.66	70.3319	39.2874	101.358	OK	-0.91751	-0.60293	-0.84497	-1.88885	-1.5188	-1.79623
RSc1790		transcription regulator protein	119.664	8.36745	0.416258	16.2935	OK	99.3596	6.97645	0.178396	13.796	OK	94.4771	6.31551	1.11459	11.4979	OK	153.213	10.4731	1.23191	19.7106	OK	-0.26229	-0.40589	0.323829	-1.19939	-1.3249	1.251648
RSc1791		solute-binding periplasmic (PBP) ABC transporter protein	464.458	34.3809	12.7321	56.1839	OK	462.758	34.4052	12.7135	56.1328	OK	445.709	31.4838	17.0943	46.0557	OK	844.031	61.0448	31.4615	90.6959	OK	0.001019	-0.127	0.828261	1.000707	-1.09202	1.775544
RSc1792		transport system permease transmembrane ABC transporter	189.637	17.7768	0	43.465	OK	151.799	14.309	0	35.576	OK	107.815	9.56118	0	22.3745	OK	179.504	16.3991	0.897973	31.878	OK	-0.31307	-0.89474	-0.11638	-1.24235	-1.85927	-1.08401
RSc1793		ABC transporter permease	113.579	11.5009	0	32.9268	OK	103.04	10.4963	0	29.5373	OK	85.5851	8.17152	0	20.3811	OK	106.071	10.4573	0	23.3268	OK	-0.13187	-0.49307	-0.13724	-1.09571	-1.40744	-1.0998
RSc1794		ABC transporter ATP-binding protein	584.122	40.978	4.83007	76.983	OK	438.838	30.9137	2.80264	58.8553	OK	515.734	34.5844	11.5886	57.5314	OK	514.941	35.3136	11.7651	58.8256	OK	-0.4066	-0.24473	-0.21463	-1.32556	-1.18487	-1.1604
RSc1795		hypothetical protein	1019.17	95.5386	15.7486	177.172	OK	804.077	75.7943	13.1025	140.168	OK	798.053	70.7724	27.1365	114.576	OK	736.148	67.2529	23.5703	111.731	OK	-0.33399	-0.4329	-0.50649	-1.2605	-1.34994	-1.42059
RSc1796		putative N-acetylmuramoyl-L-alanine amidase protein	3276.56	242.543	106.898	377.981	OK	2381.87	177.088	78.5667	275.701	OK	2590.89	183.014	101.269	264.777	OK	2254.68	163.07	88.895	236.951	OK	-0.45377	-0.40629	-0.57275	-1.36962	-1.32527	-1.48736
RSc1797		pyruvate dehydrogenase E1 component alpha subunit oxidoreductase protein	1207.79	83.6372	25.3594	141.836	OK	229.999	15.9923	6.25138	25.7722	OK	322.333	21.3449	10.4141	32.2894	OK	486.837	32.9593	15.7084	50.2086	OK	-2.38677	-1.97025	-1.34346	-5.22984	-3.91837	-2.53759
RSc1798		putative pyruvate decarboxylase E1 (Beta subunit) oxidoreductase protein	975.564	76.7117	7.78468	146.022	OK	155.479	12.2828	2.05398	22.5148	OK	244.529	18.3112	6.8893	29.8037	OK	363.541	27.9139	10.1354	45.7628	OK	-2.64281	-2.06672	-1.45846	-6.24546	-4.18933	-2.74815
RSc1799		branched-chain alpha-keto acid dehydrogenase subunit E2	882.267	59.3715	26.8769	91.911	OK	161.919	10.9396	5.46747	16.4024	OK	210.073	13.5302	8.00532	19.0197	OK	271.976	17.8981	10.4467	25.3218	OK	-2.44021	-2.13359	-1.72996	-5.42721	-4.38807	-3.3172
RSc1800	***ripG4, gala4***	Type III effector protein GALA4	1540.42	80.8508	35.7474	125.881	OK	470.118	24.7514	12.1013	37.3702	OK	693.573	35.0714	20.3082	49.7184	OK	502.249	25.8283	15.0939	36.5913	OK	-1.70775	-1.20497	-1.64631	-3.26651	-2.30532	-3.13032
RSc1801	***ripG5, gala5***	Type III effector protein GALA5	643.954	28.5025	13.5812	43.4119	OK	105.8	4.69512	2.38965	6.9698	OK	132.268	5.66099	3.41821	7.89725	OK	97.9113	4.25065	2.47526	6.01134	OK	-2.60185	-2.33196	-2.74533	-6.07066	-5.0349	-6.70545
RSc1802		putative transcription regulator protein	1931.86	242.519	99.3206	385.261	OK	82.7997	10.4719	4.67503	16.2195	OK	115.595	13.5397	7.34143	19.5771	OK	96.0981	11.709	6.02374	17.2241	OK	-4.5335	-4.16283	-4.37241	-23.159	-17.9117	-20.7122
RSc1803		hypothetical protein	274.821	15.6073	7.85135	23.3553	OK	350.519	19.9731	9.98812	29.8153	OK	216.741	11.8359	7.05907	16.5692	OK	196.729	10.9404	6.51983	15.3927	OK	0.355837	-0.39905	-0.51256	1.279728	-1.31864	-1.42657
RSc1804		hypothetical protein	231.215	6.3716	3.04094	9.71555	OK	151.799	4.18995	1.95857	6.4169	OK	835.844	22.4402	11.8216	33.0751	OK	158.653	4.29751	2.54228	6.05063	OK	-0.60472	1.816358	-0.56815	-1.52069	3.52191	-1.48263
RSc1805		putative siderophore-like synthase protein	37.5217	2.4116	0	5.84876	OK	37.7199	2.43355	0	5.29036	OK	287.877	17.7324	2.77188	32.6465	OK	18.1317	1.14006	0	2.51507	OK	0.013072	2.878325	-1.08088	1.009102	7.352961	-2.11533
RSc1806		polyketide synthase protein	779.843	3.97174	1.73486	6.20526	OK	724.957	3.69332	1.6192	5.76275	OK	9108.7	45.6582	24.2429	67.0636	OK	571.149	2.86769	1.69656	4.04296	OK	-0.10485	3.523031	-0.46988	-1.07538	11.49577	-1.385
RSc1807		putative siderophore receptor protein	164.284	5.52771	2.85399	8.18972	OK	138.919	4.68355	2.41969	6.91783	OK	1532.75	50.107	28.5525	71.5496	OK	168.625	5.57269	3.39692	7.74253	OK	-0.23908	3.180258	0.011692	-1.18024	9.064694	1.008137
RSc1808		ABC transporter ATP-binding protein	172.397	6.55015	1.90741	11.167	OK	160.999	6.13083	1.66465	10.5774	OK	1861.75	68.592	27.3011	109.957	OK	127.829	4.76757	1.95008	7.56084	OK	-0.09545	3.38844	-0.45827	-1.0684	10.47182	-1.3739
RSc1809		ABC transporter ATP-binding protein	224.116	9.1119	2.56139	15.6936	OK	229.999	9.37355	2.81208	15.9351	OK	2202.98	86.7477	34.4946	139.278	OK	215.767	8.60834	4.30881	12.9264	OK	0.040844	3.251002	-0.08202	1.028715	9.520265	-1.0585
RSc1810		polyketide synthase protein	1483.63	13.6867	5.68907	21.6473	OK	2481.23	22.9022	9.80035	36.0097	OK	135224	1225.47	166.749	2281.16	OK	2063.39	18.7556	10.7087	26.8428	OK	0.742712	6.484417	0.454547	1.673318	89.53729	1.370352
RSc1811		putative siderophore synthetase protein	1160.13	12.7519	5.38012	20.1086	OK	1713.95	18.8516	7.89369	29.7457	OK	55354.7	597.237	223.632	971.102	OK	977.3	10.5821	6.15162	15.015	OK	0.563975	5.549519	-0.26909	1.478337	46.83514	-1.20504
RSc1812		hypothetical protein	147.045	37.091	13.7451	47.2583	OK	146.279	37.4435	13.5906	49.266	OK	8110.58	1811.79	786.908	2441.62	OK	264.723	63.8394	27.5761	74.6534	OK	0.013646	5.610203	0.783378	1.009504	48.84716	1.721156
RSc1813		transcription regulator protein	229.187	19.6796	9.60366	29.6583	OK	234.599	20.2469	9.8155	30.5057	OK	3171.09	258.486	140.369	376.035	OK	203.982	17.0873	9.61333	24.521	OK	0.041	3.715313	-0.20378	1.028827	13.13472	-1.15171
RSc1814		hypothetical protein	134.875	17.3373	7.86799	26.6152	OK	140.759	18.2319	8.25654	28.1694	OK	220.076	26.3607	14.3737	37.7548	OK	148.68	18.5426	9.67827	26.8308	OK	0.072586	0.604509	0.096964	1.0516	1.520462	1.069521
RSc1815	***ripTAL1***	Type III effector protein, TAL family	2477.45	44.6168	19.3134	69.8453	OK	1679.91	30.2861	12.8699	47.6374	OK	2056.27	36.2339	20.7353	51.7363	OK	1856.69	32.9087	18.8487	46.9094	OK	-0.55893	-0.30025	-0.43912	-1.47318	-1.23136	-1.35578
RSc1816		putative transmembrane protein	991.79	223.976	78.8084	323.013	OK	72.6797	16.6322	6.33925	22.7637	OK	57.7977	11.6792	5.4009	15.7763	OK	45.3293	9.81453	3.97961	14.7814	OK	-3.75129	-4.26133	-4.51228	-13.4664	-19.1773	-22.8209
RSc1817		putative siderophore biosynthesis oxidoreductase protein	6655.54	349.325	47.385	651.104	OK	529.918	27.8998	7.14021	48.6369	OK	850.294	42.9962	17.1979	68.7001	OK	543.045	27.9263	11.2976	44.5499	OK	-3.64624	-3.02229	-3.64487	-12.5207	-8.12456	-12.5088
RSc1818	***metG2***	methionyl-tRNA synthetase	7038.87	341.09	59.6929	622.888	OK	512.438	24.9029	5.96065	43.841	OK	961.443	44.966	19.6006	70.4344	OK	611.039	29.0264	12.9108	45.1241	OK	-3.77577	-2.92325	-3.55471	-13.6968	-7.58551	-11.751
RSc1819		hypothetical protein	689.588	241.141	0	1058.16	OK	42.3198	15.0886	0	63.4637	OK	83.3621	24.9317	0	80.4517	OK	63.461	21.0373	0	63.648	OK	-3.99835	-3.27382	-3.51886	-15.9817	-9.67206	-11.4625
RSc1820		hypothetical protein	277.863	38.7325	17.2355	59.1374	OK	233.679	32.8434	14.4489	49.2296	OK	198.958	25.7224	13.8466	37.3655	OK	210.328	28.4057	14.5593	41.5399	OK	-0.23794	-0.59052	-0.44736	-1.17931	-1.50579	-1.36355
RSc1821		transcription regulator protein	389.414	88.8731	33.5059	128.657	OK	402.039	92.9905	34.3762	133.589	OK	331.225	67.5757	32.3382	94.1527	OK	290.107	63.4616	28.4747	76.4096	OK	0.065337	-0.39524	-0.48586	1.046329	-1.31516	-1.40042
RSc1822		maleate cis-trans isomerase protein	89.2408	9.6267	3.30914	15.8669	OK	88.3197	9.58831	3.47884	15.6972	OK	113.372	11.4986	5.60819	17.3268	OK	76.1532	7.99144	3.51558	12.3882	OK	-0.00576	0.256345	-0.26859	-1.004	1.194449	-1.20463
RSc1823		nitrilase protein	105.466	7.80701	2.44278	13.1022	OK	88.3197	6.5664	1.93305	11.2266	OK	110.038	7.77281	3.31996	12.2203	OK	84.3125	6.09792	2.74836	9.47461	OK	-0.24967	-0.00633	-0.35645	-1.18893	-1.0044	-1.28027
RSc1824		fumarylacetoacetate hydrolase family protein	211.947	17.1046	8.45263	25.6933	OK	149.959	12.1599	5.97051	18.2469	OK	262.313	20.1415	11.7136	28.4569	OK	143.241	11.2849	6.41934	16.0814	OK	-0.49225	0.235787	-0.59999	-1.40664	1.177549	-1.51571
RSc1825		putative dioxygenase oxidoreductase protein	145.016	9.54922	4.80183	14.2925	OK	82.7997	5.47355	2.71162	8.19135	OK	207.85	13.108	7.7464	18.4465	OK	117.856	7.59071	4.3469	10.8115	OK	-0.80291	0.456993	-0.33115	-1.74461	1.372678	-1.25801
RSc1826		salicylyl-CoA 5-hydroxylase	126.763	3.7847	1.9162	5.66529	OK	79.1197	2.36642	1.16638	3.55469	OK	194.512	5.65204	3.36972	7.94487	OK	134.175	3.93658	2.35607	5.50662	OK	-0.67747	0.578593	0.056764	-1.59934	1.493392	1.04013
RSc1827		putative 4-hydroxybenzoyl-COA thioesterase protein	15.2115	3.43521	0	8.80737	OK	12.88	2.94748	0	6.86528	OK	20.0069	4.0428	0	9.49731	OK	13.5988	2.94436	0	6.92852	OK	-0.22092	0.234957	-0.22244	-1.16547	1.176871	-1.16671
RSc1828		putative indolepyruvate oxidoreductase subunit E	102.424	4.88606	2.513	7.24085	OK	84.6397	4.04906	2.08707	6.00565	OK	72.2472	3.32751	1.89082	4.74806	OK	76.1532	3.5616	2.01688	5.08421	OK	-0.27108	-0.55423	-0.45615	-1.20671	-1.46838	-1.37187
RSc1829		putative indolepyruvate ferredoxin alpha subunit oxidoreductase	157.186	4.92597	2.52724	7.32027	OK	153.639	4.82376	2.49819	7.14598	OK	206.738	6.30127	3.86864	8.71159	OK	164.092	5.05232	3.09491	6.9922	OK	-0.03025	0.355235	0.036538	-1.02119	1.279194	1.02565
RSc1832		transcription regulator protein	939.057	69.7529	31.3556	108.149	OK	823.397	61.4308	27.9134	94.7552	OK	1003.68	71.1347	39.5143	102.614	OK	2346.24	170.274	92.9204	247.335	OK	-0.18329	0.0283	1.287533	-1.13547	1.01981	2.441103
RSc1833		putative signal peptide protein	90.2549	7.94052	3.88999	11.9581	OK	85.5597	7.56669	3.67388	11.4539	OK	125.599	10.48	5.96941	14.9235	OK	76.1532	6.53436	3.55322	9.45157	OK	-0.06957	0.400333	-0.28119	-1.0494	1.319813	-1.21519
RSc1834		putative transmembrane protein	720.011	32.0672	14.9788	49.1418	OK	264.959	11.8316	6.04761	17.5821	OK	286.766	12.3483	7.54635	17.1472	OK	226.646	9.90035	5.96596	13.8679	OK	-1.43845	-1.37679	-1.69555	-2.7103	-2.59689	-3.239
RSc1835		Cyclase family protein	319.442	32.6542	15.3684	49.6831	OK	181.239	18.6391	8.86327	28.3787	OK	276.762	26.6652	15.0807	37.8623	OK	216.674	21.5622	11.7918	31.1241	OK	-0.80894	-0.29231	-0.59876	-1.75192	-1.2246	-1.51442
RSc1836		flavin reductase domain-containing protein	322.484	53.2492	22.517	82.2513	OK	248.399	41.4192	17.3836	62.4176	OK	231.191	35.021	18.1848	49.4902	OK	150.493	23.9978	11.7395	32.5715	OK	-0.36246	-0.60454	-1.14986	-1.28562	-1.52049	-2.21892
RSc1837		putative oxygenase subunit protein	576.009	34.0637	16.2676	51.8914	OK	352.359	20.9105	10.3989	31.2996	OK	497.95	28.2863	16.505	40.0183	OK	333.624	19.3142	11.325	27.2714	OK	-0.70401	-0.26813	-0.81857	-1.62902	-1.20425	-1.76366
RSc1838		short chain dehydrogenase	228.173	23.436	11.1008	35.7511	OK	130.64	13.5	6.36664	20.4059	OK	195.623	18.9339	10.7094	26.8137	OK	152.306	15.2283	8.29373	22.1435	OK	-0.79577	-0.30775	-0.62197	-1.736	-1.23778	-1.53898
RSc1839	***ripS4, skwp4***	Type III effector protein, SKWP family	1712.81	14.5851	6.08579	23.076	OK	3548.43	30.231	12.8135	47.6109	OK	1548.31	12.9559	7.33595	18.5784	OK	1892.04	15.8761	8.99723	22.7398	OK	1.051533	-0.17089	0.122361	2.072732	-1.12575	1.088515
RSc1840		putative aminotransferase protein	37.5217	3.37017	1.53859	5.12863	OK	47.8398	4.31982	2.05145	6.44743	OK	68.9127	5.86564	3.18019	8.5287	OK	62.5544	5.4785	2.96336	8.02276	OK	0.35815	0.799467	0.70096	1.281781	1.740458	1.625586
RSc1843		probable transposase protein	479.669	23.5092	11.4752	35.4729	OK	282.439	13.8828	7.0684	20.6816	OK	413.476	19.5539	11.7077	27.4184	OK	372.607	17.9008	10.6316	25.008	OK	-0.75993	-0.26577	-0.3932	-1.6934	-1.20228	-1.3133

RSc1848		hypothetical protein	424.908	93.0303	35.4488	137.276	OK	713.917	158.332	56.7746	224.98	OK	751.37	147.604	68.8259	211.493	OK	391.645	82.275	37.1994	107.837	OK	0.76718	0.665959	-0.17725	1.70194	1.586623	-1.13072
RSc1849		putative transcription regulator protein	158.2	32.6439	12.9074	45.6513	OK	167.439	34.9734	13.8584	48.3687	OK	194.512	36.1966	17.8264	48.922	OK	134.175	26.6038	12.197	33.7763	OK	0.099445	0.149041	-0.29518	1.071361	1.108832	-1.22704
RSc1850		hypothetical protein	156.171	30.197	12.2297	42.4136	OK	122.36	23.931	9.62762	32.9161	OK	176.728	30.9815	15.5299	42.8678	OK	104.257	19.4005	8.98427	26.0544	OK	-0.33552	0.037002	-0.63831	-1.26184	1.025979	-1.55651
RSc1851		putative transcription regulator protein	1120.58	235.75	84.0791	349.94	OK	1754.43	373.704	129.903	548.922	OK	2116.29	400.864	187.88	597.984	OK	943.756	190.695	84.03	263.9	OK	0.664638	0.765855	-0.30599	1.585171	1.700378	-1.23627
RSc1852		multidrug resistance transmembrane protein	254.539	11.9045	6.10952	17.659	OK	398.359	18.6823	9.28981	28.0368	OK	432.371	19.5316	11.6825	27.3694	OK	297.36	13.6362	8.21494	18.9893	OK	0.650165	0.714303	0.195935	1.569348	1.64069	1.145466
RSc1853		multidrug resistance transmembrane protein	106.481	6.88495	3.50368	10.2886	OK	114.08	7.40453	3.72614	11.0672	OK	148.94	9.22799	5.43146	13.0026	OK	129.642	8.20015	4.71824	11.631	OK	0.104962	0.42257	0.252204	1.075466	1.340313	1.191025
RSc1854		putative outer membrane multidrug resistance lipoprotein	233.243	11.8649	5.99813	17.6787	OK	264.039	13.4719	6.85501	20.0689	OK	339.006	16.6262	10.0547	23.1348	OK	209.421	10.44	6.22859	14.6372	OK	0.183253	0.486759	-0.18458	1.135442	1.401293	-1.13648
RSc1855		hypothetical protein	2.0282	1.89533	0.290095	3.48113	OK	1.83999	1.78235	0	2.61085	OK	1.11149	0.778213	0	1.43089	OK	0	0	0	0	OK	-0.08867	-1.28421	NA	-1.06339	-2.43549	NA
RSc1856		signal peptide protein	5187.12	732.567	288.762	1167.03	OK	876.757	124.862	50.7496	196.85	OK	283.431	37.0967	19.9436	53.6626	OK	753.373	103.061	50.9898	146.39	OK	-2.55263	-4.3036	-2.82946	-5.86701	-19.7475	-7.10809
RSc1857		putative transcription regulator protein	1509.99	79.0607	34.8376	123.158	OK	1078.24	56.6294	25.4458	87.7186	OK	1931.78	97.4501	54.8599	139.979	OK	1339.93	68.7396	38.4293	99.0856	OK	-0.48141	0.301703	-0.20182	-1.39611	1.232598	-1.15015
RSc1858	***cyoA2***	transmembrane cytochrome O ubiquinol oxidase subunit I	121.692	9.43084	4.66956	14.1384	OK	89.2397	6.94761	3.43731	10.4417	OK	121.153	8.94585	5.18234	12.7319	OK	118.763	8.98863	5.05438	12.8599	OK	-0.44087	-0.07617	-0.06929	-1.35742	-1.05421	-1.0492
RSc1859	***cyoB2***	transmembrane cytochrome O ubiquinol oxidase subunit	352.907	12.522	6.38472	18.633	OK	317.399	11.2857	5.83094	16.711	OK	362.347	12.4813	7.61608	17.2888	OK	359.915	12.5402	7.61608	17.4495	OK	-0.14997	-0.0047	0.002095	-1.10955	-1.00326	1.001453
RSc1860	***cyoC2***	transmembrane cytochrome O ubiquinol oxidase (subunit III) oxidoreductase protein	68.9588	9.55043	4.0058	14.8934	OK	81.8797	11.4333	4.72479	17.872	OK	84.4736	10.855	5.47162	16.2122	OK	68.9005	9.24635	4.45836	13.8817	OK	0.259604	0.184722	-0.04668	1.19715	1.136598	-1.03289
RSc1861	***cyoD2***	transmembrane cytochrome O ubiquinol oxidase subunit IV	20.282	6.02905	0	12.485	OK	33.1199	10.0136	0.907036	19.3501	OK	34.4563	8.92011	2.32994	15.5329	OK	22.6646	6.41353	1.1319	11.885	OK	0.731958	0.565131	0.089188	1.660892	1.479522	1.063771
RSc1862	***cysI2***	sulfite reductase oxidoreductase protein	381.302	15.6209	5.38532	25.8867	OK	344.079	14.1301	5.31104	22.9155	OK	456.824	18.1233	9.04977	27.186	OK	412.497	16.5821	8.20708	24.9876	OK	-0.14471	0.214368	0.086149	-1.10551	1.160196	1.061533
RSc1863		hypothetical protein	244.398	45.2221	5.73607	85.301	OK	184.919	34.593	2.61899	66.7842	OK	258.978	43.5961	14.3088	72.8907	OK	277.415	49.4498	17.2904	81.4611	OK	-0.38655	-0.05283	0.128937	-1.30726	-1.0373	1.093487
RSc1872	***dnaQ***	DNA polymerase III subunit epsilon	2071.81	235.317	98.3241	372.006	OK	2262.27	258.683	107.688	406.459	OK	1930.67	205.663	108.675	302.843	OK	1411.55	155.85	80.0027	230.073	OK	0.13658	-0.19432	-0.59445	1.099296	-1.14419	-1.50989
RSc1873	***purU***	formyltetrahydrofolate deformylase	2185.39	199.631	86.1651	312.2	OK	2343.23	215.209	92.9989	336.787	OK	1484.96	128.46	69.3938	187.81	OK	1591.96	141.769	75.1827	207.742	OK	0.108403	-0.63602	-0.49379	1.078034	-1.55403	-1.40814
RSc1874		hypothetical protein	1145.93	114.951	49.1017	179.906	OK	559.358	56.4442	25.6322	87.2297	OK	337.894	31.9733	18.1745	45.6732	OK	363.541	35.5102	19.5968	51.3626	OK	-1.02612	-1.84608	-1.69471	-2.03654	-3.59522	-3.23713
RSc1875		hypothetical protein	2209.72	614.745	197.136	815.582	OK	2058.03	581.787	183.535	761.177	OK	2057.38	501.943	217.268	693.513	OK	1907.46	506.029	201.426	642.752	OK	-0.0795	-0.29246	-0.28077	-1.05665	-1.22473	-1.21484
RSc1876		hypothetical protein	1502.9	256.035	96.2437	408.111	OK	1925.55	331.365	124.389	519.382	OK	1747.27	272.474	134.24	396.602	OK	1280.1	210.465	98.2387	311.658	OK	0.37208	0.089778	-0.28276	1.294218	1.064206	-1.21652
RSc1877		putative aspartyl/asparaginyl BETA-hydroxylase transmembrane protein	4693.26	407.892	175.872	639.303	OK	4467.5	390.271	167.457	611.916	OK	4651.61	383.596	206.636	559.613	OK	4718.78	400.034	211.35	588.388	OK	-0.06371	-0.0886	-0.02806	-1.04515	-1.06334	-1.01964
RSc1878		putative lipoprotein	14201.5	2073.86	736.393	3402.25	OK	4096.74	603.449	237.632	968.471	OK	3601.24	486.376	245.487	720.657	OK	4165.76	588.894	283.627	854.779	OK	-1.78101	-2.09217	-1.81624	-3.43668	-4.2639	-3.52162
RSc1879		putative amino acids-binding transmembrane protein	2207.7	143.613	63.8979	223.391	OK	1871.27	122.197	53.8352	190.24	OK	1720.59	107.231	59.8366	154.527	OK	1950.97	124.145	68.2744	180.061	OK	-0.23298	-0.42146	-0.21016	-1.17526	-1.33929	-1.15682
RSc1880		transcription regulator protein	205.862	16.3071	1.32105	31.2427	OK	229.079	18.2313	2.17973	34.3472	OK	200.069	15.0886	2.60642	27.6281	OK	145.054	11.2191	2.73675	19.6785	OK	0.160917	-0.11204	-0.53954	1.117998	-1.08076	-1.45351
RSc1881		putative transmembrane oxidoreductase protein	201.806	9.60565	0.297562	19.0015	OK	218.039	10.4075	0.722651	20.0642	OK	240.083	11.0336	2.22256	19.8772	OK	136.894	6.3883	1.38386	11.3644	OK	0.115668	0.199948	-0.58845	1.083477	1.148657	-1.50363
RSc1882	***dppB2***	peptide ABC transporter transmembrane protein	67.9447	5.30385	0	14.1591	OK	80.9597	6.34904	0	16.1818	OK	161.167	11.984	1.15863	22.7864	OK	67.0874	5.1141	0.128737	10.1058	OK	0.259498	1.175998	-0.05256	1.197063	2.259491	-1.0371
RSc1883	***dppC2***	peptide ABC transporter transmembrane protein	113.579	9.45033	0	20.9854	OK	82.7997	6.92329	0	16.5819	OK	143.383	11.3384	0.746632	21.9238	OK	94.2849	7.65588	1.01813	14.2539	OK	-0.44891	0.26278	-0.3038	-1.36501	1.199789	-1.23439
RSc1884	***dppD2***	oligopeptide ATP-binding ABC transporter protein	131.833	10.1435	0	21.467	OK	119.6	9.24417	0	20.2422	OK	216.741	15.8932	3.05257	28.745	OK	106.071	7.97104	1.20831	14.6905	OK	-0.13394	0.647854	-0.34772	-1.09729	1.566836	-1.27254
RSc1885	***dppF2***	oligopeptide ATP-binding ABC transporter protein	100.396	7.69708	0	21.2368	OK	101.2	7.79393	0	21.4103	OK	127.822	9.34058	0.219225	21.9225	OK	97.9113	7.33186	0	15.2012	OK	0.01804	0.279201	-0.07013	1.012583	1.213523	-1.04981
RSc1886	***dppA2***	periplasmic dipeptide transport protein precursor	340.738	15.497	7.87667	23.0995	OK	385.479	17.579	8.81534	26.2828	OK	923.652	40.5984	23.3513	57.8146	OK	485.93	21.6734	12.8029	30.558	OK	0.181864	1.389434	0.483937	1.134349	2.619759	1.398555
RSc1887		putative acyl coenzyme A thioester hydrolase protein	278.878	10.2863	3.44282	17.1466	OK	219.879	8.12786	3.10529	13.13	OK	423.48	15.1539	7.15896	23.1417	OK	220.3	7.97761	3.86251	12.087	OK	-0.33978	0.558965	-0.3667	-1.26556	1.473212	-1.2894
RSc1888		hypothetical protein	226.144	33.712	6.26107	61.1199	OK	129.72	19.5092	3.0079	36.0948	OK	362.347	49.8924	19.2769	80.5499	OK	198.542	28.6405	12.2616	45.1515	OK	-0.78911	0.565558	-0.23521	-1.72801	1.47996	-1.17707
RSc1889	***iorB2***	transmembrane isoquinoline 1-oxidoreductase subunit beta oxidoreductase protein	2532.21	76.3466	29.8744	122.833	OK	1283.4	38.7635	14.4888	63.1118	OK	1433.83	42.0676	21.2601	62.8957	OK	2005.37	59.4121	30.6046	88.137	OK	-0.97787	-0.85985	-0.36181	-1.96955	-1.81486	-1.28503
RSc1890	***iorA2***	isoquinoline 1-oxidoreductase alpha subunit	657.137	138.25	0.631146	328.406	OK	382.719	81.5211	0.852021	193.196	OK	561.305	106.322	18.563	196.048	OK	719.829	145.449	21.6204	271.366	OK	-0.76203	-0.37884	0.073234	-1.69588	-1.3003	1.052072
RSc1891		hypothetical protein	53.7473	21.9272	6.4806	23.0871	OK	24.8399	10.3577	2.83526	10.936	OK	51.1288	17.5143	6.5929	19.5789	OK	38.0766	14.6721	4.79484	16.3824	OK	-1.08202	-0.32419	-0.57965	-2.117	-1.25196	-1.49448
RSc1892		two-component system response regulator transcription regulator protein	3552.39	407.799	170.845	643.386	OK	254.839	29.4537	13.6284	45.0718	OK	190.066	20.4524	11.3355	29.5251	OK	189.476	21.1405	11.4234	30.6674	OK	-3.79134	-4.31752	-4.26978	-13.8454	-19.9389	-19.2899
RSc1893		hypothetical protein	2647.82	118.418	53.5067	183.233	OK	2879.59	129.124	58.3709	199.916	OK	3336.71	144.267	81.9328	206.26	OK	4322.6	189.602	105.767	272.964	OK	0.124869	0.284853	0.679086	1.090409	1.218286	1.601125
RSc1894		methyl-accepting chemotaxis transducer transmembrane protein	577.023	25.699	12.4156	38.969	OK	1087.44	48.5588	21.8675	75.2146	OK	496.838	21.3941	12.6826	30.0274	OK	376.233	16.4346	9.83791	22.9946	OK	0.918021	-0.2645	-0.64498	1.889521	-1.20122	-1.56371
RSc1895		putative transcription regulator protein	3804.9	410.448	173.178	647.658	OK	1127.92	122.451	51.6735	193.203	OK	1383.81	140.35	74.2458	205.829	OK	793.263	83.2442	43.9448	121.539	OK	-1.74499	-1.54817	-2.30178	-3.35194	-2.92446	-4.93065
RSc1896		putative integrase prophage protein	728.124	43.6607	5.00202	82.2728	OK	528.078	31.7777	4.7936	58.7737	OK	562.416	32.3827	9.66338	55.1018	OK	562.083	32.9911	9.20077	56.7981	OK	-0.45832	-0.43111	-0.40426	-1.37394	-1.34827	-1.32341
RSc1897		hypothetical protein	811.28	818.76	80.2031	904.595	OK	321.999	337.294	17.8892	585.274	OK	771.377	576.591	116.18	609.139	OK	951.009	896.263	153.829	729.143	OK	-1.27943	-0.50589	0.130482	-2.42744	-1.42	1.094659
RSc1898		phage-like protein	623.672	15.7695	0.530985	33.1486	OK	661.478	16.7504	0.83565	32.6663	OK	473.497	11.676	1.67681	21.6753	OK	411.59	10.2328	0.497231	20.0881	OK	0.087059	-0.43359	-0.62394	1.062202	-1.35059	-1.54107
RSc1899		hypothetical protein	9.1269	10.435	1.24446	7.46678	OK	17.4799	20.7868	2.80004	14.3113	OK	5.55747	4.61766	0.613832	4.91065	OK	6.3461	6.7735	0.613832	5.21757	OK	0.994237	-1.1762	-0.62346	1.992027	-2.2598	-1.54056
RSc1900		hypothetical protein	4.0564	2.99004	0	5.89694	OK	8.27997	6.30097	0.760989	12.1758	OK	4.44598	2.54197	0	5.14571	OK	3.62634	2.50082	0	4.82737	OK	1.075409	-0.23422	-0.25776	2.10732	-1.17627	-1.19562
RSc1907		putative DNA-binding repressor transcription regulator protein	282.934	50.6092	20.8501	75.628	OK	256.679	46.4015	18.8762	70.8164	OK	154.498	25.2065	12.7793	35.417	OK	150.493	25.9519	12.4142	34.4434	OK	-0.12523	-1.0056	-0.96356	-1.09068	-2.00778	-1.95012
RSc1908		signal peptide protein	831.562	993.886	147.112	589.395	OK	142.599	177.403	27.1494	93.7603	OK	106.703	92.0505	22.4229	64.7773	OK	131.455	146.665	27.7172	76.9231	OK	-2.48605	-3.43258	-2.76056	-5.60242	-10.7972	-6.77657
RSc1910		hypothetical protein	24167	3990.51	1294.67	6641.7	OK	281.519	46.9417	19.6003	73.9678	OK	242.306	36.7047	19.1055	51.5619	OK	260.19	41.4902	20.3715	58.4675	OK	-6.40956	-6.76446	-6.58766	-85.0099	-108.719	-96.1796
RSc1911		putative DNA-methyltransferase protein	54.7614	17.7313	3.93562	30.5905	OK	25.7599	8.49426	1.25224	15.5636	OK	8.89196	2.4841	0	4.94135	OK	17.2251	5.29758	0.52943	10.0592	OK	-1.06174	-2.8355	-1.74289	-2.08744	-7.13792	-3.34706
RSc1912		phage-related protein	95.3254	6.37488	2.57604	10.1324	OK	95.6796	6.4239	2.86227	9.96069	OK	156.721	10.0329	5.87314	14.1746	OK	141.427	9.24951	5.139	13.3275	OK	0.011051	0.654269	0.536979	1.00769	1.573818	1.450931
RSc1913		phage-like tail protein	12.1692	2.99951	0	8.87341	OK	14.7199	3.68074	0	9.50195	OK	21.1184	4.62008	0	9.84466	OK	24.4778	5.77163	0	11.7895	OK	0.295269	0.623191	0.944252	1.227114	1.540278	1.924191
RSc1914		phage-related tail transmembrane protein	120.678	3.10622	1.47465	4.73821	OK	133.4	3.43889	1.54717	5.3184	OK	108.926	2.73377	1.55013	3.93495	OK	114.23	2.89084	1.64553	4.14959	OK	0.146783	-0.18427	-0.10367	1.107098	-1.13624	-1.0745
RSc1916		phage-related protein	29.4089	9.6658	0	20.7062	OK	43.2398	14.4762	0.334789	28.7919	OK	34.4563	9.75448	1.98168	17.552	OK	36.2634	11.3164	2.4965	20.284	OK	0.582722	0.013176	0.227454	1.497672	1.009175	1.170767
RSc1917		phage major tail tube-like protein	97.3536	18.0138	7.45031	26.2655	OK	95.6796	17.8988	7.32403	25.7604	OK	87.8081	14.7815	7.22516	21.1772	OK	96.0981	17.1297	7.97259	23.2949	OK	-0.00924	-0.28531	-0.0726	-1.00643	-1.21867	-1.05161
RSc1918		phage tail sheath-like protein	34.4794	2.18984	1.04049	3.28576	OK	30.3599	1.93545	0.930967	2.90243	OK	33.3448	2.03033	1.02645	3.02531	OK	32.6371	2.02803	1.02645	3.02531	OK	-0.17816	-0.10911	-0.11075	-1.13144	-1.07856	-1.07979
RSc1919		hypothetical protein	26.3666	5.60183	1.38497	9.69477	OK	21.1599	4.55221	1.10797	7.89431	OK	24.4529	4.67363	1.77615	7.51449	OK	25.3844	5.17857	1.77615	8.33425	OK	-0.29933	-0.26135	-0.11334	-1.23057	-1.1986	-1.08173
RSc1920		putative tail fiber assembly-like protein	48.6768	5.30424	1.96143	8.71748	OK	40.4799	4.43955	1.53542	7.23842	OK	18.8954	1.93496	0.614422	3.27692	OK	27.1976	2.88265	1.05989	4.76952	OK	-0.25673	-1.45484	-0.87975	-1.19477	-2.74127	-1.84006
RSc1921		putative tail fiber-related protein	191.665	8.21248	4.21604	12.184	OK	139.839	6.00703	3.09434	8.93491	OK	162.278	6.72786	4.08281	9.34849	OK	151.4	6.36402	3.81571	8.89061	OK	-0.45117	-0.28767	-0.36788	-1.36714	-1.22067	-1.29045
RSc1922		tail formation-like protein	14.1974	2.00507	0.208417	3.75151	OK	13.7999	1.96531	0.312626	3.5431	OK	8.89196	1.16382	0.102802	2.15884	OK	6.3461	0.868142	0	1.74763	OK	-0.0289	-0.78478	-1.20765	-1.02023	-1.72284	-2.30961
RSc1923		baseplate assembly-like protein	62.8742	5.42052	2.32773	8.535	OK	45.9998	3.986	1.6464	6.32564	OK	46.6828	3.81996	1.96387	5.72797	OK	88.8454	7.47204	4.12098	10.765	OK	-0.44349	-0.50487	0.463071	-1.35989	-1.419	1.378473
RSc1924		phage baseplate assembly-like protein	33.4653	11.5185	2.03566	20.9118	OK	11.96	4.19614	0.18506	8.14265	OK	11.1149	3.27797	0.547686	5.84199	OK	21.7581	7.10226	1.27793	12.7793	OK	-1.45682	-1.81308	-0.6976	-2.74502	-3.51391	-1.62181
RSc1925		phage baseplate assembly-like protein	89.2408	12.6033	5.08421	20.0544	OK	89.2397	12.709	5.98139	19.5107	OK	63.3552	8.29219	4.45006	12.1722	OK	113.323	15.5025	8.48155	22.5719	OK	0.012049	-0.60398	0.298699	1.008387	-1.5199	1.230035
RSc1929		tail completion-like protein	385.358	90.8328	30.3499	141.682	OK	115	27.483	8.14265	44.2664	OK	201.181	42.2658	17.9641	60.1725	OK	229.366	51.778	20.8851	72.5867	OK	-1.72467	-1.10372	-0.81087	-3.30505	-2.14909	-1.75427
RSc1930		signal peptide protein	53.7473	10.2088	0	20.3101	OK	39.5599	7.59886	1.02836	14.2685	OK	34.4563	5.94204	0.507238	11.2861	OK	48.0491	8.7867	1.39491	16.1048	OK	-0.42596	-0.78078	-0.21642	-1.34346	-1.71806	-1.16185
RSc1931		putative phage-related protein (hydrolase)	86.1985	8.60654	0.319212	16.9182	OK	69.9197	7.02252	1.67586	12.2897	OK	88.9196	8.3766	2.83412	13.8557	OK	86.1257	8.37401	2.59795	14.0919	OK	-0.29344	-0.03907	-0.03951	-1.22556	-1.02745	-1.02777
RSc1932		putative phage-related transmembrane protein	2.0282	0.842945	0	2.04448	OK	0.919997	0.390924	0	1.22669	OK	NA	NA	0	0.403375	OK	0.906586	0.355734	0	1.21013	OK	-1.10855	NA	-1.24464	-2.15629	NA	-2.36959
RSc1933		phage-like transmembrane protein	4.0564	1.07331	0	6.35032	OK	0.919997	0.247186	0	1.34341	OK	4.44598	1.03692	0	4.66452	OK	0.906586	0.229049	0	1.26325	OK	-2.1184	-0.04976	-2.22834	-4.34211	-1.03509	-4.68594
RSc1934		bacteriophage protein	3.0423	3.47833	0	4.66674	OK	2.75999	3.28212	0	3.73339	OK	4.44598	3.69413	0.306916	4.91065	OK	1.81317	1.93529	0	3.37608	OK	-0.08377	0.08684	-0.84585	-1.05978	1.062041	-1.79732
RSc1935		bacteriophage protein	13.1833	2.66911	1.01231	4.45416	OK	9.19997	1.88502	0.614683	3.27831	OK	4.44598	0.813061	0	1.64588	OK	12.6922	2.47032	0.973165	4.08729	OK	-0.50178	-1.71492	-0.11166	-1.41596	-3.28279	-1.08047
RSc1936		bacteriophage protein	42.5922	4.8894	0.267224	9.44192	OK	30.3599	3.50893	0.267224	6.6806	OK	36.6793	3.94696	0.351489	7.46914	OK	42.6095	4.75409	0.79085	8.78722	OK	-0.47863	-0.30892	-0.04049	-1.39342	-1.23878	-1.02846
RSc1937		bacteriophage protein	242.37	18.2559	7.60755	28.9238	OK	170.199	12.877	5.82569	20.0494	OK	276.762	19.8814	11.4219	28.375	OK	259.284	19.0785	10.8901	27.2988	OK	-0.50357	0.123057	0.063585	-1.41771	1.08904	1.045059
RSc1938		bacteriophage protein	121.692	11.559	5.59675	17.4036	OK	106.72	10.1939	4.90674	15.2569	OK	135.602	12.1784	6.88259	17.3956	OK	124.202	11.4956	6.27753	16.488	OK	-0.18131	0.075308	-0.00793	-1.13391	1.053586	-1.00552
RSc1939		probable terminase (atpase subunit) related protein	26.3666	1.24947	0.296388	2.20174	OK	20.2399	0.961823	0.211706	1.73599	OK	8.89196	0.406885	0.04177	0.793623	OK	5.43952	0.252726	0	0.501235	OK	-0.37747	-1.61862	-2.30567	-1.29906	-3.07082	-4.94397
RSc1940		terminase (ATPase subunit) related protein	4.0564	2.33005	0	4.53192	OK	6.43998	3.80269	0	7.39419	OK	14.4494	6.66605	1.41181	11.2945	OK	5.43952	2.93202	0.235302	5.41195	OK	0.706659	1.516471	0.331534	1.632021	2.860904	1.258351
RSc1941		bacteriophage protein	51.7191	3.6047	1.32425	5.8546	OK	37.7199	2.63983	0.839822	4.40907	OK	28.8989	1.92572	0.733003	3.06529	OK	28.1042	1.91492	0.817639	2.99801	OK	-0.44943	-0.90448	-0.9126	-1.3655	-1.87187	-1.88243
RSc1942		hypothetical protein	507.05	15.7068	0	41.8707	OK	211.599	6.56666	0.402327	12.7595	OK	215.63	6.49748	1.30408	11.7084	OK	188.57	5.73923	1.10564	10.3476	OK	-1.25816	-1.27344	-1.45246	-2.3919	-2.41737	-2.73674
RSc1943		hypothetical protein	527.332	45.2806	0.070615	107.335	OK	158.239	13.6567	0.776766	26.4807	OK	150.052	12.2312	2.02019	22.5008	OK	155.026	12.9864	2.57749	23.4064	OK	-1.72928	-1.88833	-1.80189	-3.31563	-3.70206	-3.48677
RSc1944		putative VGR-related protein	3254.25	86.0329	24.7451	147.149	OK	389.159	10.3043	2.3301	18.4554	OK	507.953	13.0896	5.77231	20.3835	OK	491.37	12.7709	5.84787	19.7008	OK	-3.06164	-2.71647	-2.75203	-8.34922	-6.57261	-6.73664
RSc1949		glycine-rich transmembrane protein	1.0141	3.65251	0	3.78829	OK	0.919997	3.51392	0	2.10461	OK	NA	NA	0	0	OK	0.906586	3.02408	0	2.0762	OK	-0.05581	NA	-0.27239	-1.03944	NA	-1.20781
RSc1950		methyl-accepting chemotaxis transducer transmembrane protein	283.948	22.085	0	47.3575	OK	151.799	11.8611	0	25.1099	OK	163.39	12.1068	1.9252	22.2681	OK	132.362	10.0538	2.24607	17.8402	OK	-0.89683	-0.86725	-1.13533	-1.86197	-1.82418	-2.19668

RSc1951		solute:Na+ symporter permease transmembrane protei	1390.33	47.0018	15.8213	78.1599	OK	783.837	26.5515	9.1459	44.0358	OK	765.82	25.1518	13.0387	37.244	OK	531.259	17.6395	9.29691	25.9981	OK	-0.82392	-0.90205	-1.41391	-1.77021	-1.86873	-2.66458
RSc1952		acetyl-CoA synthetase	14420.5	509.99	195.411	824.352	OK	7371.01	261.225	109.608	412.42	OK	12019.7	412.684	222.857	602.605	OK	8474.76	294.31	162.113	426.716	OK	-0.96518	-0.30543	-0.79313	-1.9523	-1.23579	-1.73283
RSc1953		hypothetical protein	411.725	31.2312	15.097	47.3293	OK	419.518	31.9654	15.4155	48.2848	OK	215.63	15.5957	9.11185	22.057	OK	280.135	20.7571	11.9397	29.0951	OK	0.033523	-1.00184	-0.58938	1.023509	-2.00255	-1.5046
RSc1954		hypothetical protein	1107.4	188.658	72.153	299.584	OK	1118.72	192.518	72.7493	302.804	OK	1081.48	168.65	83.1793	236.361	OK	950.102	156.209	73.2966	230.361	OK	0.02922	-0.16174	-0.2723	1.02046	-1.11864	-1.20773
RSc1955	***fumA***	fumarate hydratase protein	5818.91	275.141	120.181	431.284	OK	11521.1	546.287	217.417	873.766	OK	1034.8	47.2491	26.8467	67.2001	OK	6977.99	323.495	178.13	468.775	OK	0.989488	-2.54181	0.233572	1.98548	-5.8232	1.175743
RSc1956		glutamate racemase	402.598	38.5825	18.1466	58.3779	OK	641.238	61.8015	27.799	95.6748	OK	135.602	12.2826	6.9321	17.5207	OK	320.025	29.8813	16.6066	43.1162	OK	0.679695	-1.65133	-0.3687	1.601801	-3.14123	-1.29119
RSc1957		putative glutamate symport transmembrane protei	4428.57	253.514	112.139	394.913	OK	8305.73	477.072	200.359	753.547	OK	9788.93	538.726	291.791	786.074	OK	5977.12	335.037	183.141	486.483	OK	0.912142	1.087486	0.402255	1.881837	2.125035	1.321572
RSc1958		hypothetical protein	367.104	130.453	41.0509	157.425	OK	421.358	152.703	46.8884	170.041	OK	513.511	155.777	64.2747	190.037	OK	454.2	152.946	57.0298	168.117	OK	0.227198	0.255952	0.229492	1.17056	1.194124	1.172422
RSc1959		hypothetical protein	2600.15	209.839	89.2893	329.854	OK	2201.55	178.52	75.9395	280.547	OK	3714.62	285.224	155.586	413.75	OK	3969.03	312.691	169.153	456.104	OK	-0.2332	0.442813	0.575455	-1.17544	1.359252	1.490147
RSc1960		putative transcriptional regulatory DNA-binding transcription regulator protein	212.961	69.9937	0	227.768	OK	310.959	104.106	0	295.953	OK	434.594	123.032	0.283097	297.252	OK	507.688	158.43	0.312062	375.723	OK	0.572756	0.813737	1.178549	1.487362	1.757758	2.263489
RSc1961		putative ATPase protein	2691.42	80.4688	35.6486	125.215	OK	1992.71	59.6838	26.1942	93.0978	OK	2317.47	67.4325	38.6511	96.2026	OK	2911.05	85.5264	48.3071	122.592	OK	-0.43109	-0.25499	0.08794	-1.34825	-1.19332	1.062852
RSc1962		putative transmembrane protein	7.0987	58.923	1.46366	8.78195	OK	7.35997	65.7874	1.46366	9.26984	OK	73.3587	309.214	23.1024	70.2698	OK	25.3844	187.903	7.2195	25.5089	OK	0.15898	2.391703	1.673085	1.116498	5.247764	3.188958
RSc1963	***tonB***	TONB transmembrane protein	810.266	103.534	43.7076	163.13	OK	1541.91	198.519	79.9694	316.493	OK	3852.44	458.849	236.956	671.47	OK	1852.15	229.639	115.139	341.22	OK	0.939172	2.147915	1.149263	1.917428	4.431868	2.218006
RSc1964	***exbB1***	biopolymer transport transmembrane protei	3912.4	442.035	184.933	698.997	OK	6877.89	782.296	312.415	1247.46	OK	29008.9	3074.69	1422	4719.74	OK	11802.8	1296.39	639.742	1949	OK	0.823554	2.798208	1.552267	1.76976	6.955761	2.932777
RSc1965	***exbD1***	biopolymer transport transmembrane protei	1210.84	309.034	102.202	428.095	OK	2252.15	583.392	191.025	788.523	OK	8049.45	1817.3	786.012	2433.54	OK	4171.2	1017.48	413.723	1347.21	OK	0.9167	2.555959	1.719163	1.887792	5.880583	3.292453
RSc1966	***hemP***	putative hemin uptake protei	553.699	295.79	73.8649	281.379	OK	852.837	467.757	110.105	442.497	OK	2951.02	1278.57	436.979	1409.54	OK	373.513	187.458	57.8388	169.19	OK	0.661186	2.111886	-0.65801	1.581382	4.32256	-1.5779
RSc1967	***glcG***	GLCG protein	4079.72	1041.24	346.116	1423.36	OK	2104.95	545.262	177.958	738.589	OK	1264.88	285.568	126.91	401.446	OK	1326.34	323.533	132.281	421.856	OK	-0.93328	-1.8664	-1.68632	-1.90961	-3.64621	-3.21834
RSc1968		hypothetical protein	662.207	67.0541	29.7794	103.542	OK	329.359	33.5507	15.8178	51.2464	OK	228.968	21.8615	12.4197	31.2085	OK	212.141	20.9146	11.4643	30.2531	OK	-0.99898	-1.61693	-1.68082	-1.99859	-3.06722	-3.20609
RSc1969		hypothetical protein	1645.88	659.325	178.156	750.743	OK	1285.24	526.067	139.636	586.631	OK	3035.49	1023.3	391.085	1258.36	OK	4106.83	1554.52	525.274	1708.82	OK	-0.32574	0.634167	1.237407	-1.25331	1.552042	2.357745
RSc1970		hypothetical protein	65.9165	50.1292	10.7335	37.2989	OK	22.9999	18.0675	3.48839	13.6852	OK	23.3414	13.707	3.44129	15.6182	OK	19.0383	13.5419	2.64715	11.6475	OK	-1.47225	-1.87074	-1.88822	-2.77455	-3.6572	-3.70178
RSc1972	***phaP***	putative phasin protein	2632.6	513.656	189.276	772.419	OK	1214.4	239.691	86.2607	361.405	OK	1630.56	288.234	137.264	437.877	OK	1674.46	314.351	141.267	449.241	OK	-1.09963	-0.83356	-0.70843	-2.14299	-1.78208	-1.63402
RSc1973	***osmB1***	putative osmotically inducible lipoprotein B1 transmembran	790.998	989.824	141.938	567.754	OK	191.359	249.439	37.1667	130.724	OK	110.038	98.6817	23.0737	67.9567	OK	104.257	121.779	22.1254	64.1638	OK	-1.98848	-3.32632	-3.02291	-3.9682	-10.0305	-8.12804
RSc1974		lipooligosaccharide transporter ATP-binding subuni	3026.07	242.389	107.668	374.872	OK	2506.99	201.763	89.068	314.071	OK	2034.04	155.058	84.9719	224.531	OK	1704.38	133.284	71.7526	194.541	OK	-0.26466	-0.64452	-0.86282	-1.20136	-1.56322	-1.81859
RSc1975		putative transmembrane permease ABC transporter protei	1817.27	176.52	75.4077	276.963	OK	1564.91	152.883	64.7913	240.977	OK	1369.36	125.646	67.613	183.356	OK	1078.84	102.083	54.0596	149.473	OK	-0.2074	-0.49047	-0.79009	-1.15461	-1.4049	-1.72918
RSc1976	***purF***	amidophosphoribosyltransferase	7467.83	350.025	148.173	551.853	OK	13702.4	644.026	251.147	1037.42	OK	11002.7	498.088	269.099	727.098	OK	11984.2	550.756	296.439	802.583	OK	0.879661	0.508943	0.653955	1.839943	1.423007	1.573476
RSc1977	***cvpA***	colicin V production transmembrane protei	630.77	120.877	46.5549	180.271	OK	761.757	147.641	55.2193	220.36	OK	741.367	128.899	62.511	190.467	OK	570.243	105.188	48.3504	146.837	OK	0.288554	0.092701	-0.20057	1.221415	1.066365	-1.14915
RSc1978		hypothetical protein	1465.37	142.986	60.562	224.542	OK	1982.59	194.574	82.9692	305.552	OK	1098.16	101.2	54.8752	147.467	OK	885.734	84.1874	44.9049	123.199	OK	0.444445	-0.49866	-0.7642	1.360791	-1.41291	-1.69843
RSc1979	***folC***	bifunctional folylpolyglutamate synthase/dihydrofolate synthas	1448.13	82.0236	36.2906	127.81	OK	2521.71	143.31	64.4506	221.809	OK	1975.13	107.581	60.3526	154.207	OK	2057.04	114.096	63.4338	164.82	OK	0.805028	0.391312	0.476137	1.74718	1.311586	1.391014
RSc1980	***accD***	acetyl-CoA carboxylase subunit beta	8383.57	759.361	305.628	1211.23	OK	9936.88	904.888	357.414	1451.57	OK	10065.7	863.705	452.217	1272.82	OK	8478.39	748.728	387.375	1110.17	OK	0.252953	0.185753	-0.02034	1.191644	1.13741	-1.0142
RSc1981	***trpA***	tryptophan synthase subunit alpha	1140.86	115.522	49.1481	181.662	OK	2075.51	211.425	89.661	332.9	OK	1433.83	136.9	73.1648	200.148	OK	1659.05	163.563	85.6642	241.468	OK	0.871978	0.244955	0.501679	1.830171	1.185056	1.41586
RSc1982		DNA-methyltransferase (DNA-modification methylase) protei	965.423	95.5049	41.5874	149.318	OK	1871.27	186.202	79.0556	291.824	OK	1060.37	99.01	53.4509	144.021	OK	1301.86	125.428	65.7978	184.578	OK	0.963222	0.051999	0.393213	1.949659	1.036701	1.313315
RSc1983	***trpB***	tryptophan synthase subunit beta	3261.35	200.031	88.7373	310.102	OK	6332.34	389.797	168.229	609.896	OK	2533.1	149.093	83.5556	214.498	OK	4105.93	246.459	135.503	355.976	OK	0.962499	-0.42401	0.301124	1.948683	-1.34165	1.232104
RSc1984	***trpF***	N-(5'-phosphoribosyl)anthranilate isomerase	1435.97	174.156	71.2779	276.748	OK	1437.95	175.653	71.5567	279.257	OK	1344.91	152.469	79.7583	224.515	OK	1262.87	148.74	75.2661	215.531	OK	0.012348	-0.19186	-0.22759	1.008596	-1.14224	-1.17088
RSc1985	***truA***	tRNA pseudouridine synthase A	475.613	46.1986	21.467	70.724	OK	513.358	50.1522	23.0282	77.2031	OK	316.776	29.0658	16.5567	40.3522	OK	308.239	29.1667	16.1717	41.9694	OK	0.118464	-0.66853	-0.66353	1.085578	-1.58945	-1.58395
RSc1986		hypothetical protein	32034.4	756.525	248.955	1262.74	OK	42232.4	998.752	329.094	1668.47	OK	28408.7	654.784	308.576	1001.35	OK	23115.2	536.864	264.242	809.264	OK	0.400739	-0.20837	-0.49483	1.320184	-1.15538	-1.40916
RSc1987	***asd***	aspartate-semialdehyde dehydrogenase	6380.72	436.223	187.195	684.552	OK	10810	742.022	298.73	1185	OK	18044	1180.11	602.399	1756.9	OK	8666.96	579.353	308.22	850.138	OK	0.766396	1.435784	0.409377	1.701015	2.705291	1.328112
RSc1988	***leuB1***	3-isopropylmalate dehydrogenase	5229.71	362.147	158.349	565.16	OK	6726.1	467.678	199.042	736.601	OK	3414.51	226.109	125.492	325.978	OK	5418.66	366.849	198.274	534.084	OK	0.36894	-0.67956	0.018611	1.291404	-1.60165	1.012984
RSc1989	***leuD***	isopropylmalate isomerase small subuni	3871.83	509.912	207.053	805.062	OK	4392.98	583.073	235.049	926.642	OK	2150.74	263.579	137.31	386.459	OK	3697.06	472.201	233.828	701.873	OK	0.193428	-0.95201	-0.11085	1.143478	-1.93457	-1.07986
RSc1990	***leuC***	isopropylmalate isomerase large subuni	7106.81	366.734	155.156	577.965	OK	9544.96	494.053	202.384	785.829	OK	3461.19	172.142	96.4238	247.007	OK	6270.85	317.091	174.013	458.239	OK	0.429932	-1.09113	-0.20984	1.34717	-2.13042	-1.15656
RSc1991	***gltA***	type II citrate synthase	20450.3	1155.28	430.725	1875.74	OK	40564.5	2299.22	805.26	3792.54	OK	32340.1	1756.98	821.08	2691.46	OK	36161.9	2000.52	914.718	3085.48	OK	0.992902	0.604855	0.792132	1.990184	1.520826	1.731632
RSc1992		hypothetical protein	389.414	194.31	51.655	198.346	OK	617.318	315.886	78.7123	305.681	OK	253.421	103.488	38.1631	103.459	OK	634.61	297.849	93.0914	283.024	OK	0.701044	-0.9089	0.616221	1.625681	-1.87761	1.532855
RSc1993	***sdhB***	succinate dehydrogenase iron-sulfur subuni	7128.11	850.097	337.325	1360.22	OK	13009.7	1562.52	578.783	2546.77	OK	4510.45	503.256	261.909	744.188	OK	11423.9	1323.41	649.525	1987.22	OK	0.878175	-0.75634	0.638561	1.838049	-1.68919	1.556775
RSc1994	***sdhA***	succinate dehydrogenase flavoprotein subuni	19596.5	780.475	286.021	1274.41	OK	35572.6	1420.09	488.419	2349.93	OK	14336.1	553.202	290.017	814.804	OK	30122.2	1177.37	559.285	1792.92	OK	0.863558	-0.49655	0.593143	1.81952	-1.41083	1.50853
RSc1995	***sdhD***	putative transmembrane succinate dehydrogenase (hydrophobic membrane anchor subunit) oxidoreductase protei	2767.48	870.236	265.17	1094.82	OK	4059.95	1299.56	389.573	1602.11	OK	1070.37	291.34	121.682	383.446	OK	2635.45	787.738	299.432	952.8	OK	0.578545	-1.5787	-0.14369	1.493342	-2.98701	-1.10473
RSc1996	***sdhC***	putative transmembrane succinate dehydrogenase (cytochrome B-556 subunit) oxidoreductase protein	4986.33	1229.05	407.568	1861.84	OK	5930.3	1482.88	478.668	2231.96	OK	2178.53	476.598	214.475	679.923	OK	3740.57	881.99	364.518	1180.52	OK	0.270858	-1.3667	-0.47871	1.206525	-2.5788	-1.3935
RSc1997		transcription regulator protein	2314.18	224.787	96.3283	353.152	OK	2828.99	276.376	118.888	432.775	OK	1508.3	138.394	74.3127	202.3	OK	1864.85	176.458	93.1797	258.901	OK	0.298074	-0.69978	-0.34923	1.229502	-1.62425	-1.27388
RSc1998	***mdh***	malate dehydrogenase	20518.3	1595.88	588.911	2599.72	OK	28288.1	2210.34	792.262	3626.95	OK	41751.1	3093.66	1370.23	4815.63	OK	20934.9	1590.15	785.353	2395.46	OK	0.469916	0.954962	-0.00519	1.385029	1.938529	-1.0036
RSc1999		lyase protein	607.446	48.8387	22.6039	75.0342	OK	846.397	68.3745	30.6958	105.663	OK	450.155	34.44	19.7258	49.1496	OK	548.484	43.051	24.146	61.8823	OK	0.485434	-0.50394	-0.18198	1.400007	-1.41808	-1.13444
RSc2000	***prpB***	2-methylisocitrate lyase	1019.17	87.5134	38.4146	136.499	OK	1327.56	114.574	49.36	179.715	OK	846.959	69.0383	38.1747	99.9647	OK	973.673	81.5636	44.1656	118.495	OK	0.388704	-0.34211	-0.10158	1.309217	-1.26761	-1.07295
RSc2001		signal peptide protein	3928.62	638.878	247.678	1016.1	OK	5145.54	844.872	317.85	1340.99	OK	4663.83	696.517	342.592	1032.79	OK	4470.38	702.274	328.474	1071.95	OK	0.403192	0.124618	0.136494	1.322431	1.090219	1.09923
RSc2002	***prpD***	2-methylcitrate dehydratase	3283.66	162.046	72.3468	251.326	OK	3754.51	185.822	83.1023	287.368	OK	3361.16	160.026	90.2521	228.878	OK	3932.77	190.233	106.103	274.437	OK	0.197518	-0.0181	0.231364	1.146724	-1.01262	1.173944
RSc2003	***acnA***	aconitate hydratase	36355.5	920.332	304.06	1536.51	OK	36868.9	934.723	309.82	1559	OK	15150.8	374.039	194.962	553.166	OK	42642.2	1061.4	451.436	1669.99	OK	0.022385	-1.29897	0.205742	1.015637	-2.46052	1.153279
RSc2004		signal peptide protein	202.82	189.533	35.6816	125.611	OK	211.599	204.971	37.1321	131.413	OK	278.985	195.332	54.6601	155.681	OK	147.774	128.991	28.6178	79.5576	OK	0.112971	0.043479	-0.55518	1.081453	1.030596	-1.46935
RSc2005		hypothetical protein	8871.35	544.115	226.041	861.974	OK	11597.5	713.9	286.723	1140.09	OK	11668.5	686.784	368.032	1005.55	OK	10609.8	636.854	339.045	934.68	OK	0.39181	0.335945	0.227051	1.312039	1.262204	1.17044
RSc2006		transport binding transmembrane protei	7912.01	357.571	149.254	565.649	OK	9418.93	426.811	174.293	678.828	OK	10352.5	452.219	244.078	659.135	OK	7493.84	332.141	181.347	482.672	OK	0.255368	0.338792	-0.10643	1.19364	1.264697	-1.07656
RSc2007		lipoprotein transmembrane	4222.71	457.819	191.499	724	OK	5464.78	596.293	243.548	947.444	OK	2979.92	303.686	160.93	445.898	OK	3222.91	339.893	175.552	502.958	OK	0.381244	-0.5922	-0.4297	1.302465	-1.50754	-1.34695
RSc2008		hypothetical protein	3060.55	200.306	90.2513	310.428	OK	3359.83	220.745	98.7369	342.292	OK	3704.61	232.247	129.004	335.343	OK	3222.91	206.322	113.481	299.031	OK	0.140175	0.213454	0.042692	1.102039	1.159461	1.030034
RSc2009		hypothetical protein	1332.53	140.221	58.6598	221.576	OK	1551.11	164.242	68.7277	259.601	OK	1411.6	139.82	74.4485	204.549	OK	1265.59	129.599	67.3895	189.692	OK	0.228121	-0.00413	-0.11365	1.171308	-1.00287	-1.08196
RSc2010		hypothetical protein	539.501	107.21	41.3438	157.16	OK	530.838	106.733	40.6813	154.642	OK	596.873	107.3	52.0279	156.476	OK	349.036	66.7078	30.9815	90.1992	OK	-0.00643	0.001211	-0.68451	-1.00447	1.000839	-1.60716
RSc2011		putative aminotransferase	2567.7	159.308	71.6461	246.548	OK	2564.95	159.721	71.6461	247.675	OK	2578.67	153.482	85.9265	220.878	OK	2541.16	154.283	85.45	221.99	OK	0.003735	-0.05375	-0.04624	1.002592	-1.03796	-1.03257
RSc2012		gst-related protein	5070.5	659.68	263.485	1054.04	OK	3037.83	398.281	163.11	632.639	OK	5341.84	647.166	330.326	963.804	OK	4656.23	587.622	290.485	875.614	OK	-0.72798	-0.02763	-0.16688	-1.65632	-1.01934	-1.12263
RSc2013	***paaH2***	3-hydroxybutyryl-CoA dehydrogenase	1531.29	73.2118	32.5633	113.822	OK	782.917	37.5374	17.4553	57.5725	OK	982.561	45.3528	25.9347	64.7946	OK	1751.52	82.0982	46.0594	117.38	OK	-0.96375	-0.69088	0.165274	-1.95037	-1.61427	1.121379
RSc2014	***paaG2***	enoyl-CoA hydratase	1553.6	161.897	67.8687	255.292	OK	758.077	79.4858	34.76	124.178	OK	1021.46	100.239	53.7575	145.96	OK	1576.55	159.896	83.3241	236.207	OK	-1.02631	-0.69163	-0.01794	-2.0368	-1.61511	-1.01251
RSc2015		putative phosphoglycerate mutase protein	1047.57	117.737	49.856	185.492	OK	511.518	57.8738	26.0233	89.6357	OK	469.051	49.4678	27.1414	71.6567	OK	659.995	72.1181	37.7732	104.244	OK	-1.02459	-1.25101	-0.70713	-2.03437	-2.38007	-1.63256
RSc2016		hypothetical protein	2466.29	173.585	77.6758	268.906	OK	1052.48	74.3852	33.2469	115.408	OK	1463.84	98.4749	54.3882	142.577	OK	1527.6	105.1	57.1017	152.37	OK	-1.22255	-0.81781	-0.72388	-2.3336	-1.76273	-1.65162
RSc2017		hypothetical protein	761.589	201.514	67.8993	270.961	OK	264.039	70.9424	25.1243	90.7974	OK	367.905	85.8049	39.3739	113.573	OK	316.398	79.9382	33.8835	91.4541	OK	-1.50616	-1.23175	-1.33392	-2.84053	-2.34851	-2.52087
RSc2018		transcription regulator protein	386.372	30.9485	14.9336	46.734	OK	318.319	25.6184	12.4669	38.7339	OK	345.675	26.3513	15.2581	37.3561	OK	255.657	19.9926	11.4436	28.4116	OK	-0.27269	-0.232	-0.6304	-1.20806	-1.17446	-1.548
RSc2019		signal peptide protein	307.272	58.3636	23.7808	86.1251	OK	229.079	44.0027	17.7392	63.2441	OK	223.41	38.5274	19.2751	54.9085	OK	282.855	51.7255	24.6011	66.0678	OK	-0.40748	-0.59918	-0.17419	-1.32636	-1.51486	-1.12833
RSc2020		acyl-CoA dehydrogenase oxidoreductase protein	2555.53	149.48	67.2055	231.803	OK	1603.55	94.1211	41.5063	146.649	OK	1442.72	81.0846	45.1713	116.651	OK	1820.42	104.248	58.0487	149.448	OK	-0.66736	-0.88245	-0.51993	-1.58817	-1.84351	-1.43389
RSc2021		putative GST-related protein	4773.37	578.92	236.509	920.014	OK	3610.07	440.986	181.494	696.33	OK	5376.3	609.499	315.458	903.194	OK	2813.14	331.328	168.226	485.425	OK	-0.39263	0.07426	-0.8051	-1.31279	1.052821	-1.74727
RSc2022		hypothetical protein	1128.69	145.96	59.6197	232.234	OK	370.759	48.314	21.467	74.0611	OK	400.138	48.2011	26.0865	69.3072	OK	359.008	45.0389	23.4874	63.6279	OK	-1.59506	-1.59844	-1.69633	-3.02107	-3.02815	-3.24075
RSc2023		hypothetical protein	596.291	518.244	96.6015	371.436	OK	196.879	177.151	33.6128	118.633	OK	204.515	134.61	38.732	106.443	OK	261.097	212.042	49.5992	134.865	OK	-1.54865	-1.94485	-1.28928	-2.92544	-3.84997	-2.44406
RSc2024		hypothetical protein	2783.7	401.052	7.08517	795.019	OK	215.279	31.2813	8.2484	54.2491	OK	206.738	27.5699	11.4753	43.6063	OK	174.064	24.2825	9.07594	39.4334	OK	-3.68042	-3.86262	-4.0458	-12.8208	-14.5467	-16.5161
RSc2025		hypothetical protein	11387.3	940.192	299.376	1581.72	OK	310.959	25.7998	9.36617	42.0452	OK	265.647	20.8512	10.2514	31.3611	OK	290.107	23.3773	11.7351	34.9356	OK	-5.18752	-5.49475	-5.32978	-36.4418	-45.0905	-40.2182
RSc2026		hypothetical protein	462.43	2037.47	0	10398.2	OK	11.04	51.7681	0	262.593	OK	8.89196	22.6088	0	96.6191	OK	9.06586	36.7904	0	154.209	OK	-5.29857	-6.49375	-5.79131	-39.3576	-90.1184	-55.3805
RSc2027		hypothetical protein	626.714	242.273	70.3093	287.343	OK	31.2799	12.3484	3.54501	13.7861	OK	12.2264	3.99472	1.16572	5.44001	OK	32.6371	11.9315	3.88572	12.8229	OK	-4.29424	-5.9224	-4.34379	-19.6198	-60.6483	-20.3053
RSc2028		hypothetical protein	12.1692	22.1242	2.1467	11.4491	OK	11.96	22.79	2.1467	10.0179	OK	6.66897	8.1841	1.05886	6.00021	OK	15.412	26.1409	2.82363	12.3534	OK	0.042776	-1.43473	0.240684	1.030094	-2.70331	1.181552
RSc2029	***ureG***	urease accessory protein	693.644	94.8424	39.7801	149.557	OK	946.677	130.492	53.1079	207.141	OK	912.537	115.856	60.2195	169.518	OK	815.927	108.126	53.8965	154.764	OK	0.460357	0.288729	0.189109	1.375883	1.221563	1.14006
RSc2030	***ureF***	urease accessory protein UreF	828.52	101.055	22.1203	179.949	OK	1009.24	123.988	28.0938	219.803	OK	838.067	95.521	37.0141	153.489	OK	836.779	99.1059	37.5665	160.486	OK	0.29506	-0.08125	-0.0281	1.226936	-1.05793	-1.01967
RSc2031	***ureE***	urease accessory protein UreE	1292.98	175.671	38.8575	312.49	OK	1552.95	212.696	51.224	374.318	OK	1221.53	154.163	65.6262	242.817	OK	1271.03	167.389	73.7492	261.151	OK	0.275917	-0.18842	-0.06967	1.210763	-1.13951	-1.04948
RSc2032	***ureC***	urease subunit alpha	6093.73	252.049	108.159	395.959	OK	7550.41	313.064	131.237	494.19	OK	7105.79	284.569	157.554	411.569	OK	7385.96	299.755	164.354	433.449	OK	0.312753	0.175074	0.25008	1.242076	1.129023	1.189273

RSc2033	***ureB***	urease subunit beta protein	389.414	171.45	48.6164	186.679	OK	502.318	226.325	61.4545	232.559	OK	487.946	178.677	68.3068	202.429	OK	449.667	186.681	62.9087	186.027	OK	0.400608	0.059566	0.122787	1.320064	1.042152	1.088836
RSc2034	***ureJ***	urease accessory UREJ transmembrane protein	1538.39	217.264	86.0764	347.223	OK	1709.35	243.436	95.872	390.366	OK	1165.96	152.605	77.9239	223.8	OK	1011.75	138.407	67.7465	193.473	OK	0.164093	-0.50965	-0.65053	1.120462	-1.4237	-1.56975
RSc2035	***ureA***	urease subunit gamma protein	324.512	145.748	41.4462	150.907	OK	344.079	158.198	43.7842	166.21	OK	392.358	146.193	55.7736	152.853	OK	397.991	168.48	56.6123	165.434	OK	0.118255	0.004398	0.209101	1.085421	1.003053	1.155968
RSc2036	***ureD***	urease accessory protein ureD	1365.99	121.172	52.072	190.157	OK	1559.39	139.055	59.5419	218.514	OK	1568.32	131.9	71.5446	192.312	OK	1552.98	134.343	71.33	196.748	OK	0.198599	0.122388	0.148865	1.147584	1.088535	1.108697
RSc2037		ABC transporter ATP-binding protein	160.228	19.4326	8.92135	29.9237	OK	115	14.0477	6.41222	21.1882	OK	107.815	12.2227	6.60069	17.6935	OK	116.95	13.7742	7.24242	20.1688	OK	-0.46814	-0.66892	-0.49651	-1.38333	-1.58988	-1.4108
RSc2038		ABC transporter ATP-binding protein	191.665	17.5831	6.6339	28.399	OK	140.759	12.9833	5.21767	20.6471	OK	126.71	11.0064	5.66196	16.2506	OK	129.642	11.5937	5.80902	17.28	OK	-0.43753	-0.67585	-0.60085	-1.35429	-1.59753	-1.51661
RSc2039		ABC transporter permease	145.016	9.07594	2.00274	16.2097	OK	98.4396	6.18372	1.38198	10.993	OK	74.4702	4.47014	1.50065	7.38318	OK	77.0598	4.71917	1.65349	7.77752	OK	-0.55357	-1.02173	-0.94351	-1.46772	-2.03035	-1.92321
RSc2040		ABC transporter permease	244.398	10.8175	5.57584	16.0505	OK	192.279	8.53287	4.34119	12.705	OK	144.494	6.18427	3.73253	8.60446	OK	144.147	6.2579	3.73253	8.76162	OK	-0.34226	-0.80669	-0.78962	-1.26774	-1.7492	-1.72862
RSc2041		putative urea/short-chain amide-binding signal peptide protein	830.548	48.8473	22.3892	75.1601	OK	505.998	29.863	14.3455	45.2395	OK	377.908	21.3528	12.6861	29.9715	OK	504.062	29.0225	16.8306	41.2425	OK	-0.70992	-1.19385	-0.75111	-1.63571	-2.28763	-1.68308
RSc2042		hypothetical protein	1279.79	251.992	91.136	383.377	OK	791.197	157.609	58.3428	233.371	OK	790.273	140.872	67.9489	206.315	OK	921.998	174.637	78.7324	246.331	OK	-0.67703	-0.83899	-0.52902	-1.59884	-1.7888	-1.44295
RSc2043		hypothetical protein	2100.2	437.566	156.148	647.838	OK	1232.8	260.019	91.6107	383.261	OK	1298.23	243.728	113.709	362.71	OK	1658.15	331.879	145.947	464.819	OK	-0.75088	-0.84423	-0.39884	-1.68282	-1.7953	-1.31845
RSc2044		putative acyl-CoA dehydrogenase oxidoreductase protein	4794.67	318.658	140.76	496.246	OK	2756.31	183.907	81.5974	285.562	OK	2232.99	142.093	79.3162	204.357	OK	3308.13	215.027	118.132	311.928	OK	-0.79303	-1.16517	-0.56749	-1.73271	-2.2426	-1.48194
RSc2045		putative acyl-CoA dehydrogenase oxidoreductase protein	6932.39	431.353	184.541	677.313	OK	4045.23	252.632	112.554	392.701	OK	5339.62	318.709	175.15	462.13	OK	9346.9	569.115	305.451	831.643	OK	-0.77183	-0.43663	0.399851	-1.70744	-1.35344	1.319372
RSc2046		hypothetical protein	2226.96	477.856	168.669	698.932	OK	2099.43	456.216	159.609	660.18	OK	2903.22	559.941	259.352	837.187	OK	4504.83	927.948	399.066	1304.05	OK	-0.06686	0.228699	0.957468	-1.04743	1.171778	1.941899
RSc2047		hypothetical protein	1191.57	168.283	67.3188	267.087	OK	1579.63	224.962	88.369	359.416	OK	705.799	92.3779	48.0085	136.418	OK	1387.98	189.875	92.5217	274.79	OK	0.418792	-0.86527	0.174161	1.336808	-1.82168	1.128308
RSc2048		hypothetical protein	346.822	149.741	42.934	159.023	OK	515.198	227.56	62.5252	235.72	OK	335.671	120.834	47.0833	135.699	OK	531.259	216.374	72.9894	218.763	OK	0.603778	-0.30944	0.531058	1.519691	-1.23923	1.444988
RSc2049	***nuoN***	NADH dehydrogenase subunit N	6319.87	310.453	133.655	487.052	OK	10473.2	515.975	209.729	822.916	OK	4883.91	231.484	129.004	332.883	OK	9331.49	449.324	244.034	652.87	OK	0.732926	-0.42346	0.533381	1.662007	-1.34114	1.447317
RSc2050	***nuoM***	NADH dehydrogenase subunit M	7400.9	365.229	154.396	575.307	OK	12486.2	617.982	242.766	993.716	OK	5292.94	251.999	139.795	362.871	OK	11160.1	539.827	290.721	789.576	OK	0.758763	-0.53538	0.563696	1.69204	-1.44933	1.478051
RSc2051	***nuoL***	NADH dehydrogenase subunit L	11100.3	376.446	149.8	603.576	OK	17158.9	583.074	216.982	948.454	OK	6914.61	227.803	127.649	328.416	OK	15195.3	506.12	265.069	746.751	OK	0.631236	-0.72466	0.427037	1.548891	-1.65251	1.344469
RSc2052	***nuoK***	NADH dehydrogenase subunit K	690.602	304.056	82.0797	323.899	OK	1050.64	473.377	121.015	501.738	OK	385.689	141.232	54.604	158.829	OK	870.322	361.319	118.966	371.431	OK	0.638653	-1.10627	0.248936	1.556874	-2.15288	1.18833
RSc2053	***nuoJ***	NADH dehydrogenase subunit J	1569.83	214.643	85.6645	341.742	OK	2288.03	315.387	125.953	503.813	OK	974.781	123.759	64.1338	181.361	OK	2304.54	305.396	151.552	446.026	OK	0.555184	-0.79441	0.508742	1.469356	-1.73436	1.422809
RSc2054	***nuoI***	NADH dehydrogenase subunit I	1676.31	327.07	118.068	498.453	OK	2797.71	552.197	200.271	821.767	OK	1222.64	216.126	102.4	327.472	OK	2522.12	473.484	212.805	678.316	OK	0.755584	-0.59773	0.533716	1.688314	-1.51333	1.447653
RSc2055	***nuoH***	NADH dehydrogenase subunit H	5601.89	399.518	173.127	624.962	OK	9162.25	656.196	268.065	1044.32	OK	3909.13	266.358	147.226	385.544	OK	8218.2	572.863	303.818	839.631	OK	0.715866	-0.58489	0.51993	1.642469	-1.49993	1.433885
RSc2056	***nuoG***	NADH dehydrogenase subunit G	17474	513.853	187.672	841.347	OK	28323.9	834.362	285.697	1382.98	OK	10816	309.612	167.014	452.149	OK	23412.6	676.596	332.109	1019.04	OK	0.699318	-0.73089	0.396939	1.623737	-1.65967	1.316711
RSc2057	***nuoF***	NADH dehydrogenase I chain F	9063.01	514.695	211.639	817.982	OK	15180.9	865.028	335.024	1394.96	OK	6231.04	340.267	187.163	493.203	OK	15448.2	859.102	447.123	1270.04	OK	0.749029	-0.59705	0.739112	1.680661	-1.51262	1.669148
RSc2058	***nuoE***	NADH dehydrogenase subunit E	2598.12	489.167	181.958	744.445	OK	4433.46	844.061	305.394	1276.65	OK	2029.59	347.178	166.77	495.143	OK	4351.61	788.964	353.71	1155.92	OK	0.78702	-0.49465	0.689632	1.725507	-1.40898	1.612872
RSc2059	***nuoD***	NADH dehydrogenase subunit D	9829.67	579.704	238.088	921.129	OK	18079.8	1069.97	404.535	1734.92	OK	6222.15	352.507	193.432	510.989	OK	15639.5	902.935	468.229	1335.63	OK	0.884182	-0.71766	0.639306	1.845718	-1.64452	1.557579
RSc2060	***nuoC***	NADH dehydrogenase subunit C	2500.77	365.19	146.104	578.861	OK	4713.14	694.244	271.595	1116.6	OK	1282.66	173.234	87.7642	251.808	OK	2400.64	339.367	165.414	488.024	OK	0.926796	-1.07593	-0.1058	1.901049	-2.10807	-1.07609
RSc2061	***nuoB***	NADH dehydrogenase subunit B	2501.78	501.792	182.803	748.545	OK	3967.95	805.341	287.871	1185.88	OK	1633.9	296.242	140.085	446.826	OK	2432.37	469.109	209.273	665.832	OK	0.68251	-0.76031	-0.09717	1.60493	-1.69386	-1.06967
RSc2062	***nuoA***	NADH dehydrogenase subunit A	1123.62	363.821	109.661	456.174	OK	1425.99	470.218	137.389	581.219	OK	572.42	159.914	67.2376	203.654	OK	967.327	297.501	111.886	346.6	OK	0.370101	-1.18593	-0.29033	1.292443	-2.2751	-1.22292
RSc2063	***secG***	preprotein translocase subunit SecG	696.687	239.795	72.9138	287.399	OK	877.677	307.932	90.4945	365.679	OK	842.513	248.47	101.87	310.721	OK	508.595	166.015	62.6188	185.3	OK	0.36081	0.05127	-0.53049	1.284147	1.036177	-1.44442
RSc2064	***tpiA***	triosephosphate isomerase	2189.44	241.027	101.386	378.992	OK	2828.07	313.365	131.733	494.517	OK	1401.59	144.93	76.8843	212.027	OK	1156.8	123.849	63.9568	183.536	OK	0.378649	-0.73384	-0.96061	1.300124	-1.66306	-1.94614
RSc2065		putative NADPH quinone oxidoreductase oxidoreductase protein	1637.77	125.117	54.6607	195.446	OK	1565.83	120.162	52.2257	188.077	OK	1407.15	102.474	56.4515	148.367	OK	1271.94	94.9107	51.3942	138.379	OK	-0.0583	-0.28802	-0.39864	-1.04124	-1.22096	-1.31826
RSc2066		hypothetical protein	2207.7	180.199	79.0283	279.139	OK	2035.95	166.984	72.8659	260.042	OK	1259.32	97.7597	53.5108	141.961	OK	1606.47	127.991	68.8092	186.987	OK	-0.10988	-0.88228	-0.49355	-1.07914	-1.84329	-1.4079
RSc2067	***pnp***	polynucleotide phosphorylase/polyadenylase	22810.2	737.446	262.238	1213.33	OK	39286.6	1272.55	432.928	2112.79	OK	37605.2	1181.91	522.587	1840.76	OK	29570.1	939.123	443.748	1434.77	OK	0.787113	0.680511	0.348777	1.725618	1.602707	1.27348
RSc2068		putative signal peptide protein	5.0705	173.328	1.16038	9.86321	OK	3.67999	138.894	0.580189	8.12265	OK	12.2264	151.338	3.43414	16.026	OK	4.53293	116.48	0.572357	9.15771	OK	-0.31952	-0.19573	-0.57342	-1.24792	-1.1453	-1.48805
RSc2069	***rpsO***	30S ribosomal protein S15	4164.91	2392.37	540.73	2229.23	OK	6285.42	3711.43	791.417	3716.65	OK	4890.58	2256.2	741.437	2426.91	OK	3781.37	2038.24	577.196	1869.48	OK	0.633535	-0.08455	-0.23112	1.551361	-1.06035	-1.17374
RSc2070		transporter signal peptide protein	305.244	17.9524	9.0684	26.7953	OK	464.598	27.4197	13.3208	41.4482	OK	171.17	9.67154	5.81236	13.5453	OK	255.657	14.72	8.69327	20.7223	OK	0.611036	-0.89236	-0.2864	1.527356	-1.85621	-1.21959
RSc2071		hypothetical protein	811.28	145.116	55.8882	224.54	OK	791.197	143.03	54.6545	218.618	OK	350.121	57.1226	28.9665	79.2319	OK	586.561	101.15	47.5878	143.007	OK	-0.02089	-1.34507	-0.52071	-1.01458	-2.54043	-1.43466
RSc2072	***leuA1***	2-isopropylmalate synthase	18498.2	863.259	322.047	1403.37	OK	19640.1	919.076	339.922	1497.26	OK	5814.23	262.088	145.233	378.718	OK	18432.7	843.45	432.773	1253.2	OK	0.090391	-1.71974	-0.03349	1.064658	-3.29378	-1.02349
RSc2073	***pssA***	putative CDP-diacylglycerol--serine O- phosphatidyltransferase	1886.23	170.131	73.2966	266.279	OK	2032.27	184.284	79.1779	287.599	OK	1510.52	129.09	69.5511	187.911	OK	1803.2	158.579	84.2011	232.514	OK	0.115285	-0.39827	-0.10144	1.083189	-1.31793	-1.07285
RSc2074		phosphatidylserine decarboxylase	1379.18	182.756	73.5443	290.997	OK	1597.11	213.301	85.1723	339.695	OK	1003.68	123.719	64.414	182.849	OK	947.382	121.737	60.8844	172.261	OK	0.222972	-0.56285	-0.58615	1.167135	-1.47719	-1.50124
RSc2075	***ilvC***	ketol-acid reductoisomerase	12889.2	970.845	378.427	1560.31	OK	16272.9	1231.18	466.638	1991.68	OK	17286	1241.75	632.63	1850.54	OK	10629.7	782.154	407.239	1155	OK	0.342729	0.355062	-0.31179	1.268153	1.27904	-1.24125
RSc2076	***ilvH***	acetolactate synthase 3 regulatory subunit	1939.97	378.514	5.10496	750.167	OK	3433.43	677.671	4.58137	1349.67	OK	2202.98	389.421	80.964	697.944	OK	1631.85	306.352	41.1922	570.106	OK	0.840238	0.040984	-0.30516	1.790346	1.028815	-1.23555
RSc2077	***ilvI***	acetolactate synthase 3 catalytic subunit	10625.7	428.763	112.782	746.702	OK	18519.5	749.07	163.934	1333.39	OK	7572.61	295.988	134.341	458.33	OK	8574.49	339.533	159.303	518.932	OK	0.80492	-0.53464	-0.33663	1.747049	-1.44858	-1.2628
RSc2078		RNA polymerase factor sigma-70	1130.72	179.795	19.8768	339.156	OK	1243.84	199.652	33.6203	362.327	OK	892.53	130.533	40.7857	220.176	OK	1208.48	185.713	49.7496	321.356	OK	0.151135	-0.46194	0.046722	1.110442	-1.37739	1.032915
RSc2079		hypothetical protein	3418.53	788.537	234.817	1342.24	OK	2827.15	661.001	185.407	1139.8	OK	1969.57	405.735	188.286	623.155	OK	3362.53	743.233	353.654	1133.9	OK	-0.25453	-0.95864	-0.08536	-1.19294	-1.94348	-1.06096
RSc2080		hypothetical protein	3176.16	296.444	128.953	462.977	OK	2879.59	270.251	117.161	422.915	OK	1452.72	128.292	69.0496	187.016	OK	1882.07	171.203	90.5996	249.876	OK	-0.13346	-1.20833	-0.79205	-1.09692	-2.3107	-1.73154
RSc2081		hypothetical protein	480.683	83.8858	33.9591	125.77	OK	345.919	60.9943	24.9842	92.1747	OK	375.685	59.9089	30.6292	82.1962	OK	336.343	56.6179	27.5184	74.0604	OK	-0.45975	-0.48566	-0.56717	-1.37531	-1.40022	-1.48161
RSc2082		putative lipase transmembrane protein	243.384	18.2681	9.0919	27.402	OK	253.919	19.1436	9.47073	28.6648	OK	200.069	14.3235	8.40859	20.1806	OK	186.757	13.6943	7.91031	19.4332	OK	0.067536	-0.35094	-0.41575	1.047925	-1.27539	-1.33399
RSc2083		hypothetical protein	69.9729	6.64644	3.22005	9.89015	OK	91.9997	8.78788	4.21673	13.2635	OK	64.4667	5.78973	3.17658	8.39525	OK	58.9281	5.45413	2.87405	8.01708	OK	0.402933	-0.19909	-0.28523	1.322194	-1.14797	-1.21861
RSc2084		hypothetical protein	148.059	10.4896	5.23145	15.6944	OK	151.799	10.7998	5.41185	16.1754	OK	150.052	10.1588	5.93199	14.3554	OK	193.103	13.3725	7.7709	18.8637	OK	0.042045	-0.04623	0.35031	1.029572	-1.03256	1.274834
RSc2085	***dgkA***	diacylglycerol kinase transmembrane protein	77.0716	16.5378	6.41222	22.164	OK	68.0797	14.794	5.71524	20.073	OK	43.3483	8.36053	3.71289	11.8262	OK	48.0491	9.89761	4.26294	13.3389	OK	-0.16076	-0.9841	-0.74062	-1.11787	-1.97808	-1.67089
RSc2086		putative transcription regulator protein	2204.65	265.881	98.7297	432.486	OK	1854.71	225.28	82.5369	366.882	OK	2104.06	237.262	114.832	357.73	OK	2294.57	268.757	130.075	406.748	OK	-0.23906	-0.1643	0.015522	-1.18022	-1.12062	1.010817
RSc2087		hypothetical protein	857.929	130.615	3.65386	284.544	OK	745.197	114.48	0.768116	249.023	OK	875.858	122.998	20.6434	225.954	OK	767.878	113.08	12.9592	213.974	OK	-0.19023	-0.08669	-0.20798	-1.14094	-1.06193	-1.15507
RSc2088		hypothetical protein	405.64	59.2361	25.6322	92.7032	OK	495.878	73.0426	30.7587	114.384	OK	353.455	47.7369	25.3916	69.221	OK	405.244	57.2874	28.8684	84.7088	OK	0.302261	-0.31137	-0.04826	1.233076	-1.24089	-1.03402
RSc2089		putative transmembrane protein	393.471	60.7654	25.9161	93.4315	OK	539.118	84.0233	34.7031	131.805	OK	347.898	49.5124	25.8954	70.8833	OK	339.063	50.6358	25.4565	72.9681	OK	0.467539	-0.29546	-0.26309	1.382749	-1.22728	-1.20005
RSc2090		putative oxygen-binding protein (globin	370.147	97.9395	34.9833	129.597	OK	465.518	125.076	43.411	159.333	OK	411.253	95.9149	43.6093	128.632	OK	410.683	103.759	43.7662	118.279	OK	0.352842	-0.03014	0.083274	1.277074	-1.02111	1.059419
RSc2091		hypothetical protein	1672.25	45.4407	19.5594	71.1412	OK	2031.35	55.2872	24.1377	86.4275	OK	1605	42.4973	24.3889	60.621	OK	1872.1	50.007	28.6043	71.3852	OK	0.28296	-0.09661	0.138145	1.216689	-1.06926	1.100489
RSc2092		hypothetical protein	2307.08	158.229	70.3673	246.022	OK	2584.27	177.96	79.6092	275.386	OK	2652.03	173.985	96.8265	250.722	OK	2602.81	174.539	96.0187	251.934	OK	0.169539	0.136949	0.141535	1.124699	1.099577	1.103078
RSc2093		signal peptide protein	2494.69	235.916	102.446	369.37	OK	2436.15	231.672	100.154	362.876	OK	2656.47	237.569	128.721	346.221	OK	2717.04	250.383	133.017	367.85	OK	-0.02619	0.010073	0.085863	-1.01832	1.007007	1.061323
RSc2094		transcription regulator protein	1419.74	115.883	50.3831	181.081	OK	1515.23	124.276	53.5659	193.948	OK	1045.92	81.1932	44.4254	117.644	OK	1833.12	146.048	78.6963	212.64	OK	0.100879	-0.51324	0.333774	1.072426	-1.42725	1.260306
RSc2095	***xdhA***	putative xanthine dehydrogenase (subunit A) oxidoreductase	4518.83	209.515	92.9683	325.95	OK	4844.7	225.239	99.0721	351.61	OK	3181.1	142.484	80.6536	203.825	OK	4952.68	225.167	124.81	325.359	OK	0.104403	-0.55625	0.103942	1.07505	-1.47045	1.074706
RSc2096	***xdhB***	xanthine dehydrogenase subunit B	6142.4	178.428	75.2022	281.589	OK	5204.42	151.441	65.3214	237.572	OK	2662.03	75.2861	43.1823	107.408	OK	6897.31	196.906	110.372	283.555	OK	-0.23659	-1.24489	0.142165	-1.1782	-2.37	1.10356
RSc2097	***xdhC***	xanthine dehydrogenase protein	1147.96	85.2703	37.4264	132.432	OK	842.717	62.8721	28.414	97.196	OK	476.831	33.7949	19.3867	47.6641	OK	1093.34	79.3473	43.404	115.271	OK	-0.43962	-1.33524	-0.10386	-1.35625	-2.52317	-1.07465
RSc2098	***add***	adenosine deaminase	1964.31	144.41	63.5944	224.163	OK	1886.91	139.323	61.1127	217.462	OK	1011.46	70.9736	39.4165	102.091	OK	1779.63	127.839	69.4686	186.066	OK	-0.05174	-1.02482	-0.17584	-1.03651	-2.0347	-1.12962
RSc2099	***guaD***	guanine deaminase	1847.69	101.184	45.0037	156.671	OK	1681.75	92.3953	41.0568	143.675	OK	969.223	51.0836	29.0593	73.1231	OK	1664.49	89.2828	49.8566	128.678	OK	-0.13109	-0.98605	-0.18053	-1.09512	-1.98075	-1.1333
RSc2100		hypothetical protein	90.2549	12.8309	5.75944	19.6868	OK	85.5597	12.2663	5.34057	18.8491	OK	40.0138	5.26974	2.58259	7.95436	OK	68.9005	9.48682	4.64865	13.946	OK	-0.06492	-1.28382	-0.43563	-1.04603	-2.43483	-1.3525
RSc2101	***ripAJ***	Type III effector protein	127.777	9.76143	4.87012	14.6104	OK	278.759	21.392	10.4451	32.2966	OK	244.529	17.8075	10.4938	24.9701	OK	211.235	15.7621	9.03982	22.3783	OK	1.131907	0.867321	0.691295	2.191482	1.824272	1.614733
RSc2102		transcription regulator protein	18.2538	1.94951	0.252553	3.70411	OK	32.1999	3.46074	0.757659	6.14545	OK	20.0069	2.00991	0.415239	3.57106	OK	25.3844	2.63767	0.747431	4.48458	OK	0.827969	0.044019	0.436153	1.775185	1.030982	1.352991
RSc2103		amino-acid-binding periplasmic (PBP) ABC transporter protein	85.1844	8.54503	3.61124	13.4418	OK	80.9597	8.16956	3.22909	13.1182	OK	91.1426	8.62438	4.63663	12.6798	OK	87.0322	8.50119	4.49321	12.6005	OK	-0.06483	0.013335	-0.00742	-1.04596	1.009286	-1.00516
RSc2104		amino-acid transmembrane ABC transporter protein	118.65	13.0617	0	26.3811	OK	68.9997	7.64553	1.20698	14.0527	OK	75.5816	7.81543	2.46642	13.0975	OK	58.9281	6.3089	1.78603	10.8012	OK	-0.77265	-0.74095	-1.04988	-1.70841	-1.67127	-2.07036
RSc2105		amino-acid transmembrane ABC transporter protein	130.819	17.1235	0.295417	33.8745	OK	80.9597	10.6796	2.26487	19.0052	OK	82.2506	10.022	3.40001	16.6115	OK	90.6586	11.5098	4.2743	18.6515	OK	-0.68112	-0.77281	-0.57311	-1.60338	-1.70859	-1.48773
RSc2106		amino-acid ATP-binding ABC transporter protein	538.487	60.2062	17.6654	102.75	OK	138.919	15.6351	3.82663	27.4617	OK	143.383	15.0467	6.29646	23.8216	OK	121.483	13.2063	5.32678	20.981	OK	-1.94512	-2.00046	-2.18869	-3.85071	-4.00129	-4.5589
RSc2107	***rsl***	fucose-binding lectin protein	18519.5	10130.3	2059.9	13045.9	OK	25.7599	14.473	3.26672	13.3002	OK	38.9023	17.2042	5.52449	19.3357	OK	25.3844	13.04	3.4528	12.1999	OK	-9.4511	-9.2017	-9.60152	-699.945	-588.827	-776.863
RSc2108		porin signal peptide protein	743.335	48.6496	22.4223	74.9097	OK	265.879	17.4686	8.76663	26.1313	OK	330.114	20.6953	12.1963	29.1602	OK	291.014	18.6299	10.9767	26.3329	OK	-1.47766	-1.23312	-1.38481	-2.78497	-2.35076	-2.61137
RSc2109		hypothetical protein	212.961	17.3825	8.60034	26.0719	OK	155.479	12.7521	6.23017	19.2323	OK	196.735	15.2723	8.88507	21.6448	OK	198.542	15.8183	9.01868	22.5801	OK	-0.4469	-0.18672	-0.13604	-1.36311	-1.13817	-1.09889
RSc2110	***aldH***	aldehyde dehydrogenase	724.067	34.618	10.4134	58.7675	OK	427.798	20.5111	6.74311	34.2704	OK	789.161	36.4259	17.0091	55.8691	OK	503.155	23.5841	10.9044	36.2496	OK	-0.75512	0.073442	-0.55371	-1.68777	1.052224	-1.46785
RSc2111		dihydrodipicolinate synthase	509.078	43.8887	3.18985	85.6949	OK	321.079	27.8223	3.4661	52.0782	OK	565.751	46.2943	15.3837	77.1639	OK	427.002	35.9115	13.2881	58.5347	OK	-0.65761	0.076985	-0.2894	-1.57746	1.054811	-1.22213
RSc2112		metabolite transporter	214.989	11.8641	5.96036	17.6873	OK	111.32	6.1632	3.14978	9.15861	OK	183.397	9.73876	5.8799	13.5764	OK	161.372	8.72223	5.16284	12.2378	OK	-0.94485	-0.28479	-0.44383	-1.92499	-1.21824	-1.36021
RSc2113		putative oxidoreductase protein	449.246	24.9843	12.2459	37.616	OK	310.039	17.2991	8.78195	25.8092	OK	386.8	20.6956	12.3213	29.0224	OK	385.299	20.9862	12.4175	29.5037	OK	-0.53032	-0.2717	-0.25158	-1.44425	-1.20723	-1.19051
RSc2114		transcription regulator protein	1506.95	170.26	70.7355	269.305	OK	1400.23	159.264	65.8966	251.885	OK	2967.69	314.55	165.772	460.257	OK	1570.21	172.467	88.8748	255.515	OK	-0.09632	0.88555	0.018581	-1.06904	1.847469	1.012963
RSc2115		hypothetical protein	1898.4	112.888	50.1759	175.305	OK	1750.75	104.475	45.9859	162.839	OK	1637.23	93.5056	52.2541	134.513	OK	2796.82	162.804	90.6282	234.99	OK	-0.11173	-0.27177	0.528244	-1.08053	-1.20729	1.442173
RSc2116		putative transthyretin-like protein precursor	326.54	108.963	35.657	129.894	OK	478.398	162.647	50.7567	200.298	OK	344.563	98.8656	42.1749	114.5	OK	711.67	225.391	84.1704	259.51	OK	0.577906	-0.1403	1.048592	1.492681	-1.10213	2.068509

RSc2117		transcription regulator protein	2840.49	309.524	131.453	485.958	OK	4283.5	469.785	195.854	743.134	OK	3706.84	379.594	200.635	558.538	OK	6150.28	651.864	330.314	972.717	OK	0.601949	0.294406	1.07452	1.517766	1.22638	2.106021
RSc2118		putative xanthine permease transmembrane protein	1724.98	89.2291	39.5926	138.231	OK	1718.55	89.1683	39.6384	138.734	OK	1265.99	63.1123	35.7619	90.4433	OK	2884.76	146.219	81.548	210.643	OK	-0.00098	-0.49959	0.712545	-1.00068	-1.41381	1.638692
RSc2119	***atzB***	hydroxydechloroatrazine ethylaminohydrolase	1658.05	84.5446	26.7547	142.089	OK	1340.44	68.5552	20.2468	116.78	OK	704.688	34.6408	15.1138	54.0799	OK	1486.8	74.2943	31.1193	117.478	OK	-0.30245	-1.28724	-0.18646	-1.23323	-2.44061	-1.13797
RSc2120		hypothetical protein	1024.24	79.9535	12.7888	147.007	OK	871.237	68.3243	12.3974	124.104	OK	551.301	40.9936	15.7703	66.042	OK	1221.17	93.0904	35.7245	150.429	OK	-0.22676	-0.96376	0.219471	-1.17021	-1.95039	1.164307
RSc2121		hypothetical protein	229.187	40.9953	0	92.4068	OK	193.199	34.9258	0	78.3422	OK	127.822	20.8543	0.60854	41.0156	OK	217.581	37.5209	0.486832	74.4853	OK	-0.23117	-0.97511	-0.12776	-1.17378	-1.9658	-1.0926
RSc2122		hypothetical protein	6.0846	2.52883	0	6.23418	OK	16.5599	7.03663	0	43.7667	OK	4.44598	1.54796	0	9.05245	OK	18.1317	7.11468	0	44.3399	OK	1.476415	-0.7081	1.492329	2.782563	-1.63365	2.813428
RSc2123	***maeB1***	malic enzyme	22217.9	662.431	232.642	1091.9	OK	41774.3	1247.7	420.714	2077.83	OK	47114	1367.14	564.835	2167.6	OK	43060.1	1261.6	542.18	1978.86	OK	0.913429	1.045319	0.929412	1.883517	2.063822	1.9045
RSc2124		lipoprotein transmembrane	7795.39	1045.88	401.954	1685.66	OK	7601.93	1028.06	392.425	1647.24	OK	9925.65	1237.9	615.425	1851.03	OK	11443.8	1488.58	712.405	2263.09	OK	-0.02479	0.243177	0.509219	-1.01733	1.183597	1.42328
RSc2125	***pepN***	aminopeptidase N	8683.74	218.795	87.5977	349.348	OK	9860.52	248.815	98.5444	398.3	OK	11277.2	277.117	149.666	404.26	OK	6471.21	160.32	89.407	231.219	OK	0.185494	0.340915	-0.44863	1.137206	1.26656	-1.36474
RSc2126	***fbp***	fructose-1,6-bisphosphatase	7270.08	547.599	230.248	862.543	OK	7722.45	584.267	242.913	921.244	OK	9795.6	703.673	375.567	1028.5	OK	6942.63	510.851	272.742	747.886	OK	0.093508	0.361785	-0.10022	1.066961	1.285015	-1.07193
RSc2127	***dalR***	putative transcriptional regulator (repressor) transcription regulator protein	1846.68	151.306	65.9635	235.526	OK	2113.23	173.987	75.8818	270.715	OK	1452.72	113.188	61.5881	164.793	OK	2202.1	176.108	94.8283	257.41	OK	0.20151	-0.41875	0.218991	1.149902	-1.33677	1.163919
RSc2128	***dalK***	putative D-arabinitol kinase protein	1549.54	75.945	33.684	117.894	OK	2242.95	110.248	49.3915	170.907	OK	1379.37	65.2323	36.8018	93.4035	OK	1409.74	67.7269	38.007	97.3204	OK	0.537726	-0.21937	-0.16523	1.451682	-1.16422	-1.12134
RSc2129	***dalD***	putative D-arabinitol dehydrogenase oxidoreductase protein	1522.16	79.311	35.1027	123.458	OK	1655.99	86.55	38.5116	134.652	OK	1274.88	64.0076	36.2194	91.7527	OK	1297.32	66.2328	37.0828	95.2519	OK	0.126013	-0.30928	-0.25998	1.091274	-1.23909	-1.19746
RSc2130	***ripS6, skwp6***	putative Type III effector protein, SKWP family	837.647	22.6185	10.2152	35.0451	OK	476.558	12.8888	6.22012	19.5453	OK	456.824	12.0207	7.25862	16.7622	OK	462.359	12.273	7.35839	17.1363	OK	-0.81139	-0.91198	-0.88202	-1.7549	-1.88163	-1.84295
RSc2132	***ripJ***	Type III effector protein	370.147	19.3331	9.64861	28.9458	OK	288.879	15.135	7.66349	22.5288	OK	340.117	17.1167	10.3381	23.8187	OK	332.717	17.0274	10.0649	23.9097	OK	-0.35318	-0.17567	-0.18321	-1.27738	-1.12949	-1.13541
RSc2133		hypothetical protein	4.0564	2.2732	0.235901	3.77442	OK	8.27997	4.76787	0.943604	4.71802	OK	4.44598	2.00777	0.232716	3.72346	OK	3.62634	1.90772	0.232716	3.25803	OK	1.06862	-0.17913	-0.25288	2.097427	-1.1322	-1.19158
RSc2134		hypothetical protein	2.0282	0.859013	0.206413	1.65131	OK	2.75999	1.1955	0	2.27055	OK	1.11149	0.393443	0	1.01813	OK	1.81317	0.724728	0	1.42539	OK	0.476862	-1.12653	-0.24524	1.391714	-2.18332	-1.18529
RSc2135		hypothetical protein	68.9588	14.5077	5.64197	20.2285	OK	67.1598	14.3054	5.50436	19.5405	OK	75.5816	14.3166	6.78756	20.6342	OK	60.7413	12.2734	5.2943	16.0187	OK	-0.02026	-0.01913	-0.24128	-1.01414	-1.01335	-1.18204
RSc2136		porin signal peptide protein	293.075	21.0415	10.4598	31.6228	OK	299.919	21.6244	10.7031	32.535	OK	386.8	26.5263	15.478	37.3751	OK	290.107	20.3564	11.8784	28.7362	OK	0.039423	0.334186	-0.04776	1.027702	1.260666	-1.03366
RSc2137		hypothetical protein	72.0011	15.2973	5.95536	21.6055	OK	73.5997	15.8338	6.09386	21.8825	OK	68.9127	13.1711	6.14822	18.4447	OK	74.34	15.1658	6.69473	20.3574	OK	0.04973	-0.2159	-0.01246	1.035072	-1.16143	-1.00867
RSc2138		hypothetical protein	40.564	12.0581	4.08895	14.4817	OK	51.5198	15.5768	5.28156	18.0595	OK	33.3448	8.63237	3.36146	11.597	OK	30.8239	8.7224	3.02531	10.4205	OK	0.369396	-0.48217	-0.46721	1.291812	-1.39685	-1.38243
RSc2139	***ripA1, awr1***	Type III effector protein, AWR family, AWR protein 1	349.865	7.43616	3.77286	11.1168	OK	242.879	5.16873	2.64302	7.68696	OK	288.989	6.00114	3.70203	8.29971	OK	214.861	4.49262	2.76657	6.22976	OK	-0.52475	-0.30932	-0.727	-1.43868	-1.23912	-1.65519
RSc2140		sugar ATP-binding ABC transporter protein	498.937	33.8944	16.0712	51.5788	OK	287.959	19.6406	9.74718	29.3576	OK	284.543	18.4954	10.9892	25.985	OK	212.141	14.0919	8.1847	19.9752	OK	-0.78721	-0.87388	-1.26618	-1.72573	-1.83259	-2.40524
RSc2141		hypothetical protein	111.551	13.3779	0.92133	25.7972	OK	72.6797	8.77826	1.19773	16.3075	OK	41.1253	4.61289	0.454446	8.72537	OK	60.7413	7.07533	1.54512	12.5427	OK	-0.60784	-1.53611	-0.91898	-1.52398	-2.90011	-1.89078
RSc2142		transmembrane ABC transporter protein	189.637	17.4717	3.14151	31.7891	OK	87.3997	8.09631	1.42116	14.7352	OK	108.926	9.50061	3.54183	15.4955	OK	96.0981	8.63039	2.80395	14.3887	OK	-1.10968	-0.87893	-1.01752	-2.15798	-1.83901	-2.02444
RSc2143		transmembrane ABC transporter protein	319.442	25.975	4.96014	46.9994	OK	177.559	14.5076	3.92186	25.1653	OK	204.515	15.8183	7.27045	24.4411	OK	202.169	16.0468	7.54047	24.6057	OK	-0.84031	-0.71553	-0.69484	-1.79044	-1.64209	-1.6187
RSc2144		sugar-binding periplasmic signal peptide protein	667.278	36.9185	17.0959	56.5816	OK	347.759	19.3034	9.61644	28.9464	OK	480.166	25.5619	14.9965	36.1258	OK	370.794	20.0928	11.8343	28.2682	OK	-0.93549	-0.53035	-0.87767	-1.91254	-1.44428	-1.8374
RSc2145	***agaZ***	putative tagatose 6-phosphate kinase protein	318.427	17.175	6.55408	27.7836	OK	245.639	13.2913	5.17678	21.372	OK	210.073	10.9091	5.71597	16.0703	OK	224.833	11.8794	6.23134	17.5227	OK	-0.36983	-0.65478	-0.53185	-1.2922	-1.57437	-1.44578
RSc2146	***cscK***	fructokinase protein	179.496	14.5404	1.1341	27.8664	OK	151.799	12.3558	1.7907	22.9536	OK	120.041	9.25084	3.23668	15.3357	OK	135.988	10.7535	3.87477	17.6342	OK	-0.23488	-0.65241	-0.43526	-1.17681	-1.57179	-1.35216
RSc2147	***polS***	sorbitol dehydrogenase	226.144	23.9143	11.36	36.5022	OK	193.199	20.5586	9.68938	30.9893	OK	215.63	21.4587	12.0306	30.6534	OK	213.048	21.9225	11.9482	31.4774	OK	-0.21813	-0.15631	-0.12546	-1.16323	-1.11443	-1.09086
RSc2148		hypothetical protein	6593.68	1322.52	461.207	2151.5	OK	3399.39	689.945	249.07	1013.62	OK	4129.2	748.666	351.068	1142.25	OK	2860.28	551.635	244.919	787.108	OK	-0.93874	-0.8209	-1.2615	-1.91685	-1.7665	-2.39745
RSc2149		hypothetical protein	2666.07	197.352	87.6153	306.154	OK	1908.99	141.93	62.4041	221.285	OK	1705.03	120.439	66.6097	174.219	OK	2128.66	153.956	83.9701	223.9	OK	-0.47559	-0.71247	-0.35825	-1.39049	-1.63861	-1.28187
RSc2150		hypothetical protein	626.714	275.928	75.1345	307.062	OK	342.239	154.2	43.1445	163.738	OK	474.608	173.793	66.023	196.823	OK	591.094	245.396	81.8021	246.237	OK	-0.83949	-0.66692	-0.16918	-1.78942	-1.58768	-1.12442
RSc2151		signal peptide protein	4169.98	1117.03	363.818	1499.01	OK	3622.03	985.39	317.039	1298.59	OK	7229.16	1704.8	730.771	2430.95	OK	6803.93	1739.74	689.365	2274.81	OK	-0.1809	0.609935	0.639204	-1.13359	1.52619	1.557469
RSc2152	***greB***	transcription elongation factor GreB	1111.45	178.049	69.311	284.78	OK	724.957	117.242	46.7021	184.753	OK	946.994	139.461	69.9523	197.804	OK	744.307	115.218	55.3085	170.657	OK	-0.60278	-0.35241	-0.62791	-1.51865	-1.27669	-1.54532
RSc2153	***spoT***	bifunctional (P)ppGpp synthetase II/guanosine- 3',5'-bisdiphosphate 3'-pyrophosphohydrolase	4531	142.62	62.651	222.283	OK	4759.14	150.079	65.7135	234.562	OK	3980.26	121.843	69.0561	174.597	OK	5318.03	164.457	92.1323	236.92	OK	0.073546	-0.22715	0.205534	1.0523	-1.17052	1.153113
RSc2154	***rpoZ***	DNA-directed RNA polymerase subunit omega	998.889	1193.87	173.63	713.146	OK	1002.8	1247.54	174.577	715.987	OK	1249.32	1077.76	253.192	805.045	OK	890.267	993.275	182.498	568.981	OK	0.06344	-0.14761	-0.26538	1.044955	-1.10773	-1.20195
RSc2155	***gmk***	guanylate kinase	3316.11	423.726	172.606	674.76	OK	3073.71	395.734	162.066	628.151	OK	3075.51	366.312	190.499	541.926	OK	2735.17	339.119	170.753	503.292	OK	-0.0986	-0.21006	-0.32134	-1.07073	-1.15674	-1.24949
RSc2156		hypothetical protein	4190.26	348.65	152.195	544.519	OK	3707.59	310.01	135.958	483.283	OK	2914.34	230.46	125.434	333.745	OK	3008.05	244.252	130.389	357.84	OK	-0.16946	-0.59726	-0.51341	-1.12464	-1.51284	-1.42742
RSc2157		protein kinase	2147.86	170.77	75.2007	265.952	OK	3863.99	308.66	135.361	478.038	OK	1622.78	122.823	67.3879	178.241	OK	2980.85	231.397	124.383	338.247	OK	0.853964	-0.47547	0.438316	1.80746	-1.39037	1.355021
RSc2158		hypothetical protein	3740	319.864	139.852	499.16	OK	6002.98	516.008	216.289	811.875	OK	5178.45	420.493	225.45	612.889	OK	6378.74	532.235	280.025	781.196	OK	0.689935	0.394623	0.734605	1.613211	1.314599	1.663942
RSc2159	***rph***	ribonuclease PH	1369.04	158.858	65.7483	251.496	OK	1678.99	196.167	80.7482	310.688	OK	1185.96	128.929	67.8734	189.886	OK	1016.28	114.598	58.7468	167.557	OK	0.304345	-0.30116	-0.47116	1.234858	-1.23214	-1.38622
RSc2160		putative deoxyribonucleotide triphosphate pyrophosphatase	666.264	96.6379	39.8521	150.163	OK	862.037	126.112	51.117	199.154	OK	612.434	82.1897	42.6689	120.039	OK	569.336	79.9506	39.6286	119.934	OK	0.384045	-0.23363	-0.27348	1.304995	-1.17579	-1.20872
RSc2161		coproporphyrinogen III oxidase	963.395	55.7442	25.2553	86.171	OK	1657.83	96.2543	42.5299	149.814	OK	1265.99	70.4047	39.564	100.803	OK	1513.09	85.7213	47.3871	123.476	OK	0.788029	0.33685	0.620832	1.726714	1.262996	1.537762
RSc2162		ribonuclease Z	636.855	47.9694	22.3535	73.3931	OK	607.198	45.9395	21.3403	69.9102	OK	537.963	38.6449	22.1767	54.8483	OK	751.56	55.3011	30.4852	79.9611	OK	-0.06238	-0.31184	0.205194	-1.04419	-1.24129	1.152841
RSc2163		hypothetical protein	3103.15	686.389	242.677	986.344	OK	1337.68	299.753	102.217	433.889	OK	1700.59	337.203	155.814	495.631	OK	1896.58	402.415	173.765	554.254	OK	-1.19525	-1.02541	-0.77034	-2.28985	-2.03554	-1.70567
RSc2164		signal peptide protein	521.247	71.2705	30.827	110.387	OK	421.358	58.0808	25.3331	90.3445	OK	232.302	29.4933	15.9582	41.8526	OK	227.553	30.1551	15.5567	42.4548	OK	-0.29524	-1.27292	-1.2409	-1.22709	-2.4165	-2.36346
RSc2165	***pcp1***	pyrrolidone-carboxylate peptidase	1092.19	144.726	59.1336	229.975	OK	1053.4	140.685	57.3447	223.217	OK	859.185	105.908	55.4921	155.692	OK	999.058	128.377	64.1199	181.869	OK	-0.04086	-0.45051	-0.17294	-1.02872	-1.36653	-1.12735
RSc2166		putative signal peptide protein	967.451	72.6159	32.453	112.765	OK	1733.27	130.676	57.2664	203.684	OK	1150.4	82.36	45.5933	119.091	OK	1426.06	104.569	56.431	152.725	OK	0.847637	0.181658	0.526098	1.799551	1.134187	1.440029
RSc2167		hypothetical protein	1148.98	93.075	40.9152	145.222	OK	1299.04	105.736	45.895	165.208	OK	894.753	68.953	38.3048	99.3138	OK	2174.9	171.984	93.0071	250.807	OK	0.184001	-0.43278	0.885809	1.13603	-1.34983	1.8478
RSc2168		hypothetical protein	792.012	91.4083	39.535	142.308	OK	880.437	102.31	43.5601	160.734	OK	486.835	52.6544	28.7657	76.2379	OK	1365.32	153.14	78.1792	224.743	OK	0.16255	-0.79577	0.744454	1.119264	-1.736	1.67534
RSc2169		hypothetical protein	1140.86	126.24	52.975	198.829	OK	964.156	107.388	45.7039	169.053	OK	453.49	47.1226	25.9591	67.8012	OK	1582.9	170.328	87.9537	252.333	OK	-0.23334	-1.42168	0.432147	-1.17555	-2.67897	1.34924
RSc2170		hypothetical protein	750.434	53.6982	14.6145	92.7811	OK	674.358	48.4589	14.0081	82.8359	OK	307.884	21.0462	8.67428	33.381	OK	921.091	64.4181	27.997	100.502	OK	-0.14811	-1.35131	0.262592	-1.10812	-2.55144	1.199632
RSc2171		hypothetical protein	683.503	90.5715	11.5284	170.276	OK	580.518	77.5305	9.34879	146.642	OK	477.943	58.914	27.4883	90.3538	OK	891.174	114.515	42.79	187.094	OK	-0.22429	-0.62045	0.338408	-1.1682	-1.53735	1.26436
RSc2172		drug transport transmembrane protein	501.98	30.4405	14.5744	46.1961	OK	558.438	33.9857	16.1002	51.5103	OK	274.539	15.9812	9.5505	22.371	OK	360.821	21.4156	12.5091	30.1567	OK	0.158936	-0.92962	-0.50733	1.116463	-1.90477	-1.42142
RSc2173		sugar ATP binding ABC transporter protein	1909.55	90.0926	36.0173	144.196	OK	1964.19	92.9291	36.2704	149.636	OK	1284.89	58.5419	30.7049	86.373	OK	1857.59	85.9288	45.5164	126.231	OK	0.044722	-0.62194	-0.06827	1.031484	-1.53894	-1.04846
RSc2174		transmembrane ABC transporter protein	530.374	36.03	0.679331	85.4599	OK	645.838	44.0502	0.750269	99.0355	OK	441.263	28.6823	4.09503	53.6903	OK	587.468	39.0236	4.11846	74.398	OK	0.28995	-0.32904	0.115148	1.222598	-1.25618	1.083086
RSc2175		transmembrane ABC transporter protein	561.811	47.6692	22.1662	73.0717	OK	658.718	56.1726	25.4527	86.7071	OK	621.326	50.068	28.1443	72.0163	OK	696.258	57.6408	31.5933	82.8463	OK	0.236809	0.070831	0.274033	1.178384	1.050322	1.209183
RSc2177		lipoprotein	3810.99	250.183	111.673	388.66	OK	3538.31	233.185	104.63	361.164	OK	4597.14	289.057	160.135	417.597	OK	4302.66	276.279	150.797	398.643	OK	-0.10151	0.20837	0.143142	-1.07289	1.155382	1.104308
RSc2178		hypothetical protein	2890.19	466.473	145.907	782.57	OK	199.639	32.531	12.6276	51.6585	OK	268.982	39.8896	19.4785	59.4547	OK	263.816	41.1391	19.0255	62.9654	OK	-3.84191	-3.54771	-3.50321	-14.3393	-11.6941	-11.3389
RSc2179		hypothetical protein	1928.82	356.898	13.8776	700.541	OK	76.3597	14.2847	0.748282	28.0606	OK	107.815	18.1494	4.54515	31.816	OK	109.697	19.5537	4.99105	34.2243	OK	-4.64297	-4.29752	-4.19	-24.9846	-19.6645	-18.2522
RSc2180		putative transmembrane protein	4657.76	316.416	79.9501	552.63	OK	172.039	11.7342	3.71321	19.7844	OK	242.306	15.75	7.66958	23.81	OK	191.29	12.7068	6.23869	19.2312	OK	-4.75303	-4.3284	-4.63815	-26.9653	-20.0899	-24.9013
RSc2181		hypothetical protein	4029.02	286.392	21.1114	562.19	OK	213.439	15.2356	4.14012	26.2684	OK	213.407	14.4944	5.97687	22.9566	OK	183.13	12.7235	5.41927	20.0791	OK	-4.23247	-4.30442	-4.49242	-18.7976	-19.7588	-22.5089
RSc2182		hypothetical protein	2591.03	685.577	225.96	924.035	OK	143.519	38.561	13.8343	47.3864	OK	142.271	33.1814	15.2162	42.0407	OK	105.164	26.5697	10.9808	32.158	OK	-4.1521	-4.36887	-4.68946	-17.779	-20.6615	-25.803
RSc2183		hypothetical protein	827.506	387.181	100.396	402.669	OK	555.678	266.338	69.6051	265.193	OK	1161.51	448.503	161.717	515.312	OK	653.648	288.024	92.6235	281.721	OK	-0.53975	0.212109	-0.42682	-1.45372	1.158381	-1.34427
RSc2184	***qor***	NADPH:quinone reductase, zeta-crystallin homolog oxidoreductase protein	5413.27	428.803	177.35	680.537	OK	4543.86	361.624	149.146	573.334	OK	4847.23	365.564	201.281	528.909	OK	3702.5	286.366	155.408	416.963	OK	-0.24582	-0.23019	-0.58245	-1.18577	-1.17299	-1.49739
RSc2185	***mgsA***	methylglyoxal synthase	464.458	121.408	0	411.702	OK	495.878	131.601	0	404.454	OK	385.689	88.9728	0	240.374	OK	442.414	110.46	0.499351	266.404	OK	0.116307	-0.44843	-0.13634	1.083957	-1.36455	-1.09911
RSc2186		dehydrogenase/reductase oxidoreductase protein	1002.94	102.524	44.235	160.433	OK	1082.84	111.362	47.5689	175.07	OK	651.336	62.7543	34.3327	90.2437	OK	931.064	92.6544	49.0926	135.406	OK	0.119295	-0.70818	-0.14603	1.086204	-1.63374	-1.10652
RSc2187		hypothetical protein	808.238	68.0404	30.4984	105.32	OK	903.437	76.434	33.9026	118.728	OK	573.531	45.8676	25.8376	65.7247	OK	725.269	59.5767	32.6225	85.7368	OK	0.167823	-0.56892	-0.19164	1.123362	-1.48341	-1.14206
RSc2188	***upp***	uracil phosphoribosyltransferase	1756.42	231.317	92.9907	368.797	OK	1744.31	231.52	92.6939	369.49	OK	1872.87	229.525	119.061	336.688	OK	1368.94	174.847	86.6606	257.152	OK	0.001266	-0.01122	-0.40378	1.000878	-1.00781	-1.32297
RSc2189		hypothetical protein	4176.06	185.99	82.664	288.002	OK	4239.34	189.305	84.266	294.01	OK	3406.73	146.696	83.2864	209.876	OK	3190.28	139.357	78.5058	200.275	OK	0.025487	-0.3424	-0.41644	1.017824	-1.26786	-1.33463
RSc2190		hypothetical protein	2439.92	278.603	117.004	439.719	OK	2958.71	340.13	142.285	537.651	OK	2261.89	242.165	128.638	355.899	OK	2255.59	250.345	129.251	369.726	OK	0.287875	-0.20222	-0.15429	1.220841	-1.15047	-1.11288
RSc2191	***purD***	phosphoribosylamine--glycine ligase	2201.61	128.081	57.1438	198.735	OK	3562.23	207.949	93.2774	322.259	OK	3156.65	176.475	98.7769	254.126	OK	3178.49	181.04	100.579	261.185	OK	0.699173	0.462407	0.499252	1.623574	1.377839	1.413481
RSc2192	***hemF***	coproporphyrinogen III oxidase	3402.31	293.32	106.414	480.28	OK	3112.35	269.693	99.4	438.692	OK	3132.19	256.301	130.348	381.819	OK	3080.58	259.082	130.558	387.34	OK	-0.12116	-0.19464	-0.17907	-1.08761	-1.14444	-1.13215
RSc2193		nicotinic acid mononucleotide adenylyltransferase	1511.01	182.227	1.9296	382.06	OK	1314.68	159.685	3.15805	345.563	OK	1159.29	130.726	21.3124	239.511	OK	1112.38	130.29	18.0376	242.571	OK	-0.19051	-0.47919	-0.48401	-1.14117	-1.39396	-1.39863
RSc2194		hypothetical protein	2518.01	360.355	145.113	574.242	OK	2989.07	431.409	172.262	690.732	OK	2880.99	381.796	194.124	564.933	OK	2685.31	372.156	182.498	538.046	OK	0.259637	0.083383	0.046489	1.197178	1.0595	1.032748
RSc2195		SPOUT methyltransferase superfamily protein	559.783	116.628	44.1646	168.454	OK	725.877	153.101	55.9236	221.507	OK	637.998	119.777	57.1919	174.139	OK	436.974	87.4607	39.9264	117.351	OK	0.39257	0.038437	-0.41521	1.312729	1.027	-1.33349
RSc2196	***maf***	Maf-like protein	427.95	59.6537	26.0081	92.9892	OK	520.718	73.1865	31.1684	114.663	OK	343.452	44.4036	23.9262	64.6515	OK	305.519	41.2617	21.279	60.9863	OK	0.294966	-0.42593	-0.53181	1.226856	-1.34344	-1.44574
RSc2197	***cafA***	ribonuclease G	4520.86	222.589	99.2739	345.662	OK	3601.79	177.854	79.9974	275.829	OK	3562.34	169.224	94.9084	242.89	OK	3426.89	165.386	92.3153	238.352	OK	-0.32369	-0.39545	-0.42855	-1.25153	-1.31535	-1.34588
RSc2198		hypothetical protein	452.289	220.803	58.6469	215.334	OK	294.399	147.334	39.1717	141.638	OK	410.142	164.336	60.6934	178.369	OK	329.091	151.178	48.904	132.958	OK	-0.58367	-0.42611	-0.54651	-1.49866	-1.34361	-1.46055
RSc2199		hypothetical protein	1271.68	184.45	72.9028	294.055	OK	804.997	117.768	47.7162	185.551	OK	845.848	113.514	58.2897	167.95	OK	837.685	117.634	57.8704	177.176	OK	-0.64728	-0.70036	-0.64892	-1.56621	-1.62491	-1.568

RSc2200		ABC transporter ATP-binding protein	1432.92	57.0695	25.2681	88.8364	OK	2588.87	103.35	46.5541	159.826	OK	2055.15	79.3045	44.9971	113.6	OK	2177.62	85.1153	48.2826	121.885	OK	0.856747	0.474683	0.576699	1.81095	1.389613	1.491432
RSc2201		putative signal peptide protein	1748.31	161.076	69.0385	252.667	OK	1586.07	146.927	62.531	230.452	OK	1338.24	116.722	62.8675	170.524	OK	1840.37	165.28	87.5127	241.582	OK	-0.13264	-0.46467	0.037171	-1.0963	-1.38	1.026099
RSc2202		glycosyl transferase protein	2077.89	219.732	93.0515	345.56	OK	2115.99	225.165	94.8891	355.082	OK	1612.78	160.498	85.5328	235.092	OK	2088.77	214.934	112.231	317.328	OK	0.035238	-0.45319	-0.03185	1.024726	-1.36906	-1.02232
RSc2203		hypothetical protein	2121.5	180.007	78.386	279.7	OK	3129.83	266.898	117.194	415.635	OK	2497.53	201.257	110.301	292.204	OK	3028.9	250.752	133.823	367.807	OK	0.568235	0.160986	0.478208	1.482709	1.118051	1.393012
RSc2204		hypothetical protein	1091.17	61.3195	27.4246	95.1736	OK	1918.19	108.153	48.153	168.191	OK	1301.56	70.3505	39.5372	101.175	OK	1695.32	93.2993	52.0201	134.397	OK	0.818656	0.198215	0.60552	1.763762	1.147278	1.521527
RSc2205	***dnaE***	DNA polymerase III subunit alpha	10590.2	202.982	78.0601	328.003	OK	13364.8	256.452	96.0895	417.052	OK	14749.5	276.468	144.579	408.374	OK	14372.1	271.072	140.538	401.501	OK	0.337337	0.445761	0.417324	1.263422	1.362032	1.335448
RSc2206		hypothetical protein	1151	107.897	46.4233	168.322	OK	1152.76	108.662	46.7267	170.522	OK	1152.62	102.216	55.3002	148.989	OK	897.52	81.9955	43.9258	119.43	OK	0.010193	-0.07803	-0.39604	1.00709	-1.05558	-1.31589
RSc2207		putative TRP repressor binding protein	5777.33	905.239	344.933	1465.15	OK	3469.31	548.667	213.658	872.729	OK	4182.55	603.366	299.585	903.413	OK	3144.95	476.386	226.408	676.451	OK	-0.72237	-0.58527	-0.92617	-1.64989	-1.50031	-1.90022
RSc2208		putative pirin-like protein	3022.02	362.419	151.006	572.423	OK	3713.11	448.469	185.095	710.438	OK	3049.94	342.102	179.506	503.527	OK	3026.18	352.499	178.779	519.887	OK	0.30735	-0.08323	-0.04004	1.237432	-1.05939	-1.02814
RSc2209		transcriptional regulator transcription regulator protein	1461.32	127.004	54.7016	199.122	OK	1820.67	159.05	68.6801	249.402	OK	1055.92	87.0769	47.42	126.641	OK	1237.49	104.908	56.0035	153.165	OK	0.324606	-0.54451	-0.27575	1.252323	-1.45853	-1.21062
RSc2210		glutamyl-Q tRNA(Asp) synthetase	2164.09	177.314	77.716	276.829	OK	2360.71	194.363	85.0528	302.236	OK	1661.68	129.469	70.7024	187.646	OK	2032.57	162.55	87.1884	237.305	OK	0.132447	-0.4537	-0.12542	1.096151	-1.36955	-1.09083
RSc2211	***rhlE2***	ATP-dependent RNA helicase protein	3487.49	169.379	76.4329	262.408	OK	5311.14	258.69	113.654	402.939	OK	3217.78	150.826	85.0504	216.042	OK	2989.92	142.35	79.4999	204.215	OK	0.610969	-0.16737	-0.25081	1.527285	-1.12301	-1.18988
RSc2212		hypothetical protein	6243.81	593.074	219.423	966.321	OK	5866.82	560.403	202.096	918.327	OK	2635.35	236.68	118.517	354.869	OK	5179.33	479.376	242.555	715.184	OK	-0.08175	-1.32527	-0.30705	-1.0583	-2.50581	-1.23718
RSc2213		putative transcription regulator transcription regulator protein	1566.78	183.791	0.703829	452.796	OK	1780.19	210.279	0.70873	490.205	OK	985.896	108.29	18.6727	199.469	OK	1447.82	165.016	7.18045	324.146	OK	0.194239	-0.76317	-0.15546	1.14412	-1.69721	-1.11378
RSc2214		hypothetical protein	1103.34	82.8156	36.6833	128.297	OK	1568.59	118.26	51.6471	184.49	OK	1058.14	75.7553	41.9807	109.249	OK	1103.32	80.9028	43.9115	117.409	OK	0.513988	-0.12856	-0.03371	1.427992	-1.0932	-1.02364
RSc2215	***rpoD***	RNA polymerase sigma factor RpoD	19763.8	604.371	216.459	990.747	OK	23307.2	714.014	250.704	1177.25	OK	19318.9	574.767	292.307	857.144	OK	20310.2	610.26	306.873	913.085	OK	0.240518	-0.07246	0.01399	1.181417	-1.05151	1.009744
RSc2216	***dnaG***	DNA primase	2610.29	101.882	45.7418	157.981	OK	3414.11	133.563	59.8161	207.313	OK	2685.37	101.587	57.9568	145.19	OK	2033.47	77.8995	44.0724	111.496	OK	0.390621	-0.00418	-0.38721	1.310958	-1.0029	-1.30786
RSc2217		hypothetical protein	1347.74	301.202	103.614	462.399	OK	1715.79	388.523	132.38	557.426	OK	1207.08	241.61	110.827	353.8	OK	810.488	173.709	75.9556	233.373	OK	0.367269	-0.31805	-0.79406	1.289908	-1.24665	-1.73395
RSc2218		putative transmembrane protein	444.176	26.5601	12.9945	40.0232	OK	560.278	33.6211	16.0613	51.0426	OK	267.87	15.3816	9.22977	21.5361	OK	345.409	20.2175	11.8962	28.5097	OK	0.340106	-0.78805	-0.39366	1.26585	-1.72674	-1.31372
RSc2219	***gcp***	O-sialoglycoprotein endopeptidase	856.915	62.5689	28.2525	96.8482	OK	1145.4	83.9944	37.0737	130.221	OK	493.504	34.4009	19.8993	48.6224	OK	514.034	36.6766	20.8729	52.2736	OK	0.424847	-0.863	-0.77059	1.342431	-1.81882	-1.70596
RSc2220		putative GTP cyclohydrolase	5003.57	499.584	208.765	784.623	OK	4954.18	497.582	207.248	783.106	OK	4637.16	436.839	231.611	639.803	OK	4935.45	479.875	248.93	710.184	OK	-0.00579	-0.19363	-0.05807	-1.00402	-1.14363	-1.04107
RSc2221	***dxs***	1-deoxy-D-xylulose-5-phosphate synthase	4816.98	177.368	77.8136	276.678	OK	5162.1	190.49	83.5427	297.606	OK	4013.61	143.382	81.3178	205.422	OK	4706.09	170.128	95.713	244.485	OK	0.10297	-0.30688	-0.06013	1.073982	-1.23703	-1.04256
RSc2222	***ispA***	geranyltranstransferase	3104.16	270.88	105.761	436.066	OK	2482.15	217.721	84.8662	349.984	OK	1863.98	154.314	77.085	231.396	OK	2392.48	203.638	103.274	303.399	OK	-0.31517	-0.81178	-0.41165	-1.24416	-1.75538	-1.3302
RSc2223	***xseB***	exodeoxyribonuclease VII small subunit	945.141	482.235	11.2249	1103.62	OK	823.397	430.997	5.75782	970.454	OK	874.746	364.197	74.5258	653.246	OK	815.021	390.987	47.0132	737.819	OK	-0.16206	-0.40502	-0.30262	-1.11888	-1.3241	-1.23338
RSc2224		dioxygenase alpha subunit	3749.13	257.955	114.96	400.424	OK	5155.66	356.175	155.548	556.265	OK	3663.49	241.088	133.486	348.324	OK	3008.05	202.354	110.573	293.414	OK	0.465467	-0.09756	-0.35024	1.380764	-1.06996	-1.27477
RSc2225		hypothetical protein	1491.74	118.166	51.3226	184.682	OK	1724.99	137.284	59.8434	214.472	OK	1551.65	117.021	64.0529	169.548	OK	1468.67	113.593	60.7297	166.225	OK	0.216349	-0.01405	-0.05694	1.161789	-1.00978	-1.04026
RSc2226	***sseA***	thiosulfate sulfurtransferase protein	7919.11	699.581	284.781	1111.44	OK	5830.94	517.807	217.127	816.902	OK	6457.78	540.97	289.136	792.184	OK	5441.33	468.795	246.925	689.435	OK	-0.43408	-0.37094	-0.57753	-1.35105	-1.2932	-1.4923
RSc2227		hypothetical protein	1780.76	177.801	75.334	279.949	OK	3058.99	307.235	131.675	482.249	OK	3083.29	290.458	155.562	425.118	OK	3714.28	361.14	188.863	532.736	OK	0.789079	0.708066	1.022295	1.727971	1.633613	2.031147
RSc2228		putative carboxymethylenebutenolidase (dienelactone hydrolase) protein	6827.94	610.725	252.347	968.351	OK	5423.38	487.666	205.251	766.459	OK	8556.29	725.37	383.495	1064.12	OK	7160.22	624.507	326.014	922.433	OK	-0.32463	0.248194	0.032195	-1.25234	1.18772	1.022567
RSc2229	***ndh***	NADH dehydrogenase, membrane flavoprotein FAD NAD ubiquinone electron transport oxidoreductase	3227.88	178.589	80.4284	276.4	OK	4887.94	271.32	119.428	423.317	OK	7763.79	413.31	226.385	597.322	OK	6652.53	360.492	197.015	523.776	OK	0.603352	1.210581	1.013324	1.519243	2.314308	2.018557
RSc2230	***polA***	DNA polymerase I	6876.61	165.308	26.0007	304.822	OK	8714.21	209.779	44.4074	374.301	OK	6922.39	162.38	61.8097	263.429	OK	6009.76	142.073	54.6761	229.461	OK	0.343714	-0.02578	-0.21852	1.269019	-1.01803	-1.16354
RSc2231		hypothetical protein	5996.37	487.588	10.4082	973.651	OK	5096.78	416.435	8.41566	884.952	OK	6036.53	466.896	137.056	797.893	OK	6057.81	480.828	157.239	804.449	OK	-0.22757	-0.06256	-0.02014	-1.17086	-1.04432	-1.01406
RSc2232		putative transmembrane protein	2244.2	559.549	187.53	774.652	OK	2284.35	577.89	190.75	788.912	OK	2347.48	518.919	232.495	738.479	OK	2114.16	504.106	209.2	665.72	OK	0.04653	-0.10876	-0.15054	1.032778	-1.0783	-1.10998
RSc2233	***thrB***	homoserine kinase	1388.3	106.059	36.3337	175.773	OK	2112.31	162.099	56.2628	267.857	OK	1262.66	91.9514	42.1648	141.097	OK	1452.35	108.373	50.8885	165.751	OK	0.612008	-0.20592	0.031138	1.528385	-1.15342	1.021818
RSc2234		hypothetical protein	849.816	86.0511	4.65789	172.443	OK	1235.56	125.862	3.056	252.324	OK	1150.4	109.838	39.6235	180.359	OK	952.822	93.9368	28.3934	159.614	OK	0.548577	0.352112	0.126497	1.462643	1.276428	1.09164
RSc2235	***uvrD***	DNA helicase II protein	5459.91	151.041	64.1423	237.999	OK	6557.74	181.707	75.9621	287.399	OK	5359.63	144.441	80.9071	207.715	OK	5351.58	145.52	81.4684	209.603	OK	0.266674	-0.06446	-0.05372	1.203031	-1.04569	-1.03794
RSc2236	***valS***	valyl-tRNA synthetase	9453.44	221.789	88.4821	354.948	OK	14212.1	333.894	124.704	540.818	OK	12344.3	282.674	150.098	415.064	OK	9065.86	209.183	114.344	303.78	OK	0.590202	0.349951	-0.08442	1.505458	1.274518	-1.06026
RSc2237	***galU1***	UTP--glucose-1-phosphate uridylyltransferase protein	3921.52	356.706	154.044	557.18	OK	6232.06	569.931	236.137	896.654	OK	9442.15	813.496	426.611	1195.71	OK	5627.18	499.018	260.26	737.04	OK	0.676052	1.1894	0.484356	1.597761	2.280578	1.398962
RSc2238		hypothetical protein	546.6	42.2078	19.6565	64.6596	OK	2138.99	165.926	73.0654	258.509	OK	1716.15	126.279	69.5275	182.94	OK	1565.67	118.077	63.404	172.033	OK	1.974958	1.581033	1.484146	3.931169	2.99184	2.797516
RSc2239	***infA2***	translation initiation factor IF-1	666.264	646.658	110.57	436.986	OK	690.917	695.564	114.981	474.626	OK	709.134	512.764	135.766	414.261	OK	573.869	520.192	111.108	333.903	OK	0.10518	-0.33471	-0.31396	1.075629	-1.26112	-1.24311
RSc2240		hypothetical protein	4156.8	2029.31	500.823	2064.15	OK	2886.03	1444.34	351.218	1429.22	OK	5519.68	2211.63	774.605	2546.29	OK	4513.89	2073.6	634.224	2074.06	OK	-0.49058	0.124121	0.031148	-1.40501	1.089843	1.021825
RSc2241		hypothetical protein	8607.68	751.137	267.121	1233.78	OK	7630.45	669.303	239.5	1098.47	OK	2491.97	206.305	110.192	302.128	OK	8813.83	750.195	381.966	1115.47	OK	-0.16642	-1.8643	-0.00181	-1.12227	-3.64091	-1.00126
RSc2242	***pobB***	4-hydroxybenzoate 3-monooxygenase	2106.29	126.654	0.661444	326.032	OK	2028.59	122.416	0.603452	299.976	OK	560.193	32.3427	1.1547	66.2219	OK	1578.37	92.8986	1.53029	205.059	OK	-0.0491	-1.96938	-0.44716	-1.03462	-3.916	-1.36336
RSc2243		transcription regulator protein	530.374	41.705	19.5632	63.7445	OK	897.917	70.9348	31.7081	109.764	OK	399.027	29.8806	17.2267	42.5487	OK	620.105	47.6137	26.4877	68.0002	OK	0.766273	-0.48101	0.191156	1.70087	-1.39572	1.141678
RSc2244		substrate-binding periplasmic ABC transporter protein	2507.87	158.809	71.3382	246.352	OK	3648.71	231.917	103.675	359.422	OK	3246.68	197.12	109.82	284.249	OK	2721.57	168.62	93.3306	243.834	OK	0.546316	0.311781	0.086483	1.460352	1.241239	1.061779
RSc2245		ABC transporter ATP-binding protein	613.531	73.1695	5.22914	141.003	OK	724.037	86.96	9.8161	164.213	OK	703.576	78.5021	21.3582	134.937	OK	498.622	57.7633	14.6611	100.727	OK	0.24911	0.101489	-0.34109	1.188473	1.07288	-1.26671
RSc2246		ABC transporter ATP-binding protein	592.234	62.3205	3.49463	121.147	OK	603.518	63.9043	4.24348	123.56	OK	459.047	45.4691	6.64866	84.0521	OK	398.898	40.8479	7.79781	73.8739	OK	0.036206	-0.45482	-0.60944	1.025414	-1.37061	-1.52567
RSc2247		transmembrane ABC transporter protein	703.785	52.4585	3.51506	101.309	OK	668.838	50.0736	3.38953	96.7898	OK	592.427	42.1286	9.04056	75.1729	OK	453.293	33.01	6.74946	59.0113	OK	-0.06713	-0.31638	-0.66827	-1.04763	-1.2452	-1.58917
RSc2248		transmembrane ABC transporter protein	909.648	82.7426	3.36556	169.733	OK	857.437	78.4139	4.11532	168.454	OK	950.328	81.8763	20.4189	143.363	OK	746.12	66.1659	17.2039	115.461	OK	-0.07752	-0.01518	-0.32254	-1.0552	-1.01058	-1.25053
RSc2249	***pcaC***	putative 4-carboxymuconolactone decarboxylase protein	540.515	148.464	18.5397	277.933	OK	404.799	112.961	11.0588	213.694	OK	854.739	206.158	67.2216	340.76	OK	465.079	121.857	33.691	206.478	OK	-0.39429	0.473637	-0.28492	-1.31429	1.388606	-1.21835
RSc2250	***pcaD***	B-ketoadipate enol-lactone hydrolase transmembrane protein	1642.84	162.519	50.0562	275.013	OK	1453.59	144.641	45.2751	244.187	OK	1423.82	132.947	58.7319	207.102	OK	956.448	92.1494	43.8372	140.664	OK	-0.16813	-0.28976	-0.81856	-1.1236	-1.22243	-1.76365
RSc2251	***pcaB***	3-carboxy-cis,cis-muconate cycloisomerase	1915.64	102.807	45.9602	159.489	OK	1775.59	95.5936	42.4139	148.283	OK	1479.4	76.4506	42.9141	109.804	OK	1257.43	66.1088	37.0368	95.1108	OK	-0.10495	-0.42734	-0.63702	-1.07546	-1.34475	-1.55512
RSc2252	***pacF***	beta-ketoadipyl CoA thiolase	3150.81	194.922	88.0093	300.966	OK	3106.83	192.905	86.8316	298.664	OK	3343.38	198.439	110.745	286.288	OK	2914.67	176.454	97.4362	254.602	OK	-0.01501	0.025799	-0.1436	-1.01046	1.018043	-1.10466
RSc2253	***pcaJ***	3-oxoadipate CoA-transferase subunit B protein	972.522	125.011	42.1569	207.676	OK	964.156	124.882	38.2715	211.464	OK	1717.26	205.693	101.095	310.088	OK	1251.09	156.029	72.6349	238.507	OK	-0.00149	0.718438	0.319759	-1.00103	1.645399	1.248122
RSc2254	***pcaI***	3-oxoadipate CoA-transferase subunit A protein	506.036	61.7213	3.53714	128.557	OK	690.917	84.8817	5.77412	167.081	OK	634.664	72.3376	10.372	134.494	OK	569.336	67.4307	13.3834	121.754	OK	0.459685	0.228977	0.127637	1.375242	1.172004	1.092503
RSc2255		transcription regulator protein	1185.48	114.633	49.0785	180.214	OK	1547.43	150.491	63.6232	236.526	OK	1623.89	148.358	79.7981	216.529	OK	1273.75	119.991	63.3781	176.093	OK	0.392655	0.37206	0.065904	1.312807	1.2942	1.04674
RSc2256		putative signal peptide protein	1073.93	195.35	73.1376	304.532	OK	1023.96	188.275	70.1422	289.555	OK	971.446	160.973	78.1833	242.799	OK	848.564	148.754	68.8259	213.865	OK	-0.05322	-0.27924	-0.39313	-1.03758	-1.21356	-1.31324
RSc2257		amino-acid-binding periplasmic ABC transporter protein	7765.98	721.692	292.855	1148.9	OK	8601.97	803.784	320.423	1286.74	OK	14306	1258.14	639.849	1872.51	OK	11755.7	1064.79	537.604	1589.4	OK	0.155425	0.801837	0.561114	1.113749	1.74332	1.475408
RSc2258		amino acid ABC transporter transmembrane protein	363.048	43.7835	19.9865	67.2694	OK	419.518	50.9561	22.8549	78.2805	OK	250.086	28.2007	15.5178	40.6201	OK	400.711	46.9342	24.7372	67.0916	OK	0.218868	-0.63466	0.100252	1.16382	-1.55257	1.071961
RSc2259		amino acid ABC transporter transmembrane protein	338.709	41.0791	3.15964	79.084	OK	347.759	42.4803	4.46067	80.478	OK	353.455	40.0704	9.90103	70.224	OK	444.227	52.3205	12.6513	91.9512	OK	0.048389	-0.03587	0.348972	1.03411	-1.02517	1.273653
RSc2260		amino-acid ATP-binding ABC transporter protein	1151	126.063	38.6621	213.354	OK	994.516	109.632	31.9685	187.071	OK	1142.62	117.577	58.5508	177.093	OK	1480.45	157.702	76.8027	238.504	OK	-0.20148	-0.10054	0.323056	-1.14987	-1.07217	1.250978
RSc2261		putative amino-acid-binding periplasmic (PBP) ABC transporter protein	6954.7	585.472	243.571	925.582	OK	2982.63	252.341	110.809	393.423	OK	11160.5	892.551	467.749	1317.03	OK	23252.1	1910.03	923.298	2893.94	OK	-1.21423	0.608334	1.705923	-2.32016	1.524498	3.262376
RSc2262		D-amino acid dehydrogenase small subunit	2319.25	133.836	59.7145	207.817	OK	1176.68	68.1338	30.1344	105.874	OK	4414.86	244.877	136.16	353.401	OK	6647.09	375.573	205.061	545.885	OK	-0.97402	0.871591	1.488627	-1.96431	1.82968	2.806218
RSc2263		lipoprotein	614.545	39.0306	18.2908	59.7462	OK	401.119	25.5714	12.5407	38.553	OK	374.574	22.8074	13.5059	32.0899	OK	478.677	29.7444	17.0174	42.3544	OK	-0.61007	-0.7751	-0.39199	-1.52634	-1.71131	-1.3122
RSc2264		lipoprotein	69.9729	252.024	17.6787	63.1382	OK	43.2398	165.154	10.523	39.1457	OK	68.9127	148.742	18.6858	56.0573	OK	65.2742	217.733	17.8553	53.1506	OK	-0.60975	-0.76075	-0.211	-1.52599	-1.69437	-1.15749
RSc2269		putative signal peptide protein	1630.67	1202	232.957	982.976	OK	970.596	738.613	142.053	582.259	OK	1885.1	1077.79	321.58	1026.7	OK	1579.27	1089.11	269.029	859.637	OK	-0.70255	-0.15736	-0.14229	-1.62737	-1.11525	-1.10365
RSc2270		hypothetical protein	774.772	41.2704	2.11382	80.56	OK	768.197	41.049	2.20777	79.9493	OK	721.36	37.0067	9.03622	64.9681	OK	758.812	39.5991	10.4728	68.768	OK	-0.00776	-0.15732	-0.05964	-1.00539	-1.11521	-1.04221
RSc2271		hypothetical protein	1461.32	65.9033	18.1052	113.694	OK	1444.39	65.3138	17.6596	112.965	OK	1327.12	57.8525	24.5735	91.1019	OK	1365.32	60.3871	26.6113	94.1386	OK	-0.01296	-0.18797	-0.12611	-1.00903	-1.13916	-1.09135
RSc2272		hypothetical protein	625.7	48.6659	0.311114	114.023	OK	662.398	51.7576	0.859504	119.237	OK	552.413	40.9325	1.92654	80.1737	OK	514.941	39.1134	2.20275	78.3117	OK	0.088859	-0.24966	-0.31525	1.063529	-1.18893	-1.24423
RSc2273		hypothetical protein	1982.57	98.9757	36.2366	161.623	OK	1975.23	98.9007	34.7286	162.777	OK	1763.94	84.9369	41.4793	128.376	OK	1608.28	78.6935	38.0227	119.362	OK	-0.00109	-0.22068	-0.33083	-1.00076	-1.16529	-1.25774
RSc2274		putative lipoprotein	918.775	148.289	6.45596	314.405	OK	1048.8	170.9	13.1989	349.037	OK	916.983	135.987	32.9223	239.651	OK	923.811	144.058	40.0762	247.786	OK	0.204741	-0.12494	-0.04176	1.152479	-1.09046	-1.02937
RSc2275		putative signal peptide protein	4023.95	67.5387	7.5529	127.642	OK	3967.03	66.6492	3.81671	130.332	OK	3139.97	51.5951	18.1269	84.9789	OK	3276.4	54.1307	17.7456	90.5075	OK	-0.01913	-0.38848	-0.31927	-1.01335	-1.30901	-1.2477
RSc2276		putative signal peptide protein	4805.82	115.27	12.4964	218.387	OK	6117.06	146.928	21.6895	273.341	OK	3909.13	91.4945	35.4123	147.711	OK	4670.73	110.172	44.3921	176.224	OK	0.350092	-0.33326	-0.06526	1.274642	-1.25986	-1.04627
RSc2277		hypothetical protein	1909.55	105.65	47.1594	164.014	OK	2596.23	144.112	64.9352	222.149	OK	2458.63	130.887	73.8327	187.816	OK	3555.63	192.675	106.892	278.322	OK	0.447898	0.309029	0.866877	1.364051	1.238874	1.82371
RSc2279		signal peptide protein	2687.37	2180.87	403.469	1661.49	OK	437.918	367.497	70.731	258.98	OK	971.446	603.056	172.947	543.005	OK	449.667	341.137	82.2653	243.266	OK	-2.5691	-1.85454	-2.67648	-5.93439	-3.61636	-6.39294
RSc2280		signal peptide protein	3960.06	2166.19	503.308	2071.1	OK	3254.03	1828.25	413.94	1703.59	OK	5071.75	2242.94	751.1	2464.15	OK	8129.36	4176.07	1190.99	3698.87	OK	-0.2447	0.050231	0.946986	-1.18484	1.035431	1.927841
RSc2281		hypothetical protein	251.497	92.3598	9.20014	175.378	OK	171.119	64.1219	8.05012	117.11	OK	163.39	51.0257	13.2357	87.9232	OK	180.411	62.7324	17.0174	100.592	OK	-0.52645	-0.85604	-0.55805	-1.44038	-1.81006	-1.47228
RSc2282		hypothetical protein	877.197	131.681	43.0831	220.219	OK	557.518	84.4394	28.9281	140.248	OK	426.814	59.1535	30.2133	88.0067	OK	359.915	52.2752	25.8533	78.7219	OK	-0.64106	-1.15451	-1.33285	-1.55947	-2.22609	-2.519
RSc2283		hypothetical protein	344.794	91.2313	32.757	124.668	OK	260.359	69.9537	24.8063	89.2073	OK	215.63	50.2905	23.0596	63.061	OK	157.746	39.8546	16.7849	46.5898	OK	-0.38313	-0.85924	-1.19478	-1.30417	-1.81409	-2.2891
RSc2284		putative transmembrane protein	949.198	91.7849	40.1339	142.802	OK	1136.2	110.497	47.2118	173.447	OK	788.05	71.9957	39.7456	104.198	OK	1057.08	99.5796	52.6361	146.015	OK	0.267678	-0.35035	0.117593	1.203869	-1.27487	1.084924
RSc2285		putative signal peptide protein	4649.65	1108.08	374.927	1559.94	OK	5579.78	1348.4	443.651	2050.25	OK	10032.4	2128.81	933.267	2934.81	OK	3497.61	798.064	333.835	1080.77	OK	0.283186	0.941985	-0.47349	1.21688	1.92117	-1.38846

RSc2286		hypothetical protein	2694.46	219.097	95.7914	339.017	OK	3921.95	320.444	139.873	499.141	OK	3946.92	305.275	166.154	442.124	OK	2498.55	198.318	106.619	289.821	OK	0.548503	0.47854	-0.14375	1.462567	1.393333	-1.10478
RSc2287		putative thiol:disulfide interchange protei	1183.45	256.5	90.2175	377.286	OK	760.837	167.018	59.9112	238.803	OK	938.102	182.593	85.2624	267.276	OK	794.169	165.197	72.6669	223.399	OK	-0.61896	-0.49033	-0.63477	-1.53576	-1.40476	-1.55269
RSc2288		hypothetical protein	4084.8	292.292	130.136	454.142	OK	3034.15	218.032	97.3898	337.65	OK	3155.53	215.704	119.765	311.018	OK	3843.92	268.832	145.608	389.266	OK	-0.42287	-0.43836	-0.12071	-1.34059	-1.35506	-1.08727
RSc2289		cytochrome c1 precursor protein	2065.72	111.699	50.0262	172.878	OK	1575.95	85.4887	37.6981	133.324	OK	1935.11	100.738	56.723	144.625	OK	1836.74	97.2901	54.3282	140.07	OK	-0.38581	-0.14901	-0.19925	-1.30659	-1.10881	-1.1481
RSc2290		iron oxidase precursor oxidoreductase protein	46.6486	23.2767	6.03759	21.6906	OK	28.5199	14.5938	3.57783	13.6405	OK	22.2299	9.0779	2.86775	11.6916	OK	22.6646	10.6375	2.86775	12.1328	OK	-0.67353	-1.35846	-1.12973	-1.59497	-2.56411	-2.18817
RSc2291		putative transglycosylase protein	48.6768	6.65561	2.95044	10.2757	OK	51.5198	7.10159	3.15392	10.7844	OK	27.7874	3.52791	1.60585	5.41976	OK	49.8622	6.60769	3.21171	9.73549	OK	0.093571	-0.91576	-0.01042	1.067008	-1.88656	-1.00725
RSc2292		putative transmembrane protein	93.2972	13.0051	5.77958	19.8157	OK	79.1197	11.1202	4.85072	17.2355	OK	64.4667	8.33465	4.27617	12.3194	OK	92.4718	12.4887	6.21062	18.2246	OK	-0.22589	-0.64188	-0.05845	-1.1695	-1.56037	-1.04135
RSc2293		hypothetical protein	273.807	12.4266	6.35456	18.5341	OK	265.879	12.0992	6.19162	18.0046	OK	268.982	11.7984	7.19301	16.3953	OK	218.487	9.72446	5.82674	13.5422	OK	-0.03852	-0.07484	-0.35374	-1.02706	-1.05324	-1.27787
RSc2294		hypothetical protein	168.341	16.061	7.77121	24.3139	OK	204.239	19.5963	9.387	29.7768	OK	170.059	15.3379	8.80486	21.9362	OK	228.46	21.2381	11.841	30.4375	OK	0.28702	-0.06646	0.403093	1.220117	-1.04714	1.32234
RSc2295		putative signal peptide protein	150.087	15.5647	7.40241	23.6877	OK	140.759	14.6872	6.90892	22.454	OK	187.843	18.3485	10.3858	25.9644	OK	184.037	18.5762	10.2235	26.6946	OK	-0.08372	0.237384	0.255178	-1.05975	1.178853	1.193483
RSc2296		putative transmembrane protein	58.8178	11.2715	0	31.4246	OK	88.3197	17.1178	0	43.5806	OK	46.6828	8.1166	0	23.4735	OK	70.7137	13.044	0	29.8522	OK	0.602818	-0.47373	0.210707	1.51868	-1.3887	1.157255
RSc2297		putative signal peptide protein	1405.54	11.2208	4.17524	18.2976	OK	1423.23	11.3674	4.14526	18.7535	OK	1715.04	13.4577	7.37608	19.5466	OK	1742.46	13.7084	7.39525	20.0222	OK	0.018727	0.262256	0.288885	1.013065	1.199353	1.221695
RSc2298		putative signal peptide protein	191.665	8.58967	4.39006	12.7674	OK	177.559	7.9786	4.10813	11.8814	OK	248.975	10.7868	6.55579	14.979	OK	200.355	8.8064	5.3241	12.2772	OK	-0.10647	0.328592	0.03595	-1.07659	1.255787	1.025231
RSc2299		signal peptide protein	415.781	19.9231	9.921	29.8913	OK	354.199	17.0203	8.63811	25.4439	OK	469.051	21.6976	12.9088	30.5002	OK	441.507	20.7404	12.276	29.1503	OK	-0.22719	0.123093	0.058002	-1.17055	1.089067	1.041023
RSc2300		signal peptide protein	68.9588	13.3337	5.33422	19.1251	OK	69.9197	13.6749	5.46433	19.5155	OK	81.1391	14.2242	6.93072	20.9205	OK	75.2466	14.0021	6.28899	19.3803	OK	0.036453	0.09327	0.070566	1.025589	1.066786	1.050129
RSc2301		putative GSPG-related protein	22.3102	6.20669	1.96644	9.66834	OK	28.5199	8.06231	2.62192	9.99608	OK	28.8989	7.05052	2.74819	10.1845	OK	25.3844	6.73423	2.42487	8.56787	OK	0.377369	0.183906	0.117689	1.298971	1.135955	1.084995
RSc2302		GSPG-like signal peptide protein	20.282	3.65836	1.36495	5.83207	OK	18.3999	3.35449	1.24087	5.21164	OK	8.89196	1.462	0.489646	2.32582	OK	9.97244	1.73382	0.612058	2.81547	OK	-0.1251	-1.32325	-1.07724	-1.09059	-2.5023	-2.11
RSc2303		GSPD-like protein	154.143	4.4959	2.30974	6.65749	OK	126.96	3.70941	1.95649	5.48903	OK	164.501	4.67105	2.8683	6.48719	OK	167.718	4.8075	2.94872	6.64803	OK	-0.27742	0.055137	0.096677	-1.21203	1.038958	1.069308
RSc2304		hypothetical protein	6.0846	0.859316	0.208417	1.45892	OK	13.7999	1.96531	0.729461	3.12626	OK	13.3379	1.74572	0.719614	2.67285	OK	9.06586	1.2402	0.411208	2.05604	OK	1.193496	1.022562	0.529312	2.287063	2.031523	1.443241
RSc2305		hypothetical protein	12.1692	1.93501	0	4.77044	OK	9.19997	1.47672	0	3.63462	OK	6.66897	0.975339	0	2.46507	OK	11.7856	1.81116	0	3.69761	OK	-0.38994	-0.98837	-0.09543	-1.31034	-1.98394	-1.06838
RSc2306		hypothetical protein	30.423	5.30923	0.363847	10.1877	OK	22.9999	4.05547	0.242565	7.76208	OK	16.6724	2.65868	0.23929	5.0251	OK	16.3185	2.74696	0.119645	5.26439	OK	-0.38863	-0.99779	-0.95067	-1.30915	-1.99694	-1.93277
RSc2307		signal peptide protein	62.8742	5.0741	1.07335	9.05639	OK	60.7198	4.92366	1.2746	8.5868	OK	41.1253	3.15778	0.860324	5.42666	OK	52.582	4.14255	1.32357	6.94877	OK	-0.04342	-0.68424	-0.29263	-1.03055	-1.60686	-1.22487
RSc2308		putative GSPE-related protein	113.579	4.74357	1.46175	8.06053	OK	97.5196	4.0829	1.25603	6.95001	OK	116.707	4.71844	2.26407	7.15608	OK	131.455	5.38665	2.58156	8.19543	OK	-0.21638	-0.00766	0.183415	-1.16181	-1.00533	1.135569
RSc2309		putative GSPF-related transmembrane protei	50.705	3.13682	1.60601	4.71096	OK	52.4398	3.25602	1.65954	4.87156	OK	31.1219	1.84717	0.950597	2.69336	OK	38.9832	2.36004	1.21465	3.48552	OK	0.053807	-0.76399	-0.41049	1.038	-1.69818	-1.32914
RSc2310		putative GSPG-related transmembrane protei	20.282	4.26697	1.5137	7.01806	OK	23.9199	5.09507	1.78892	7.15567	OK	30.0104	5.68452	2.44352	8.55233	OK	38.0766	7.69376	3.25803	11.1316	OK	0.25589	0.413827	0.850477	1.194072	1.332215	1.803097
RSc2311		putative two-component sensor histidine kinase transcription regulator protein	344.794	22.4292	11.1248	33.7099	OK	230.919	15.0794	7.60289	22.5292	OK	262.313	16.3479	9.70622	22.942	OK	339.063	21.5754	12.574	30.4974	OK	-0.5728	-0.45627	-0.05599	-1.48741	-1.37199	-1.03957
RSc2312		two-component response regulator transcription regulator protei	152.115	17.6509	8.26345	27.0358	OK	120.52	14.081	6.55686	21.3772	OK	113.372	12.3249	6.73417	17.7215	OK	118.763	13.3919	7.0886	19.5823	OK	-0.32599	-0.51817	-0.39838	-1.25353	-1.43213	-1.31803
RSc2313		transposase	861.985	80.1042	25.3838	134.677	OK	605.358	56.5658	18.9813	94.0782	OK	842.513	74.0946	34.8495	113.168	OK	854.91	77.4347	37.0787	117.552	OK	-0.50195	-0.11251	-0.0489	-1.41612	-1.08111	-1.03447
RSc2314		transposase	584.122	252.195	12.5208	496.945	OK	393.759	173.921	12.3674	339.221	OK	623.549	224.463	73.0751	375.815	OK	473.238	192.743	52.5398	333.16	OK	-0.53611	-0.16806	-0.38786	-1.45005	-1.12355	-1.30845
RSc2315		hypothetical protein	1056.69	318.47	99.7786	411.136	OK	634.798	194.629	62.1684	241.117	OK	1092.6	286.353	121.134	382.206	OK	667.247	191.364	74.8826	229.222	OK	-0.71043	-0.15336	-0.73484	-1.63629	-1.11216	-1.66421
RSc2316		putative drug transport transmembrane protei	891.394	55.3047	25.009	85.385	OK	390.999	24.3478	12.0215	36.6549	OK	461.27	27.4547	16.0417	38.8072	OK	413.403	25.0992	14.5064	35.3659	OK	-1.18361	-1.01035	-1.13976	-2.27145	-2.0144	-2.20344
RSc2317		hypothetical protein	656.123	109.18	43.7551	170.446	OK	159.159	26.7466	11.2614	39.6494	OK	296.769	45.2787	23.4916	63.3002	OK	204.888	32.9196	16.2011	44.3217	OK	-2.02928	-1.2698	-1.72969	-4.08201	-2.41129	-3.31657
RSc2318		transcription regulator protein	550.656	120.562	44.6288	180.351	OK	275.079	61.0066	23.1618	84.4557	OK	550.19	108.083	51.4104	152.977	OK	356.288	74.8474	33.8557	92.0929	OK	-0.98274	-0.15764	-0.68775	-1.97621	-1.11546	-1.61077
RSc2319		hypothetical protein	1156.07	93.298	40.8544	145.64	OK	547.398	44.3875	20.5278	68.0235	OK	804.722	61.7901	34.4129	88.7457	OK	625.544	49.2821	27.3318	70.8774	OK	-1.07169	-0.59447	-0.92078	-2.1019	-1.50992	-1.89314
RSc2320		hypothetical protein	96.3395	58.2362	14.1487	50.0083	OK	42.3198	26.3206	6.09858	22.1988	OK	50.0173	24.1141	7.7008	23.343	OK	47.1425	26.7217	7.2195	22.1398	OK	-1.14572	-1.27204	-1.1239	-2.21257	-2.41503	-2.17936
RSc2321		dehydrogenase/reductase oxidoreductase protein	213.975	20.6908	9.87793	31.5005	OK	137.079	13.3312	6.37788	20.1448	OK	146.717	13.404	7.59617	19.1055	OK	106.071	9.99212	5.44776	14.5018	OK	-0.63418	-0.62633	-1.05013	-1.55206	-1.54363	-2.07071
RSc2322		transcription regulator protein	211.947	63.8774	21.9822	77.9681	OK	195.959	60.0811	20.4366	74.1899	OK	165.613	43.4045	19.1442	54.383	OK	123.296	35.3608	14.0617	40.9991	OK	-0.08839	-0.55746	-0.85315	-1.06319	-1.47168	-1.80645
RSc2323		transporter transmembrane protein	193.693	8.8846	4.5237	13.2421	OK	211.599	9.73226	4.97607	14.4758	OK	223.41	9.90204	6.00426	13.7936	OK	148.68	6.68775	3.9758	9.37152	OK	0.131468	0.156419	-0.40979	1.095408	1.114517	-1.32849
RSc2324		putative transport transmembrane protei	322.484	16.4046	8.34327	24.4435	OK	289.799	14.7862	7.53149	22.0082	OK	302.327	14.8273	8.98696	20.6433	OK	247.498	12.3382	7.38533	17.2621	OK	-0.14985	-0.14584	-0.41097	-1.10945	-1.10638	-1.32958
RSc2325		transcription regulator protein	514.149	98.5286	38.6665	146.001	OK	612.718	118.755	45.2617	175.357	OK	684.681	119.043	58.0459	177.2	OK	610.132	112.546	51.9224	157.171	OK	0.269374	0.272868	0.1919	1.205285	1.208208	1.142267
RSc2337	***serS***	seryl-tRNA synthetase	4619.23	257.559	114.377	400.44	OK	5921.1	331.238	143.423	518.875	OK	4855.01	260.424	144.381	375.594	OK	4508.45	246.197	136.036	355.767	OK	0.362965	0.015959	-0.06509	1.286066	1.011124	-1.04615
RSc2338		recombination factor protein RarA	3213.68	174.212	78.6646	269.578	OK	2494.11	135.638	61.2048	209.756	OK	2658.7	138.747	78.4498	198.877	OK	2623.66	139.321	77.9792	200.101	OK	-0.36108	-0.32839	-0.32243	-1.28439	-1.25561	-1.25044
RSc2339		lipoprotein transmembrane	2715.76	685.032	228.415	943.312	OK	1681.75	430.483	139.922	589.956	OK	2598.67	580.507	259.002	824.997	OK	2011.71	485.136	200.041	639.887	OK	-0.67022	-0.23886	-0.49778	-1.59131	-1.18006	-1.41204
RSc2340	***lolA***	outer-membrane lipoprotein carrier protei	3047.37	403.809	164.68	640.034	OK	2804.15	374.506	150.766	596.007	OK	3495.65	430.894	221.086	638.355	OK	4653.51	597.969	294.422	887.187	OK	-0.10868	0.09366	0.566398	-1.07824	1.067074	1.480821
RSc2341	***ftsK***	cell division ftsk transmembrane protei	5207.4	153.554	66.2677	240.968	OK	6310.26	186.398	78.4287	294.416	OK	6126.56	175.851	97.843	253.91	OK	6402.31	185.526	103.774	267.071	OK	0.27964	0.195607	0.272875	1.213892	1.145206	1.208213
RSc2342	***trxB***	thioredoxin reductase oxidoreductase protein	6612.95	535.695	225.303	844.346	OK	7896.33	642.727	264.132	1021.47	OK	16332.3	1258.63	646.734	1857.95	OK	7061.4	558.394	295.419	813.961	OK	0.262794	1.232371	0.059872	1.1998	2.349527	1.042373
RSc2343		hypothetical protein	1143.9	146.166	59.8562	231.399	OK	1306.4	168.196	68.0755	267.854	OK	1228.2	146.286	75.7419	214.348	OK	1101.5	136.569	68.5874	201.947	OK	0.202536	0.001184	-0.09798	1.150719	1.000821	-1.07027
RSc2344		hypothetical protein	1404.53	195.783	77.8179	313.439	OK	1513.39	212.706	83.8038	340.995	OK	1709.48	221.012	113.522	325.803	OK	1445.1	195.167	95.3992	284.67	OK	0.119605	0.174869	-0.00455	1.086438	1.128862	-1.00316
RSc2345	***glnB***	nitrogen regulatory P-II transcription regulator protei	3448.95	1245.78	359.24	1466.02	OK	3184.11	1173.23	332.453	1352.8	OK	4637.16	1427.14	560.54	1825.55	OK	3078.77	1053.38	375.567	1207.85	OK	-0.08656	0.196078	-0.24202	-1.06184	1.145579	-1.18265
RSc2346		putative methyltransferase protei	881.253	122.049	50.3293	193.511	OK	864.797	120.756	49.5076	190.943	OK	744.702	95.6953	49.7512	138.31	OK	644.583	86.5021	43.2663	122.504	OK	-0.01537	-0.35094	-0.49665	-1.01071	-1.27539	-1.41094
RSc2347	***nadE***	NAD synthetase	3400.28	148.06	66.5987	228.955	OK	4463.82	194.87	86.2212	302.736	OK	3862.44	162.68	91.9485	233.298	OK	4511.17	192.685	107.706	277.433	OK	0.39633	0.135855	0.380062	1.316156	1.098744	1.301398
RSc2348		hypothetical protein	1408.58	85.1772	37.6329	132.686	OK	987.156	59.907	26.9256	92.9537	OK	880.304	51.1028	28.9957	72.9034	OK	903.866	53.4966	30.0312	76.8903	OK	-0.50774	-0.73706	-0.67102	-1.42182	-1.66678	-1.5922
RSc2349	***ppa***	inorganic pyrophosphatase	2666.07	469.076	178.078	729.756	OK	3237.47	575.572	215.524	885.27	OK	3961.37	636.495	308.634	926.863	OK	2047.07	347.352	160.875	513.667	OK	0.295175	0.440327	-0.43342	1.227034	1.356912	-1.35043
RSc2350		aldehyde dehydrogenase	4228.8	213.598	95.3242	331.909	OK	4511.66	228.566	101.733	354.81	OK	3416.73	166.414	93.7721	239.05	OK	3502.14	173.363	96.7785	249.838	OK	0.097713	-0.36012	-0.3011	1.070076	-1.28353	-1.23209
RSc2351	***tsaC***	3-ketoacyl-(acyl-carrier-protein) reductase	2124.54	229.181	96.8985	361.375	OK	1785.71	193.864	80.8618	305.799	OK	1582.77	160.529	85.1273	235.879	OK	1565.67	164.3	84.7088	241.152	OK	-0.24144	-0.51365	-0.48015	-1.18217	-1.42766	-1.39489
RSc2352		permease transmembrane protein	2276.65	125.637	56.2115	194.899	OK	1601.71	88.6788	39.2027	138.154	OK	1718.37	91.2492	51.2938	130.792	OK	2147.7	116.084	64.9179	167.314	OK	-0.5026	-0.46138	-0.11409	-1.41676	-1.37686	-1.08229
RSc2353		signal peptide protein	6176.88	3638.76	785.596	3694.98	OK	2681.79	1624.73	353.602	1452.76	OK	8683	4094.05	1309.18	4080.06	OK	1857.59	1026.5	288.629	920.137	OK	-1.16325	0.170082	-1.82571	-2.23961	1.125122	-3.54482
RSc2354		putative transmembrane hydrogenase cytochrome B- type	7494.2	1318.55	474.713	2098.64	OK	4142.74	736.517	275.29	1133.73	OK	17542.7	2818.69	1290.73	4344.09	OK	2990.83	507.491	233.912	754.317	OK	-0.84016	1.096073	-1.3775	-1.79025	2.137719	-2.59817
RSc2355	***hemY***	putative protein porphyrin biosynthesis	2744.15	171.245	76.0514	265.479	OK	3256.79	203.986	90.6684	316.611	OK	2626.46	157.21	88.2738	225.979	OK	2955.47	180.472	99.1284	260.937	OK	0.252408	-0.12337	0.075713	1.191194	-1.08928	1.053882
RSc2356		bifunctional uroporphyrinogen-III synthetase/uroporphyrin-III C-methyltransferase	5059.35	169.172	73.0063	264.914	OK	5510.78	184.631	79.6993	289.589	OK	4405.97	143.151	80.5707	205.626	OK	4447.71	146.075	82.0312	209.733	OK	0.126154	-0.24095	-0.21178	1.09138	-1.18177	-1.15812
RSc2357	***hemC***	porphobilinogen deaminase	3767.38	287.807	126.944	448.244	OK	3965.19	304.289	133.864	474.517	OK	3832.43	279.092	153.171	403.315	OK	3757.8	280.403	151.212	409.194	OK	0.080341	-0.04436	-0.0376	1.057268	-1.03123	-1.0264
RSc2358	***ppc***	phosphoenolpyruvate carboxylase	15578.6	358.825	131.894	585.03	OK	13652.7	314.894	118.373	509.634	OK	24339.5	547.295	264.092	830.486	OK	13726.6	310.965	165.101	456.62	OK	-0.18841	0.609038	-0.20653	-1.13951	1.525242	-1.15391
RSc2359	***ripAK***	Type III effector protein	1333.54	37.8665	16.5375	59.18	OK	1927.39	54.8209	24.0642	85.5234	OK	2220.77	61.4123	35.2692	87.5324	OK	1922.87	53.6646	30.5631	76.7347	OK	0.533804	0.697606	0.503049	1.447741	1.621811	1.417205
RSc2360		hypothetical protein	260.624	37.2981	16.4159	56.0878	OK	61.6398	8.89639	3.89352	13.5747	OK	108.926	14.4352	7.57812	20.4505	OK	88.8454	12.3131	6.12478	17.8553	OK	-2.06781	-1.36951	-1.59891	-4.1925	-2.58383	-3.02914
RSc2361		RNA polymerase sigma-E factor sigma-24 homolog transcription regulator protein	2149.89	288.445	96.4009	480.5	OK	1296.28	175.304	56.9778	293.616	OK	973.669	121.434	59.1774	183.668	OK	1381.64	179.719	80.5525	278.866	OK	-0.71844	-1.24812	-0.68255	-1.6454	-2.37532	-1.60498
RSc2362		hypothetical protein	1341.65	154.844	6.00146	306.305	OK	833.517	96.8575	4.18332	192.665	OK	395.692	42.7968	8.54438	77.332	OK	796.889	89.3826	24.7883	154.002	OK	-0.67688	-1.85524	-0.79275	-1.59868	-3.61812	-1.73237
RSc2363	***argH***	argininosuccinate lyase	3198.47	164.261	67.9485	260.56	OK	5064.58	260.888	104.652	417.015	OK	3268.91	161.819	87.1316	236.494	OK	2788.66	140.34	74.5689	205.85	OK	0.667441	-0.02161	-0.22706	1.588253	-1.01509	-1.17045
RSc2364		hypothetical protein	548.628	76.4755	0.278788	205.606	OK	811.437	114.047	0	317.079	OK	606.876	78.4606	0.387858	170.14	OK	652.742	88.1557	5.13207	178.407	OK	0.576559	0.036971	0.205056	1.491288	1.025957	1.152731
RSc2365	***adi***	biodegradative arginine decarboxylase protei	4401.19	133.825	58.9213	208.738	OK	9247.81	281.698	113.436	449.677	OK	7471.47	221.046	121.546	320.472	OK	6402.31	191.284	107.223	275.666	OK	1.073802	0.723999	0.515369	2.104973	1.651754	1.429359
RSc2366	***dcd***	deoxycytidine triphosphate deaminase	1370.05	217.85	83.7099	351.309	OK	1908.07	306.271	117.33	490.333	OK	1255.99	183.689	91.5438	270.598	OK	1049.83	161.332	76.7533	243.258	OK	0.491474	-0.24607	-0.4333	1.40588	-1.18597	-1.35032
RSc2367		FDHD protein	2272.6	204.981	88.8087	321.123	OK	2644.07	239.761	104.1	373.761	OK	2877.66	245.926	133.01	358.779	OK	2160.39	189.992	101.244	278.277	OK	0.226107	0.262734	-0.10955	1.169674	1.19975	-1.07889
RSc2368	***sodC***	superoxide dismutase Cu-Zn precursor protei	19694.8	3277.25	1087.07	5468.1	OK	16341	2746.09	926.248	4562.85	OK	29346.8	4477.51	1945.41	6993.8	OK	11466.5	1842.33	834.358	2652.47	OK	-0.25511	0.450211	-0.83095	-1.19342	1.36624	-1.77886
RSc2369		putative signal peptide protein	101.41	37.8741	11.9906	41.7736	OK	96.5996	36.8221	11.217	39.8396	OK	103.369	32.7641	13.1642	38.3479	OK	77.9664	27.5595	9.73006	29.5718	OK	-0.04064	-0.2091	-0.45866	-1.02857	-1.15596	-1.37427
RSc2370		hypothetical protein	243.384	15.7846	7.97346	23.5858	OK	160.999	10.4816	5.24129	15.6681	OK	156.721	9.73855	5.72059	13.7514	OK	244.778	15.5292	9.13095	21.8923	OK	-0.59066	-0.69674	-0.02353	-1.50593	-1.62084	-1.01645
RSc2371		putative lipoprotein	37.5217	27.6579	5.83054	22.7921	OK	15.6399	11.9018	2.1202	9.54089	OK	22.2299	12.7098	3.39881	13.8567	OK	29.0107	20.0065	4.4446	16.7326	OK	-1.21651	-1.12175	-0.46722	-2.32384	-2.17611	-1.38245
RSc2372		formate dehydrogenase iron-sulfur subuni	310.315	37.4239	17.2106	57.4612	OK	183.999	22.3492	10.3634	34.0511	OK	168.947	19.0512	10.4973	27.5669	OK	285.575	33.4486	17.8911	48.0138	OK	-0.74374	-0.97408	-0.16201	-1.67451	-1.96439	-1.11885
RSc2373		formate dehydrogenase large subuni	2002.85	45.4493	19.7282	71.1631	OK	1188.64	27.0091	11.678	42.29	OK	635.775	14.0865	8.38617	19.7583	OK	1774.19	39.5997	22.7655	56.3949	OK	-0.75081	-1.68994	-0.19877	-1.68274	-3.22644	-1.14772
RSc2374		putative transmembrane protein	11.1551	7.1128	1.4977	7.48849	OK	12.88	8.45749	1.4977	7.48849	OK	4.44598	2.24434	0.246246	3.93994	OK	8.15927	4.87501	0.984986	5.41742	OK	0.249812	-1.66413	-0.54501	1.189052	-3.16922	-1.45903
RSc2375		hypothetical protein	236.285	29.8369	13.6085	45.4257	OK	245.639	31.2507	14.1836	48.0132	OK	38.9023	4.58196	2.26899	6.80696	OK	175.878	21.5538	11.3449	31.3876	OK	0.066791	-2.70306	-0.46916	1.047384	-6.51182	-1.3843
RSc2376		putative ferredoxin protein	2069.78	66.7144	29.7855	103.817	OK	2309.19	74.573	32.9459	116.011	OK	832.51	26.0879	15.2946	36.7954	OK	1890.23	59.8527	33.9718	85.2676	OK	0.160655	-1.35462	-0.15658	1.117795	-2.55729	-1.11464
RSc2377		proline rich protein	223.102	35.2144	15.2529	54.0064	OK	207.919	33.1262	14.236	50.278	OK	236.748	34.387	18.0563	48.9305	OK	243.872	37.207	18.6136	50.268	OK	-0.08819	-0.0343	0.079409	-1.06304	-1.02406	1.056585

RSc2378		hypothetical protein	821.421	146.93	56.8752	227.377	OK	650.438	117.584	45.7716	177.658	OK	756.928	123.494	60.854	174.286	OK	654.555	112.875	52.6996	161.628	OK	-0.32144	-0.25069	-0.3804	-1.24957	-1.18977	-1.30171
RSc2379	***mrp***	MRP family ATP-binding protei	4224.74	293.501	129.985	456.957	OK	4162.06	290.336	128.684	451.457	OK	4674.95	310.546	171.284	449.622	OK	3907.39	265.382	144.332	385.915	OK	-0.01564	0.081442	-0.14529	-1.0109	1.058075	-1.10596
RSc2380		hypothetical protein	41900.6	5765.82	1899.73	9624.37	OK	29892.5	4147.07	1378.69	6868.21	OK	45648	5830.46	2401.8	9248.49	OK	29640.8	3952.71	1711.62	6187.78	OK	-0.47543	0.016084	-0.54468	-1.39034	1.011211	-1.4587
RSc2381	***metG***	methionyl-tRNA synthetase	6743.77	227.981	96.2432	359.86	OK	10472.3	354.736	142.386	567.053	OK	9332.11	306.494	168.403	444.414	OK	6481.18	215.196	119.932	310.527	OK	0.637832	0.426945	-0.08326	1.555989	1.344384	-1.05941
RSc2382		lipoprotein	2213.78	374.174	142.916	591.35	OK	1412.19	241.091	90.3749	381.543	OK	2519.76	390.066	192.701	569.327	OK	2467.73	402.601	188.957	601.035	OK	-0.63413	0.060009	0.105641	-1.552	1.042472	1.075973
RSc2383		putative signal peptide protein	1867.97	32.1827	13.6893	50.6786	OK	1665.19	28.7183	12.1701	45.2788	OK	1473.84	24.8541	14.1724	35.5288	OK	1657.24	28.1034	16.1435	40.0901	OK	-0.16432	-0.3728	-0.19554	-1.12063	-1.29486	-1.14515
RSc2384		putative lipoprotein	1462.33	58.5667	26.0151	91.1074	OK	1304.56	52.3714	23.2862	81.429	OK	1181.52	45.8432	26.1664	65.434	OK	1263.78	49.6717	28.2482	70.9616	OK	-0.1613	-0.35337	-0.23766	-1.1183	-1.27754	-1.17908
RSc2385		hypothetical protein	213.975	327.384	43.9562	161.854	OK	185.839	297.17	38.5043	134.935	OK	492.392	523.007	111.6	330.768	OK	306.426	437.539	70.2545	190.595	OK	-0.1397	0.675846	0.418428	-1.10167	1.597534	1.33647
RSc2386		hypothetical protein	1779.75	159.19	68.563	249.718	OK	1730.51	155.607	66.8836	243.95	OK	1169.29	99.1282	53.8794	144.135	OK	1310.02	114.258	60.7944	167.617	OK	-0.03284	-0.68338	-0.47845	-1.02303	-1.6059	-1.39325
RSc2387	***panC***	pantoate--beta-alanine ligase	1483.63	138.473	59.1854	217.693	OK	1931.07	181.232	77.7801	284.287	OK	979.227	86.477	47.2759	125.572	OK	1273.75	115.867	61.4437	170.089	OK	0.388233	-0.67922	-0.25713	1.308789	-1.60127	-1.1951
RSc2388		hypothetical protein	1103.34	723.223	152.289	632.14	OK	195.959	132.341	30.0538	109.103	OK	47.7943	24.707	7.47431	22.6721	OK	121.483	74.5911	20.4298	59.2962	OK	-2.45018	-4.87145	-3.27737	-5.46484	-29.272	-9.69584
RSc2389		putative partition-related protei	2519.02	329.727	135.104	521.018	OK	1425.07	187.986	75.3314	300.046	OK	1949.56	237.549	123.372	349.618	OK	1933.75	245.504	122.497	363.51	OK	-0.81065	-0.47305	-0.42553	-1.754	-1.38804	-1.34306
RSc2390	***cbiP***	cobyrinic acid synthase	1553.6	75.4548	33.4989	117.289	OK	1171.16	57.0436	25.4921	88.2484	OK	1007.01	47.2016	26.8985	67.5023	OK	1135.05	54.0396	30.4422	77.3651	OK	-0.40355	-0.67678	-0.4816	-1.32276	-1.59856	-1.39629
RSc2391	***cobP***	cobalamin biosynthesis bifunctional protein: cobinamide kinase and cobinamide phosphate guanylyltransferase	1459.29	223.755	54.9953	392.16	OK	1585.15	245.271	58.8683	429.34	OK	1542.75	218.097	94.4241	341.237	OK	1396.14	207.04	81.7615	330.211	OK	0.132457	-0.03695	-0.11201	1.096159	-1.02594	-1.08073
RSc2392	***cbiB***	cobalamin biosynthesis protein	714.941	55.2069	1.35785	108.951	OK	765.437	59.3765	0.517277	119.426	OK	433.483	31.8969	2.80662	60.9801	OK	568.429	42.8687	7.78198	77.8836	OK	0.105043	-0.79143	-0.36492	1.075527	-1.73079	-1.28781
RSc2393	***cobD***	cobalamin biosynthesis protein	693.644	50.1359	0.244638	100.73	OK	692.757	50.2861	0.122319	103.298	OK	444.598	30.6887	2.89603	58.5239	OK	538.512	38.0387	5.79205	70.2287	OK	0.004316	-0.70814	-0.39838	1.002996	-1.63369	-1.31802
RSc2394	***btuF***	Vitamin B12-binding protein, ABC transport system	448.232	37.0082	0	102.38	OK	622.838	51.676	0.082969	134.658	OK	405.696	31.8438	1.64833	70.0148	OK	413.403	33.3126	1.20872	73.4903	OK	0.481649	-0.21683	-0.15178	1.396339	-1.16218	-1.11094
RSc2395	***cobC***	cobalamin biosynthesis protein	318.427	49.1761	2.66947	95.656	OK	368.919	57.4972	3.33684	111.562	OK	314.553	44.7668	11.9602	77.4669	OK	223.927	33.4413	6.80304	60.0204	OK	0.225534	-0.13553	-0.55633	1.16921	-1.09849	-1.47052
RSc2396	***cobS***	cobalamin synthase	402.598	42.1584	3.89556	80.5634	OK	411.238	43.3308	2.65229	84.0445	OK	204.515	20.1631	3.18884	37.1214	OK	285.575	29.1026	6.86828	51.2668	OK	0.039573	-1.0641	-0.53467	1.027809	-2.09087	-1.44861
RSc2397	***cobT***	nicotinate-nucleotide--	933.986	66.6105	12.766	121.455	OK	1149.08	82.2963	18.1198	146.892	OK	715.803	48.773	20.5094	77.0635	OK	765.158	53.3366	23.3517	83.857	OK	0.305078	-0.44967	-0.32062	1.235485	-1.36572	-1.24887
RSc2398	***btuD***	Vitamin B12 import system permease protein btuD	242.37	23.0217	0	62.0243	OK	286.119	27.3303	0	75.7478	OK	140.048	12.5777	0	32.9759	OK	168.625	15.6072	0	38.1946	OK	0.247507	-0.87213	-0.56078	1.187154	-1.83036	-1.47507
RSc2399	***btuC***	Vitamin B12 import system permease protein BtuC	430.993	32.8087	0	77.8817	OK	567.638	43.4054	0	98.3265	OK	345.675	25.087	0.189082	51.2413	OK	295.547	21.9759	0.063027	44.6864	OK	0.403796	-0.38714	-0.57816	1.322984	-1.3078	-1.49294
RSc2400	***btuB***	Probable Vitamin B12 transporter BtuB	2623.48	99.1514	32.8807	165.348	OK	3252.19	123.187	39.0525	208.141	OK	2410.83	88.3603	43.7984	133.044	OK	2384.32	88.4597	44.7062	132.226	OK	0.313145	-0.16623	-0.16461	1.242413	-1.12213	-1.12087
RSc2401		hypothetical protein	962.381	385.52	76.0373	634.38	OK	954.956	390.879	76.6392	649.828	OK	1361.58	459.004	152.595	724.577	OK	1125.07	425.863	122.907	610.18	OK	0.019916	0.251701	0.143584	1.013901	1.19061	1.104646
RSc2402		hypothetical protein	1011.06	412.48	57.5236	768.205	OK	1035.92	431.954	57.543	808.938	OK	1323.79	453.468	166.823	740.256	OK	1094.25	421.65	157.986	686.277	OK	0.066554	0.136677	0.031722	1.047212	1.09937	1.022231
RSc2403		hypothetical protein	894.436	166.939	63.0037	256.08	OK	749.797	141.496	53.477	212.892	OK	611.322	103.734	50.8754	153.879	OK	638.236	114.732	53.0057	161.774	OK	-0.23856	-0.68643	-0.54105	-1.17981	-1.6093	-1.45503
RSc2404		putative signal peptide protein	7899.84	1009.43	378.99	1639.91	OK	8803.45	1133.43	425.126	1845.86	OK	9052.01	1078.15	565.992	1590.78	OK	8530.97	1057.71	558.427	1556.88	OK	0.167154	0.095017	0.067403	1.122842	1.068078	1.047829
RSc2407		hypothetical protein	1069.88	1404	189.625	792.002	OK	1222.68	1672.7	215.971	904.216	OK	1219.31	1138.23	253.485	811.793	OK	1320.9	1617.94	274.983	878.533	OK	0.252636	-0.30275	0.204615	1.191382	-1.23349	1.152379
RSc2408	***tISRso11b***	isrso11-transposase orfb protein	1.0141	0.096753	0	0.384713	OK	NA	NA	NA	0	OK	NA	NA	0	0	OK	0	0	0	0	OK	NA	NA	NA	NA	NA	NA
RSc2410	***lgt***	prolipoprotein diacylglyceryl transferase	3320.16	285.094	124	444.805	OK	3183.19	274.723	120.116	427.151	OK	2249.67	183.377	99.9647	265.481	OK	2881.13	241.349	129.014	353.673	OK	-0.05346	-0.63662	-0.24032	-1.03775	-1.55469	-1.18125
RSc2411		transcription regulator protein	384.344	31.9793	15.3434	48.576	OK	390.999	32.6933	15.6874	49.6768	OK	400.138	31.6422	18.1907	45.0694	OK	425.189	34.5251	19.4124	48.5311	OK	0.031857	-0.01529	0.110507	1.022327	-1.01065	1.079608
RSc2412	***ilvD***	dihydroxy-acid dehydratase	5726.62	243.915	105.527	382.213	OK	8389.45	358.232	147.807	568.798	OK	1926.22	79.3925	44.9731	113.78	OK	6453.08	269.646	149.151	389.767	OK	0.554516	-1.6193	0.144688	1.468676	-3.07227	1.105492
RSc2413		hypothetical protein	361.02	86.0365	7.30474	164.729	OK	344.079	83.1497	7.30474	158.617	OK	471.274	100.002	19.5595	180.153	OK	280.135	63.9196	12.7946	115.004	OK	-0.04924	0.217008	-0.42869	-1.03472	1.162321	-1.34601
RSc2414	***holC***	DNA polymerase III subunit chi	1379.18	332.351	105.789	558.828	OK	1327.56	324.447	103.867	545.243	OK	2126.29	455.753	231.918	679.035	OK	1171.31	270.172	137.933	402.729	OK	-0.03472	0.455544	-0.29883	-1.02436	1.3713	-1.23015
RSc2415	***pepA***	leucyl aminopeptidase	11657.1	552.409	220.344	884.042	OK	13326.2	633.273	246.892	1017.88	OK	20056.9	917.78	464.562	1367.87	OK	11641.5	540.875	291.092	788.318	OK	0.197091	0.732412	-0.03044	1.146384	1.661414	-1.02132
RSc2416		hypothetical protein	920.803	61.9647	13.1219	110.903	OK	1366.19	92.3033	15.3089	169.376	OK	830.287	53.4765	18.3384	88.6263	OK	828.62	54.5294	19.4739	89.5915	OK	0.574936	-0.21254	-0.18441	1.489611	-1.15873	-1.13635
RSc2417		hypothetical protein	1077.99	66.4973	17.462	115.452	OK	2045.15	126.619	37.3269	215.791	OK	1213.75	71.8384	31.8185	111.891	OK	1167.68	70.49	31.6604	109.31	OK	0.929126	0.111459	0.084123	1.904122	1.080321	1.060043
RSc2418		hypothetical protein	192.679	58.8866	0	192.235	OK	431.478	134.178	0	400.222	OK	305.661	81.1126	1.06147	178.327	OK	269.256	78.2787	0.872166	179.085	OK	1.188137	0.461987	0.41068	2.278583	1.377437	1.329313
RSc2419	***hpaF***	putative 5-carboxymethyl-2-hydroxymuconate DELTA-isomerase protein	255.553	67.6185	24.3293	87.7762	OK	863.877	232.108	76.6451	308.966	OK	688.015	160.463	71.5319	218.988	OK	493.183	124.603	52.0802	154.672	OK	1.779306	1.246751	0.881849	3.432611	2.373064	1.842735
RSc2420	***nirE***	uroporphyrin-III C-methyltransferase	1296.02	128.803	54.7011	202.664	OK	1787.55	178.7	75.4525	280.184	OK	1512.74	141.876	75.9242	207.537	OK	1527.6	147.85	77.1007	218.282	OK	0.472373	0.139464	0.198968	1.38739	1.101496	1.147877
RSc2421	***cysN***	sulfate adenylyltransferase subunit 1 protei	5462.96	306.997	133.627	479.561	OK	8057.33	454.295	190.446	717.569	OK	7352.54	397.411	217.261	577.224	OK	6617.17	364.167	198.755	529.041	OK	0.565405	0.372407	0.246376	1.479803	1.294511	1.186223
RSc2422	***cysD***	sulfate adenylyltransferase subunit 2	3785.64	308.995	135.777	478.775	OK	4963.38	407.085	175.461	638.186	OK	5554.14	431.161	232.548	629.771	OK	5209.24	415.031	219.789	608.794	OK	0.397747	0.480643	0.425636	1.317449	1.395366	1.343164
RSc2423	***cysH***	phosphoadenosine phosphosulfate reductase	2036.31	204.267	1.04131	407.953	OK	2040.55	205.91	11.8549	399.382	OK	2495.31	236.119	71.5916	400.549	OK	2447.78	239.096	62.8204	415.247	OK	0.011558	0.209058	0.227134	1.008043	1.155933	1.170507
RSc2424		hypothetical protein	1415.68	215.53	0.220174	432.753	OK	1282.48	197.018	0.110087	393.892	OK	1131.5	158.898	16.2902	301.151	OK	1223.89	180.234	19.4396	341.007	OK	-0.12956	-0.43979	-0.25802	-1.09396	-1.3564	-1.19583
RSc2425	***cysI1***	sulfite reductase oxidoreductase protein	6050.12	259.755	42.161	479.914	OK	5220.98	224.725	34.8646	418.591	OK	4028.06	167.326	58.1977	276.699	OK	5106.8	215.089	81.2459	348.738	OK	-0.20899	-0.63449	-0.27222	-1.15588	-1.55239	-1.20766
RSc2426		hypothetical protein	872.126	93.6087	40.483	145.959	OK	1021.2	110.307	46.9907	172.919	OK	1051.47	106.135	56.6115	153.827	OK	761.532	79.5203	41.6874	116.725	OK	0.23681	0.181186	-0.23532	1.178384	1.133816	-1.17717
RSc2427	***cysB2***	transcriptional regulator CysB-like protei	2345.61	193.665	85.0476	302.247	OK	2847.39	236.244	103.985	368.221	OK	2497.53	196.036	107.842	282.587	OK	2606.43	210.03	112.9	306.395	OK	0.286714	0.017555	0.117032	1.219859	1.012243	1.084502
RSc2428		amino acid-binding periplasmic (PBP) ABC transporter protei	1711.8	109.366	48.053	170.305	OK	2108.63	135.229	60.1076	210.432	OK	1564.98	95.8412	53.3231	137.652	OK	1462.32	91.4033	50.0651	132.33	OK	0.30624	-0.19045	-0.25885	1.236481	-1.14112	-1.19652
RSc2429		oxidoreductase protein	2508.88	219.828	96.2784	342.036	OK	2227.31	196.17	85.0064	306.928	OK	1554.98	129.239	69.8352	188.541	OK	1523.06	130.16	69.1269	191.02	OK	-0.16427	-0.76633	-0.75609	-1.1206	-1.70094	-1.68891
RSc2430		putative transcription regulator protei	37.5217	9.35531	3.37338	13.1869	OK	37.7199	9.54229	3.37338	13.1869	OK	15.5609	3.4398	1.21013	4.99177	OK	22.6646	5.40422	1.96645	8.31961	OK	0.02855	-1.44346	-0.7917	1.019987	-2.71972	-1.73111
RSc2431		hypothetical protein	586.15	23.0455	11.1271	34.9912	OK	530.838	20.9193	10.1968	31.6638	OK	413.476	15.7543	9.49444	21.989	OK	399.804	15.4276	9.28267	21.6007	OK	-0.13965	-0.54874	-0.57897	-1.10164	-1.46281	-1.49378
RSc2432		hypothetical protein	1895.35	81.7016	36.4006	126.857	OK	1666.11	72.0029	32.006	111.924	OK	1783.95	74.3973	42.316	106.461	OK	2008.99	84.953	47.7638	121.769	OK	-0.18231	-0.13511	0.056301	-1.1347	-1.09818	1.039796
RSc2433		putative oxidoreductase protein	1764.53	131.524	57.4336	204.439	OK	1586.07	118.744	51.91	185.482	OK	1617.22	115.004	63.4078	166.507	OK	1267.41	92.296	50.2184	134.246	OK	-0.14747	-0.19364	-0.51099	-1.10763	-1.14365	-1.42502
RSc2434		CDP-6-deoxy-delta-3,4-glucoseen reductase	1995.75	144.738	64.0943	224.913	OK	2603.59	189.631	84.4573	294.589	OK	2062.93	142.861	79.0817	205.903	OK	1590.15	112.699	61.1719	163.367	OK	0.389751	-0.01883	-0.36097	1.310167	-1.01314	-1.28429
RSc2435	***argD***	bifunctional N-succinyldiaminopimelate-aminotransferase/acetylornithine transaminase protei	3580.79	222.163	99.9289	344.438	OK	6023.22	375.07	162.398	585.459	OK	4794.99	285.397	158.194	413.167	OK	4040.65	245.323	135.216	355.195	OK	0.755541	0.361352	0.143064	1.688265	1.284629	1.104248
RSc2436		hypothetical protein	196.735	37.7013	15.389	54.3141	OK	351.439	68.1147	27.157	99.7051	OK	305.661	53.1444	26.6629	76.4165	OK	237.526	43.8144	20.6669	58.8114	OK	0.853352	0.495303	0.216791	1.806694	1.409617	1.162146
RSc2437		amino acid ABC transporter ATP-binding protei	2292.88	257.7	107.773	407.61	OK	1121.48	126.885	53.098	200.125	OK	2558.66	269.846	143.486	393.118	OK	1418.81	155.034	79.4361	229.492	OK	-1.02217	0.066444	-0.73311	-2.03097	1.047132	-1.66222
RSc2438		amino acid ABC transporter ATP-binding protei	2941.9	309.575	132.297	486.835	OK	1356.07	143.59	59.8247	226.901	OK	3204.44	317.403	168.679	463.764	OK	1717.07	175.831	91.6037	258.969	OK	-1.10833	0.036027	-0.8161	-2.15596	1.025286	-1.76064
RSc2439		amino-acid transmembrane ABC transporter protei	3549.35	234.441	105.353	363.523	OK	1845.51	122.376	54.2056	190.654	OK	4098.08	259.216	143.77	374.093	OK	2164.93	139.861	77.0537	202.552	OK	-0.9379	0.14493	-0.74523	-1.91574	1.105677	-1.67624
RSc2440	***livH2***	putative amino-acid transmembrane ABC transporter protei	2200.6	183.1	80.0884	285.47	OK	1127	94.2337	41.1451	146.76	OK	1827.3	144.499	78.8715	208.785	OK	1193.07	96.8763	51.9249	141.249	OK	-0.95832	-0.34157	-0.91842	-1.94304	-1.26714	-1.89004
RSc2441		putative amino acid-binding periplasmic ABC transporter protei	50805.4	3853.82	1349.87	6355.19	OK	16030.9	1221.48	463.101	1972.99	OK	30762.8	2224.96	1042.52	3403.5	OK	17264.1	1279.21	640.972	1915.31	OK	-1.65766	-0.79251	-1.59104	-3.15504	-1.73209	-3.01266
RSc2442	***ispH***	4-hydroxy-3-methylbut-2-enyl diphosphate reductase	2464.26	195.203	70.5438	318.768	OK	2976.19	236.86	86.5946	386.802	OK	1916.22	144.516	72.7192	215.812	OK	1895.67	146.619	74.5437	218.744	OK	0.279059	-0.43375	-0.4129	1.213403	-1.35074	-1.33136
RSc2443	***fkpB***	FKBP-type 16 kDa peptidyl-prolyl cis-trans isomerase protei	1230.1	289.948	16.0283	597.29	OK	1316.52	314.626	6.45256	675.129	OK	831.398	174.668	34.4546	314.923	OK	676.313	152.673	21.8971	285.114	OK	0.117844	-0.73118	-0.92535	1.085112	-1.65999	-1.89914
RSc2444	***radC***	DNA repair protein RadC	496.909	62.3803	27.3823	96.5538	OK	528.998	66.9038	29.2905	104.377	OK	484.612	56.7625	30.6834	82.4499	OK	545.765	66.4985	34.3541	95.2503	OK	0.100998	-0.13615	0.092231	1.072515	-1.09897	1.066018
RSc2445	***rpmB***	50S ribosomal protein L28	2354.74	1910.93	353.93	1456.73	OK	3156.51	2648.91	478.329	1942.21	OK	1695.03	1052.24	300.553	956.232	OK	1550.26	1176.1	273.675	876.953	OK	0.471124	-0.86081	-0.70026	1.386189	-1.81606	-1.6248
RSc2446	***rpmG***	50S ribosomal protein L33	1323.4	2926.55	269.279	1133.98	OK	2366.23	5502.31	486.962	2002.83	OK	883.638	1276.45	215.859	674.327	OK	1222.08	2519.19	294.995	941.828	OK	0.910836	-1.19706	-0.21624	1.880135	-2.29273	-1.1617
RSc2447	***nadB1***	L-aspartate oxidase	1848.7	82.6791	36.7833	128.601	OK	3118.79	139.849	63.2352	216.479	OK	2155.19	93.1824	52.8637	133.408	OK	2250.15	98.6978	55.6794	141.697	OK	0.758275	0.172535	0.255495	1.691467	1.127037	1.193745
RSc2448	***nadC***	nicotinate-nucleotide pyrophosphorylase	890.38	78.9819	11.6038	146.135	OK	1461.87	130.359	25.0207	235.339	OK	549.078	46.1791	15.3105	76.9104	OK	950.102	82.1899	22.2504	142.159	OK	0.722896	-0.77428	0.057439	1.650492	-1.71034	1.040617
RSc2449	***nadA***	quinolinate synthetase	1855.8	121.089	31.7762	210.428	OK	2690.07	176.202	40.676	311.784	OK	1122.61	70.1702	32.8158	107.573	OK	2521.22	160.915	76.3338	245.532	OK	0.541162	-0.78714	0.410231	1.455145	-1.72565	1.328899
RSc2450		putative stearoyl-CoA desaturase oxidoreductase protein	12480.5	776.574	307.855	1245.25	OK	18494.7	1155.03	434.72	1870.8	OK	17088.1	1019.95	525.343	1514.67	OK	12568	765.242	403.269	1126.96	OK	0.572735	0.393303	-0.02121	1.487341	1.313397	-1.01481
RSc2451		hypothetical protein	2139.75	116.583	52.2779	180.792	OK	1853.79	101.328	45.0903	157.313	OK	1726.15	90.5274	50.9576	129.899	OK	1918.34	102.38	57.0083	147.39	OK	-0.20232	-0.36493	-0.18742	-1.15055	-1.28782	-1.13873
RSc2452		putative endonuclease protein	328.568	51.8612	0	119.763	OK	336.719	53.6468	0	121.345	OK	373.462	54.2444	0	111.905	OK	306.426	46.7508	1.78334	91.7307	OK	0.048837	0.064819	-0.14966	1.03443	1.045953	-1.10931
RSc2453		hypothetical protein	3642.65	214.825	74.7213	355.737	OK	3565.91	211.033	75.8105	347.154	OK	4620.48	261.767	137.612	385.472	OK	3119.56	180.105	93.414	266.559	OK	-0.02569	0.285121	-0.25432	-1.01797	1.218513	-1.19278
RSc2454	***purN***	phosphoribosylglycinamide formyltransferase	1957.21	257.761	104.268	411.236	OK	1995.47	264.856	106.544	421.129	OK	2298.57	281.696	146.777	413.102	OK	1690.78	215.953	107.838	318.341	OK	0.039174	0.128105	-0.25532	1.027525	1.092857	-1.1936
RSc2455	***vsrC***	response regulator VSRC transcription regulator protein	4629.37	591.532	241.262	934.685	OK	6209.06	799.405	314.849	1283.18	OK	5240.7	624.199	319.184	921.876	OK	4858.39	602.366	298.579	904.133	OK	0.43447	0.07755	0.026184	1.351415	1.055224	1.018315
RSc2456	***vsrB***	composite two-component regulatory (sensor kinase and response regulator hybrid) transcription regulator protei	6235.7	228.823	97.5253	360.034	OK	6205.38	228.204	97.2566	358.522	OK	5521.91	196.601	110.161	283.059	OK	5035.18	181.405	101.379	261.318	OK	-0.00391	-0.21896	-0.33502	-1.00271	-1.1639	-1.26139
RSc2457	***ribF***	bifunctional riboflavin kinase/FMN adenylyltransferase	1808.14	139.122	61.0488	217.055	OK	1750.75	135.32	59.1793	211.06	OK	1192.63	87.4534	48.0144	126.936	OK	1123.26	84.4112	45.9157	122.103	OK	-0.03998	-0.66976	-0.72084	-1.0281	-1.59081	-1.64815
RSc2458	***ileS***	isoleucyl-tRNA synthetase	8975.8	212.44	75.436	350.218	OK	12063.9	285.929	98.9582	473.078	OK	10503.6	242.623	126.292	358.977	OK	10858.2	252.742	132.793	372.595	OK	0.428602	0.191661	0.25061	1.345928	1.142078	1.18971
RSc2459	***lspA***	lipoprotein signal peptidase	769.702	137.679	0	481.705	OK	997.276	180.284	0	662.726	OK	1079.26	176.083	0.489454	460.086	OK	1117.82	192.763	0.172446	503.369	OK	0.388963	0.354947	0.48552	1.309452	1.278939	1.40009
RSc2460		putative transmembrane protein	270.765	44.0321	18.5816	67.748	OK	350.519	57.5534	24.1215	88.7533	OK	238.971	35.689	18.5585	50.4382	OK	279.228	43.8654	21.7465	61.9376	OK	0.386346	-0.30308	-0.00547	1.307078	-1.23377	-1.0038

RSc2461	***dfp***	bifunctional phosphopantothenoylcysteine decarboxylase/phosphopantothenate synthase	1445.09	89.1426	25.205	152.992	OK	1382.75	85.6085	22.4816	148.614	OK	1145.95	67.8255	27.7095	107.73	OK	1323.62	79.9033	36.4543	123.27	OK	-0.05836	-0.39429	-0.15786	-1.04128	-1.31429	-1.11563
RSc2462		hypothetical protein	739.279	53.4343	5.25972	101.525	OK	763.597	55.4282	4.70928	106.112	OK	644.667	44.4987	10.7394	78.2531	OK	611.945	43.2257	10.9808	75.538	OK	0.052854	-0.264	-0.30588	1.037315	-1.20081	-1.23617
RSc2463	***dut***	deoxyuridine 5'-triphosphate nucleotidohydrolase	533.417	120.461	0.90332	286.578	OK	758.997	173.691	2.05959	384.914	OK	778.046	157.22	29.9064	285.323	OK	483.21	104.623	7.14504	210.887	OK	0.527957	0.384219	-0.20337	1.441886	1.305153	-1.15138
RSc2464	***clpA***	ATP-dependent protease ATP-binding specificity subunit	46988.3	1422.7	421.575	2424.87	OK	60473.2	1834.27	549.195	3120.51	OK	67997.9	2003.34	639.229	3362.84	OK	76226.6	2267.85	674.506	3859.5	OK	0.366575	0.493776	0.672694	1.289288	1.408125	1.594047
RSc2465	***clpS***	ATP-dependent Clp protease adaptor protein ClpS	5718.51	2210.64	0	7529.34	OK	7256.01	2864.46	0	9790.7	OK	4898.36	1600.43	0	6436.21	OK	6208.3	2269.63	0	8949.03	OK	0.373799	-0.466	0.037993	1.295761	-1.38128	1.026685
RSc2466	***cspD***	cold shock-like transcription regulator protein	714.941	854.499	127.224	504.159	OK	676.198	841.232	120.594	476.062	OK	818.06	705.721	168.483	520.087	OK	616.478	687.807	127.375	388.041	OK	-0.02258	-0.27598	-0.31308	-1.01577	-1.21082	-1.24235
RSc2467		hypothetical protein	532.403	74.6988	31.8375	115.217	OK	276.919	39.1772	17.1114	59.112	OK	281.208	36.5796	19.6426	52.9941	OK	342.689	46.5788	23.9394	68.8515	OK	-0.93107	-1.03005	-0.68141	-1.90669	-2.04209	-1.60371
RSc2468		hypothetical protein	72.0011	75.6507	13.0011	47.1669	OK	39.5599	43.171	6.9541	25.0952	OK	42.2368	32.6693	7.75503	27.7391	OK	56.2083	55.1431	10.7377	31.9149	OK	-0.80929	-1.21142	-0.45617	-1.75235	-2.31565	-1.3719
RSc2490	***icd***	isocitrate dehydrogenase	27728.5	1639.79	592.479	2686.57	OK	44693.4	2652.3	934.097	4367.01	OK	39793.7	2260.51	1006.81	3507.24	OK	36096.6	2089.71	955.818	3220.46	OK	0.693733	0.463137	0.349792	1.617463	1.378536	1.274377
RSc2491		putative signal peptide protein	33716.8	40298.4	4906.79	33005.2	OK	31831	39599.7	4644.45	31115.5	OK	25728.9	22195.7	4692.93	17013.7	OK	16779.1	18720.5	3221.43	10692	OK	-0.02523	-0.86044	-1.1061	-1.01764	-1.81559	-2.15263
RSc2492		hypothetical protein	1101.31	52.6543	20.6561	84.5023	OK	1118.72	53.6375	21.0829	86.1667	OK	1092.6	50.4319	27.5767	73.2571	OK	1297.32	60.8088	33.092	88.3716	OK	0.026691	-0.06221	0.207729	1.018673	-1.04407	1.154869
RSc2493		signal peptide protein	274.821	14.8979	0.054209	35.995	OK	267.719	14.5594	0.108766	35.4034	OK	206.738	10.7889	0.208745	22.9097	OK	234.806	12.4686	0.31861	26.5508	OK	-0.03316	-0.46556	-0.25681	-1.02325	-1.38085	-1.19483
RSc2494		putative signal peptide protein	1523.18	336.914	116.291	492.888	OK	1667.03	373.557	127.949	538.523	OK	987.007	195.71	90.8796	281.194	OK	718.016	152.348	66.3365	204.76	OK	0.148948	-0.78366	-1.14501	1.108761	-1.7215	-2.21148
RSc2495		hydrolase protein	4091.89	328.989	144.651	511.998	OK	3874.11	312.962	137.429	488.257	OK	3414.51	261.234	143.029	378.287	OK	2711.6	212.835	114.726	310.665	OK	-0.07205	-0.3327	-0.6283	-1.05121	-1.25937	-1.54575
RSc2496		putative signal peptide protein	2480.49	543.084	191.932	786.37	OK	1692.79	375.426	128.802	542.889	OK	2190.76	430.368	200.208	634.201	OK	1665.4	349.859	151.584	482.06	OK	-0.53265	-0.3356	-0.6344	-1.44658	-1.26191	-1.55229
RSc2497		transcription regulator protein	1679.35	134.516	58.8009	209.737	OK	1658.75	133.497	58.0009	208.737	OK	944.771	72.0213	39.7237	104.044	OK	925.624	72.3847	39.6579	105.163	OK	-0.01097	-0.90128	-0.89402	-1.00763	-1.86773	-1.85835
RSc2498		transcription regulator protein	1040.47	87.5903	38.6267	136.444	OK	809.597	68.4948	30.7068	106.154	OK	454.601	36.3563	20.766	51.8807	OK	514.941	42.2994	23.5759	59.9678	OK	-0.35478	-1.26857	-1.05013	-1.27879	-2.40922	-2.07072
RSc2499		putative multidrug resistance protein	2666.07	123.08	55.384	190.804	OK	474.718	21.9754	10.7542	33.1311	OK	452.378	20.1771	12.0371	28.2771	OK	473.238	21.4231	12.5676	30.2765	OK	-2.48564	-2.60881	-2.52236	-5.60081	-6.09998	-5.7452
RSc2500		hypothetical protein	3050.41	787.844	263.088	1068.81	OK	459.078	120.359	42.1505	154.656	OK	831.398	189.725	84.8634	262.319	OK	681.753	168.236	69.7147	213.627	OK	-2.71057	-2.054	-2.22742	-6.54578	-4.15256	-4.68297
RSc2501		putative gamma-glutamyltranspeptidase protein	475.613	20.4608	10.093	30.8224	OK	400.199	17.2603	8.65667	25.8924	OK	271.205	11.288	6.89312	15.6627	OK	446.947	18.8621	11.2205	26.4236	OK	-0.24541	-0.85807	-0.11737	-1.18543	-1.81262	-1.08476
RSc2502		hypothetical protein	98.3677	16.892	7.19564	25.1847	OK	53.3598	9.25675	3.83768	13.192	OK	51.1288	8.03231	3.90418	11.5942	OK	50.7688	8.41236	3.78587	11.7125	OK	-0.86776	-1.07245	-1.00576	-1.82483	-2.10301	-2.008
RSc2503		Putative neutral zinc metallopeptidase	3393.18	300.995	131.413	468.068	OK	3900.79	347.842	150.487	542.912	OK	3731.29	313.812	169.775	457.456	OK	4521.14	391.108	205.977	573.215	OK	0.208693	0.060161	0.377828	1.15564	1.042582	1.299384
RSc2504		glucose-1-dehydrogenase	948.184	104.382	44.7445	163.201	OK	961.396	106.528	45.4342	167.339	OK	731.364	75.6257	40.9086	109.458	OK	687.192	73.5715	38.6122	106.822	OK	0.02936	-0.46492	-0.50465	1.020559	-1.38025	-1.41878
RSc2505		putative transcription regulator protein	403.612	19.8268	8.70047	30.9107	OK	380.879	18.7644	8.91908	28.5935	OK	256.755	12.1695	7.03031	17.2954	OK	337.25	16.239	9.5319	22.9456	OK	-0.07945	-0.70418	-0.28799	-1.05662	-1.62922	-1.22094
RSc2506	***ogt***	methylated-DNA--protein-cysteinemethyltransferase	81.128	13.1931	0	31.0607	OK	57.0398	9.36565	0	24.1367	OK	53.3517	7.96779	0.298689	15.6812	OK	48.9556	7.69069	0.157095	16.6521	OK	-0.49433	-0.72753	-0.7786	-1.40867	-1.6558	-1.71546
RSc2507		hypothetical protein	493.867	41.252	19.3962	63.1585	OK	347.759	29.1915	14.0812	44.1074	OK	362.347	28.7611	16.683	40.7882	OK	350.849	28.5984	16.1383	39.903	OK	-0.49892	-0.52035	-0.52853	-1.41315	-1.4343	-1.44246
RSc2508		hypothetical protein	42753.4	2341.28	823.351	3856.94	OK	1311	72.0259	31.9117	112.1	OK	382.354	20.1522	12.0131	28.2521	OK	758.812	40.7024	23.029	58.3085	OK	-5.02264	-6.86022	-5.84604	-32.5061	-116.18	-57.5219
RSc2509		hypothetical protein	2217.84	1242.87	285.204	1178.33	OK	112.24	64.6312	16.0413	56.8522	OK	127.822	57.7233	20.0136	55.852	OK	112.417	59.1392	17.4537	51.1976	OK	-4.2653	-4.42838	-4.39342	-19.2302	-21.5315	-21.016
RSc2510		putative signal peptide protein	1389.32	104.647	45.7203	162.997	OK	407.558	30.8352	14.8813	46.5435	OK	359.013	25.7899	14.9927	36.5447	OK	289.201	21.2799	12.3065	29.8605	OK	-1.76288	-2.02065	-2.29797	-3.39375	-4.05767	-4.91765
RSc2511		putative signal peptide protein	170.369	34.821	13.9063	50.6297	OK	81.8797	16.938	6.61561	23.2222	OK	56.6862	10.4568	4.92803	14.5177	OK	65.2742	12.8223	5.72717	17.0483	OK	-1.03969	-1.73552	-1.4413	-2.05579	-3.32999	-2.71566
RSc2512		putative cyclohexadienyl dehydratase precursor signal peptide	988.748	99.1834	43.0141	154.594	OK	1664.27	167.94	70.7289	262.891	OK	1358.25	128.524	68.8259	187.276	OK	1726.14	168.607	88.3437	247.726	OK	0.759775	0.373867	0.765494	1.693227	1.295822	1.699952
RSc2513		hypothetical protein	2095.13	209.19	89.6187	328.549	OK	3506.11	352.142	150.508	553.673	OK	1856.2	174.861	93.841	255.622	OK	5211.06	506.672	261.684	750.806	OK	0.751343	-0.25861	1.276238	1.68336	-1.19632	2.422066
RSc2514		putative signal peptide protein	9324.65	6873.36	1258.07	6255.91	OK	2871.31	2185.04	418.739	1702.78	OK	5457.44	3120.26	918.724	3011.08	OK	3452.28	2380.78	586.687	1893.92	OK	-1.65336	-1.13935	-1.52958	-3.14564	-2.20282	-2.88702
RSc2515		hypothetical protein	912.69	56.1393	15.8739	96.4683	OK	1575.03	97.2324	34.5709	159.751	OK	965.889	57.0088	27.1678	86.7057	OK	1091.53	65.7055	31.0038	100.263	OK	0.792426	0.022174	0.227003	1.731985	1.015488	1.170401
RSc2516		putative lipoprotein transmembrane	761.589	35.0085	3.67741	66.2854	OK	914.477	42.1506	1.06013	85.5479	OK	702.465	31.2001	10.3487	52.0546	OK	753.373	33.9595	10.6381	57.2473	OK	0.267848	-0.16615	-0.04389	1.20401	-1.12206	-1.03089
RSc2517		hypothetical protein	204.848	21.7695	10.3981	33.1229	OK	277.839	29.7124	13.8361	45.4497	OK	180.062	18.0037	10.0923	25.8097	OK	206.702	21.3733	11.664	31.0213	OK	0.448757	-0.27401	-0.0265	1.364864	-1.20917	-1.01854
RSc2518		hypothetical protein	1727.01	89.7666	39.9461	139.007	OK	958.636	49.9811	22.7541	77.0422	OK	1434.94	71.8731	40.4498	103.211	OK	1710.73	87.1284	48.8844	125.34	OK	-0.8448	-0.32073	-0.04304	-1.79601	-1.24896	-1.03028
RSc2519		hypothetical protein	1570.84	691.605	178.26	752.187	OK	1376.31	620.115	156.162	659.373	OK	1775.06	649.993	241.254	765.909	OK	1397.96	580.368	188.934	602.097	OK	-0.15741	-0.08952	-0.25298	-1.11529	-1.06402	-1.19167
RSc2520		hypothetical protein	355.949	38.7872	17.9604	59.526	OK	388.239	42.5793	19.5854	65.5128	OK	401.25	41.0895	22.8646	59.2287	OK	309.146	32.7662	17.8023	47.3323	OK	0.134572	0.083189	-0.24337	1.097767	1.059357	-1.18376
RSc2521	***hupB2***	DNA-binding protein HU-beta	55751.2	28445.6	5777.79	39193.8	OK	56727.9	29693.5	5880.6	39876.9	OK	53128.3	22119.7	6107.5	29795.2	OK	36934.3	17718.4	4583.19	18147.1	OK	0.061942	-0.36287	-0.68296	1.04387	-1.28598	-1.60543
RSc2522		hypothetical protein	211.947	30.9508	13.6705	46.5652	OK	291.639	42.9583	18.6902	64.1874	OK	222.299	30.0232	15.9092	43.5133	OK	190.383	26.9135	13.6967	37.9293	OK	0.47296	-0.0439	-0.20165	1.387954	-1.0309	-1.15001
RSc2523		putative transmembrane protein	517.191	44.4098	20.8315	67.8611	OK	422.278	36.4444	17.3713	55.5035	OK	276.762	22.5598	13.0964	31.9051	OK	313.679	26.2765	14.838	37.4781	OK	-0.28518	-0.97712	-0.7571	-1.21856	-1.96854	-1.6901
RSc2524		hypothetical protein	305.244	34.8543	16.2333	53.4014	OK	199.639	22.9503	10.7335	34.6843	OK	143.383	15.351	8.48838	21.8773	OK	182.224	20.2248	10.9386	29.4031	OK	-0.60282	-1.183	-0.78521	-1.51869	-2.27049	-1.72334
RSc2525		hypothetical protein	1974.45	126.147	55.8692	195.735	OK	1241.08	79.5915	35.0628	124.013	OK	1393.81	85.3586	47.6215	122.991	OK	1897.48	118.603	65.2692	171.481	OK	-0.66442	-0.5635	-0.08897	-1.58493	-1.47785	-1.06361
RSc2526	***sodB***	superoxide dismutase [Fe] protein	16504.5	2548.86	879.368	4185.4	OK	17702.6	2759	935.538	4576.81	OK	3657.93	520.592	260.381	762.16	OK	14480	2162.45	983.697	3229.8	OK	0.114293	-2.29163	-0.23719	1.082445	-4.89608	-1.17869
RSc2527	***xseA***	exodeoxyribonuclease VII large subunit	1448.13	80.328	35.4376	124.518	OK	1756.27	97.7401	43.1774	152.119	OK	1310.45	69.9386	39.3291	100.508	OK	1619.16	87.9653	49.0773	126.823	OK	0.283048	-0.19981	0.131032	1.216763	-1.14855	1.095076
RSc2528	***exbB2***	biopolymer transport EXBB-like transmembrane protein	1664.14	233.487	92.6088	374.065	OK	3289.91	465.441	185.01	742.011	OK	1557.2	202.561	103.533	298.731	OK	1758.78	239.055	117.446	347.122	OK	0.995256	-0.20499	0.034	1.993434	-1.15267	1.023847
RSc2529	***exbD2***	biopolymer transport EXBD-like transmembrane protein	699.729	166.756	58.8852	232.708	OK	1528.11	369.283	122.541	518.488	OK	654.67	138.917	63.8257	193.977	OK	690.818	157.627	67.0611	204.566	OK	1.146988	-0.26352	-0.08122	2.214511	-1.2004	-1.05792
RSc2530	***lpxK***	tetraacyldisaccharide 4'-kinase	1012.07	73.3987	32.6298	114.082	OK	1941.19	141.386	62.1316	220.374	OK	952.551	65.9656	36.7878	94.9344	OK	1077.02	76.3319	41.6888	110.969	OK	0.945813	-0.15404	0.056532	1.926274	-1.11268	1.039963
RSc2531		hypothetical protein	136.904	209.463	28.2819	96.7719	OK	188.599	301.583	38.845	136.98	OK	246.752	262.094	56.8087	153.283	OK	184.944	264.077	42.6905	117.651	OK	0.52586	0.323389	0.334263	1.439791	1.251266	1.260733
RSc2532	***kdsB***	3-deoxy-manno-octulosonate cytidylyltransferase	1394.39	139.223	58.8946	219.299	OK	1608.15	161.518	68.1517	253.215	OK	1527.19	143.868	76.915	210.276	OK	1633.67	158.842	83.213	233.815	OK	0.214297	0.047348	0.190195	1.160139	1.033364	1.140918
RSc2533	***adk***	adenylate kinase	2842.52	361.063	148.632	569.212	OK	2696.51	345.101	139.872	546.205	OK	1949.56	230.906	120.511	340.07	OK	1630.04	200.924	100.948	298.855	OK	-0.06523	-0.64494	-0.8456	-1.04625	-1.56368	-1.79701
RSc2534		3-hydroxyacyl-CoA dehydrogenase type II oxidoreductase	1926.79	207.849	87.565	328.114	OK	949.436	103.074	44.1219	161.809	OK	1369.36	138.885	73.8272	203.653	OK	1220.26	128.053	66.1264	189.758	OK	-1.01186	-0.58165	-0.69879	-2.0165	-1.49655	-1.62315
RSc2535		transcription regulator protein	615.559	48.9411	22.5934	75.267	OK	708.397	56.5877	25.8399	87.3919	OK	795.83	60.2337	33.7266	86.5389	OK	698.978	54.26	30.001	77.7151	OK	0.209442	0.299524	0.148843	1.156241	1.230739	1.10868
RSc2536		putative transmembrane aldehyde dehydrogenase oxidoreductase protein	860.971	40.9809	18.9165	63.0407	OK	556.598	26.5678	12.8377	40.2559	OK	545.744	25.0809	14.845	35.3093	OK	509.501	23.7763	14.0482	33.4642	OK	-0.62527	-0.70836	-0.78543	-1.5425	-1.63395	-1.7236
RSc2537		transcription regulator transcription regulator protein	873.14	76.8178	34.0014	119.653	OK	821.557	72.6564	32.3446	112.954	OK	570.197	47.5773	26.7202	68.364	OK	766.972	65.8103	35.7454	95.7948	OK	-0.08035	-0.69117	-0.22313	-1.05728	-1.61459	-1.16726
RSc2538		lipoprotein transmembrane	1738.17	122.338	53.817	190.811	OK	1517.07	107.221	46.8806	167.371	OK	1172.63	78.8846	43.7112	113.496	OK	1436.94	98.8624	53.6804	143.993	OK	-0.19029	-0.63306	-0.30738	-1.14099	-1.55085	-1.23746
RSc2539	***amiC***	N-acetylmuramoyl-L-alanine amidase AMIC precursor protein	4731.79	223.738	87.516	359.783	OK	4815.26	228.321	89.1218	367.686	OK	3001.04	137.028	71.4939	202.726	OK	3816.73	176.941	94.6304	258.879	OK	0.029253	-0.70734	-0.33854	1.020484	-1.63279	-1.26448
RSc2540		hypothetical protein	960.353	142.175	0.29609	370.113	OK	948.517	141.66	0.746744	371.729	OK	943.659	129.095	12.7226	246.929	OK	858.537	123.009	6.73407	253.316	OK	-0.00524	-0.13923	-0.2089	-1.00364	-1.10132	-1.15581
RSc2541		putative iron-sulfur 4Fe-4S ferredoxin protein	936.014	65.4505	29.5543	101.388	OK	759.917	53.3569	24.2619	82.3595	OK	661.339	44.2085	25.1663	63.2383	OK	771.505	52.7374	29.4486	75.6161	OK	-0.29473	-0.56608	-0.31158	-1.22665	-1.4805	-1.24106
RSc2542		putative lipoprotein transmembrane	610.488	80.3999	34.5253	126.23	OK	647.678	85.9652	36.5038	135.232	OK	371.239	45.4963	24.6905	66.1665	OK	1118.73	142.888	71.2413	209.918	OK	0.096559	-0.82144	0.829619	1.06922	-1.76717	1.777216
RSc2543		methylated-DNA--protein-cysteinemethyltransferase	1087.12	194.455	56.0116	332.368	OK	997.276	180.284	49.4728	310.778	OK	866.966	141.447	62.4362	220.292	OK	875.762	151.021	59.7586	233.071	OK	-0.10916	-0.45917	-0.36469	-1.0786	-1.37476	-1.2876
RSc2544	***xerD***	site-specific tyrosine recombinase XerD	865.027	72.8212	5.72449	140.25	OK	891.477	75.4221	10.4062	140.442	OK	522.403	41.7786	12.156	71.4168	OK	812.301	66.7259	24.479	109.005	OK	0.050629	-0.80159	-0.12611	1.035716	-1.74303	-1.09135
RSc2545		hypothetical protein	253.525	49.4661	20.0271	71.6003	OK	296.239	58.47	23.2995	87.4387	OK	256.755	45.3866	22.5976	61.3364	OK	284.668	53.4414	25.1802	71.6667	OK	0.241256	-0.12417	0.111518	1.182022	-1.08988	1.080364
RSc2546		putative glycerol-3-phosphate acyltransferase PlsY	920.803	128.354	52.429	204.246	OK	965.996	135.77	55.0092	216.218	OK	815.837	105.476	54.6738	152.72	OK	981.833	132.601	65.5679	185.402	OK	0.081036	-0.28321	0.046963	1.057778	-1.2169	1.033088
RSc2547	***alaS***	N-acyl-homoserine lactone acylase	3224.84	93.2984	41.3698	145.253	OK	2279.75	66.0686	29.18	102.939	OK	2551.99	71.8861	41.2104	102.614	OK	2620.94	74.5217	42.5938	106.365	OK	-0.49789	-0.37614	-0.32419	-1.41214	-1.29786	-1.25196
RSc2548		putative inosine-uridine preferring nucleoside hydrolase transmembrane protein	2023.13	145.739	64.523	226.684	OK	1664.27	120.4	52.9357	187.104	OK	1483.85	102.091	56.2519	147.458	OK	1468.67	103.397	55.7706	150.286	OK	-0.27555	-0.51353	-0.49519	-1.21046	-1.42754	-1.40951
RSc2549		nucleotide-binding protein	3082.86	612.627	224.873	913.407	OK	2559.43	514.611	185.915	761.151	OK	3001.04	539.499	255.303	822.12	OK	2339.9	447.202	200.53	636.1	OK	-0.25153	-0.18339	-0.45408	-1.19047	-1.13555	-1.36991
RSc2550	***murB***	UDP-N-acetylenolpyruvoylglucosamine reductase oxidoreductase protein	1495.8	111.107	48.5667	173.551	OK	1494.99	111.536	48.7545	174.052	OK	1125.94	79.8001	44.2684	115.332	OK	948.289	68.8203	37.6621	99.7736	OK	0.00556	-0.47749	-0.69104	1.003861	-1.39232	-1.61445
RSc2551		hypothetical protein	3827.21	277.562	123.282	431.425	OK	4446.34	323.848	141.682	505.885	OK	4697.18	325.287	178.554	470.013	OK	4265.49	302.308	163.064	441.091	OK	0.222507	0.228903	0.123209	1.166759	1.171944	1.089155
RSc2552		hypothetical protein	796.069	257.761	79.4279	319.679	OK	1218.08	401.657	118.247	495.351	OK	972.558	271.698	112.769	353.306	OK	610.132	187.646	71.826	217.419	OK	0.63993	0.07597	-0.45802	1.558254	1.054069	-1.37366
RSc2553	***argG***	argininosuccinate synthase	5407.18	296.111	129.909	461.396	OK	8486.05	466.222	193.203	737.627	OK	11504	606.325	326.442	884.172	OK	6343.38	340.257	186.986	494.008	OK	0.654879	1.033953	0.200487	1.574484	2.047627	1.149086
RSc2554	***argF***	ornithine carbamoyltransferase	5113.09	430.439	184.936	675.759	OK	6650.66	562.669	233.566	891.332	OK	4173.66	333.784	180.589	485.157	OK	4520.24	371.312	196.763	545.81	OK	0.386478	-0.36689	-0.21318	1.307198	-1.28957	-1.15924
RSc2555		hypothetical protein	231.215	77.1542	25.2874	90.598	OK	318.319	108.223	34.7474	126.437	OK	402.361	115.449	48.8152	134.601	OK	320.931	101.641	39.3034	112.885	OK	0.488191	0.581439	0.397666	1.402684	1.496341	1.317375
RSc2556	***rpsT***	30S ribosomal protein S20	4207.5	2478.61	550.906	2280.08	OK	5525.5	3347.55	711.305	3284.45	OK	2745.39	1294.46	428.065	1358.91	OK	1884.79	1041.52	292.674	934.176	OK	0.433574	-0.93718	-1.25084	1.350576	-1.91478	-2.3798
RSc2557		MVIN_ECOLI homolog transmembrane protein	2203.64	101.951	14.8363	188.976	OK	3103.15	143.959	25.5283	262.494	OK	1810.62	80.9284	21.6269	140.146	OK	1999.02	90.6882	24.7749	156.376	OK	0.497782	-0.33316	-0.16889	1.412041	-1.25977	-1.12419
RSc2558		hypothetical protein	3778.54	355.759	76.0754	638.073	OK	4277.98	405.032	57.9431	751.556	OK	4259.25	379.304	170.539	588.203	OK	4734.19	434.379	195.16	674.206	OK	0.187136	0.092454	0.288054	1.138501	1.066182	1.220992
RSc2559	***dedA***	DEDA DSG-1 protein transmembrane	1603.29	208.591	84.2016	329.945	OK	1766.39	231.587	92.5335	369.056	OK	1564.98	189.598	98.0533	278.398	OK	1405.21	177.339	88.4801	262.056	OK	0.150877	-0.13773	-0.23417	1.110244	-1.10018	-1.17623
RSc2560		putative transcription regulator protein	1075.96	148.06	60.0054	235.115	OK	988.996	137.206	55.6097	217.634	OK	997.011	127.345	65.851	186.662	OK	753.373	100.465	50.0185	143.602	OK	-0.10984	-0.21744	-0.55949	-1.07911	-1.16267	-1.47375
RSc2561		lipoprotein	81.128	10.4285	4.75965	16.0274	OK	98.4396	12.7504	5.73101	19.6214	OK	174.505	20.9021	11.4031	30.1847	OK	85.2191	10.6281	5.36617	15.811	OK	0.290011	1.003116	0.027352	1.222649	2.004325	1.01914

RSc2562		hypothetical protein	114.593	4.87122	2.49616	7.21967	OK	113.16	4.82236	2.49616	7.14286	OK	123.376	5.07527	3.03073	7.08432	OK	98.8179	4.12104	2.42458	5.83415	OK	-0.01454	0.059201	-0.24127	-1.01013	1.041889	-1.18204
RSc2563	***mutL***	DNA mismatch repair protein	2437.9	89.767	40.3728	139.148	OK	2325.75	85.8239	38.3508	133.351	OK	1992.91	71.1946	40.2932	101.797	OK	1947.35	70.3977	39.7945	100.899	OK	-0.06481	-0.33442	-0.35066	-1.04594	-1.26087	-1.27514
RSc2564	***miaA***	tRNA delta(2)-isopentenylpyrophosphate transferase	714.941	56.8427	20.0756	93.5537	OK	727.717	58.131	20.6057	95.6076	OK	607.988	46.0165	21.0465	71.0482	OK	640.05	49.6855	23.0727	76.1464	OK	0.032333	-0.30482	-0.19415	1.022664	-1.23527	-1.14405
RSc2565		putative acetyltransferase protein	373.189	64.6017	1.73107	132.254	OK	375.359	65.6466	4.19737	134.84	OK	536.852	84.9696	30.2303	140.072	OK	465.985	77.8224	25.8859	129.597	OK	0.023148	0.395375	0.268613	1.016174	1.315284	1.204649
RSc2566		putative methylated-DNA--protein-cysteine methyltransferase	78.0857	14.2039	1.4977	26.8337	OK	64.3998	11.8412	1.12327	22.4655	OK	51.1288	8.47226	1.47748	15.3904	OK	41.703	7.31056	0.738739	13.7898	OK	-0.26247	-0.74547	-0.95823	-1.19953	-1.67652	-1.94293
RSc2567		hypothetical protein	353.921	38.5662	15.0376	62.112	OK	321.999	35.3146	14.0381	56.4816	OK	304.55	31.187	17.4086	44.9552	OK	362.634	38.4354	21.8338	55.0085	OK	-0.12707	-0.30639	-0.0049	-1.09208	-1.23661	-1.0034
RSc2568	***alkB***	alkylated DNA repair protein	445.19	57.9199	25.584	89.5928	OK	435.158	57.0524	24.9958	88.1225	OK	556.859	67.4636	36.0689	97.4731	OK	495.902	62.5835	32.1042	88.7702	OK	-0.02177	0.22005	0.111723	-1.01521	1.164774	1.080518
RSc2569	***alkA***	DNA-3-methyladenine glycosylase protein	221.074	29.8474	13.4043	45.8567	OK	183.999	25.0412	11.2878	38.2979	OK	190.066	23.845	12.9251	34.2017	OK	222.114	29.0705	15.1124	42.8515	OK	-0.2533	-0.32392	-0.03805	-1.19193	-1.25173	-1.02672
RSc2570	***ada***	bifunctional methylated-DNA--protein-cysteine methyltransferase/O-6-methylguanine-DNA transcription	390.429	27.3006	12.8445	41.7447	OK	248.399	17.4411	8.26569	26.581	OK	191.177	12.7796	7.50881	18.0681	OK	217.581	14.8731	8.68206	21.0599	OK	-0.64644	-1.09509	-0.87623	-1.5653	-2.13626	-1.83557
RSc2571		hypothetical protein	38.5358	22.1354	0	64.9086	OK	40.4799	23.9026	0	58.4577	OK	16.6724	7.6916	0	18.4535	OK	19.9449	10.7507	0	25.8731	OK	0.110812	-1.525	-1.04192	1.079836	-2.87787	-2.05897
RSc2572		lipoprotein	128.791	31.7448	11.8754	40.498	OK	216.199	54.0609	19.7923	73.3836	OK	98.923	21.6414	9.91273	28.9872	OK	91.5652	21.5902	9.16177	26.7343	OK	0.768065	-0.55273	-0.55614	1.702984	-1.46686	-1.47033
RSc2623	***purM***	phosphoribosylaminoimidazole synthetase	7229.52	517.317	218.005	815.139	OK	9495.28	682.325	278.404	1085.66	OK	8951.98	611.934	329.443	893.869	OK	6745.91	471.787	253.349	690.233	OK	0.39941	0.242327	-0.13291	1.318969	1.182899	-1.09651
RSc2624		ABC transporter permease	710.884	50.3645	23.2108	77.5097	OK	668.838	47.5844	21.8278	73.3606	OK	620.214	41.9896	24.0246	59.8538	OK	474.144	32.8348	18.6858	47.0407	OK	-0.08192	-0.26238	-0.61718	-1.05842	-1.19945	-1.53388
RSc2625		hypothetical protein	465.472	55.5121	24.9531	85.7762	OK	612.718	73.59	31.9253	114.766	OK	451.267	50.3504	27.4218	73.2152	OK	370.794	42.9549	22.8062	62.2646	OK	0.406707	-0.1408	-0.36998	1.325657	-1.10252	-1.29233
RSc2626		putative hydrolase protein	1601.26	201.017	81.67	319.047	OK	1829.87	231.429	94.0731	365.321	OK	1596.11	186.952	97.7916	276.245	OK	1583.81	192.978	97.1328	288.104	OK	0.203252	-0.10465	-0.05888	1.151291	-1.07523	-1.04166
RSc2627	***pcnB***	polynucleotide adenylyltransferase protein	2892.21	134.679	51.6458	217.671	OK	4054.43	189.318	72.4876	306.957	OK	2556.44	114.992	57.8569	172.255	OK	2990.83	136.56	69.782	203.383	OK	0.491287	-0.22799	0.02001	1.405698	-1.1712	1.013967
RSc2628	***folK***	2-amino-4-hydroxy-6- hydroxymethyldihydropteridine pyrophosphokinase	1013.09	187.456	2.96055	417.993	OK	1222.68	228.727	4.11555	530.532	OK	992.565	167.087	26.0925	308.06	OK	1075.21	191.658	29.768	354.364	OK	0.287075	-0.16595	0.031982	1.220164	-1.12191	1.022416
RSc2629		putative deoxyguanosine kinase (DGUO kinase) (DGK) protein	423.894	56.5193	24.9616	87.2658	OK	654.118	87.907	37.1429	137.888	OK	512.399	63.5311	33.982	91.0127	OK	596.534	77.1217	39.2024	110.811	OK	0.637234	0.168719	0.448393	1.555345	1.12406	1.36452
RSc2630	***panB***	3-methyl-2-oxobutanoatehydroxymethyltransferase	1723.97	167.458	71.4265	263.068	OK	2470.19	241.324	103.822	378.053	OK	1735.04	159.199	85.8639	231.871	OK	1950.07	184.522	97.4151	271.145	OK	0.527172	-0.07297	0.139994	1.441102	-1.05188	1.1019
RSc2631		transmembrane ABC transporter protein	444.176	52.3902	23.6501	80.956	OK	678.037	80.534	34.6565	126.164	OK	350.121	38.6577	21.2669	55.9939	OK	459.639	52.671	27.8175	76.0046	OK	0.620301	-0.43854	0.007712	1.537196	-1.35523	1.00536
RSc2632		ABC transporter ATP-binding protein	333.639	40.9266	3.28098	78.5561	OK	605.358	74.7985	3.93718	145.488	OK	329.002	37.7019	2.58935	72.7793	OK	408.87	48.6979	9.9875	87.3906	OK	0.869971	-0.1184	0.250821	1.827626	-1.08553	1.189884
RSc2633	***pabB***	putative PARA-aminobenzoate synthetase component I protein	1104.35	41.3737	12.6254	70.1702	OK	2444.43	91.7811	31.8774	151.953	OK	2398.61	87.158	45.8572	128.56	OK	1701.66	62.5844	31.6662	93.5643	OK	1.149483	1.074919	0.597089	2.218344	2.106604	1.512661
RSc2634	***dnaJ***	chaperone protein	6252.94	410.493	176.638	643.615	OK	9960.8	656.447	267.971	1043.6	OK	16562.4	1041.4	540.213	1540.43	OK	7606.26	488.407	261.074	715.411	OK	0.677321	1.343095	0.250726	1.599167	2.536949	1.189806
RSc2635	***dnaK***	molecular chaperone DnaK	81861.2	2767.42	952.898	4581.88	OK	102682	3478.21	1218.14	5731.84	OK	230555	7572.12	200.953	14952.6	OK	70172.5	2329.95	834.148	3826.96	OK	0.329803	1.452156	-0.24824	1.256842	2.736166	-1.18776
RSc2636	***rnk***	putative regulator of nucleoside diphosphate kinase transcription regulator protein	176.453	46.689	17.0146	59.7896	OK	305.439	82.0658	29.2587	106.063	OK	402.361	93.841	42.6681	117.651	OK	155.026	39.1674	16.4712	45.8055	OK	0.813698	1.007136	-0.25343	1.757712	2.009917	-1.19204
RSc2637		hypothetical protein	16.2256	134.681	4.39098	19.0276	OK	14.7199	131.575	3.90309	16.5881	OK	34.4563	145.237	10.1073	35.1349	OK	18.1317	134.216	4.813	22.1398	OK	-0.03366	0.108863	-0.00499	-1.02361	1.078378	-1.00346
RSc2638		putative thioredoxin protein	2345.61	578.155	195.03	802.805	OK	2598.99	649.881	217.258	887.302	OK	3009.93	658.483	293.927	947.267	OK	1513.09	356.772	147.94	473.558	OK	0.168719	0.18769	-0.69645	1.12406	1.138939	-1.62052
RSc2639	***grpE***	HEAT shock protein 24	8143.22	1085.77	415.262	1756.6	OK	8886.25	1194.22	449.808	1932.83	OK	10020.1	1242.37	618.374	1860.15	OK	5040.62	651.666	318.84	968.832	OK	0.13735	0.194376	-0.73651	1.099883	1.144229	-1.66614
RSc2640		putative transposase remnant protein	185.58	187.291	33.6913	117.77	OK	173.879	182.139	31.6042	110.317	OK	88.9196	66.4659	17.3535	50.59	OK	125.109	117.907	24.7067	69.12	OK	-0.04024	-1.4946	-0.66763	-1.02829	-2.81785	-1.58846
RSc2641		putative transmembrane protein	1411.63	2159.8	259.308	1095.5	OK	560.278	895.922	110.061	420.14	OK	899.199	955.107	198.662	620.862	OK	957.355	1366.98	210.764	662.88	OK	-1.26945	-1.17716	-0.65991	-2.4107	-2.26132	-1.57998
RSc2642	***hslR***	putative heat shock protein 15	954.268	262.111	33.9894	488.537	OK	540.038	150.701	11.7093	288.829	OK	812.503	195.971	46.3652	345.573	OK	747.933	195.969	43.7983	338.996	OK	-0.79849	-0.41954	-0.41955	-1.73928	-1.3375	-1.33751
RSc2643	***hemH***	ferrochelatase	2848.61	192.298	58.1226	326.323	OK	2328.51	157.816	53.9494	261.749	OK	2778.74	179.517	87.0213	271.788	OK	2542.07	167.809	81.3276	254.347	OK	-0.2851	-0.09922	-0.19652	-1.21849	-1.0712	-1.14593
RSc2644	***hutI***	imidazolonepropionase	388.4	23.4866	4.51384	42.4091	OK	183.079	11.1104	3.67406	18.5277	OK	117.818	6.83952	3.00312	10.6663	OK	115.136	6.81451	3.0549	10.5627	OK	-1.07993	-1.77987	-1.78516	-2.11393	-3.43395	-3.44656
RSc2645		arginase	636.855	50.262	11.4437	88.8664	OK	206.079	16.3403	4.28172	28.4655	OK	180.062	13.5316	6.6883	20.4407	OK	155.026	11.9467	5.7797	18.1868	OK	-1.62103	-1.89314	-2.07286	-3.07595	-3.71442	-4.20719
RSc2646	***hutH***	histidine ammonia-lyase	2387.19	110.206	49.5519	170.826	OK	981.636	45.4413	20.7638	70.109	OK	1150.4	51.3103	29.1748	73.1613	OK	938.316	42.4769	24.2375	60.7161	OK	-1.27813	-1.10288	-1.37545	-2.42524	-2.14783	-2.59449
RSc2647	***hutU***	urocanate hydratase	2845.56	111.47	50.3512	172.663	OK	1025.8	40.2768	18.0793	62.4754	OK	1421.6	53.9718	30.6401	77.1455	OK	1493.15	57.4081	32.5397	82.2463	OK	-1.46863	-1.04638	-0.95733	-2.7676	-2.06534	-1.94171
RSc2648	***hutC***	histidine utilization repressor transcription regulator protein	511.106	59.6294	26.6984	92.1818	OK	518.878	60.9553	27.1494	94.3465	OK	387.912	42.3882	23.4017	60.8622	OK	497.716	56.4237	29.7193	82.0394	OK	0.031728	-0.49236	-0.07972	1.022236	-1.40675	-1.05681
RSc2649	***hrcA***	heat-inducible transcription repressor	3789.69	272.083	120.775	422.894	OK	4216.34	304.001	134.275	472.882	OK	4817.22	330.359	181.476	478.677	OK	3270.06	229.455	124.664	333.916	OK	0.160029	0.279988	-0.24584	1.11731	1.214185	-1.18578
RSc2650	***ppnK***	inorganic polyphosphate/ATP-NAD kinase	3244.11	279.681	121.788	435.716	OK	3819.83	330.998	143.68	516.271	OK	3706.84	303.323	164.176	441.995	OK	3936.4	331.057	176.057	486.097	OK	0.24304	0.117073	0.243297	1.183484	1.084532	1.183695
RSc2651	***recN***	DNA repair protein	5235.8	217.823	95.0197	340.384	OK	7303.85	304.606	128.199	480.032	OK	3539	142.537	80.0647	204.527	OK	5900.06	240.836	133.305	348.086	OK	0.483788	-0.61182	0.144895	1.398411	-1.52819	1.10565
RSc2652		lipoprotein	2857.73	645.362	226.34	921.352	OK	1402.99	321.065	109.064	460.316	OK	1181.52	238.75	109.581	348.642	OK	1394.33	301.895	128.769	411.037	OK	-1.00724	-1.43461	-1.09606	-2.01007	-2.70309	-2.1377
RSc2653		putative extracellular protease signal peptide protein	16183	708.978	267.43	1149.63	OK	9745.52	428.057	173.906	682.406	OK	8390.67	355.523	195.383	515.61	OK	8723.17	374.859	205.31	544.262	OK	-0.72794	-0.9958	-0.91939	-1.65627	-1.99418	-1.89132
RSc2654		serine protease protein	6783.32	232.615	98.1799	367.307	OK	8456.61	290.583	118.889	461.193	OK	7632.63	254.227	140.361	368.047	OK	6534.67	220.078	122.143	317.565	OK	0.321006	0.128173	-0.07993	1.249201	1.092909	-1.05697
RSc2655		hypothetical protein	872.126	122.364	0	261.648	OK	836.277	118.313	0	273.886	OK	1028.13	133.74	12.7882	254.74	OK	838.592	113.982	9.6167	218.422	OK	-0.04857	0.128252	-0.10237	-1.03424	1.092969	-1.07354
RSc2656	***glnE***	glutamate-ammonia-ligase adenylyltransferase	5942.63	141.43	45.5994	237.231	OK	7316.73	174.378	55.5302	293.142	OK	6496.69	150.89	74.7635	227.17	OK	5867.42	137.329	69.6073	205.171	OK	0.30213	0.093409	-0.04245	1.232963	1.066888	-1.02986
RSc2657		hypothetical protein	3956	61.8524	26.4765	97.2559	OK	4031.43	63.0898	26.9879	99.1513	OK	3575.68	54.7605	30.9422	78.5797	OK	4429.58	68.1827	38.3475	97.9167	OK	0.028577	-0.17569	0.140576	1.020006	-1.12951	1.102345
RSc2658		putative nitrilase protein	2018.06	183.565	79.3539	287.584	OK	2157.39	197.297	85.1277	309.347	OK	2301.91	198.323	107.858	287.499	OK	2076.08	184.107	97.8533	269.827	OK	0.104078	0.111561	0.004253	1.074807	1.080397	1.002953
RSc2659	***tldD***	TldD protein	8551.91	423.979	174.954	672.353	OK	9556	475.148	193.6	756.546	OK	9193.17	439.668	239.081	640.012	OK	11090.3	538.913	289.784	788.209	OK	0.164384	0.052422	0.34606	1.120688	1.037004	1.271084
RSc2660	***aroG1***	phospho-2-dehydro-3-deoxyheptonate aldolase	5286.5	370.865	161.718	579.132	OK	10562.5	744.069	300.24	1183.73	OK	6245.49	418.814	228.596	608.609	OK	7044.17	483.075	259.127	707.024	OK	1.004542	0.175416	0.381353	2.006307	1.12929	1.302563
RSc2661		putative transcription regulator protein	51.7191	18.9934	5.94176	20.5086	OK	59.7998	22.4082	6.90011	23.767	OK	53.3517	16.6614	6.42879	19.4755	OK	72.5269	25.2191	8.88686	27.2278	OK	0.238529	-0.18899	0.409019	1.179789	-1.13996	1.327782
RSc2662		hypothetical protein	12051.6	1055.95	409.883	1700.42	OK	2505.15	220.64	96.1348	344.836	OK	4238.13	352.242	190.311	513.565	OK	3775.02	322.61	171.472	472.91	OK	-2.25878	-1.5839	-1.71068	-4.78585	-2.9978	-3.27315
RSc2663		hypothetical protein	479.669	78.0044	32.2005	119.453	OK	400.199	65.7106	27.2377	99.0252	OK	482.389	72.0421	37.0032	101.559	OK	448.76	70.498	34.3845	101.787	OK	-0.24743	-0.11472	-0.14597	-1.18709	-1.08276	-1.10648
RSc2664	***dld***	putative D-lactate dehydrogenase (cytochrome) oxidoreductase	2053.55	105.211	47.2909	163.158	OK	2186.83	112.379	50.5586	174.368	OK	1695.03	83.7124	47.3689	119.721	OK	2678.05	134.455	75.5753	192.968	OK	0.095087	-0.32977	0.353838	1.06813	-1.25681	1.277956
RSc2665		transcription regulator protein	744.349	65.7565	29.4177	101.986	OK	737.837	65.5224	29.3455	101.697	OK	380.131	31.8437	18.3251	45.2778	OK	674.5	58.1112	31.6588	84.3523	OK	-0.00515	-1.04613	-0.17832	-1.00357	-2.06498	-1.13156
RSc2666	***glcD***	glycolate oxidase FAD-linked subunit oxidoreductase	4562.44	220.589	98.2395	342.265	OK	4919.22	238.519	105.438	371.879	OK	1696.14	79.1526	44.7783	113.498	OK	6574.56	311.614	171.459	451.993	OK	0.112743	-1.47865	0.498399	1.081282	-2.78688	1.412645
RSc2667	***glcE***	glycolate oxidase FAD binding subunit	1259.51	84.7579	37.2363	132.025	OK	1513.39	102.248	44.603	159.823	OK	295.658	19.0425	11.2983	26.7412	OK	1659.96	109.238	59.8412	158.346	OK	0.270653	-2.15412	0.366055	1.206354	-4.45099	1.288824
RSc2668	***glcF***	glycolate oxidase iron-sulfur subunit	1436.98	85.214	37.5156	132.827	OK	1724.07	102.598	45.3077	159.764	OK	400.138	22.7912	13.4903	32.1221	OK	1910.18	110.887	61.5462	160.356	OK	0.26784	-1.90261	0.379928	1.204004	-3.7389	1.301277
RSc2669		hypothetical protein	213.975	63.6065	13.6298	110.402	OK	260.359	78.7183	14.4817	141.58	OK	166.724	43.1618	14.1181	71.263	OK	190.383	53.8736	14.2862	89.4148	OK	0.307525	-0.55942	-0.2396	1.237583	-1.47368	-1.18066
RSc2670		hypothetical protein	345.808	39.6972	11.5944	67.7294	OK	514.278	59.4391	18.0301	101.015	OK	318.999	34.3266	16.7867	51.8666	OK	452.386	50.4743	24.7693	76.2047	OK	0.582375	-0.20971	0.346512	1.497312	-1.15646	1.271483
RSc2671		hypothetical protein	217.017	59.6086	21.1417	75.9476	OK	145.359	40.5634	14.3113	49.1139	OK	185.62	44.7703	20.375	56.3121	OK	165.905	43.4694	18.129	50.2156	OK	-0.55534	-0.41298	-0.45552	-1.46952	-1.33143	-1.37128
RSc2672		hypothetical protein	199.778	40.4474	16.3686	57.1559	OK	159.159	32.6109	12.8802	45.349	OK	136.714	25.0016	12.1769	34.0159	OK	194.009	37.7606	17.4712	48.1781	OK	-0.31069	-0.69403	-0.09917	-1.2403	-1.61779	-1.07115
RSc2673		putative repressor transcription regulator protein	2185.39	262.085	108.441	415.151	OK	1719.47	207.678	84.9467	330.389	OK	2389.71	268.046	141.878	392.551	OK	1845.81	215.005	109.612	314.477	OK	-0.33569	0.032446	-0.28566	-1.26198	1.022745	-1.21897
RSc2674		putative glutathione peroxidase protein	9173.55	1757.97	603.016	2750.62	OK	7892.65	1529.73	528.398	2522.76	OK	14013.7	2436.53	1111.29	3620.03	OK	8468.42	1562.1	687.366	2134.43	OK	-0.20063	0.470918	-0.17042	-1.1492	1.385991	-1.12539
RSc2675		putative type 4 fimbrial biogenesis PILY1- related protein signal peptide	7733.53	163.24	66.4254	260.47	OK	6025.98	127.356	53.0962	201.722	OK	7439.23	153.43	84.3726	222.212	OK	5850.2	121.485	67.7038	175.251	OK	-0.35813	-0.08941	-0.42622	-1.28176	-1.06394	-1.3437
RSc2676		hypothetical protein	787.956	135.31	53.0079	211.672	OK	678.957	117.784	45.9322	181.69	OK	789.161	123.977	61.757	175.57	OK	640.956	106.206	50.2811	153.564	OK	-0.20012	-0.1262	-0.3494	-1.1488	-1.09141	-1.27403
RSc2677		putative type 4 fimbrial biogenesis pilw-related protein	1582	120.002	52.3616	187.343	OK	1268.68	96.6671	42.297	151.097	OK	1217.09	88.0273	48.4499	127.377	OK	1067.96	79.1322	43.297	114.558	OK	-0.31196	-0.44704	-0.60072	-1.24139	-1.36324	-1.51647
RSc2678		type 4 fimbrial biogenesis related transmembrane protein	1357.88	203.839	67.3432	340.312	OK	1196.92	181.28	56.7731	305.442	OK	1212.64	168.064	79.8714	254.449	OK	936.503	136.021	61.0591	209.192	OK	-0.16921	-0.27842	-0.5836	-1.12444	-1.21287	-1.49858
RSc2679		putative type 4 fimbrial pilin related transmembrane protein	742.321	153.175	11.5554	313.647	OK	783.837	163.721	7.51939	325.005	OK	490.169	91.2154	14.7011	168.411	OK	472.331	93.6524	24.1898	163.579	OK	0.096059	-0.74783	-0.70979	1.068849	-1.67927	-1.63557
RSc2680	***pilE2***	type 4 fimbrial biogenesis transmembrane protein	730.152	168.421	59.8739	238.181	OK	747.037	174.661	61.3343	243.877	OK	483.5	99.6019	46.6763	139.164	OK	374.42	82.7595	36.736	107.327	OK	0.052485	-0.75783	-1.02508	1.03705	-1.69094	-2.03507
RSc2681	***pilU***	twitching motility protein	7555.05	497.494	210.038	784.619	OK	19768	1306.78	487.753	2120.71	OK	10282.4	648.459	347.25	949.296	OK	11310.6	728.475	385.146	1062.48	OK	1.393265	0.382336	0.5502	2.626725	1.303451	1.464289
RSc2682	***pilT***	twitching motility protein	10509.1	767.339	309.606	1224.3	OK	20380.7	1494.56	553.207	2434.59	OK	12346.5	860.642	453.484	1267.41	OK	12982.3	926.295	479.165	1373.66	OK	0.961785	0.165549	0.271608	1.947718	1.121593	1.207152
RSc2683		hypothetical protein	545.586	62.6308	27.7913	96.9132	OK	578.678	66.8823	29.5728	103.95	OK	766.931	82.5273	44.1997	120.824	OK	756.093	84.3599	43.5846	122.142	OK	0.094752	0.397999	0.429685	1.067882	1.317679	1.34694
RSc2684	***proC***	pyrroline-5-carboxylate reductase	945.141	91.8062	40.1238	143.4	OK	1284.32	125.47	53.2381	197.184	OK	1381.59	126.768	68.1521	185.05	OK	1027.16	97.1936	51.3643	142.542	OK	0.450679	0.465527	0.08227	1.366683	1.380822	1.058682
RSc2685		hypothetical protein	189.637	101.306	12.4647	182.354	OK	164.679	90.322	7.84815	170.351	OK	228.968	99.2038	23.4543	160.765	OK	203.982	102.374	19.3555	152.339	OK	-0.16557	-0.03025	0.01513	-1.12161	-1.02119	1.010542
RSc2686	***ubiA***	4-hydroxybenzoate octaprenyltransferase	504.008	45.4598	14.9727	76.2162	OK	622.838	56.4783	19.768	93.3993	OK	551.301	47.1145	23.758	70.5049	OK	587.468	51.6639	26.383	76.9505	OK	0.313105	0.05158	0.184565	1.242379	1.036399	1.136474
RSc2687	***dps***	putative DNA protection during starvation or oxydative stress transcription regulator protein	4801.76	912.051	333.06	1487.01	OK	7060.97	1356.31	475.488	2229.48	OK	8112.8	1399.06	655.098	2033.01	OK	4018.9	734.932	330.466	1070.65	OK	0.572501	0.617271	-0.3115	1.487099	1.533971	-1.241
RSc2688		hypothetical protein	51.7191	38.123	8.21576	28.3576	OK	70.8397	53.9083	11.3961	40.5488	OK	17.7839	10.1679	2.61447	11.2422	OK	30.8239	21.2569	4.70604	16.2097	OK	0.499846	-1.90664	-0.84273	1.414062	-3.74935	-1.79344
RSc2689		hypothetical protein	1.0141	0.703893	0	1.29319	OK	NA	NA	NA	0	OK	2.22299	1.2071	0	2.29632	OK	0	0	0	0	OK	NA	0.778117	NA	NA	1.714891	NA

RSc2690	***oxyR***	hydrogen peroxide-inducible genes activator transcription regulator protein	4236.91	344.519	150.674	535.932	OK	5474.9	447.329	190.773	700.445	OK	8012.77	619.749	331.976	906.224	OK	4406.01	349.72	186.133	511.583	OK	0.376753	0.8471	0.021617	1.298416	1.798882	1.015096
RSc2691		hypothetical protein	708.856	119.811	47.4409	187.391	OK	734.157	125.336	48.8641	194.626	OK	940.325	145.565	72.1897	203.933	OK	755.186	123.206	58.0325	180.416	OK	0.06504	0.280903	0.040312	1.046114	1.214955	1.028336
RSc2692		signal peptide protein	387.386	71.6799	18.9415	122.488	OK	346.839	64.8833	15.7846	113.901	OK	489.058	82.3274	35.1292	129.056	OK	442.414	78.8611	31.5167	124.696	OK	-0.14372	0.199804	0.137745	-1.10475	1.148542	1.100184
RSc2693		putative outer membrane usher transmembrane protein	435.049	13.3226	2.6336	24.0393	OK	489.438	15.0153	3.34398	26.7825	OK	373.462	11.1267	3.96253	18.2634	OK	417.03	12.5482	4.81433	20.2804	OK	0.172558	-0.25985	-0.0864	1.127055	-1.19735	-1.06171
RSc2694		putative pili assembly chaperone transmembrane protein	33.4653	3.59196	1.6058	5.57804	OK	68.9997	7.45318	3.46514	11.4096	OK	53.3517	5.38529	2.83474	7.92061	OK	38.9832	4.07068	2.001	6.00299	OK	1.053085	0.584253	0.180499	2.074962	1.499262	1.133275
RSc2695		signal peptide protein	48.6768	9.16472	3.70561	13.0335	OK	81.8797	15.5886	6.26121	21.9781	OK	83.3621	14.2598	6.93301	20.1688	OK	93.3783	16.9298	7.81539	22.8159	OK	0.766329	0.637791	0.885402	1.700936	1.555945	1.84728
RSc2696		signal peptide protein	37.5217	7.06447	2.81115	10.9891	OK	65.3198	12.4358	4.98341	17.5058	OK	97.8115	16.7315	8.19356	23.9504	OK	67.9939	12.3276	5.54641	16.7653	OK	0.815846	1.243914	0.803239	1.76033	2.368401	1.745014
RSc2697		hypothetical protein	876.182	80.7247	35.529	125.735	OK	1040.52	96.3887	42.0364	150.718	OK	397.915	34.7063	19.7752	49.2167	OK	706.23	63.4252	34.3115	92.6041	OK	0.255854	-1.21781	-0.34795	1.194042	-2.32594	-1.27275
RSc2698		hypothetical protein	997.874	466.894	119.261	489.404	OK	989.916	474.47	118.611	485.284	OK	676.9	261.376	95.8322	293.486	OK	1039.85	458.202	145.032	460.123	OK	0.023222	-0.83697	-0.02711	1.016226	-1.78629	-1.01897
RSc2699		hypothetical protein	797.083	325.185	89.9184	362.711	OK	965.996	402.799	108.348	442.301	OK	902.534	309.165	118.672	370.401	OK	1386.17	534.136	179.607	573.782	OK	0.308799	-0.07288	0.715946	1.238676	-1.05182	1.64256
RSc2700		hypothetical protein	601.361	306.83	77.9591	299.86	OK	723.117	378.507	92.1951	364.487	OK	305.661	127.261	46.5898	133.528	OK	640.956	307.484	94.7401	289.347	OK	0.30288	-1.26965	0.003072	1.233605	-2.41103	1.002131
RSc2701		hypothetical protein	313.357	121.136	37.0256	134.316	OK	366.159	144.549	42.934	158.541	OK	322.333	105.315	42.9373	122.789	OK	384.392	140.526	50.903	147.269	OK	0.254931	-0.20192	0.214209	1.193279	-1.15023	1.160068
RSc2702	***cspA***	cold shock-like transcription regulator protein	1.0141	2.59614	0	3.51278	OK	4.59998	12.4139	0.390309	6.24494	OK	5.55747	9.06265	0.77008	6.54568	OK	0	0	0	0	OK	2.257516	1.803565	NA	4.781676	3.490817	NA
RSc2703		hypothetical protein	537.473	145.779	50.1973	190.782	OK	876.757	241.557	78.6047	318.777	OK	633.552	151.088	67.1938	202.696	OK	806.861	208.829	84.7088	261.929	OK	0.728581	0.051606	0.518539	1.657008	1.036418	1.432504
RSc2704		hypothetical protein	531.388	391.696	81.6276	309.549	OK	745.197	567.087	111.045	441.266	OK	569.085	325.372	98.8269	300.402	OK	655.462	452.022	113.207	347.724	OK	0.533836	-0.26764	0.206659	1.447773	-1.20384	1.154012
RSc2705		hypothetical protein	212.961	293.585	42.6037	155.883	OK	296.239	426.092	58.7865	220.615	OK	193.4	188.193	43.006	119.244	OK	259.284	333.62	57.9929	156.385	OK	0.537387	-0.64157	0.184428	1.451341	-1.56002	1.136366
RSc2708		putative transcription regulator protein	700.743	46.8622	19.6612	74.1643	OK	974.276	65.4126	26.3859	104.469	OK	1288.22	82.4693	45.9649	118.881	OK	1120.54	73.2846	40.9411	105.688	OK	0.481144	0.815432	0.645085	1.39585	1.759826	1.563832
RSc2709		D-threo-3-hydroxyaspartate dehydratase	122.706	8.15516	4.0998	12.1855	OK	156.399	10.4353	5.23863	15.602	OK	182.285	11.5994	6.90927	16.234	OK	141.427	9.19273	5.33643	12.9759	OK	0.355687	0.508265	0.17278	1.279595	1.422339	1.127229
RSc2710		lipoprotein	74.0293	17.076	6.4255	23.2194	OK	76.3597	17.8533	6.71756	24.0956	OK	64.4667	13.2803	6.05063	17.8638	OK	82.4993	18.2351	7.77938	24.0584	OK	0.064221	-0.36268	0.094748	1.04552	-1.28581	1.067879
RSc2711	***recG***	ATP-dependent DNA helicase protein	1486.67	51.6412	22.5851	80.5332	OK	1663.35	57.897	25.5559	90.3403	OK	1004.79	33.894	19.6015	48.1529	OK	1262.87	43.0798	24.6122	61.5462	OK	0.164966	-0.60749	-0.26151	1.12114	-1.52361	-1.19873
RSc2712	***queA***	S-adenosylmethionine:tRNA ribosyltransferase- isomerase	555.727	38.6075	5.67722	71.4975	OK	897.917	62.6367	9.99428	115.2	OK	317.888	21.1165	3.32535	38.9124	OK	395.271	26.8461	7.29242	46.3798	OK	0.698127	-0.87051	-0.52417	1.622397	-1.82831	-1.4381
RSc2713	***tgt***	queuine tRNA-ribosyltransferase	1055.68	68.673	16.9783	120.67	OK	1673.47	109.28	27.0348	191.399	OK	1397.15	87.0736	44.8098	129.568	OK	1055.27	67.1492	32.3253	102.13	OK	0.670214	0.342492	-0.03237	1.59131	1.267945	-1.02269
RSc2714	***yajC***	preprotein translocase subunit YajC	1700.65	646.104	179.542	753.492	OK	2280.67	884.588	242.577	1002.12	OK	3457.86	1112.64	432.592	1397.12	OK	1512.19	543.524	189.44	606.63	OK	0.453239	0.784149	-0.24942	1.369111	1.722076	-1.18873
RSc2715	***secD***	preprotein translocase subunit SecD	5785.44	216.746	93.2291	339.774	OK	9372.01	351.891	143.011	560.333	OK	9612.21	349.278	191.405	506.699	OK	6640.74	244.236	134.798	353.392	OK	0.699123	0.68837	0.17227	1.623518	1.611462	1.12683
RSc2716	***secF***	preprotein translocase subunit SecF	2818.18	224.898	99.559	348.523	OK	4381.02	351.269	153.26	546.179	OK	6159.9	467.895	251.569	683.702	OK	4257.33	331.702	177.875	484.65	OK	0.643305	1.056914	0.560617	1.561904	2.080476	1.4749
RSc2717		signal peptide protein	29399.8	4352.49	1435.92	7219.49	OK	35192.6	5255.98	1707.54	8773.64	OK	39856	5452.4	2282.35	8583.04	OK	29111.4	4171.02	1778.46	6555.35	OK	0.272119	0.32505	-0.06144	1.20758	1.252708	-1.04351
RSc2718		signal peptide protein	5928.43	935.743	353.979	1512.86	OK	7290.97	1161.62	428.662	1890	OK	6157.68	894.386	438.925	1345.76	OK	7436.72	1134.61	525.863	1634.77	OK	0.311954	-0.06521	0.278012	1.241388	-1.04624	1.212523
RSc2719		putative cytochrome B-561 transmembrane protein	2131.64	322.245	126.831	515.317	OK	2458.23	374.958	147.421	602.062	OK	2265.23	316.013	160.342	458.551	OK	2756.93	403.191	195.025	574.486	OK	0.218571	-0.02817	0.323305	1.163581	-1.01972	1.251194
RSc2720	***purB***	adenylosuccinate lyase	2779.65	147.699	66.1352	229.2	OK	4385.62	233.766	103.867	363.392	OK	3610.14	184.757	103.343	265.594	OK	3014.4	156.922	87.7143	226.152	OK	0.662405	0.322969	0.087388	1.582719	1.250902	1.062445
RSc2721		putative glutathione S-transferase protein	1276.75	183.943	72.8609	293.77	OK	893.317	129.804	52.3456	205.999	OK	682.458	91.0104	47.0488	133.635	OK	669.967	93.4622	46.3186	140.625	OK	-0.50292	-1.01516	-0.9768	-1.41708	-2.02112	-1.9681
RSc2722		putative signal peptide protein	2858.75	128.118	58.0374	198.197	OK	3549.35	159.489	71.7715	247.092	OK	2907.67	125.974	71.3588	180.503	OK	2940.06	129.227	72.4713	185.946	OK	0.315984	-0.02435	0.012434	1.24486	-1.01702	1.008656
RSc2723	***trmU***	tRNA (5-methylaminomethyl-2-thiouridylate)- methyltransferase	1267.63	85.8421	30.0306	141.416	OK	1168.4	79.4395	28.3526	130.538	OK	1044.81	67.7049	33.678	101.605	OK	975.486	64.5958	32.3652	96.6959	OK	-0.11183	-0.34243	-0.41025	-1.0806	-1.26789	-1.32891
RSc2724		hypothetical protein	685.532	127.949	8.58552	265.405	OK	574.998	108.509	6.41624	227.399	OK	510.176	86.5706	19.005	154.246	OK	465.985	83.7677	17.9765	149.025	OK	-0.23775	-0.56362	-0.6111	-1.17916	-1.47797	-1.52743
RSc2725		putative transcription regulator protein	235.271	48.5474	19.1573	71.3302	OK	212.519	44.3893	17.391	61.8195	OK	145.606	27.0957	13.2693	36.725	OK	134.175	26.6038	12.197	33.7763	OK	-0.12918	-0.84133	-0.86776	-1.09367	-1.7917	-1.82483
RSc2726		multidrug ABC transporter transmembrane protein	442.148	28.3329	2.86962	53.8055	OK	777.397	50.0047	0.33111	105.017	OK	675.789	41.506	0	97.1211	OK	602.88	37.7949	0.05444	81.8779	OK	0.819585	0.550842	0.415713	1.764899	1.46494	1.333958
RSc2727		multidrug resistance transmembrane protein	975.564	45.7256	12.5145	78.8838	OK	3376.39	158.693	53.91	263.863	OK	6933.5	313.877	157.674	470.125	OK	5303.53	243.734	124.314	363.106	OK	1.795164	2.779125	2.414234	3.47055	6.86436	5.330362
RSc2728		hypothetical protein	1130.72	73.7783	0.336298	155.033	OK	4551.22	298.109	0.392347	665.421	OK	9065.35	566.642	12.1092	1131.07	OK	7375.08	470.709	18.9655	921.512	OK	2.014571	2.941169	2.673567	4.040605	7.680334	6.380047
RSc2729		putative ferrichrome-iron receptor protein	4633.42	156.392	50.292	262.801	OK	17003.4	575.06	117.018	1034.5	OK	30334.9	994.747	319.986	1669.71	OK	27091.5	898.118	316.031	1480.6	OK	1.878546	2.669163	2.521738	3.677042	6.3606	5.742736
RSc2730	***pntAa***	NAD(P) transhydrogenase alpha subunit	5478.17	360.734	157.5	563.565	OK	3164.79	209.211	94.1723	323.869	OK	2256.33	142.295	79.6374	204.862	OK	2810.42	181.009	100.09	261.204	OK	-0.78598	-1.34205	-0.99487	-1.72426	-2.53511	-1.99291
RSc2731	***panD***	aspartate alpha-decarboxylase	1355.85	432.592	129.512	548.562	OK	1548.35	502.984	147.785	625.204	OK	1033.69	285.018	118.312	374.189	OK	1149.55	348.503	130.914	416.718	OK	0.217506	-0.60195	-0.31184	1.162721	-1.51777	-1.24129
RSc2732	***pntAb***	transmembrane NAD(P) transhydrogenase alpha subunit	1163.17	457.666	31.803	861.661	OK	942.997	379.007	31.6042	723.716	OK	921.429	305.766	69.4142	540.215	OK	910.212	338.544	70.3946	596.687	OK	-0.27207	-0.58187	-0.43495	-1.20754	-1.49679	-1.35187
RSc2733	***pntB***	transmembrane NADP transhydrogenase subunit beta oxidoreductase protein	4973.15	246.554	78.7781	415.01	OK	3604.55	179.227	58.4239	299.976	OK	2802.08	134.011	63.9906	204.167	OK	2573.8	125.069	59.4782	190.923	OK	-0.46012	-0.87955	-0.97918	-1.37565	-1.8398	-1.97134
RSc2734		response regulator transcription regulator protein	13466.2	989.992	386.592	1593.21	OK	10033.5	740.839	299.98	1180.5	OK	10937.1	767.45	408.487	1124.41	OK	9472.01	680.418	358.421	1001.39	OK	-0.41826	-0.36734	-0.541	-1.33631	-1.28998	-1.45498
RSc2735	***phcB***	regulatory protein	11025.3	571.688	230.357	910.558	OK	NA	NA	NA	0	OK	9331	466.267	254.353	678.259	OK	10356.8	526.214	283.358	768.262	OK	NA	-0.29407	-0.11958	NA	-1.2261	-1.08642
RSc2736	***phcS***	transmembrane sensor histidine kinase transcription regulator	4304.85	237.563	106.027	369.3	OK	3673.55	203.386	91.1984	315.608	OK	3492.32	185.45	103.83	267.033	OK	2217.51	119.857	67.0691	172.477	OK	-0.22409	-0.35728	-0.987	-1.16804	-1.28101	-1.98205
RSc2737	***phcR***	two component response regulator transcription regulator protein	3665.97	245.162	109.911	380.395	OK	2654.19	178.201	79.9717	276.495	OK	2659.81	170.275	95.0433	245.091	OK	1691.69	110.638	60.708	160.495	OK	-0.46023	-0.52587	-1.14789	-1.37576	-1.4398	-2.21589
RSc2738	***phcQ***	response regulator transcription regulator protein	10870.1	824.55	330.541	1317.07	OK	7268.89	553.856	231.678	870.401	OK	12657.7	915.484	482.363	1347.36	OK	7659.74	567.562	300	834.52	OK	-0.5741	0.150928	-0.53883	-1.48874	1.110283	-1.45279
RSc2739		hypothetical protein	2757.34	141.606	63.3094	219.4	OK	4534.66	233.59	103.787	363.211	OK	2666.48	131.997	74.6137	189.383	OK	2820.39	141.937	79.594	204.055	OK	0.722096	-0.10138	0.003368	1.649577	-1.0728	1.002337
RSc2740		hypothetical protein	468.514	115.481	41.716	163.667	OK	716.677	179.206	61.5083	243.445	OK	483.5	105.775	48.6625	145.086	OK	320.931	75.6725	32.8922	94.4713	OK	0.633963	-0.12666	-0.60981	1.551822	-1.09176	-1.52606
RSc2741	***proA***	gamma-glutamyl phosphate reductase	3248.16	186.938	83.6559	290.031	OK	5771.14	333.271	145.694	520.939	OK	2992.14	165.53	92.644	237.363	OK	3962.69	223.304	123.74	322.865	OK	0.834136	-0.17547	0.256449	1.782789	-1.12933	1.194535
RSc2742	***holA***	DNA polymerase III subunit delta	2231.02	157.026	69.6631	244.389	OK	2542.87	179.721	80.1873	278.533	OK	2276.34	153.133	85.1807	220.856	OK	1853.97	127.554	69.5485	184.165	OK	0.194756	-0.03622	-0.2999	1.14453	-1.02542	-1.23106
RSc2743	***rlpB***	putative lipoprotein B precursor transmembrane	1047.57	193.836	72.609	300.033	OK	1540.99	288.275	104.683	442.851	OK	1211.53	203.947	97.9134	307.941	OK	1161.34	207.01	94.1762	295.11	OK	0.572609	0.073358	0.094864	1.487211	1.052163	1.067965
RSc2744	***leuS***	leucyl-tRNA synthetase	7764.96	202.294	82.5672	321.051	OK	12805.4	334.122	126.333	541.883	OK	11927.5	302.938	162.953	442.84	OK	9925.3	254.22	137.845	370.48	OK	0.723921	0.582569	0.329624	1.651665	1.497514	1.256686
RSc2745	***dapB***	dihydrodipicolinate reductase oxidoreductase protein	2591.03	264.862	113.596	412.914	OK	3135.35	322.448	137.99	506.751	OK	2526.43	243.414	130.272	355.28	OK	1776.91	176.828	92.8107	260.784	OK	0.283826	-0.12183	-0.58289	1.217419	-1.08811	-1.49785
RSc2746		putative lipoprotein transmembrane	4803.79	621.216	251.944	991.092	OK	5489.62	715.359	284.145	1138.73	OK	3805.76	458.446	236.8	679.499	OK	3057.91	383.627	191.461	570.918	OK	0.203572	-0.43834	-0.69539	1.151546	-1.35505	-1.61932
RSc2747	***fur1***	ferric uptake transcriptional repressor transcription regulator	4582.72	1092.13	368.815	1538.32	OK	4951.42	1196.56	397.139	1809.79	OK	5551.92	1178.08	524.43	1726.24	OK	4015.27	916.181	382.954	1240.48	OK	0.131748	0.109293	-0.25344	1.09562	1.078699	-1.19205
RSc2748	***phcA***	transcription regulator protein	34292.8	2503.94	885.205	4113.34	OK	27479.4	2015.12	722.537	3302.96	OK	17563.8	1224.33	622.171	1824.34	OK	26545.7	1894.05	910.315	2878.09	OK	-0.31333	-1.03221	-0.40273	-1.24258	-2.04515	-1.322
RSc2749	***gapA***	glyceraldehyde-3-phosphate dehydrogenase	36393	2800.15	985.612	4611.08	OK	36223	2799.78	981.551	4618.24	OK	78117	5728.16	2049.1	9390.28	OK	43032.9	3233.86	1416.52	5047.04	OK	-0.00019	1.032568	0.207753	-1.00013	2.045662	1.154888
RSc2750	***tktA***	transketolase	9928.04	342.644	138.678	546.583	OK	15592.1	539.223	203.016	873.478	OK	18977.7	636.108	324.707	947.053	OK	10456.6	354.416	192.568	516.21	OK	0.654172	0.892561	0.048733	1.573712	1.856469	1.034356
RSc2751	***dgoAb***	putative galactonate dehydratase protein	706.828	46.1197	9.08003	83.1216	OK	554.758	36.3371	6.8941	65.6341	OK	594.65	37.1693	14.9844	59.3846	OK	500.435	31.9399	13.4915	50.3719	OK	-0.34394	-0.31127	-0.53002	-1.26922	-1.2408	-1.44395
RSc2752	***dgoAa***	2-dehydro-3-deoxy-6-phosphogalactonate aldolase	149.073	20.0006	0	50.3572	OK	135.24	18.2894	0	42.7334	OK	90.0311	11.2285	0	24.8387	OK	67.9939	8.84446	0	19.5939	OK	-0.12904	-0.83288	-1.1772	-1.09356	-1.78124	-2.26137
RSc2753		short chain dehydrogenase	251.497	25.4662	0	55.6851	OK	214.359	21.836	0	46.1621	OK	223.41	21.3309	2.78647	39.8068	OK	213.048	21.004	4.1399	37.8164	OK	-0.22188	-0.25564	-0.27792	-1.16625	-1.19386	-1.21245
RSc2754		hypothetical protein	243.384	21.5007	0	48.4995	OK	190.439	16.9116	0	38.7418	OK	178.951	14.9907	0.713037	29.2345	OK	108.79	9.37277	0	19.3233	OK	-0.34637	-0.52032	-1.19784	-1.27136	-1.43427	-2.29395
RSc2755		hypothetical protein	418.823	35.9632	0.858673	83.463	OK	297.159	25.6461	0	61.6212	OK	306.773	25.006	2.28237	47.6852	OK	246.591	20.6567	2.01045	39.5389	OK	-0.48778	-0.52425	-0.79991	-1.40229	-1.43818	-1.74099
RSc2756	***araH***	L-arabinose transporter permease protein	501.98	38.2125	18.0808	58.3314	OK	304.519	23.2856	11.4363	35.0755	OK	396.804	28.7977	16.6392	40.3375	OK	349.942	26.0206	14.9375	36.871	OK	-0.71461	-0.40809	-0.55439	-1.64104	-1.32693	-1.46855
RSc2757	***araG***	L-arabinose transporter ATP-binding protein	1239.23	58.0839	25.9952	90.1865	OK	839.037	39.4354	18.2386	60.6275	OK	1000.35	45.2853	25.8924	64.4002	OK	821.367	37.7475	21.6735	53.5634	OK	-0.55865	-0.3591	-0.62176	-1.47289	-1.28262	-1.53875
RSc2758	***araF***	L-arabinose ABC transporter periplasmic-binding protein	774.772	59.8271	27.0277	92.3339	OK	507.838	39.394	18.622	59.9395	OK	851.405	62.6487	35.0189	89.6204	OK	717.109	54.0816	29.9798	77.9474	OK	-0.60282	0.066485	-0.14566	-1.51869	1.047163	-1.10624
RSc2759	***dgoK***	2-dehydro-3-deoxygalactonokinase protein	638.883	49.3338	22.8895	75.1991	OK	563.038	43.676	20.4324	66.4701	OK	523.514	38.5216	21.8789	54.9204	OK	525.82	39.6553	22.2616	56.8978	OK	-0.17574	-0.35691	-0.31506	-1.12954	-1.28068	-1.24407
RSc2760		putative porin signal peptide protein	222.088	15.8918	7.944	23.7714	OK	241.959	17.387	8.6717	26.1364	OK	305.661	20.8942	12.2636	29.4327	OK	367.167	25.6785	14.8958	36.432	OK	0.129726	0.39482	0.692278	1.094086	1.314779	1.615833
RSc2761		transcription regulator protein	653.08	54.9787	25.149	84.2701	OK	1654.15	139.947	60.5105	219.325	OK	1288.22	103.024	56.1299	149.405	OK	1346.28	110.589	59.1454	160.988	OK	1.347936	0.906036	1.008263	2.545477	1.873889	2.011488
RSc2762		hypothetical protein	963.395	234.779	80.5768	328.959	OK	1000.96	247.427	83.4492	342.263	OK	1452.72	314.563	140.634	451.731	OK	1057.99	246.718	103.202	326.01	OK	0.0757	0.422046	0.07156	1.053872	1.339826	1.050852
RSc2763		hypothetical protein	1352.81	148.166	61.5673	233.647	OK	1712.11	188.737	78.5692	298.735	OK	1211.53	124.668	65.9034	182.802	OK	1355.35	144.375	74.459	214.144	OK	0.349163	-0.24912	-0.03739	1.273821	-1.18848	-1.02626
RSc2764		hypothetical protein	7685.86	1231.24	454.575	2004.08	OK	6476.78	1047.44	388.575	1686.42	OK	6229.93	917.465	448.551	1375.84	OK	5345.23	827.434	387.385	1175.9	OK	-0.23324	-0.42439	-0.5734	-1.17548	-1.342	-1.48802
RSc2765		hypothetical protein	6511.54	964.001	326.751	1601.39	OK	5365.42	801.319	268.499	1329.55	OK	5115.1	699.759	343.73	1056.2	OK	5423.2	777.025	362.034	1181.03	OK	-0.26666	-0.46218	-0.31107	-1.20302	-1.37762	-1.24063
RSc2766		guanyl-specific ribonuclease precursor signal peptide protein	2180.32	519.602	2.85978	1200.63	OK	1956.83	472.886	5.55816	1052.42	OK	1350.47	286.561	8.06338	571.651	OK	1571.11	358.488	17.7976	706.656	OK	-0.13591	-0.85856	-0.53548	-1.09879	-1.81323	-1.44943
RSc2767	***maeB2***	malic enzyme	12533.3	369.575	141.512	597.288	OK	24476.5	723.009	251.18	1194	OK	28323.1	812.962	383.708	1241.98	OK	21392.7	619.916	310.184	929.332	OK	0.968146	1.137321	0.746206	1.956326	2.199721	1.677375
RSc2768	***thiL***	thiamine monophosphate kinase	786.942	60.5489	27.4623	93.5394	OK	829.837	64.1404	29.0095	99.1479	OK	544.632	39.9368	22.7671	56.9813	OK	655.462	49.2569	27.2823	70.9086	OK	0.083133	-0.60038	-0.29777	1.059316	-1.51612	-1.22925
RSc2769	***pgpA***	phosphatidyl-glycerophosphatase hydrolase transmembrane	397.527	70.5197	28.8271	111.996	OK	393.759	70.5883	28.5818	110.524	OK	365.682	59.2053	30.2531	87.008	OK	414.31	70.8689	33.8835	99.9564	OK	0.001403	-0.2523	0.007126	1.000973	-1.1911	1.004952
RSc2770		hypothetical protein	657.137	124.817	47.9472	187.29	OK	757.157	145.439	54.6316	217.626	OK	491.281	84.722	41.8472	124.527	OK	533.073	97.4826	45.5246	135.306	OK	0.2206	-0.55901	-0.3566	1.165218	-1.47325	-1.2804
RSc2771		hypothetical protein	159.214	199.234	0.320403	392.173	OK	140.759	183.482	0.320403	366.541	OK	186.731	167.46	4.74116	325.56	OK	103.351	120.72	0.316078	240.219	OK	-0.11883	-0.25065	-0.7228	-1.08585	-1.18974	-1.65038
RSc2772		putative metal transport transmembrane protein	2453.11	208.144	76.8733	340.669	OK	2288.95	195.192	71.8874	319.699	OK	2702.04	217.738	114.669	320.799	OK	2705.25	223.958	121.199	326.924	OK	-0.09269	0.065011	0.105646	-1.06636	1.046093	1.075976
RSc2773	***pyrF***	orotidine 5'-phosphate decarboxylase	3061.57	279.669	121.968	436.397	OK	2999.19	275.454	119.888	430.9	OK	4770.54	412.688	221.811	603.074	OK	3149.48	280.47	148.9	412.113	OK	-0.02191	0.561331	0.004126	-1.0153	1.47563	1.002864

RSc2774	***corA***	magnesium/cobalt transporter CorA	1752.36	140.89	61.3247	219.752	OK	1652.31	133.479	58.1147	208.584	OK	1924	147.199	80.6185	212.894	OK	1475.02	115.775	62.0802	169.022	OK	-0.07796	0.063199	-0.28325	-1.05552	1.04478	-1.21693
RSc2775	***ripW, popW***	Type III effector protein, harpin with pectate lyase domain	2901.34	190.467	85.7553	295.129	OK	2314.71	152.546	67.7816	237.095	OK	5387.42	338.747	186.537	491.022	OK	4067.85	261.202	142.849	379.522	OK	-0.3203	0.830667	0.455625	-1.24859	1.778508	1.371377
RSc2776	***mtgA***	monofunctional biosynthetic peptidoglycan transglycosylase	366.09	43.4186	19.9141	66.8674	OK	495.878	59.2257	26.2171	92.1711	OK	356.79	39.6005	21.7179	57.4037	OK	368.98	42.5123	22.7092	61.0985	OK	0.44791	-0.13279	-0.03043	1.364063	-1.09642	-1.02132
RSc2777	***aroE***	shikimate 5-dehydrogenase	2054.57	174.328	35.1024	312.775	OK	2483.07	211.746	39.7874	383.539	OK	1645.01	132.559	37.9396	226.465	OK	1625.51	134.57	43.1132	225.499	OK	0.28053	-0.39517	-0.37345	1.214641	-1.3151	-1.29544
RSc2778		hypothetical protein	3114.3	266.351	51.8283	480.737	OK	3896.19	334.911	66.1882	605.493	OK	3872.45	314.445	143.075	485.742	OK	3338.05	278.523	125.242	432.046	OK	0.330449	0.239479	0.064468	1.257405	1.180566	1.045699
RSc2779		hypothetical protein	2441.95	81.9082	36.6857	127.008	OK	4834.58	162.483	70.8968	253.799	OK	2612.01	85.1262	48.6709	121.601	OK	2638.16	86.9143	49.5559	124.195	OK	0.988209	0.055595	0.085586	1.983721	1.039288	1.061118
RSc2780		hypothetical protein	211.947	36.9876	15.5242	55.0622	OK	257.599	45.4213	18.6775	67.433	OK	146.717	23.3964	11.9645	33.0221	OK	173.158	29.1483	14.2378	39.124	OK	0.296327	-0.66076	-0.34363	1.228014	-1.58091	-1.26895
RSc2781		hypothetical protein	450.26	61.5644	26.7574	94.9228	OK	596.158	82.1755	34.6931	127.276	OK	540.186	68.5825	36.3324	100.466	OK	411.59	54.5435	27.9017	75.8766	OK	0.416612	0.155744	-0.17469	1.334789	1.113996	-1.12872
RSc2782	***mpl***	UDP-N-acetylmuramate:L-alanyl-gamma-D-glutamyl- meso-diaminopimelate ligase transmembrane protein	2214.79	116.531	52.4129	180.75	OK	2695.59	142.27	64.0757	220.246	OK	2277.45	115.438	65.3193	165.705	OK	1995.4	102.864	57.3893	148.332	OK	0.287918	-0.0136	-0.17998	1.220877	-1.00947	-1.13286
RSc2783		hypothetical protein	589.192	73.9652	32.1528	115.063	OK	584.198	73.885	31.962	115.731	OK	625.772	73.2965	39.2484	107.298	OK	496.809	60.5335	31.2481	86.5912	OK	-0.00157	-0.0131	-0.28911	-1.00109	-1.00912	-1.22189
RSc2784		putative thioredoxin-related transmembrane protein	471.557	83.6522	33.8565	124.386	OK	563.038	100.935	39.8673	152.109	OK	597.984	96.816	48.284	145.094	OK	514.941	88.0821	41.9914	124.038	OK	0.270951	0.210842	0.074445	1.206603	1.157363	1.052956
RSc2785	***aroQ1***	3-dehydroquinate dehydratase	753.476	156.983	57.8378	230.257	OK	908.957	191.716	68.9132	280.028	OK	491.281	92.2327	44.5126	132.459	OK	622.825	124.659	55.9779	168.743	OK	0.288362	-0.76726	-0.33262	1.221253	-1.70203	-1.2593
RSc2786	***accB1***	acetyl-CoA carboxylase biotin carboxyl carrier protein subunit	1119.57	235.537	84.0791	349.664	OK	1747.07	372.136	129.352	546.445	OK	1063.7	201.485	94.3471	298.11	OK	1059.8	214.143	93.9399	297.16	OK	0.659876	-0.22528	-0.13738	1.579947	-1.16901	-1.09991
RSc2787	***accC1***	acetyl-CoA carboxylase biotin carboxylase subunit	3344.5	178.154	79.6674	276.487	OK	6152.94	328.785	141.297	515.537	OK	5372.97	275.64	152.828	396.574	OK	4603.64	240.244	132.902	346.852	OK	0.88402	0.62966	0.431376	1.84551	1.547201	1.348519
RSc2788	***prmA***	ribosomal protein L11 methyltransferase	1358.89	119.066	51.2623	186.454	OK	2437.99	214.725	93.263	336.149	OK	3138.86	260.879	141.512	378.427	OK	2075.18	177.343	94.6954	259.297	OK	0.850729	1.131619	0.574781	1.803412	2.191045	1.489451
RSc2789		hypothetical protein	3148.78	160.939	72.8247	248.727	OK	3713.11	190.357	85.3698	294.922	OK	2222.99	109.531	61.7892	157.176	OK	2660.83	133.274	74.7904	191.31	OK	0.242194	-0.55517	-0.27212	1.18279	-1.46935	-1.20758
RSc2790	***tpx***	thiol peroxidase-scavengase P20 oxidoreductase protein	7343.1	1394.75	491.684	2165.08	OK	10401.5	1997.97	673.832	3119.4	OK	19531.2	3368.18	1506.75	5120.44	OK	9736.73	1780.55	782.035	2450.85	OK	0.518528	1.271963	0.352316	1.432493	2.414899	1.276609
RSc2791		putative sugar kinase transferase protein	6467.93	538.163	225.954	849.047	OK	8031.57	671.559	273.979	1065.57	OK	9655.56	763.543	403.656	1123.55	OK	9318.8	756.68	394.154	1119.07	OK	0.319471	0.504666	0.49164	1.247873	1.418795	1.406042
RSc2792		putative outer membrane lipoprotein transmembrane	6858.36	1442.88	495.392	2350.22	OK	8557.81	1822.86	604.378	2967.4	OK	8750.8	1657.56	752.605	2346.19	OK	8470.23	1711.49	732.514	2271.66	OK	0.337252	0.20011	0.246302	1.263348	1.148786	1.186162
RSc2793		histone H1 protein	63905.5	9332.2	3043.72	15615.8	OK	46201.3	6805.43	2204.59	11291.4	OK	42489.1	5738.48	2384.28	9077.33	OK	34783	4917.1	2047.97	7708.39	OK	-0.45553	-0.70155	-0.92441	-1.37129	-1.62625	-1.89791
RSc2794		hypothetical protein	1270.67	1590.06	220.117	925.964	OK	1048.8	1367.12	184.232	762.239	OK	950.328	852.251	196.916	619.196	OK	1133.23	1323.69	233.581	740.886	OK	-0.21794	-0.89973	-0.26452	-1.16307	-1.86572	-1.20123
RSc2795		hypothetical protein	25.3525	10.156	2.80877	11.0344	OK	23.9199	9.79079	2.60814	10.4326	OK	16.6724	5.62046	1.78126	7.71879	OK	10.879	4.11793	0.989589	5.14586	OK	-0.05284	-0.85357	-1.30234	-1.0373	-1.80697	-2.46629
RSc2796		putative hemagglutinin-related transmembrane protein	347.836	38.0966	17.6888	58.3902	OK	184.919	20.3848	9.53135	31.0842	OK	214.518	22.0742	12.3675	31.7658	OK	568.429	60.5505	32.0199	87.7583	OK	-0.90217	-0.7873	0.668477	-1.86887	-1.72584	1.589394
RSc2797		putative hemagglutinin-related transmembrane protein	256.567	17.8821	8.95446	26.7448	OK	216.199	15.1307	7.53124	22.7123	OK	225.633	15.0355	8.89208	21.1187	OK	368.074	25.0793	14.5081	35.6853	OK	-0.24104	-0.25014	0.487981	-1.18184	-1.18933	1.402481
RSc2798		putative signal peptide protein	308.286	66.8174	26.0971	94.2864	OK	206.079	45.2383	17.3981	61.8755	OK	302.327	58.8453	28.6515	77.2345	OK	360.821	75.0553	34.0496	99.1038	OK	-0.56268	-0.1833	0.16773	-1.47701	-1.13548	1.12329
RSc2799		putative methyl-accepting chemotaxis transmembrane protein	420.852	19.5549	9.73503	29.3299	OK	965.076	44.9656	20.5101	69.3101	OK	474.608	21.3032	12.6817	29.96	OK	460.546	20.9831	12.3534	29.5906	OK	1.201292	0.12354	0.101698	2.299454	1.089405	1.073035
RSc2800		hypothetical protein	4916.36	265.841	116.95	413.823	OK	5005.7	271.538	119.377	422.962	OK	4207.01	219.008	122.368	314.465	OK	4557.41	241.401	133.355	349.025	OK	0.03059	-0.27958	-0.13913	1.02143	-1.21384	-1.10124
RSc2801		transcription regulator protein	1170.27	239.187	85.868	358.998	OK	1770.99	366.355	128.532	586.224	OK	1695.03	312.68	147.441	469.095	OK	1322.71	259.83	114.41	365.207	OK	0.615103	0.386548	0.119429	1.531668	1.307262	1.086305
RSc2802		hypothetical protein	549.642	52.4403	23.8522	81.0206	OK	707.477	67.8809	30.1615	105.565	OK	944.771	85.2108	46.5291	123.799	OK	557.55	51.831	28.3881	75.2208	OK	0.37233	0.70036	-0.01686	1.294441	1.624911	-1.01176
RSc2803		hypothetical protein	942.099	65.4495	29.4506	101.48	OK	1174.84	81.9539	36.074	127.737	OK	879.192	58.4027	32.7284	83.9504	OK	1363.51	92.6067	50.6386	134.181	OK	0.32443	-0.16435	0.500734	1.25217	-1.12066	1.414934
RSc2804	***nrdB***	ribonucleotide-diphosphate reductase subunit beta	18162.5	1123.61	423.344	1823.46	OK	33520.1	2081.28	740.745	3418.45	OK	34764.2	2063.36	953.502	3171.3	OK	29769.6	1802.25	856.224	2747.07	OK	0.88933	0.876854	0.681658	1.852315	1.836367	1.603982
RSc2805	***nrdA***	ribonucleotide-diphosphate reductase subunit alpha	42632.8	979.867	322.179	1641.18	OK	72128.7	1660.05	552.21	2776.87	OK	82631.9	1854.11	587.431	3114.46	OK	63364	1432.39	528.187	2326.86	OK	0.760569	0.920069	0.547767	1.694158	1.892206	1.461821
RSc2806	***ampD***	N-acetyl-anhydromuranmyl-L-alanine amidase	538.487	78.6359	0	176.756	OK	558.438	82.2576	0	198.116	OK	460.159	62.148	1.79111	122.427	OK	568.429	80.3561	3.89829	156.774	OK	0.064961	-0.33948	0.031219	1.046057	-1.2653	1.021876
RSc2807	***pehR***	response regulator transcription regulator protein	3159.94	131.207	35.4149	227.227	OK	3715.87	154.669	41.0166	267.529	OK	2510.87	100.936	44.2088	157.735	OK	3222.01	131.267	59.6003	202.834	OK	0.237339	-0.3784	0.00066	1.178817	-1.2999	1.000457
RSc2808	***pehS***	transmembrane sensor histidine kinase transcription regulator	1394.39	47.5886	1.06864	96.46	OK	1655.99	56.6308	1.38294	114.878	OK	1428.27	47.3493	12.8055	81.9492	OK	1557.51	52.2057	11.6583	92.7394	OK	0.250971	-0.00727	0.133591	1.190008	-1.00505	1.097021
RSc2809		hypothetical protein	318.427	197.632	0	730.504	OK	360.639	230.397	0	888.653	OK	234.525	115.669	0	350.669	OK	178.597	103.903	0	366.517	OK	0.221305	-0.77281	-0.92758	1.165788	-1.7086	-1.90208
RSc2810		hypothetical protein	1236.19	106.148	46.0411	166.299	OK	1582.39	136.567	58.8224	213.399	OK	1802.84	146.956	79.9718	212.956	OK	1322.71	110.802	59.2126	162.312	OK	0.363532	0.469307	0.061907	1.286572	1.384444	1.043844
RSc2811	***ffh***	putative signal recognition particle protein	3464.17	175.804	79.2974	272.41	OK	5188.78	264.117	115.931	411.338	OK	3703.5	181.214	101.58	260.608	OK	3423.27	170.255	94.8756	245.114	OK	0.587209	0.043727	-0.04627	1.502338	1.030773	-1.03259
RSc2812	***hprT***	hypoxanthine-guanine phosphoribosyltransferase	1249.37	207.897	79.1815	333.618	OK	2126.11	357.291	135.723	562.365	OK	2283.01	348.324	173.005	509.41	OK	1385.26	222.571	104.15	332.123	OK	0.781231	0.744561	0.098397	1.718596	1.675464	1.070583
RSc2813		hypothetical protein	471.557	70.2963	29.9237	109.937	OK	325.679	48.9804	21.2502	73.2914	OK	429.037	59.075	31.0171	84.3879	OK	362.634	52.3115	26.418	76.901	OK	-0.52124	-0.2509	-0.42632	-1.43519	-1.18995	-1.3438
RSc2814		hypothetical protein	1976.48	179.783	77.5773	281.736	OK	1478.43	135.205	57.7388	212.449	OK	1879.54	161.933	87.7758	235.724	OK	1938.28	171.887	91.4271	252.228	OK	-0.41111	-0.15086	-0.0648	-1.32971	-1.11023	-1.04594
RSc2815		putative signal peptide protein	937.028	104.766	44.8538	164.668	OK	1542.83	173.643	71.9057	275.319	OK	1356.02	142.302	75.4115	208.845	OK	949.195	103.187	53.3734	151.598	OK	0.728954	0.441785	-0.02191	1.657437	1.358284	-1.0153
RSc2816	***proS***	prolyl-tRNA synthetase	4383.95	180.633	80.1559	281.012	OK	6324.98	261.244	111.628	410.188	OK	5186.23	206.914	115.241	298.506	OK	4356.15	176.117	98.4832	253.721	OK	0.532336	0.19597	-0.03653	1.44627	1.145494	-1.02564
RSc2817		dinucleoside polyphosphate hydrolase	4436.69	514.818	177.215	849.698	OK	4875.98	569.69	183.323	955.955	OK	3966.92	431.252	198.392	663.05	OK	4490.32	506.336	227.899	784.797	OK	0.146115	-0.25553	-0.02397	1.106585	-1.19378	-1.01675
RSc2818		putative lipoprotein	2035.3	273.07	4.83001	578.797	OK	2667.99	360.81	15.2818	751.917	OK	2524.2	314.813	88.799	540.651	OK	2725.2	354.486	95.0864	613.834	OK	0.401968	0.205224	0.376458	1.32131	1.152866	1.298151
RSc2819	***proB***	gamma-glutamyl kinase	1126.67	75.3457	33.3168	117.238	OK	1751.67	117.607	51.807	183.414	OK	1501.63	96.1312	53.1971	138.866	OK	1450.54	94.8667	51.7853	137.793	OK	0.642377	0.35148	0.332377	1.560899	1.275868	1.259086
RSc2820	***obgE***	GTPase ObgE	1513.04	103.77	45.5077	161.909	OK	2143.59	147.613	65.5124	229.469	OK	1705.03	111.858	62.1467	160.531	OK	1708.01	114.535	62.666	166.013	OK	0.50843	0.108279	0.142399	1.422502	1.077942	1.103739
RSc2821	***rpmA***	50S ribosomal protein L27	3311.04	2054.99	445.378	1834.32	OK	6835.57	4366.97	884.095	4199.39	OK	5475.22	2700.41	856.825	2813.4	OK	4781.33	2781.65	750.939	2451.93	OK	1.087501	0.394047	0.43681	2.125057	1.314075	1.353608
RSc2822	***rplU***	50S ribosomal protein L21	4199.39	1778.59	470.829	1946.68	OK	8311.25	3600.04	882.624	4316.1	OK	5780.88	2046.29	752.401	2497.08	OK	5876.49	2348.84	765.026	2539.23	OK	1.017279	0.202277	0.401214	2.024098	1.150512	1.320619
RSc2823	***ispB***	octaprenyl-diphosphate synthase	1991.69	158.942	69.9173	247.236	OK	2529.07	202.78	89.5898	315.824	OK	1369.36	104.014	56.9752	150.338	OK	1662.68	129.545	69.6291	189.284	OK	0.351415	-0.61172	-0.29505	1.275811	-1.52808	-1.22693
RSc2824		hypothetical protein	1760.48	101.591	44.7985	158.181	OK	915.397	53.0048	23.9866	81.8366	OK	918.095	50.9236	28.9819	72.3803	OK	1127.79	63.7225	35.5439	91.7181	OK	-0.93858	-0.99637	-0.6729	-1.91664	-1.99497	-1.59427
RSc2825	***pilB***	type IV pilus assembly protein	9694.8	398.692	162.046	635.922	OK	15225	627.641	240.199	1015.43	OK	7442.57	296.375	163.425	429.463	OK	9781.16	394.694	214.934	574.726	OK	0.654665	-0.42785	-0.01454	1.57425	-1.34523	-1.01013
RSc2826	***pilC***	fimbrial assembly transmembrane protein	7466.82	435.569	156.424	713.701	OK	13086	765.994	255.111	1277.08	OK	5937.61	332.826	171.877	493.85	OK	9364.13	534.799	266.772	802.877	OK	0.814432	-0.38813	0.296095	1.758605	-1.3087	1.227817
RSc2827	***pilD***	type 4 prepilin peptidase bifunctionnal: leader peptidase and N-methyltransferase transmembrane protein	1962.28	174.788	0.623518	432.098	OK	3173.07	284.13	0.089544	759.245	OK	1875.09	158.329	7.26169	309.128	OK	2523.94	219.232	6.34087	439.17	OK	0.700945	-0.14268	0.326852	1.625569	-1.10395	1.254274
RSc2828		hypothetical protein	602.375	85.6356	36.1274	132.467	OK	769.117	110.264	45.133	171.736	OK	499.061	65.7254	34.7099	95.5557	OK	656.368	90.3745	44.937	127.373	OK	0.364679	-0.38176	0.077705	1.287595	-1.30293	1.055338
RSc2829		hypothetical protein	3886.03	419.199	176.827	661.574	OK	3462.87	375.942	158.499	593.015	OK	4299.26	436.043	229.266	638.329	OK	3598.24	377.595	194.529	558.81	OK	-0.15713	0.056835	-0.1508	-1.11506	1.040181	-1.11018
RSc2830		hypothetical protein	757.533	764.517	71.2585	877.762	OK	602.598	631.222	40.2506	796.366	OK	842.513	629.764	97.6504	834.146	OK	713.483	672.411	97.6504	630.61	OK	-0.2764	-0.27974	-0.18521	-1.21117	-1.21397	-1.13698
RSc2831	***mutT***	7,8-dihydro-8-oxoguanine-triphosphatase	479.669	102.926	10.4547	195.294	OK	565.798	122.95	11.9881	231.676	OK	686.904	132.482	29.7031	235.012	OK	365.354	75.2592	13.3389	137.102	OK	0.256464	0.364189	-0.45167	1.194548	1.287158	-1.36762
RSc2832		hypothetical protein	921.817	82.1099	6.23518	161.313	OK	1483.95	132.88	26.2364	240.426	OK	1677.25	141.624	52.9428	229.588	OK	1073.4	93.2367	34.9182	151.573	OK	0.694496	0.786438	0.183342	1.618319	1.72481	1.135511
RSc2833	***argJ***	bifunctional ornithine acetyltransferase/N- acetylglutamate synthase protein	2908.44	175.38	78.9567	271.845	OK	4419.66	267.458	118.749	414.784	OK	4412.63	255.459	141.887	369.258	OK	3115.03	183.854	102.167	265.077	OK	0.608828	0.542608	0.068076	1.52502	1.456603	1.048318
RSc2834	***secA***	preprotein translocase subunit SecA	14328.2	349.13	130.111	567.578	OK	22746.9	555.062	191.297	919.522	OK	18664.2	443.708	226.109	661.114	OK	12424.8	297.715	158.025	436.409	OK	0.668885	0.345846	-0.22983	1.589843	1.270896	-1.1727
RSc2835		putative transmembrane protein	1045.54	83.7477	37.2006	130.402	OK	1721.31	138.532	60.4009	216.603	OK	815.837	62.1925	34.6596	89.5098	OK	830.433	64.9406	35.6461	94.1136	OK	0.726098	-0.42931	-0.36693	1.654159	-1.34659	-1.2896
RSc2836		hypothetical protein	1879.13	347.704	128.549	537.054	OK	1833.55	343.004	125.14	524.426	OK	2447.51	412.011	199.439	588.477	OK	2314.51	412.566	188.975	599.564	OK	-0.01963	0.244823	0.246765	-1.0137	1.184948	1.186544
RSc2837	***lpxC***	UDP-3-O-[3-hydroxymyristoyl] N-acetylglucosamine	7432.34	633.13	261.182	1002.56	OK	9920.32	849.337	337.439	1358.94	OK	9910.09	801.631	422.229	1180.66	OK	8503.78	706.761	367.764	1040.17	OK	0.423835	0.340437	0.158721	1.341489	1.26614	1.116297
RSc2838		type 2 peroxiredoxin protein	1811.18	344.018	125.717	527.548	OK	1943.95	373.405	135.229	565.212	OK	2225.21	383.741	184.888	544.013	OK	1862.13	340.526	154.327	491.641	OK	0.118257	0.157649	-0.01472	1.085423	1.115468	-1.01025
RSc2839	***ftsZ***	cell division protein FtsZ	39533.7	2445.72	864.301	4024.98	OK	37723.5	2342.28	827.577	3851	OK	57118.6	3390.16	1354.44	5425.01	OK	39364.9	2383.15	1071.64	3690.85	OK	-0.06235	0.471094	-0.03739	-1.04416	1.38616	-1.02626
RSc2840	***ftsA***	cell division protein FtsA	4913.31	295.444	115.222	474.99	OK	6364.54	384.07	145.411	622.491	OK	8974.21	518.124	264.895	770.675	OK	6499.31	382.533	197.036	567.868	OK	0.378485	0.810413	0.3727	1.299976	1.753713	1.294773
RSc2841	***ftsQ***	putative cell division transmembrane protein	1178.38	102.83	0.523581	253.588	OK	1394.71	122.337	0.263144	318.668	OK	1723.93	142.72	2.98036	313.766	OK	1600.12	136.196	3.57486	276.115	OK	0.2506	0.472926	0.405423	1.189701	1.387922	1.324477
RSc2842	***ddl***	D-alanine--D-alanine ligase	2256.37	174.235	21.0144	327.242	OK	3038.75	235.722	27.2864	444.535	OK	3392.28	249.613	78.0112	420.992	OK	2734.26	206.207	62.0645	349.87	OK	0.436052	0.518659	0.243059	1.352897	1.432623	1.183499
RSc2843	***murC***	UDP-N-acetylmuramate--L-alanine ligase	4707.45	235.01	54.9652	415.559	OK	6046.22	302.736	61.3362	544.866	OK	6060.98	291.847	120.283	464.135	OK	5597.26	273.875	116.894	431.319	OK	0.365338	0.31249	0.220795	1.288183	1.241849	1.165376
RSc2844	***murG***	N-acetylglucosaminyl transferase	2253.33	155.038	4.80955	304.468	OK	2598.99	179.549	1.17306	364.998	OK	2164.08	142.415	30.0878	254.589	OK	1985.42	133.561	27.7155	239.372	OK	0.211756	-0.12252	-0.21512	1.158097	-1.08864	-1.1608
RSc2845	***ftsW***	cell division FtsW transmembrane protein	1862.9	111.085	0.311116	229.759	OK	2437.99	145.891	1.45187	302.768	OK	2346.37	134.368	31.7146	236.888	OK	2333.55	136.211	32.7377	238.781	OK	0.393227	0.274526	0.294179	1.313328	1.209596	1.226187
RSc2846	***murD***	UDP-N-acetylmuramoyl-L-alanyl-D-glutamatesynthetase	4265.3	185.726	19.551	357.492	OK	5628.54	245.717	17.5932	473.968	OK	4068.07	171.341	57.9971	285.689	OK	4056.07	173.246	57.5341	288.866	OK	0.403822	-0.11631	-0.10035	1.323008	-1.08396	-1.07204
RSc2847	***mraY***	HOSPHO-N-acetylmuramoyl-pentapeptide-transferase transmembrane protein	2490.63	159.125	71.4466	246.76	OK	3810.63	244.379	109.041	379.691	OK	3084.4	188.892	105.126	272.534	OK	3188.46	199.297	109.904	288.173	OK	0.61896	0.247401	0.324759	1.535767	1.187067	1.252456
RSc2848	***murF***	UDP-N-acetylmuramoylalanyl-D-glutamyl-2, 6-diaminopimelate--D-alanyl-D-alanyl ligase protein	4659.79	233.173	1.3778	481.83	OK	5151.98	258.565	6.44454	528.408	OK	3703.5	178.737	34.1115	323.84	OK	3810.38	186.874	33.2785	340.589	OK	0.149126	-0.38356	-0.31933	1.108898	-1.30456	-1.24776
RSc2849	***murE***	UDP-N-acetylmuramoylalanyl-D-glutamate--2, 6-diaminopimelate ligase	4188.23	195.029	0.666936	402.954	OK	4391.14	205.041	2.83448	439.094	OK	3552.34	159.788	34.2947	285.09	OK	3875.65	176.961	30.2649	323.991	OK	0.072224	-0.28753	-0.14026	1.051336	-1.22055	-1.1021
RSc2850	***ftsI***	penicillin-binding 3 precursor PBP-3 transmembrane protein	5455.86	216.089	4.97055	435.931	OK	6071.98	241.055	5.29471	480.81	OK	4887.24	187.564	55.679	320.11	OK	5895.53	229.166	70.8157	387.763	OK	0.157737	-0.20424	0.084767	1.115536	-1.15208	1.060517
RSc2851	***ftsL***	cell division FtsL transmembrane protein	894.436	345.768	0	1427.63	OK	1039.6	410.402	0	1698.3	OK	665.785	217.531	0	712.594	OK	800.515	292.652	0	925.648	OK	0.247233	-0.66858	-0.24062	1.186929	-1.58951	-1.1815

RSc2852	***mraW***	S-adenosyl-methyltransferase MraW	8245.65	665.444	272.631	1057.52	OK	9481.49	768.837	308.387	1225.03	OK	7695.99	590.931	315.474	860.655	OK	8658.8	682.164	357.895	1003.47	OK	0.208361	-0.17133	0.035801	1.155374	-1.12609	1.025126
RSc2853		cell division protein MraZ	3151.82	759.52	260.456	1057.89	OK	2967.91	725.339	245.144	996.489	OK	4818.33	1032.77	459.975	1504.32	OK	3587.36	827.453	344.463	1117.06	OK	-0.06643	0.443359	0.123589	-1.04712	1.359767	1.089442
RSc2854		hypothetical protein	1700.65	231.059	92.6524	368.179	OK	1427.83	195.56	77.5647	312.892	OK	1418.27	178.991	92.0009	265.115	OK	1504.93	198.192	97.5949	290.887	OK	-0.24065	-0.36837	-0.22136	-1.18152	-1.2909	-1.16583
RSc2855		putative outer membrane porin signal peptide protei	68001.5	4344.58	1542.98	7134.47	OK	19388.9	1243.43	466.329	2010.58	OK	32242.2	1974.55	924.52	3022.15	OK	17530.7	1095.76	559.078	1633.03	OK	-1.80489	-1.13769	-1.98728	-3.49403	-2.20029	-3.9649
RSc2856		metabolite transport protein	3273.51	182.052	81.1355	281.706	OK	1956.83	109.185	48.5935	169.736	OK	1956.23	104.667	58.863	150.262	OK	2565.64	139.744	77.9706	201.472	OK	-0.73758	-0.79854	-0.38156	-1.66737	-1.73934	-1.30275
RSc2857	***fadD1***	acyl-CoA synthetase	9723.19	404.51	164.166	644.801	OK	6281.74	261.979	112.08	411.94	OK	6728.99	271.017	150.841	391.221	OK	9883.6	403.441	218.98	587.389	OK	-0.62672	-0.57779	-0.00382	-1.54406	-1.49256	-1.00265
RSc2858		putative zinc protease protein	1384.25	89.7747	39.3655	140.177	OK	1351.48	87.9858	38.306	137.612	OK	600.207	37.2966	21.6172	52.8055	OK	1124.17	71.3192	39.3291	103.081	OK	-0.02904	-1.26726	-0.33202	-1.02033	-2.40705	-1.25877
RSc2859		oxidoreductase protein	4120.29	137.132	60.5314	213.656	OK	4032.35	134.469	59.6715	209.234	OK	2160.75	69.8816	39.9913	99.6449	OK	4019.8	131.41	74.2565	188.504	OK	-0.02829	-0.97258	-0.06149	-1.0198	-1.96235	-1.04354
RSc2860	***fruR***	putative transcription regulation repressor transcription regulator protein	912.69	70.9876	31.8752	109.742	OK	1172.08	91.5821	40.0717	142.463	OK	459.047	34.0143	19.4445	48.3225	OK	747.027	56.7419	31.3166	81.8852	OK	0.367499	-1.06143	-0.32315	1.290114	-2.08699	-1.25106
RSc2861	***fruB***	multiphosphoryl transfer protei	4130.43	112.096	43.0356	180.755	OK	3296.35	89.6029	35.8969	142.749	OK	1343.8	35.5367	19.5231	51.6022	OK	2360.75	62.9803	34.5602	91.4504	OK	-0.32312	-1.65735	-0.83176	-1.25103	-3.15437	-1.77986
RSc2862	***fruK***	1-phosphofructokinase protein	825.477	67.3779	0	175.489	OK	586.038	48.0654	0	128.112	OK	213.407	16.5665	0.155257	36.4855	OK	416.123	33.1533	0.39836	71.7844	OK	-0.48728	-2.02401	-1.02312	-1.4018	-4.06712	-2.03231
RSc2863	***fruA***	PTS system, fructose-specific IIBC component (EIIBC-fru) (fructose-permease IIBC component) transmembrane protei	1648.93	68.0719	30.1062	106.063	OK	997.276	41.2705	18.7743	63.8026	OK	818.06	32.6995	19.0373	46.3021	OK	1036.23	41.9744	23.9074	60.0267	OK	-0.72195	-1.05779	-0.69755	-1.64941	-2.08174	-1.62175
RSc2864		Leu/Ile/Val-binding signal peptide protei	12145.9	785.343	313.44	1253.93	OK	18608.8	1207.83	454.589	1960.11	OK	12861.1	796.844	422.227	1168.64	OK	9600.74	607.27	323.089	883.572	OK	0.621023	0.020974	-0.37098	1.537965	1.014645	-1.29324
RSc2865		hypothetical protein	1.0141	62.4002	0	5.52008	OK	0.919997	62.9632	0	3.06671	OK	1.11149	21.4819	0	5.44557	OK	1.81317	76.2849	0	5.44557	OK	0.012958	-1.53843	0.289847	1.009022	-2.90478	1.222511
RSc2866	***dppF1***	oligopeptide ATP-binding ABC transporter protei	403.612	28.785	3.32587	54.3024	OK	337.639	24.1816	2.11646	46.2599	OK	352.344	24.0078	7.87434	40.0875	OK	379.859	26.4787	8.35157	44.6213	OK	-0.25141	-0.26181	-0.12048	-1.19037	-1.19899	-1.0871
RSc2867	***dppD1***	oligopeptide ATP-binding ABC transporter protei	517.191	38.8198	6.62951	70.9674	OK	455.398	34.3336	6.31382	62.3174	OK	359.013	25.7027	8.47088	42.915	OK	417.03	30.5795	10.3395	50.763	OK	-0.17717	-0.59487	-0.34423	-1.13067	-1.51034	-1.26947
RSc2868	***dppC1***	peptide ABC transporter permease	428.964	36.6873	1.3684	76.5451	OK	404.799	34.7959	2.4928	70.744	OK	411.253	33.394	9.58167	57.3276	OK	484.117	40.3942	11.7649	69.0874	OK	-0.07636	-0.13569	0.138867	-1.05436	-1.09862	1.10104
RSc2869	***dppB1***	transmembrane dipeptide transport system permease ABC transporter protein	416.795	32.8944	15.8698	49.9141	OK	375.359	29.7626	14.3552	45.107	OK	337.894	25.3926	14.7461	35.9882	OK	554.831	42.7567	23.9705	61.193	OK	-0.14434	-0.37343	0.378309	-1.10523	-1.29543	1.299817
RSc2870	***dppA1***	periplasmic dipeptide transport protein	1505.94	70.8944	31.4428	110.366	OK	1418.63	66.9703	29.7171	104.136	OK	1284.89	58.4162	33.0946	83.7953	OK	2186.69	100.931	57.0954	144.628	OK	-0.08215	-0.2793	0.509626	-1.05859	-1.21361	1.423681
RSc2871	***hipO***	putative hippurate hydrolase protein	5174.95	323.878	142.05	502.933	OK	5254.1	330.049	144.213	514.938	OK	6557.82	393.639	216.146	571.518	OK	6910	423.17	229.535	614.299	OK	0.02723	0.281423	0.385787	1.019053	1.215393	1.306572
RSc2872	***paaF***	enoyl-CoA hydratase	6586.58	689.721	279.817	1099.46	OK	5268.82	555.157	228.263	880.561	OK	8136.14	802.141	415.94	1185.68	OK	6589.97	671.578	342.76	999.989	OK	-0.31312	0.217843	-0.03846	-1.24239	1.162993	-1.02702
RSc2873	***paaG1***	enoyl-CoA hydratase	14472.2	1486.47	489.17	2484.13	OK	8881.65	917.809	323.556	1511.51	OK	12856.7	1244.36	614.058	1874.62	OK	11187.3	1118.55	548.111	1681.21	OK	-0.69562	-0.25649	-0.41026	-1.61959	-1.19457	-1.32893
RSc2874	***paaI***	phenylacetic acid degradation protein	3082.86	648.579	1.26229	1780.88	OK	1789.39	381.15	0.213005	1026.69	OK	2306.35	436.866	7.76616	999.183	OK	2047.98	413.814	6.0618	923.616	OK	-0.76692	-0.57009	-0.6483	-1.70164	-1.48462	-1.56732
RSc2875	***paaK***	phenylacetyl-CoA-ligase protei	4516.8	253.164	112.886	393.283	OK	2837.27	159.554	71.966	247.042	OK	2089.61	112.658	63.4831	161.47	OK	2255.59	123.811	69.2499	178.092	OK	-0.66603	-1.16812	-1.03193	-1.5867	-2.24719	-2.04476
RSc2876		putative membrane-bound lytic murein transglycosylase A transmembrane protein	3142.7	206.311	93.08	319.582	OK	4142.74	273.019	121.703	424.044	OK	3169.98	199.321	111	287.31	OK	4233.76	271.855	148.074	392.195	OK	0.404181	-0.04973	0.398017	1.323337	-1.03507	1.317695
RSc2877		hypothetical protein	394.485	205.905	53.2107	206.449	OK	490.358	262.676	65.3145	241.161	OK	632.441	268.559	94.8468	287.92	OK	627.357	307.758	94.1709	283.639	OK	0.351306	0.38326	0.579817	1.275715	1.304286	1.49466
RSc2878	***apaG***	ApaG	1372.08	413.522	127.085	536.675	OK	1837.23	563.296	170.534	714.593	OK	2375.26	622.52	263.614	837.092	OK	1951.88	559.793	215.669	690.207	OK	0.445929	0.590156	0.436929	1.362191	1.50541	1.35372
RSc2879	***rpe***	ribulose-phosphate 3-epimerase	763.617	86.7323	29.5944	143.732	OK	1138.96	130.236	44.2591	216.26	OK	627.995	66.8969	31.9837	101.616	OK	912.025	100.697	48.4548	152.598	OK	0.586487	-0.37463	0.215379	1.501586	-1.29651	1.161009
RSc2880	***gph***	phosphoglycolate phosphatase	434.035	48.2763	3.55926	98.3245	OK	623.758	69.8366	2.35118	143.758	OK	372.351	38.8822	11.3822	66.4134	OK	411.59	44.5153	10.0584	79.2773	OK	0.532668	-0.31221	-0.11701	1.446602	-1.2416	-1.08449
RSc2881	***trpE***	anthranilate synthase component I	5082.67	239.275	104.557	373.442	OK	7210.93	340.411	144.46	535.791	OK	7688.21	349.537	192.131	506.799	OK	5433.17	250.78	139.105	361.839	OK	0.508608	0.546776	0.067753	1.422677	1.460817	1.048083
RSc2882	***trpG***	anthranilate synthase component II	2720.83	429.456	167.104	691.124	OK	4099.5	653.143	247.435	1049.62	OK	8518.5	1237.29	604.665	1866.6	OK	3761.42	573.873	273.632	822.121	OK	0.604889	1.526601	0.418221	1.520861	2.881063	1.336279
RSc2883		putative signal peptide protein	294.089	65.725	0	200.021	OK	476.558	107.911	0	326.752	OK	771.377	154.399	0	412.331	OK	333.624	71.5042	0	187.107	OK	0.715328	1.232149	0.121586	1.641856	2.349167	1.08793
RSc2884	***trpD***	anthranilate phosphoribosyltransferase	3913.41	287.701	127.375	446.96	OK	4208.98	310.777	136.93	484.434	OK	8779.7	616.066	331.797	899.725	OK	3669.86	263.623	142.303	383.271	OK	0.11131	1.098515	-0.12609	1.080208	2.141341	-1.09133
RSc2885	***trpC1***	indole-3-glycerol-phosphate synthase	4757.14	477.199	200.412	753.908	OK	3119.71	314.806	134.97	493.741	OK	5192.9	491.379	259.105	723.186	OK	2436	237.945	125.483	349.503	OK	-0.60013	0.042245	-1.00396	-1.51585	1.029715	-2.0055
RSc2886		hypothetical protein	1915.64	241.897	72.1636	411.515	OK	1337.68	170.182	52.5175	287.025	OK	1940.67	228.575	97.7555	358.783	OK	1057.08	129.545	53.6993	205.154	OK	-0.50731	-0.08173	-0.90094	-1.4214	-1.05828	-1.86728
RSc2887	***ung***	uracil-DNA glycosylase	1717.89	173.134	23.5832	324.32	OK	1081	109.597	8.82054	210.375	OK	1944	184.777	70.2418	299.217	OK	1084.28	106.401	41.902	170.65	OK	-0.65968	0.093896	-0.70238	-1.57973	1.067248	-1.62718
RSc2888		hypothetical protein	2798.92	606.632	214.81	881.129	OK	470.118	103.2	38.5845	141.851	OK	512.399	99.7341	47.7525	141.043	OK	458.732	95.4221	42.908	126.51	OK	-2.55538	-2.60466	-2.66843	-5.87822	-6.08249	-6.35735
RSc2889		hypothetical protein	2236.09	69.8719	30.9693	108.812	OK	1777.43	55.6426	24.2771	87.0268	OK	1516.08	46.0767	26.35	65.7894	OK	1728.86	53.0764	30.3225	75.6778	OK	-0.32852	-0.60067	-0.39664	-1.25573	-1.51643	-1.31644
RSc2890		hypothetical protein	5120.19	193.512	84.2459	302.264	OK	6230.22	235.99	100.26	369.84	OK	6175.46	226.339	125.94	326.714	OK	6667.03	247.351	136.903	357.459	OK	0.286303	0.226062	0.354137	1.219511	1.169638	1.27822
RSc2891		putative oxidoreductase protein	1621.55	122.139	53.5725	190.607	OK	1524.43	115.336	50.343	180.411	OK	1157.07	83.1185	45.7902	120.192	OK	1672.65	123.077	66.5301	179.538	OK	-0.08268	-0.55528	0.011037	-1.05898	-1.46946	1.00768
RSc2892	***dsbC***	thiol:disulfide interchange protei	3930.65	432.71	181.392	682.461	OK	5744.46	636.516	259.587	1011.97	OK	4153.66	429.504	226.23	633.02	OK	5728.72	613.322	310.259	912.491	OK	0.556796	-0.01073	0.503244	1.470999	-1.00746	1.417397
RSc2893		hypothetical protein	2635.65	150.077	67.6883	232.501	OK	2932.95	167.569	75.6077	259.497	OK	1979.57	108.381	60.5835	155.316	OK	2670.8	148.919	83.0382	214.081	OK	0.159052	-0.46959	-0.01118	1.116554	-1.38472	-1.00778
RSc2894		hypothetical protein	46.6486	13.1464	4.45853	16.0177	OK	294.399	84.3215	29.2281	105.684	OK	166.724	41.1501	18.5708	51.1511	OK	144.147	38.725	15.9643	44.1463	OK	2.681233	1.646228	1.558597	6.414037	3.130142	2.945673
RSc2895		putative signal peptide protein	50.705	20.3119	6.01878	21.0657	OK	206.079	84.3515	24.8776	88.4761	OK	118.93	40.0926	15.8334	46.1148	OK	94.2849	35.6887	12.2709	36.2189	OK	2.054089	0.981011	0.813142	4.152812	1.973848	1.757034
RSc2896		hypothetical protein	252.511	46.3244	19.0818	68.2927	OK	812.357	150.657	56.9942	228.73	OK	631.329	105.439	52.0142	157.033	OK	578.402	102.241	47.8035	143.287	OK	1.701424	1.186564	1.14213	3.252217	2.276101	2.207066
RSc2897		Flagellar chaperone FliT-related protei	605.418	187.664	60.5614	233.519	OK	1242.92	392.102	117.458	493.566	OK	1278.22	343.501	143.075	455.396	OK	857.63	252.791	97.2774	303.023	OK	1.063077	0.872162	0.429793	2.089383	1.830404	1.34704
RSc2898		translation-associated GTPase	2709.68	187.036	83.2802	290.775	OK	4212.66	291.968	129.155	454.512	OK	2562	169.126	94.108	244.089	OK	2493.11	168.248	92.5995	242.638	OK	0.642494	-0.14522	-0.15273	1.561026	-1.1059	-1.11167
RSc2899		hypothetical protein	131.833	97.1764	21.202	72.3517	OK	177.559	135.121	28.6227	100.179	OK	95.5886	54.6523	16.7326	48.6291	OK	76.1532	52.5171	13.0723	40.0014	OK	0.475574	-0.83032	-0.88782	1.390471	-1.77808	-1.85038
RSc2900	***hemA***	glutamyl-tRNA reductase	3088.95	173.587	78.4333	267.55	OK	3809.71	214.802	96.0599	333.231	OK	696.907	37.6685	21.7115	53.4287	OK	3078.77	169.436	94.2288	243.829	OK	0.307349	-2.20423	-0.03492	1.237431	-4.60828	-1.0245
RSc2901	***prfA***	peptide chain release factor 1	827.506	57.863	26.3432	89.3764	OK	1422.31	99.8665	43.707	155.918	OK	430.148	28.7541	16.6602	40.7705	OK	858.537	58.6866	32.4991	84.8261	OK	0.78736	-1.00887	0.02039	1.725913	-2.01234	1.014234
RSc2902		lipoprotein	5633.33	1969.91	560.195	2593.03	OK	2742.51	977.808	278.698	1152.5	OK	2055.15	614.649	246.945	789.081	OK	1643.64	544.867	197.592	629.239	OK	-1.01051	-1.6803	-1.85415	-2.01462	-3.20493	-3.6154
RSc2903		methyltransferase protein	944.127	80.1084	35.5219	124.676	OK	1063.52	90.6921	39.6475	141.388	OK	811.391	65.384	36.2841	93.8833	OK	703.511	58.2412	32.0072	83.7431	OK	0.179023	-0.29302	-0.45991	1.132117	-1.2252	-1.37546
RSc2904		hypothetical protein	1322.39	560.077	147.173	621.098	OK	1219.92	528.41	136.439	572.384	OK	1666.13	589.77	221.75	704.956	OK	1639.11	655.154	217.474	693.961	OK	-0.08397	0.074527	0.226209	-1.05993	1.053016	1.169757
RSc2905	***ubiX***	3-octaprenyl-4-hydroxybenzoate carboxy-lyase	1587.07	206.48	83.3194	326.612	OK	1593.43	208.911	83.6135	332.395	OK	1110.38	134.523	69.9138	198.911	OK	1487.71	187.751	93.4118	278.495	OK	0.016886	-0.61815	-0.13718	1.011774	-1.5349	-1.09975
RSc2906		hypothetical protein	54.7614	151.677	12.7212	44.9217	OK	57.0398	166.77	13.5163	46.9094	OK	75.5816	131.526	19.6085	59.6099	OK	99.7244	256.964	25.8832	76.4732	OK	0.136857	-0.20565	0.760564	1.099508	-1.15321	1.694153
RSc2907		putative signal peptide protein	2481.5	286.397	120.036	450.807	OK	3622.03	420.892	174.598	666.64	OK	2908.78	314.604	165.182	458.751	OK	2462.29	276.181	142.064	407.573	OK	0.555434	0.135521	-0.0524	1.46961	1.098489	-1.03699
RSc2908	***mdoG***	glucan biosynthesis protein G	6579.48	313.173	67.1641	558.694	OK	9772.2	466.451	93.9447	839.253	OK	8764.14	402.777	166.44	638.335	OK	10431.2	486.78	204.14	770.221	OK	0.574766	0.363021	0.63631	1.489436	1.286117	1.554349
RSc2909	***mdoH***	glucosyltransferase MdoH	5283.46	140.197	6.28883	277.027	OK	7439.09	197.707	7.57437	405.774	OK	6213.26	160.698	38.0713	283.802	OK	6794.86	177.255	34.1473	319.326	OK	0.495908	0.196896	0.338371	1.410208	1.14623	1.264328
RSc2910		signal peptide protein	1701.66	694.224	185.71	782.33	OK	1760.87	734.246	191.785	856.047	OK	2221.88	761.11	290.687	922.407	OK	3803.13	1465.47	492.869	1596.28	OK	0.080862	0.132704	1.07789	1.05765	1.096346	2.110947
RSc2911		hypothetical protein	1430.9	281.743	101.54	429.34	OK	477.478	95.1149	36.6124	144.738	OK	708.022	126.21	60.8032	186.827	OK	721.642	136.687	61.8426	190.465	OK	-1.56664	-1.15855	-1.0435	-2.96213	-2.23233	-2.06123
RSc2912		hypothetical protein	278.878	242.376	0	482.442	OK	177.559	159.767	0	318.05	OK	173.393	114.126	0.278647	226.54	OK	133.268	108.23	0	215.952	OK	-0.60128	-1.08662	-1.16315	-1.51706	-2.12376	-2.23945
RSc2913		putative ABC transporter ATP-binding protei	6159.64	263.403	93.1373	433.443	OK	7241.29	310.44	107.649	514.365	OK	4498.22	186.126	98.355	274.004	OK	4656.23	195.334	102.864	287.744	OK	0.237043	-0.50099	-0.43133	1.178574	-1.41519	-1.34847
RSc2914	***cyoD1***	transmembrane cytochrome O ubiquinol oxidase subunit IV	480.683	151.151	49.2685	182.469	OK	909.877	291.245	88.8593	360.716	OK	1713.92	466.507	194.414	618.305	OK	1058.89	316.504	119.946	379.627	OK	0.946243	1.625908	1.066233	1.926848	3.086364	2.093959
RSc2915	***cyoC1***	transmembrane cytochrome O ubiquinol oxidase (subunit III) oxidoreductase protein	805.195	109.398	45.3642	172.647	OK	1691.87	231.723	92.1461	371.116	OK	3946.92	498.118	254.626	738.005	OK	2258.31	297.407	147.741	434.932	OK	1.082815	2.186901	1.442852	2.118165	4.553264	2.718578
RSc2916	***cyoB1***	transmembrane cytochrome O ubiquinol oxidase subunit	2800.94	99.2206	44.3976	153.652	OK	8762.05	311.036	127.403	494.619	OK	11810.7	406.168	218.703	593.026	OK	7177.44	249.666	138.261	360.975	OK	1.64837	2.033365	1.331288	3.134793	4.093585	2.516272
RSc2917	***cyoA1***	transmembrane cytochrome O ubiquinol oxidase subunit I	1293.99	100.645	44.0399	157.034	OK	3094.87	241.823	107.465	374.111	OK	1647.24	122.056	66.997	176.733	OK	1683.53	127.876	68.9222	185.718	OK	1.264676	0.278268	0.34547	2.402732	1.212738	1.270565
RSc2918		putative extracytoplasmic function sigma factor (IRON-regulated) transcription regulator protei	190.651	33.8207	14.2296	49.8034	OK	448.958	80.4839	32.1392	118.498	OK	671.343	108.693	53.7296	163.367	OK	145.054	24.8119	11.9802	34.0045	OK	1.250794	1.684281	-0.44687	2.379723	3.213801	-1.36308
RSc2919		putative IRON transport-sensory transduction transmembrane	469.528	45.6076	21.3109	69.6311	OK	779.237	76.1271	33.6446	118.576	OK	765.82	70.268	38.658	101.882	OK	341.783	32.3407	17.9429	46.5128	OK	0.739136	0.623594	-0.49592	1.669176	1.540708	-1.41022
RSc2920		putative hydroxamate-type ferrisiderophore receptor signal peptide protein	553.699	15.8907	7.62855	24.1704	OK	383.639	11.0287	5.51397	16.5687	OK	560.193	15.6549	9.40035	21.8637	OK	416.123	11.7372	7.10308	16.345	OK	-0.52692	-0.02157	-0.43709	-1.44085	-1.01506	-1.35387
RSc2921	***ggt2***	gamma-glutamyltranspeptidase precursor	3645.69	137.301	61.3736	213.156	OK	239.199	9.02859	4.6443	13.3481	OK	176.728	6.45497	3.93679	8.95958	OK	192.196	7.1057	4.34404	9.84197	OK	-3.9267	-4.41079	-4.27222	-15.2074	-21.2706	-19.3227
RSc2922		putative outer membrane receptor signal peptide protei	843.731	28.0376	12.7575	43.2713	OK	282.439	9.40402	4.87607	13.9535	OK	228.968	7.39386	4.53797	10.2256	OK	225.74	7.36822	4.50772	10.2558	OK	-1.57601	-1.92296	-1.92797	-2.98145	-3.79201	-3.80521
RSc2923		putative transmembrane sensor histidine kinase transcription regulator protein	1739.18	104.579	46.1201	162.491	OK	226.319	13.6573	6.89451	20.3701	OK	262.313	15.1446	9.01706	21.2287	OK	251.124	14.7805	8.7079	20.8165	OK	-2.93685	-2.78772	-2.82283	-7.65737	-6.90537	-7.07547
RSc2924		hypothetical protein	484.74	85.2866	34.518	135.876	OK	691.837	122.998	47.6909	197.106	OK	359.013	57.6846	29.3593	85.7917	OK	659.088	111.836	52.7023	159.671	OK	0.528244	-0.56413	0.390994	1.442173	-1.4785	1.311296
RSc2925	***sspB***	ClpXP protease specificity-enhancing factor	2834.41	543.17	201.221	820.919	OK	4450.94	862.667	310.496	1386.43	OK	2378.6	413.56	198.759	585.435	OK	3316.29	611.73	275.304	885.87	OK	0.6674	-0.39331	0.171491	1.588208	-1.3134	1.126222
RSc2926	***sspA***	putative transcription modulator protei	4143.61	592.996	236.768	948.862	OK	6091.3	879.15	337.895	1416.09	OK	4372.62	579.47	292.328	865.255	OK	5255.48	728.355	350.047	1066.75	OK	0.568087	-0.03329	0.296619	1.482556	-1.02334	1.228263
RSc2927	***petC***	putative cytochrome C1 precursor transmembrane protei	7210.25	793.748	316.315	1271.04	OK	5774.82	639.88	260.88	1017.48	OK	4638.27	479.614	251.915	706.672	OK	6441.29	689.611	349.892	1029.01	OK	-0.31088	-0.72681	-0.2029	-1.24046	-1.65497	-1.15101

RSc2928	***petB***	putative cytochrome B subunit transmembrane protei	20617.7	1069.08	395.534	1740.8	OK	13727.3	713.975	279.254	1148.25	OK	10358	517.587	280.326	754.687	OK	14179.9	720.459	379.561	1060.9	OK	-0.58242	-1.0465	-0.56938	-1.49736	-2.06551	-1.48389
RSc2929	***petA***	putative transmembrane ubiquinol-cytochrome C reductase (IRON-sulfur subunit) oxidoreductase protei	9360.14	1348.53	499.874	2192.7	OK	6468.5	939.909	358.911	1515.38	OK	5138.44	685.246	344.364	1025.37	OK	6301.68	879.101	420.936	1287.22	OK	-0.52079	-0.97669	-0.61729	-1.43475	-1.96795	-1.53399
RSc2930	***mscL***	large-conductance mechanosensitive channel transmembran	3919.5	955.182	323.517	1327.93	OK	2368.07	585.365	195.622	804.559	OK	2114.06	457.765	206.254	656.344	OK	2050.7	478.214	199.841	637.702	OK	-0.70644	-1.06117	-0.99812	-1.63177	-2.08662	-1.99739
RSc2931		hypothetical protein	2446.01	269.272	113.801	422.443	OK	1954.99	216.623	90.2648	342.955	OK	1786.17	184.697	97.9764	270.031	OK	1736.11	185.87	96.4456	274.368	OK	-0.31388	-0.5439	-0.53477	-1.24304	-1.45791	-1.44871
RSc2932		HTRA-like serine protease signal peptide protein	3526.03	216.265	97.5579	334.439	OK	4321.22	266	118.387	411.061	OK	5059.52	297.794	164.123	430.568	OK	4449.52	267.084	146.196	386.274	OK	0.298626	0.461514	0.304493	1.229972	1.376987	1.234985
RSc2933		putative porin signal peptide protein	891691	58717.2	29717.6	87119.7	OK	838839	55452.2	27564.9	83268.7	OK	790040	49823.7	43944.4	44202.8	OK	687358	44270.4	0.835942	122185	OK	-0.08254	-0.23695	-0.40744	-1.05888	-1.1785	-1.32633
RSc2934		hypothetical protein	1603.29	98.3362	43.2528	153.191	OK	2126.11	130.876	58.3435	203.033	OK	1568.32	92.3082	51.6325	132.882	OK	1999.93	120.046	66.205	173.139	OK	0.412406	-0.09126	0.287793	1.330904	-1.0653	1.220771
RSc2935		putative response regulator transcription regulator protei	1784.82	210.518	69.4039	351.658	OK	1669.79	198.33	68.4033	327.099	OK	1722.82	190.22	91.1696	288.764	OK	1139.58	130.587	55.8145	202.529	OK	-0.08604	-0.14627	-0.68893	-1.06145	-1.10671	-1.61209
RSc2936		putative transmembrane sensor kinase transcription regulato	1239.23	59.5133	4.08207	115.835	OK	1007.4	48.517	1.73379	96.3215	OK	844.736	39.1618	8.20568	70.2351	OK	1072.49	50.4938	18.644	82.3444	OK	-0.29472	-0.60377	-0.23711	-1.22665	-1.51968	-1.17863
RSc2937		putative periplasmic IRON-binding signal peptide protei	3546.31	244	109.329	378.664	OK	1926.47	133.089	58.829	207.338	OK	2535.32	166.845	92.8672	240.818	OK	2048.88	137.83	75.3931	199.621	OK	-0.87449	-0.54837	-0.82399	-1.83336	-1.46244	-1.7703
RSc2938		putative transmembrane ABC transporter protei	1724.98	67.3275	18.1616	116.54	OK	990.836	38.7623	11.0889	66.4268	OK	1489.4	56.3439	25.9806	86.532	OK	845.845	32.4031	15.0414	49.7524	OK	-0.79654	-0.25694	-1.05506	-1.73693	-1.19494	-2.07781
RSc2939		ABC transporter ATP-binding protein	1468.42	103.352	15.6251	192.92	OK	724.957	51.2374	3.8872	100.29	OK	1091.49	73.4262	24.0833	122.704	OK	664.527	45.72	15.4802	76.0248	OK	-1.0123	-0.4932	-1.17667	-2.01712	-1.40756	-2.26054
RSc2940	***tatC***	putative SEC-independent translocase protein TATC	697.701	69.9879	30.9189	108.536	OK	915.397	92.3717	40.1305	144.582	OK	811.391	76.778	41.9593	110.943	OK	882.108	86.1631	45.7522	126.115	OK	0.400345	0.133587	0.299965	1.319824	1.097018	1.231114
RSc2941	***tatB***	sec-independent translocase	2778.63	501.195	188.115	774.549	OK	2738.83	499.316	184.641	764.994	OK	2927.68	481.363	232.337	696.644	OK	3312.66	575.945	263.674	849.047	OK	-0.00542	-0.05825	0.200559	-1.00376	-1.0412	1.149144
RSc2942	***tatA***	twin argininte translocase protein A	1963.3	1251.85	265.592	1108.8	OK	2000.99	1313.93	270.834	1128.51	OK	3206.66	1618.73	513.178	1654.04	OK	2746.05	1640.71	442.997	1406.56	OK	0.069827	0.370801	0.390259	1.049591	1.29307	1.310628
RSc2943		hypothetical protein	1337.6	403.131	123.306	523.966	OK	1460.95	447.929	135.156	571.537	OK	1200.41	314.61	131.976	422.189	OK	1403.39	402.489	154.678	493.513	OK	0.152021	-0.35768	-0.0023	1.111125	-1.28137	-1.0016
RSc2944	***hisE***	phosphoribosyl-ATP pyrophosphatase	1566.78	472.204	102.183	840.476	OK	2052.51	629.301	123.478	1133.29	OK	1940.67	508.62	161.963	855.051	OK	1961.85	562.653	157.05	957.209	OK	0.41434	0.107178	0.252835	1.332689	1.077119	1.191546
RSc2945	***hisI***	phosphoribosyl-AMP cyclohydrolase	1889.27	465.674	80.3537	849.875	OK	2831.75	708.083	151.281	1268.51	OK	2825.42	618.118	258.149	981.622	OK	3181.21	750.098	313.837	1186.02	OK	0.604598	0.408562	0.687759	1.520555	1.327362	1.610779
RSc2946	***hisF***	imidazole glycerol phosphate synthase subunit HisF	4511.73	477.105	199.384	752.347	OK	6370.06	677.845	274.226	1074.52	OK	4943.93	492.002	259.482	723.486	OK	6796.67	699.374	356.881	1035.29	OK	0.506649	0.044357	0.551757	1.420746	1.031224	1.46587
RSc2947	***hisA***	1-(5-phosphoribosyl)-5-[(5-phosphoribosylamino)methylideneamino] imidazole-4	10223.1	1131.23	436.005	1825.56	OK	11248.8	1252.89	474.092	2016.95	OK	13907	1445.09	724.124	2163.32	OK	15321.3	1648.65	801.574	2493.53	OK	0.147367	0.353267	0.543393	1.107547	1.27745	1.457396
RSc2948	***hisH***	imidazole glycerol phosphate synthase subunit HisH	2895.26	378.974	141.702	615.945	OK	2797.71	369.054	126.833	608.658	OK	3364.49	409.955	197.589	617.15	OK	3348.93	425.173	197.783	652.025	OK	-0.03827	0.113367	0.165951	-1.02688	1.08175	1.121905
RSc2949		hypothetical protein	1013.09	141.218	2.2303	316.564	OK	1460.03	205.207	11.3845	418.556	OK	1497.18	193.565	34.5194	352.822	OK	1505.84	203.37	37.0049	370.319	OK	0.539156	0.454894	0.526183	1.453122	1.370682	1.440114
RSc2950	***hisB***	imidazoleglycerol-phosphate dehydratase	2346.63	352.265	80.0926	624.068	OK	2692.83	407.845	79.3298	736.198	OK	4061.4	562.883	196.292	929.432	OK	3183.02	462.313	161.678	762.379	OK	0.21136	0.676174	0.392209	1.157779	1.597896	1.312401
RSc2951	***hisC1***	histidinol-phosphate aminotransferase	3055.48	204.335	37.5169	371.49	OK	4222.78	283.516	53.1746	514.357	OK	6020.97	385.45	144.745	626.992	OK	4473.09	292.545	113.34	472.719	OK	0.472494	0.915607	0.517722	1.387506	1.886363	1.431693
RSc2952	***hisD***	histidinol dehydrogenase	5503.52	303.711	132.824	474.503	OK	7304.77	404.428	172.172	637.468	OK	9690.01	514.561	278.267	750.285	OK	7168.37	387.453	211.39	561.985	OK	0.413184	0.760643	0.351322	1.331621	1.694246	1.275729
RSc2953	***murA***	UDP-N-acetylglucosamine 1- carboxyvinyltransferase	5808.77	338.848	147.369	529.807	OK	8586.33	502.603	209.583	795.449	OK	5797.56	324.975	178.501	471.017	OK	6360.61	363.263	198.875	527.222	OK	0.568781	-0.06031	0.100376	1.48327	-1.04269	1.072053
RSc2954		hypothetical protein	538.487	422.852	84.781	321.733	OK	700.117	568.195	107.335	424.449	OK	794.719	479.663	141.271	401.295	OK	659.088	483.948	117.413	355.723	OK	0.426233	0.181868	0.194699	1.343721	1.134352	1.144486
RSc2955		hypothetical protein	2225.95	228.632	34.69	421.259	OK	3169.39	327.517	51.5861	603.525	OK	3206.66	310.365	129.881	490.296	OK	3261.9	326.139	120.46	531.443	OK	0.518542	0.440939	0.51246	1.432507	1.357487	1.42648
RSc2956		ABC transporter ATP-binding protein	4626.32	370.569	87.7898	653.617	OK	5860.38	471.644	90.9426	851.963	OK	3151.09	240.212	87.59	393.05	OK	4565.57	357.032	142.482	571.101	OK	0.347956	-0.62543	-0.05369	1.272756	-1.54267	-1.03792
RSc2957		putative signal peptide protein	2670.13	919.039	270.558	1109.07	OK	2654.19	931.22	269.263	1101.66	OK	1623.89	478.912	193.333	616.512	OK	1631.85	532.67	194.063	619.433	OK	0.018996	-0.94037	-0.78688	1.013254	-1.91901	-1.72534
RSc2958		signal peptide protein	3817.07	518.608	209.101	826.783	OK	5089.42	697.06	275.628	1111.93	OK	5671.96	715.825	362.809	1067.75	OK	5842.04	769.367	372.799	1144.77	OK	0.426638	0.464962	0.569027	1.344098	1.380281	1.483523
RSc2959	***vacJ***	lipoprotein precursor (VACJ) transmembrane	2268.54	225.455	96.6015	354.046	OK	3921.03	391.981	166.329	617.613	OK	4149.21	389.142	206.752	570.922	OK	3932.77	380.636	198.752	561.902	OK	0.797944	0.787457	0.755573	1.738622	1.72603	1.688301
RSc2960		signal peptide protein	779.843	139.493	53.9142	215.41	OK	1097.56	198.412	74.0241	307.077	OK	1327.12	216.522	104.669	311.086	OK	859.443	148.207	68.8867	214.693	OK	0.508307	0.634321	0.087421	1.42238	1.552207	1.062469
RSc2961		hypothetical protein	1144.92	121.672	30.3557	212.322	OK	1468.31	157.023	38.9928	275.046	OK	1496.07	149.587	67.2541	231.791	OK	1319.08	136.395	62.6216	209.869	OK	0.367979	0.297988	0.164794	1.290543	1.229428	1.121006
RSc2962		ABC transporter ATP-binding protein	1488.7	141.405	26.2161	256.557	OK	1819.75	173.824	32.9547	315.41	OK	1364.92	122.583	43.4678	201.263	OK	1001.78	92.7202	30.821	154.475	OK	0.297794	-0.20607	-0.60888	1.229263	-1.15354	-1.52507
RSc2963		hypothetical protein	501.98	37.0307	17.5469	56.4364	OK	461.838	34.2183	16.3647	51.9564	OK	202.292	14.2419	8.4095	20.0723	OK	724.362	52.2114	29.157	75.3172	OK	-0.11395	-1.37858	0.495643	-1.08219	-2.60012	1.409949
RSc2964	***gltD***	glutamate synthase subunit beta	7922.15	391.853	164.126	619.596	OK	18226.1	904.15	337.885	1469.39	OK	2246.33	107.19	60.6241	153.491	OK	8409.49	407.709	222.578	593.135	OK	1.20625	-1.87014	0.057227	2.30737	-3.65569	1.040464
RSc2965	***gltB***	glutamate synthase (large subunit) oxidoreductase protei	34005.8	477.437	151.788	803.026	OK	114846	1613.76	525.297	2703.5	OK	21450.7	295.208	144.508	444.788	OK	81488.5	1126.58	351.143	1903.42	OK	1.757044	-0.69358	1.238567	3.380048	-1.61729	2.359641
RSc2966		hypothetical protein	1912.59	218.389	90.9243	345.778	OK	2100.35	241.454	100.416	379.309	OK	2417.5	258.825	137.039	380.577	OK	1955.51	217.039	111.574	321.683	OK	0.144848	0.245077	-0.00895	1.105614	1.185156	-1.00622
RSc2967		outer membrane signal peptide protei	21973.5	2758.48	962.866	4553.87	OK	24164.6	3056.16	1050.93	5052.19	OK	25858.9	3028.85	1405.41	4632.82	OK	33389.6	4068.34	1760.06	6373.49	OK	0.147847	0.134897	0.560567	1.107915	1.098014	1.474848
RSc2968	***dgt***	deoxyguanosinetriphosphate triphosphohydrolase- like protei	2604.21	167.378	75.0238	259.208	OK	3870.43	249.706	111.54	387.844	OK	2266.34	139.6	77.9954	200.146	OK	4084.17	256.799	140.817	370.874	OK	0.577121	-0.26181	0.61753	1.491869	-1.19898	1.534246
RSc2969	***aroB***	3-dehydroquinate synthase	4188.23	285.423	107.975	462.733	OK	7667.25	524.622	192.563	856.76	OK	6147.68	400.832	204.885	595.2	OK	7742.24	515.911	261.128	768.233	OK	0.878177	0.489896	0.854021	1.838051	1.404344	1.807531
RSc2970	***aroK***	shikimate kinase	1422.78	222.933	2.50701	500.148	OK	1663.35	263.058	0	692.851	OK	1926.22	277.872	20.9174	540.245	OK	1870.29	283.305	11.9667	573.945	OK	0.238771	0.31781	0.345746	1.179987	1.246437	1.270808
RSc2971	***pilQ***	fimbrial type-4 assembly signal peptide protei	22033.4	715.565	133.065	1298.62	OK	36056.5	1173.23	190.801	2159.43	OK	27467.3	867.142	267.751	1466.94	OK	29740.6	948.805	280.25	1617.4	OK	0.713331	0.277185	0.407029	1.639586	1.211828	1.325952
RSc2972	***pilP***	fimbrial type-4 assembly lipoprotei	3591.94	602.372	0	1424.96	OK	6337.86	1073.47	0	2505.51	OK	4707.18	723.397	0.116358	1614.59	OK	4859.3	786.716	0.232716	1669.16	OK	0.833555	0.264133	0.385188	1.782072	1.200914	1.30603
RSc2973	***pilO***	fimbrial type-4 assembly membrane transmembrane protei	4643.56	593.347	0.096698	1408.89	OK	8640.61	1112.46	0.096698	2642.86	OK	5361.85	638.629	0.190786	1453.98	OK	6067.78	752.312	0	1633.79	OK	0.906805	0.106102	0.342455	1.874889	1.076316	1.267912
RSc2974	***pilN***	fimbrial type-4 assembly membrane transmembrane protei	4598.94	628.816	0	1975.62	OK	8711.45	1200.8	0	3674.04	OK	4997.28	634.459	0	1873.81	OK	5466.71	724.444	0	2174.9	OK	0.933286	0.012889	0.204236	1.909621	1.008974	1.152076
RSc2975	***pilM***	fimbrial type-4 assembly protei	11043.5	782.41	314.669	1250.08	OK	20775.4	1478.06	545.033	2408.27	OK	12871.1	871.397	458.483	1279.23	OK	12509.1	866.262	450.001	1278.64	OK	0.917708	0.155405	0.146879	1.889112	1.113734	1.107171
RSc2976	***mrcA***	penicillin-binding 1 transmembrane protei	4823.06	138.418	59.9577	216.785	OK	5879.7	169.028	71.4674	266.517	OK	4769.42	133.284	74.9916	191.572	OK	5590.01	157.672	88.2207	227.166	OK	0.288231	-0.05453	0.187895	1.221142	-1.03852	1.1391
RSc2977	***cyaY***	frataxin-like protein	566.882	201.445	12.4283	389.795	OK	659.638	239.057	3.76614	474.345	OK	593.538	180.054	26.5644	331.219	OK	734.335	247.279	43.0975	437.291	OK	0.246969	-0.16196	0.295754	1.186711	-1.1188	1.227526
RSc2978		proline-rich transmembrane protei	632.798	217.805	16.1002	416.756	OK	816.957	286.629	9.8082	562.583	OK	844.736	249.126	51.4825	429.203	OK	611.945	199.751	28.4797	370.784	OK	0.396148	0.193839	-0.12483	1.315989	1.143803	-1.09038
RSc2979	***lysA***	diaminopimelate decarboxylase protei	2210.74	119.24	29.6653	208.952	OK	4604.58	249.149	68.7725	429.95	OK	2449.73	127.215	55.9808	198.27	OK	2550.23	134.745	57.909	211.717	OK	1.063141	0.093401	0.176363	2.089475	1.066882	1.130032
RSc2980		putative sulfite oxidase subunit YedZ	585.136	76.5912	32.9883	119.939	OK	572.238	75.4855	32.299	118.068	OK	380.131	46.318	25.1601	67.4173	OK	459.639	58.3548	30.1144	82.2802	OK	-0.02098	-0.72561	-0.39233	-1.01465	-1.65359	-1.31251
RSc2981		putative sulfite oxidase subunit YedY	1442.05	111.353	48.5594	174.193	OK	1259.48	97.7	42.6754	152.661	OK	883.638	65.0206	36.2309	93.1924	OK	1316.36	99.2749	53.5809	144.923	OK	-0.18871	-0.77617	-0.16564	-1.13974	-1.71258	-1.12166
RSc2982		hypothetical protein	1249.37	115.107	49.4414	180.637	OK	965.076	89.4003	39.1941	139.648	OK	960.331	83.7605	45.6749	121.455	OK	1036.23	93.0617	49.6594	136.065	OK	-0.36462	-0.45863	-0.30672	-1.28755	-1.37424	-1.23689
RSc2983	***rpoE2***	RNA polymerase sigma-E factor (sigma-24) transcription regulator protein	1142.89	197.843	74.8933	313.201	OK	812.357	142.073	54.7529	219.735	OK	643.555	101.858	50.6825	143.6	OK	677.22	113.1	53.2999	163.231	OK	-0.47772	-0.9578	-0.80676	-1.39254	-1.94234	-1.74927
RSc2984		hypothetical protein	2613.34	590.17	206.458	844.128	OK	1683.59	385.278	130.963	550.938	OK	2079.61	420.227	193.295	615.844	OK	1895.67	410.444	176.098	561.409	OK	-0.61523	-0.48996	-0.52395	-1.5318	-1.40441	-1.43788
RSc2985		putative transmembrane cytochrome C-type biogenesis transmembrane protein	4045.25	253.915	113.352	392.152	OK	4632.18	291.836	129.778	450.156	OK	3103.29	186.807	104.175	269.207	OK	5182.04	318.27	173.215	463.278	OK	0.200812	-0.4428	0.325906	1.149345	-1.35924	1.253451
RSc2986		putative cytochrome C-type biogenesis transmembrane protei	3653.8	121.23	54.0197	188.303	OK	4073.74	135.428	60.0831	210.842	OK	3324.48	107.191	60.7825	153.285	OK	4376.09	142.617	80.1169	204.914	OK	0.159779	-0.17756	0.234399	1.117116	-1.13097	1.176417
RSc2987		oxidoreductase cytochrome C-type signal peptide protei	7959.67	1029.33	398.115	1655.98	OK	6025.06	785.133	308.637	1255.72	OK	3840.21	462.597	238.725	685.66	OK	6288.99	788.976	387.543	1185.63	OK	-0.3907	-1.15388	-0.38365	-1.31103	-2.22511	-1.30464
RSc2988		GTPase EngB	1216.92	144.328	59.7422	227.093	OK	1503.27	179.545	73.4445	285.191	OK	2122.96	235.629	124.27	345.954	OK	1254.71	144.563	73.4443	210.6	OK	0.314994	0.707166	0.002347	1.244007	1.632594	1.001628
RSc2989	***hemB***	delta-aminolevulinic acid dehydratase	4018.88	310.333	136.755	481.973	OK	5393.94	418.419	180.336	656.618	OK	10258	754.811	399.433	1103.57	OK	6040.58	455.557	242.836	668.166	OK	0.431131	1.282298	0.553814	1.34829	2.432261	1.467962
RSc2990	***dsbD***	thiol:disulfide interchange transmembrane protei	3880.96	150.112	67.1857	233.176	OK	3817.07	147.978	66.0577	229.616	OK	3298.92	123.693	70.1734	177.311	OK	3852.08	146.245	82.5528	209.859	OK	-0.02066	-0.27928	-0.03765	-1.01442	-1.21359	-1.02644
RSc2991	***cutA***	periplasmic divalent cation tolerance protei	600.347	216.848	65.3509	251.715	OK	479.318	176.612	53.0026	209.541	OK	619.103	190.536	77.025	234.448	OK	594.72	203.479	74.2139	224.703	OK	-0.2961	-0.18662	-0.0918	-1.22782	-1.13809	-1.0657
RSc2992	***rplQ***	50S ribosomal protein L17	4720.64	1280.38	410.778	1716.23	OK	7203.57	1984.67	608.016	2902.89	OK	8899.74	2122.39	895.811	2802.87	OK	9193.69	2379.48	924.632	2896.02	OK	0.632327	0.729118	0.894074	1.550063	1.657625	1.858417
RSc2993	***rpoA***	DNA-directed RNA polymerase subunit alpha	23172.2	1822.1	664.23	2980.63	OK	37985.7	3000.85	1053.2	4944.24	OK	45456.8	3403.97	1477.42	5303.69	OK	37510.9	2880.21	1297.25	4452.91	OK	0.719769	0.901616	0.660572	1.646918	1.868158	1.580709
RSc2994	***rpsD***	30S ribosomal protein S4	14078.8	1962.49	705.624	3213.34	OK	21722	3053.02	1039.7	5045.16	OK	18126.3	2343.47	1121.88	3558.48	OK	14481.8	1955.83	911.943	2997.18	OK	0.637552	0.255961	-0.0049	1.555687	1.194131	-1.00341
RSc2995	***rpsK***	30S ribosomal protein S11	10904.6	2921.06	876.462	4458.57	OK	16709.9	4546.01	1291.7	7381.12	OK	16474.6	3885.08	1607.41	5317.53	OK	17246.9	4409.97	1668.1	5605.79	OK	0.638109	0.411452	0.594277	1.556288	1.330024	1.509716
RSc2996	***rpsM***	30S ribosomal protein S13	9024.48	2837.75	810.995	4012.74	OK	13551.6	4337.76	1173.65	7069.5	OK	13279	3614.37	1443.17	4639.2	OK	12129.2	3625.44	1324.96	4223.12	OK	0.612203	0.348997	0.353409	1.528591	1.273675	1.277576
RSc2997	***rpmJ***	50S ribosomal protein L36	193.693	4042.04	64.9514	226.78	OK	227.239	5195.04	75.4097	268.613	OK	114.484	979.481	41.8114	121.633	OK	96.0981	1623.49	34.7523	101.542	OK	0.362051	-2.04499	-1.31599	1.285252	-4.12672	-2.48972
RSc2998	***infA***	translation initiation factor IF-1	747.392	725.399	123.215	491.388	OK	1142.64	1150.32	182.616	763.696	OK	970.335	701.635	184.793	571.494	OK	1304.58	1182.55	246.294	784.137	OK	0.665189	-0.04805	0.705055	1.585776	-1.03387	1.630206
RSc2999	***secY***	preprotein translocase subunit SecY	13633.6	740.937	291.836	1190.1	OK	22892.3	1248.12	458.218	2037.69	OK	21380.7	1118.53	562.823	1673.8	OK	23703.6	1261.86	624.421	1899.58	OK	0.752334	0.594181	0.768129	1.684516	1.509616	1.70306
RSc3000	***rplO***	50S ribosomal protein L15	7133.18	1699.95	556.651	2653.56	OK	12750.2	3081.21	942.014	4889.7	OK	19247.8	4084.26	1725.5	5859.76	OK	14516.3	3312.24	1323.72	4335.59	OK	0.858005	1.264582	0.962315	1.81253	2.402577	1.948434
RSc3001	***rpmD***	50S ribosomal protein L30	793.026	1358	156.252	625.358	OK	1393.79	2499.15	263.938	1116.99	OK	2327.47	2716.88	529.083	1680.29	OK	1538.48	2458.22	346.126	1112.67	OK	0.879954	1.000467	0.856131	1.840317	2.000648	1.810177
RSc3002	***rpsE***	30S ribosomal protein S5	9755.64	1759.67	611.871	2820.37	OK	18255.5	3328.16	1078.44	5418.24	OK	31084.1	5110.78	2153.95	8040.85	OK	22000.1	3824.98	1615.1	5633.26	OK	0.91942	1.538239	1.120147	1.891355	2.904397	2.173692
RSc3003	***rplR***	50S ribosomal protein L18	3736.96	1228.22	367.284	1510.45	OK	7373.77	2468.66	693.077	3325.04	OK	11769.6	3331.94	1316.9	4204.47	OK	8498.34	2652.01	963.474	2987.59	OK	1.007159	1.439793	1.110517	2.009949	2.71282	2.15923
RSc3004	***rplF***	50S ribosomal protein L6	8773.99	1518.84	540.655	2450.01	OK	17322.6	3029.56	1001.23	4986.61	OK	17929.5	2837.77	1302.99	4330.74	OK	15668.5	2616.74	1152.49	3795.12	OK	0.996138	0.901788	0.784801	1.994654	1.86838	1.722854
RSc3005	***rpsH***	30S ribosomal protein S8	4866.67	1336.74	425.599	1939.02	OK	9337.97	2605.82	772.487	3844.71	OK	12469.9	3007.66	1253.95	4023.51	OK	9000.58	2358.28	914.791	2859.08	OK	0.963019	1.169923	0.819016	1.949384	2.249996	1.764202
RSc3006	***rpsN***	30S ribosomal protein S14	3635.55	1600.65	419.027	1712.52	OK	6439.06	2901.19	714.514	3363.58	OK	6957.96	2547.87	927.644	3066.54	OK	4370.65	1814.5	585.695	1912.18	OK	0.857987	0.670634	0.180914	1.812507	1.591772	1.133602
RSc3007	***rplE***	50S ribosomal protein L5	6865.46	1160.4	427.442	1861.7	OK	12208.4	2084.22	718.966	3402.22	OK	14751.8	2283.61	1070.79	3490.84	OK	10213.6	1666.31	752.785	2385.07	OK	0.844885	0.976694	0.522035	1.796122	1.967951	1.435979

RSc3008	***rplX***	50S ribosomal protein L24	2306.06	995.645	261.355	1083.56	OK	3576.03	1579.51	408.707	1667.55	OK	2973.25	1070.3	397.227	1281.73	OK	2418.77	985.13	325.471	1034.8	OK	0.665774	0.104312	-0.01532	1.586419	1.074982	-1.01067
RSc3009	***rplN***	50S ribosomal protein L14	2502.8	775.803	239.453	980.326	OK	4026.83	1270.34	383.09	1575.82	OK	2438.62	655.34	274.959	873.775	OK	2901.98	855.375	324.545	1047.67	OK	0.711452	-0.24345	0.140867	1.637452	-1.18382	1.102567
RSc3010	***rpsQ***	30S ribosomal protein S17	5618.11	3227.11	589.388	4352.08	OK	11684.9	6899.71	1112.47	9386.32	OK	12755.5	5884.59	1625	8293.46	OK	11277.9	6079.06	1460.29	7205.66	OK	1.096293	0.866699	0.913606	2.138046	1.823486	1.883747
RSc3011	***rpmC***	50S ribosomal protein L29	3004.78	4142.34	79.9579	8842.24	OK	6069.22	8729.59	86.3003	19299.6	OK	7540.38	7337.38	1084.01	13596.8	OK	6428.6	8271.68	1316.29	15219.1	OK	1.075468	0.824819	0.997734	2.107405	1.771313	1.996862
RSc3012	***rplP***	50S ribosomal protein L16	9198.9	2320.36	723.391	3593.79	OK	18169.9	4651	1339.29	7768.89	OK	28016.3	6258.45	2470.88	9124.78	OK	22870.4	5515.33	2079.02	7310.7	OK	1.003192	1.431457	1.249099	2.00443	2.697189	2.376929
RSc3013	***rpsC***	30S ribosomal protein S3	21685.5	2206.25	788.446	3611.96	OK	43371.4	4439.16	1518.81	7350.3	OK	57080.8	5474.66	2192.52	8735.71	OK	48388.1	4792.8	1962.21	7612.76	OK	1.00869	1.311173	1.119272	2.012084	2.481432	2.172374
RSc3014	***rplV***	50S ribosomal protein L22	4624.3	1756.85	488.277	2030.78	OK	9758.4	3784.92	965.039	5547.46	OK	15620.9	5026.37	1856.86	6115.97	OK	13694.9	4922.35	1651.44	5312.59	OK	1.107272	1.516526	1.486356	2.154379	2.861013	2.801804
RSc3015	***rpsS***	30S ribosomal protein S19	3455.04	1889.94	442.64	1803.93	OK	7229.33	4061.75	881.547	4212.2	OK	9125.37	4035.62	1333.7	4158.1	OK	7419.5	3811.41	1086.02	3646.39	OK	1.103761	1.09445	1.011984	2.149142	2.135316	2.016683
RSc3016	***rplB***	50S ribosomal protein L2	12084	1163.25	447.552	1876.39	OK	26574.1	2572.72	901.924	4226.36	OK	41442.1	3769.86	1658.47	5878.39	OK	32615.3	3058.84	1382.71	4721.83	OK	1.145133	1.69635	1.394823	2.211666	3.240799	2.629564
RSc3017	***rplW***	50S ribosomal protein L23	2521.05	1047.78	121.646	1939.8	OK	6453.78	2742.33	269.666	5212.19	OK	7647.08	2662.49	557.263	4743.49	OK	6495.69	2548.83	503.816	4457.09	OK	1.388066	1.34544	1.282499	2.617277	2.541077	2.4326
RSc3018	***rplD***	50S ribosomal protein L4	6176.88	866.648	201.618	1527.36	OK	14662	2074.31	309.265	3843.18	OK	14909.6	1939.44	691.246	3191	OK	12401.2	1685.58	625.917	2746.15	OK	1.259113	1.162122	0.959727	2.393486	2.237864	1.944942
RSc3019	***rplC***	50S ribosomal protein L3	7319.77	940.909	367.27	1510.46	OK	13576.4	1758.48	641.387	2870.55	OK	8350.66	1000.24	504.995	1482.31	OK	11459.2	1429.14	689.84	2160.07	OK	0.902202	0.088219	0.60302	1.868916	1.063057	1.518893
RSc3020	***rpsJ***	30S ribosomal protein S10	6372.6	2648.53	687.557	3232.11	OK	9603.84	4080.86	996.273	4978.71	OK	23368.1	8136.09	2800.63	9912.54	OK	13540.8	5313.24	1707.49	5503.85	OK	0.623681	1.619144	1.0044	1.540802	3.071927	2.006109
RSc3021	***tuf***	elongation factor Tu	1.0141	0.063468	0	0.270365	OK	NA	NA	NA	0	OK	NA	NA	0	0	OK	0	0	0	0	OK	NA	NA	NA	NA	NA	NA
RSc3022	***fusA1***	elongation factor G	23089	762.539	271.387	1253.32	OK	59841.2	1980.17	676.088	3282.47	OK	88084.8	2827.2	868.656	4784.81	OK	49195	1595.9	658.178	2531.85	OK	1.376741	1.890491	1.065487	2.596811	3.707614	2.092877
RSc3023	***rpsG***	30S ribosomal protein S7	6422.3	1338.05	463.113	2179.38	OK	12070.4	2545.86	819.985	4234.06	OK	10398	1952.12	886.475	2793.1	OK	7355.13	1472.13	632.483	2115.97	OK	0.928021	0.54491	0.137773	1.902664	1.458929	1.100206
RSc3024	***rpsL***	30S ribosomal protein S12	4936.64	1467.47	451.829	2061.85	OK	8123.57	2456.12	713.522	3480.21	OK	5461.89	1413.98	590.945	1937.38	OK	4059.69	1148.79	441.696	1433.49	OK	0.74305	-0.05357	-0.35322	1.673711	-1.03783	-1.2774
RSc3025	***recQ***	ATP-dependent DNA helicase protein	2871.93	105.568	47.5773	163.223	OK	3566.83	131.396	59.0174	203.499	OK	2712.05	96.7219	55.3993	138.15	OK	2408.8	86.9311	49.3913	124.375	OK	0.315749	-0.12626	-0.28023	1.244657	-1.09146	-1.21439
RSc3026		hypothetical protein	1003.96	150.71	60.2601	239.951	OK	565.798	85.6934	35.5241	135.776	OK	519.068	71.9393	37.4095	104.489	OK	461.452	67.0229	33.432	98.8986	OK	-0.81452	-1.06692	-1.16905	-1.75871	-2.09496	-2.24863
RSc3027		signal peptide protein	920.803	86.3175	37.8517	134.795	OK	549.238	51.7725	23.5151	79.8754	OK	520.18	46.1302	25.9664	65.9262	OK	485.93	44.3935	24.3201	64.2799	OK	-0.73747	-0.90394	-0.9593	-1.66725	-1.87117	-1.94437
RSc3028		putative signal peptide protein	721.025	72.3276	21.0665	123.435	OK	420.438	42.426	12.2554	72.5713	OK	335.671	31.7629	15.0137	48.3599	OK	361.728	35.3331	16.357	54.0493	OK	-0.7696	-1.1872	-1.03353	-1.70479	-2.27711	-2.04702
RSc3029		putative signal peptide protein	596.291	24.4752	2.75006	46.5869	OK	448.038	18.4347	3.5385	33.2454	OK	296.769	11.7957	4.69014	18.8798	OK	301.893	12.159	4.63171	19.6546	OK	-0.4089	-1.05306	-1.0093	-1.32767	-2.07493	-2.01293
RSc3030		putative signal peptide protein	5271.29	74.0083	30.7969	117.234	OK	4615.62	64.8565	27.3931	102.141	OK	3278.91	45.1248	25.6187	64.6018	OK	3309.04	45.7474	26.0601	65.4313	OK	-0.19044	-0.71377	-0.694	-1.14111	-1.64008	-1.61776
RSc3031		hypothetical protein	237.299	27.096	0	77.7957	OK	284.279	32.6804	0	81.3439	OK	128.933	13.804	0	30.9782	OK	125.109	13.8857	0	30.0156	OK	0.270346	-0.97299	-0.96448	1.206097	-1.96291	-1.95136
RSc3032		hypothetical protein	3766.37	139.883	50.9189	228.782	OK	3387.43	126.085	45.4847	206.542	OK	1710.59	61.6289	33.3257	89.9255	OK	1737.93	63.3679	34.0553	92.6495	OK	-0.14982	-1.18254	-1.1424	-1.10943	-2.26976	-2.20747
RSc3033	***rpoC***	DNA-directed RNA polymerase subunit beta	118546	1876.72	616.072	3137.07	OK	124660	1975.34	654.393	3297.67	OK	242288	3756.76	141.301	7748.96	OK	185239	2886.98	267.704	5516.99	OK	0.073888	1.001276	0.621348	1.052549	2.001769	1.538312
RSc3034	***rpoB***	DNA-directed RNA polymerase subunit beta	69930.3	1141.59	366.193	1914.08	OK	90118.3	1472.57	483.345	2459.01	OK	189951	3036.41	256.54	5850.66	OK	138495	2225.62	346.198	4105.98	OK	0.367292	1.411322	0.963163	1.289929	2.659808	1.949579
RSc3035	***rplL***	50S ribosomal subunit protein L7/L12	9341.89	2815.5	816.089	4061.73	OK	17878.3	5481.49	1469.89	9250.39	OK	24701.9	6473.98	2467.91	8846.48	OK	22428	6432.28	2262.23	7984.65	OK	0.961177	1.201262	1.191939	1.946898	2.299407	2.284596
RSc3036	***rplJ***	50S ribosomal protein L10	8023.56	1497.53	526.64	2347.65	OK	13517.5	2550.93	843.818	4053.07	OK	11145	1891.16	878.791	2790	OK	14294.1	2569.58	1110.99	3639.22	OK	0.768438	0.336687	0.778948	1.703425	1.262853	1.715879
RSc3037	***rplA***	50S ribosomal protein L1	13615.3	1642	606.998	2670.51	OK	20126.8	2444.67	856.737	4012.2	OK	29302.3	3304.25	1509.61	5065.55	OK	21642	2534.87	1178.99	3890.76	OK	0.574186	1.008869	0.626458	1.488837	2.012333	1.54377
RSc3038	***rplK***	50S ribosomal protein L11	6206.29	1479.05	488.374	2292.2	OK	8877.05	2145.22	677.105	3341.25	OK	13272.4	2816.32	1222.54	3928.81	OK	10149.2	2315.79	942.385	2974.22	OK	0.536455	0.92914	0.646834	1.450404	1.904141	1.565728
RSc3039	***nusG***	transcription antitermination protein NusG	4343.39	661.256	259.145	1060.58	OK	7018.65	1078.23	404.24	1743.23	OK	6313.29	886.584	439.183	1316.03	OK	5908.22	870.064	409.969	1258.36	OK	0.705384	0.423048	0.395913	1.630579	1.340758	1.315775
RSc3040	***secE***	preprotein translocase subunit SecE	1496.81	438.936	136.239	576.059	OK	2040.55	608.501	187.287	778.728	OK	1128.17	288.535	122.894	389.027	OK	1247.46	348.358	135.234	430.547	OK	0.471249	-0.60526	-0.33344	1.386309	-1.52126	-1.26001
RSc3042		hypothetical protein	75.0434	62.9936	12.5456	44.8855	OK	76.3597	66.322	12.8244	46.0007	OK	58.9092	37.6409	10.4511	30.8032	OK	94.2849	73.9711	17.0518	50.3302	OK	0.074282	-0.7429	0.231756	1.052837	-1.67354	1.174264
RSc3043		hypothetical protein	1287.91	119.169	51.1905	186.898	OK	492.198	45.7926	21.3169	70.2556	OK	367.905	32.2215	18.4375	45.3162	OK	461.452	41.6187	22.8803	60.3476	OK	-1.37982	-1.88691	-1.51771	-2.60236	-3.69843	-2.86335
RSc3044	***glpR***	glycerol-3-phosphate regulon repressor transcription regulato	968.466	99.9512	43.0979	156.742	OK	1336.76	138.805	58.092	219.586	OK	1071.48	104.182	56.0145	151.716	OK	1911.08	191.985	100.632	281.204	OK	0.473764	0.05981	0.941698	1.388728	1.042329	1.920787
RSc3045	***glpD***	glycerol-3-phosphate dehydrogenase	2052.54	93.351	41.7096	144.8	OK	1688.19	76.9867	34.2003	119.742	OK	2065.16	90.7724	51.5741	129.962	OK	2932.81	130.809	73.4358	187.978	OK	-0.27806	-0.04041	0.486724	-1.21256	-1.02841	1.40126
RSc3046		putative sugar-phosphate ATP-binding ABC transporter protein	887.338	59.7127	8.28753	111.018	OK	613.638	41.4588	4.66173	78.2135	OK	1077.04	69.3692	15.67	122.919	OK	1076.12	70.8167	24.2431	117.355	OK	-0.52636	0.216257	0.246052	-1.44029	1.161716	1.185957
RSc3047		ABC transporter ATP-binding protein	942.099	64.8202	10.2643	119.417	OK	746.117	51.545	9.09121	93.8448	OK	1272.66	83.7518	24.996	142.454	OK	947.382	63.7312	19.1521	108.258	OK	-0.33061	0.369677	-0.02444	-1.25755	1.292063	-1.01709
RSc3048		sugar-phosphate transmembrane ABC transporter protein	653.08	57.6937	4.26449	110.949	OK	476.558	42.32	2.4575	82.254	OK	1165.96	97.6725	27.8084	167.492	OK	660.901	56.9396	12.8347	101.037	OK	-0.44707	0.759539	-0.01898	-1.36327	1.692949	-1.01324
RSc3049		transmembrane ABC transporter protein	309.301	29.7744	0	85.6747	OK	259.439	25.1171	0	71.9322	OK	678.012	61.6767	2.18321	131.265	OK	328.184	30.7789	0.187571	75.1221	OK	-0.2454	1.050653	0.047869	-1.18542	2.071467	1.033737
RSc3050		hypothetical protein	35.4935	18.5261	4.56745	18.0414	OK	33.1199	17.7417	4.33907	16.2144	OK	125.599	53.3343	18.9243	53.1683	OK	61.6478	30.2421	9.01157	26.8094	OK	-0.06241	1.525504	0.706999	-1.04421	2.878874	1.632405
RSc3051		putative signal peptide protein	4687.17	190.928	84.427	297.286	OK	1695.55	69.2333	30.741	107.741	OK	9463.27	373.333	204.045	542.734	OK	3171.24	126.76	71.7692	181.738	OK	-1.46349	0.967434	-0.59093	-2.75775	1.95536	-1.50622
RSc3052	***glpK***	ATP:glycerol 3-phosphotransferase protein	2120.48	102.293	45.9454	158.615	OK	1347.8	65.2034	28.6513	101.484	OK	2244.11	104.494	59.1604	149.344	OK	1972.73	93.2927	52.1579	133.641	OK	-0.64969	0.030713	-0.13287	-1.56883	1.021517	-1.09647
RSc3053		putative signal peptide protein	350.879	107.236	36.3554	133.303	OK	250.239	77.8176	25.9681	93.3122	OK	344.563	91.436	40.1342	108.96	OK	225.74	65.6276	26.3007	71.7292	OK	-0.46262	-0.22996	-0.70841	-1.37804	-1.1728	-1.63401
RSc3054		hypothetical protein	872.126	120.785	26.1918	215.286	OK	879.517	122.811	24.9592	220.627	OK	577.977	74.271	19.252	129.292	OK	737.054	98.9116	34.0456	163.642	OK	0.023998	-0.70157	-0.28823	1.016774	-1.62627	-1.22114
RSc3055		hypothetical protein	968.466	247.175	53.6675	439.14	OK	1138.96	295.032	66.4232	522.519	OK	1104.83	249.433	91.3075	393.62	OK	904.773	220.701	71.5114	343.285	OK	0.255339	0.01312	-0.16344	1.193616	1.009135	-1.11995
RSc3056		hypothetical protein	501.98	407.369	1.62305	946.239	OK	588.798	494.114	13.4271	1123.68	OK	660.228	409.857	73.873	748.041	OK	449.667	341.137	12.897	669.883	OK	0.278508	0.008784	-0.25598	1.21294	1.006107	-1.19415
RSc3057	***mdoD***	glucan biosynthesis protein D	2577.84	121.891	55.3578	188.386	OK	2587.95	122.711	55.5691	189.653	OK	2477.52	113.124	64.1152	162.247	OK	2929.18	135.795	75.9544	195.472	OK	0.009673	-0.10769	0.155839	1.006727	-1.0775	1.114069
RSc3058	***manA***	mannose-6-phosphate isomerase protein	1492.76	89.7613	39.4867	139.614	OK	1512.47	91.2706	40.0613	141.964	OK	849.182	49.0274	27.8756	69.8178	OK	1054.36	62.0569	34.5244	89.5522	OK	0.024057	-0.87251	-0.5325	1.016815	-1.83084	-1.44644
RSc3059		sugar transporter transmembrane protein	3834.31	217.753	97.4462	338.006	OK	5253.18	299.334	131.436	467.305	OK	3752.41	204.913	114.171	294.863	OK	4907.35	272.906	150.495	395.602	OK	0.459064	-0.08768	0.325712	1.374649	-1.06266	1.253282
RSc3060		transporter transmembrane protein	1312.25	74.1311	32.7941	115.299	OK	2798.63	158.628	71.128	245.683	OK	1669.47	90.6991	50.8936	129.357	OK	2430.56	134.461	74.9497	193.425	OK	1.097497	0.291009	0.859037	2.139831	1.223496	1.813827
RSc3061		substrate-binding periplasmic (PBP) ABC transporter protein	6822.87	437.211	187.243	687.054	OK	5863.14	377.136	163.734	590.094	OK	4669.39	286.787	159.128	414.398	OK	5177.51	324.581	176.223	471.288	OK	-0.21324	-0.60835	-0.42975	-1.15929	-1.52451	-1.347
RSc3062		transcription regulator protein	579.051	57.8157	26.1754	89.1399	OK	537.278	53.9625	24.4197	83.2345	OK	540.186	50.8878	28.2625	72.6638	OK	521.287	50.6848	27.3965	73.7659	OK	-0.0995	-0.18414	-0.18991	-1.07141	-1.13614	-1.14069
RSc3063		transmembrane sensor histidine kinase transcription regulato	713.926	40.331	18.6476	61.9773	OK	667.918	37.858	17.5099	58.0697	OK	542.409	29.4681	17.3224	41.5737	OK	600.16	33.2015	19.1766	46.8436	OK	-0.09129	-0.45274	-0.28064	-1.06532	-1.36863	-1.21473
RSc3064		response regulator transcription regulator protein	22.3102	2.52067	1.05575	3.95908	OK	24.8399	2.82531	1.23171	4.39897	OK	21.1184	2.23837	1.0415	3.38488	OK	32.6371	3.58477	1.73584	5.38109	OK	0.164602	-0.17136	0.508073	1.120857	-1.12612	1.42215
RSc3065		hypothetical protein	43.6063	4.50042	2.04838	6.88255	OK	65.3198	6.78264	3.19547	10.2419	OK	50.0173	4.86327	2.58653	7.11295	OK	50.7688	5.10017	2.58653	7.59793	OK	0.591787	0.111867	0.180486	1.507113	1.080626	1.133265
RSc3066		hypothetical protein	14.1974	56.3871	3.00538	15.0269	OK	7.35997	31.0522	1.28802	8.15746	OK	22.2299	51.9594	5.50607	22.4478	OK	22.6646	83.1665	5.50607	23.2949	OK	-0.86067	-0.11798	0.560637	-1.81588	-1.08521	1.474921
RSc3067		hypothetical protein	538.487	59.5855	26.8337	92.2735	OK	1145.4	127.574	53.4944	200.993	OK	2370.82	246.354	131.504	359.5	OK	395.271	42.5332	22.885	61.8238	OK	1.098301	2.0477	-0.48637	2.141024	4.134462	-1.40092
RSc3068		hypothetical protein	1622.56	49.5468	21.6655	77.3889	OK	1674.39	51.2218	22.4028	79.9695	OK	1219.31	36.2255	20.8415	51.6142	OK	1496.77	44.9097	25.4854	64.2869	OK	0.047966	-0.45179	-0.14176	1.033806	-1.36773	-1.10325
RSc3069		putative transporter transmembrane protein	507.05	29.0261	14.0111	44.0849	OK	634.798	36.4621	17.2637	55.6441	OK	375.685	20.6755	12.2917	28.9274	OK	543.045	30.4394	17.623	43.1936	OK	0.329047	-0.48943	0.068589	1.256183	-1.40389	1.048691
RSc3070		glutathione S-transferase protein	1574.9	182.746	75.6285	289.31	OK	545.558	63.7407	28.0239	99.341	OK	474.608	51.5956	28.0886	74.6961	OK	438.788	49.4784	26.405	71.4177	OK	-1.51955	-1.82452	-1.88497	-2.86702	-3.54189	-3.69345
RSc3071		hypothetical protein	1192.58	290.632	97.9621	409.687	OK	1302.72	322.019	106.277	448.086	OK	922.541	199.761	90.5251	282.909	OK	1135.05	264.688	110.36	350.169	OK	0.147952	-0.54092	-0.1349	1.107996	-1.4549	-1.09802
RSc3072		hypothetical protein	2589	630.939	214.67	877.879	OK	2864.87	708.169	238.253	969.189	OK	3674.6	795.674	355.538	1151.62	OK	3282.75	765.523	318.553	1025.16	OK	0.166593	0.334677	0.278945	1.122405	1.261095	1.213307
RSc3073		hypothetical protein	15.2115	12.769	2.23034	10.0365	OK	66.2398	57.5323	11.1517	38.7521	OK	57.7977	36.9307	10.4511	30.5282	OK	25.3844	19.9153	4.12543	14.5765	OK	2.171727	1.532175	0.641232	4.505623	2.892216	1.55966
RSc3074		hypothetical protein	3.0423	6.28416	0.370121	5.18169	OK	64.3998	139.72	14.0646	49.5962	OK	45.5713	62.2025	10.5886	37.9729	OK	19.0383	36.6713	3.65124	16.0655	OK	4.474675	3.307181	2.54486	22.23368	9.8983	5.835513
RSc3075		probable signal peptide protein	941.764	89.8519	13.0033	166.658	OK	682.093	65.4453	5.2321	125.724	OK	673.264	60.7231	14.8772	106.493	OK	831.347	77.2837	19.735	134.729	OK	-0.45726	-0.5653	-0.21738	-1.37293	-1.4797	-1.16262
RSc3076		hypothetical protein	778.15	141.547	16.8491	265.592	OK	651.902	119.865	12.2312	227.4	OK	797.244	132.107	39.2763	224.577	OK	732.513	128.41	30.1652	226.054	OK	-0.23987	-0.09957	-0.14052	-1.18089	-1.07146	-1.10231
RSc3077		hypothetical protein	1541.43	97.6098	11.145	186.616	OK	1604.47	101.983	20.0218	184.074	OK	1302.67	79.0908	29.8107	128.35	OK	1700.76	105.374	38.7231	172.302	OK	0.063231	-0.30352	0.110421	1.044803	-1.23415	1.079543
RSc3078		response regulator transcription regulator protein	49.6909	6.31185	2.88794	9.62646	OK	50.5998	6.47579	2.88794	9.81898	OK	70.0242	8.29366	4.27343	12.2505	OK	62.5544	7.71065	3.89357	11.4908	OK	0.036993	0.393946	0.28879	1.025973	1.313982	1.221615
RSc3079		composite two component sensor histidine kinase and response regulator hybrid transcription regulator protein	585.136	13.3487	6.25671	20.4314	OK	643.998	14.7112	6.79608	22.6105	OK	442.375	9.85302	5.9807	13.7066	OK	472.331	10.5982	6.38508	14.7921	OK	0.140216	-0.43806	-0.33288	1.10207	-1.35478	-1.25953
RSc3080		transcription regulator protein	1804.08	190.778	80.5221	300.538	OK	2190.51	233.095	98.3138	367.361	OK	2684.26	267.128	142.307	391.078	OK	2475.89	254.767	133.079	376.328	OK	0.289023	0.485636	0.417284	1.221813	1.400203	1.335411
RSc3081		putative lipoprotein	230.738	32.5866	6.21403	59.0333	OK	119.847	17.0679	3.27552	30.7614	OK	71.0476	9.29901	2.87945	15.837	OK	128.699	17.6059	7.38716	27.907	OK	-0.93299	-1.80913	-0.88822	-1.90923	-3.50431	-1.85089
RSc3082		hypothetical protein	274.284	31.3191	8.44969	54.2379	OK	176.392	20.2778	6.4377	34.0278	OK	157.92	16.9074	8.77918	24.9457	OK	142.37	15.8015	7.10328	24.5285	OK	-0.62714	-0.88939	-0.98698	-1.5445	-1.85239	-1.98203
RSc3083		putative signal peptide protein	260.624	66.5174	24.267	87.4236	OK	141.679	36.7003	13.2224	45.8896	OK	110.038	24.843	11.2024	32.9935	OK	110.603	26.9795	11.3559	33.1469	OK	-0.85794	-1.42089	-1.30187	-1.81245	-2.67751	-2.46548
RSc3084		hypothetical protein	6300.6	561.22	234.099	887.133	OK	4135.38	370.3	159.729	580.991	OK	2191.87	185.077	101.076	268.986	OK	3709.75	322.233	171.14	470.995	OK	-0.59987	-1.60044	-0.80046	-1.51558	-3.03236	-1.74166
RSc3085		hypothetical protein	265.694	95.9697	30.2058	108.855	OK	254.839	93.8991	29.0659	108.095	OK	148.94	45.838	18.9283	52.4745	OK	253.844	86.8509	32.6091	88.0822	OK	-0.03147	-1.06603	-0.14404	-1.02205	-2.09367	-1.10499
RSc3086	***hpiS***	high iron-sulfur signal peptide protein	3792.73	1606.35	427.895	1754.1	OK	3150.07	1364.46	357.508	1453.77	OK	504.619	178.623	69.0295	205.052	OK	3177.58	1270.09	420.693	1355.14	OK	-0.23546	-3.1688	-0.33886	-1.17728	-8.99296	-1.26475
RSc3087	***kdpE***	response regulator transcription regulator protein	2036.31	241.509	99.9357	382.843	OK	1956.83	233.716	96.1904	371.059	OK	2285.23	253.64	134.633	371.998	OK	1882.98	216.949	110.752	318.379	OK	-0.04732	0.070705	-0.15472	-1.03334	1.05023	-1.11321
RSc3088		putative signal peptide protein	6697.12	544.568	226.821	861.178	OK	5434.42	444.022	189.153	695.382	OK	5796.45	448.327	240.741	653.43	OK	3637.22	288.699	154.9	421.28	OK	-0.29448	-0.28056	-0.91555	-1.22644	-1.21467	-1.88628
RSc3091		outer membrane porin signal peptide protein	180979	12028	4364.69	19636.5	OK	45495.7	3035.58	1062.53	5006.54	OK	25238.7	1606.02	784.792	2423.64	OK	22642	1471.72	726.709	2216.87	OK	-1.98635	-2.90484	-3.03082	-3.96234	-7.48932	-8.17275
RSc3092		putative signal peptide protein	105.466	56.341	14.5422	52.1671	OK	50.5998	27.7526	6.92484	24.2369	OK	106.703	46.2309	16.3953	47.3641	OK	86.1257	43.2245	12.9796	38.0279	OK	-1.02156	-0.28533	-0.38234	-2.03012	-1.21869	-1.30345
RSc3093		glutamate carboxypeptidase	850.83	47.6884	21.9091	73.4397	OK	2639.47	148.431	67.0045	229.898	OK	2993.26	161.376	90.3787	232.028	OK	2558.39	140.432	78.312	202.371	OK	1.638082	1.758716	1.558161	3.112518	3.383968	2.944783

RSc3094		hypothetical protein	5245.94	533.713	221.637	843.45	OK	3994.63	408.859	172.708	644.253	OK	4237.02	406.376	215.768	597.197	OK	5201.08	515.163	265.394	762.939	OK	-0.38446	-0.39325	-0.05104	-1.30537	-1.31335	-1.03601
RSc3095		putative serine-rich protein	551.67	51.9413	23.7507	80.0826	OK	1086.52	102.869	44.4565	160.926	OK	494.615	44.0476	24.7818	63.081	OK	561.177	51.49	28.1612	74.8712	OK	0.985854	-0.23782	-0.01259	1.980486	-1.17921	-1.00876
RSc3096	***kefC***	glutathione-regulated potassium-efflux system protein KefC	1009.03	37.4106	16.5835	58.0931	OK	1582.39	58.7971	25.9774	91.4976	OK	1271.55	45.7334	26.2289	65.2044	OK	1679.9	61.147	34.7266	87.519	OK	0.652298	0.289801	0.708835	1.57167	1.222472	1.634483
RSc3097		putative NAD(P)H oxidoreductase (NAD(P)H dehydrogenase (quinone)) oxidoreductase protein	298.145	49.6118	20.9978	76.1316	OK	360.639	60.605	25.1035	93.0236	OK	484.612	73.9383	37.7255	103.687	OK	372.607	59.867	29.3935	85.7503	OK	0.288754	0.575639	0.271078	1.221584	1.490337	1.206709
RSc3098		hypothetical protein	1551.57	187.119	76.7075	296.929	OK	1899.79	230.755	94.4733	366.327	OK	3524.55	397.442	207.117	586.481	OK	1944.63	227.769	115.653	333.541	OK	0.302406	1.086788	0.283615	1.233199	2.124007	1.217241
RSc3099		putative signal peptide protein	182.538	35.9418	14.6186	51.2311	OK	379.959	75.6888	29.7641	110.232	OK	246.752	43.9854	21.9567	59.2442	OK	335.437	63.5355	29.6221	85.6182	OK	1.074417	0.291362	0.8219	2.105871	1.223795	1.767733
RSc3100		hypothetical protein	285.976	78.5496	27.8095	101.155	OK	1184.04	330.412	104.733	437.471	OK	690.238	166.481	73.1576	224.767	OK	925.624	242.526	97.7039	301.294	OK	2.07259	1.083682	1.626464	4.206412	2.119438	3.087552
RSc3101		putative serine protease protein	4480.29	157.411	69.4046	245.466	OK	32969	1160.74	400.577	1921.18	OK	14759.5	503.488	266.228	740.597	OK	28532.1	984.4	471.535	1496.29	OK	2.882437	1.677421	2.644708	7.373945	3.198557	6.253693
RSc3102		transcription regulator protein	944.127	185.899	68.7471	280.783	OK	1304.56	259.871	92.9797	390.884	OK	1540.53	274.612	130.181	417.048	OK	1624.6	307.718	137.587	439.005	OK	0.483277	0.562876	0.72709	1.397915	1.477211	1.655297
RSc3103		4-hydroxyphenylpyruvate dioxygenase oxidoreductase protein	5259.12	359.544	157.269	560.767	OK	7067.41	485.125	205.511	763.012	OK	3092.18	202.234	112.216	292.107	OK	8018.75	536.023	286.986	783.902	OK	0.432188	-0.83014	0.576127	1.349279	-1.77786	1.490841
RSc3104		putative calcium binding signal peptide protein	12389.3	1886.19	671.862	3069.23	OK	10882.6	1671.83	599.535	2743.26	OK	10522.5	1477.69	720.133	2226.32	OK	14209.8	2092.59	959.381	3125.97	OK	-0.17405	-0.35213	0.149815	-1.12822	-1.27644	1.109427
RSc3105	***gspC***	putative general secretion pathway related transmembrane	1304.13	159.974	65.7134	253.761	OK	1255.8	155.167	63.2761	246.73	OK	1070.37	122.659	64.6413	180.145	OK	740.681	88.2177	45.2212	128.913	OK	-0.04402	-0.38318	-0.8587	-1.03098	-1.30422	-1.8134
RSc3106	***gspG***	putative general secretion pathway G transmembrane protein	1370.05	285.443	100.909	426.742	OK	1268.68	267.587	93.7985	394.61	OK	2680.93	503.315	236.456	752.802	OK	1254.71	251.132	110.067	350.031	OK	-0.09319	0.818259	-0.18476	-1.06673	1.763277	-1.13663
RSc3107	***gspH***	general secretory pathway H transmembrane protein	1084.07	207.746	54.0554	360.671	OK	1100.32	213.26	55.7366	370.758	OK	739.144	128.513	50.5191	206.286	OK	610.132	112.546	38.272	185.237	OK	0.037793	-0.69291	-0.88431	1.026542	-1.61654	-1.84588
RSc3108	***gspI***	general secretory pathway I transmembrane protein	323.498	84.5617	3.94614	165.106	OK	293.479	77.8863	2.84122	152.637	OK	238.971	55.1272	9.03145	101.059	OK	244.778	61.1151	9.4986	112.582	OK	-0.11863	-0.61724	-0.46848	-1.08571	-1.53394	-1.38365
RSc3109	***gspJ***	general secretory pathway J transmembrane protein	744.349	85.448	2.06632	173.227	OK	738.757	85.3839	3.23618	178.452	OK	565.751	60.8788	14.9574	106.854	OK	756.093	84.3599	29.2323	139.355	OK	-0.00108	-0.48911	-0.01849	-1.00075	-1.40358	-1.0129
RSc3110	***gspK***	general secretory pathway K transmembrane protein	1113.48	79.943	35.454	124.363	OK	1061.68	76.5476	34.1769	118.829	OK	872.523	59.8366	33.5956	85.9686	OK	992.712	69.6571	38.2749	100.787	OK	-0.06261	-0.41794	-0.1987	-1.04436	-1.33602	-1.14766
RSc3111	***gspL***	general secretory pathway L transmembrane protein	2344.6	118.986	53.6	184.157	OK	2932.95	149.291	67.6413	230.961	OK	1582.77	77.4458	43.6419	110.858	OK	1577.46	78.4542	43.7751	113.123	OK	0.327335	-0.61953	-0.60087	1.254694	-1.53638	-1.51663
RSc3112	***gspM***	general secretory pathway M transmembrane protein	1064.81	164.442	64.7347	260.83	OK	1219.92	190.128	73.5217	305.432	OK	943.659	134.3	67.9207	192.021	OK	638.236	95.3145	46.4143	141.657	OK	0.209392	-0.29212	-0.78681	1.156201	-1.22444	-1.72526
RSc3113	***gspN***	general secretory pathway N transmembrane protein	1135.79	106.008	45.6552	165.689	OK	1385.51	130.031	55.3304	204.692	OK	726.918	64.1952	35.5687	92.2401	OK	700.791	63.7477	34.3757	92.8367	OK	0.294682	-0.72364	-0.73373	1.226615	-1.65134	-1.66293
RSc3114	***gspD***	general secretory pathway D transmembrane protein	7776.12	221.981	51.59	392.345	OK	10661.8	304.871	72.7907	536.648	OK	8951.98	248.855	104.257	393.696	OK	7604.44	213.354	93.5896	333.291	OK	0.457763	0.164869	-0.05719	1.37341	1.121064	-1.04044
RSc3115	***gspE***	general secretion pathway protein E	4497.53	201.142	1.34168	428.354	OK	5575.18	249.996	4.03569	552.754	OK	5205.13	225.051	44.9225	405.686	OK	4297.22	188.488	40.4415	336.954	OK	0.313691	0.162038	-0.09374	1.242883	1.118866	-1.06713
RSc3116	***gspF***	general secretory pathway F transmembrane protein	1519.12	93.1737	40.968	145.062	OK	1754.43	107.997	47.4506	168.442	OK	1671.69	98.3923	55.2494	141.426	OK	1547.54	92.8916	51.0559	133.878	OK	0.212997	0.078623	-0.00437	1.159093	1.056009	-1.00304
RSc3117		hypothetical protein	1176.36	67.5206	29.9936	105.028	OK	991.756	57.1182	25.7303	88.426	OK	624.66	34.4672	20.0887	48.7867	OK	735.241	41.322	23.4533	59.0784	OK	-0.24138	-0.9701	-0.70842	-1.18212	-1.95898	-1.63401
RSc3118		putative transmembrane protein	1664.14	90.9004	40.3887	141.048	OK	1825.27	100.024	44.5188	155.312	OK	1153.73	60.6572	34.1583	86.746	OK	1408.83	75.3785	42.0701	108.586	OK	0.137988	-0.58361	-0.27013	1.100369	-1.49859	-1.20592
RSc3119		transcription regulator protein	1535.35	75.7682	33.5833	117.959	OK	1242.92	61.5159	27.2618	95.6576	OK	1014.79	48.3149	27.4567	69.1182	OK	1156.8	55.9561	31.5276	80.1182	OK	-0.30063	-0.64912	-0.4373	-1.23168	-1.56822	-1.35407
RSc3120		hypothetical protein	6219.48	767.31	306.375	1227.01	OK	63.4798	7.88902	3.57783	12.0516	OK	60.0207	6.91547	3.62242	10.0313	OK	60.7413	7.27542	3.62242	10.7744	OK	-6.60382	-6.79384	-6.72064	-97.263	-110.956	-105.466
RSc3121		hypothetical protein	748.406	628.234	117.093	466.419	OK	11.96	10.3878	1.67275	7.80618	OK	20.0069	12.7837	3.02531	12.3763	OK	22.6646	17.7815	3.57537	15.1266	OK	-5.91834	-5.61892	-5.14285	-60.4781	-49.1434	-35.3308
RSc3122		indolepyruvate ferredoxin oxidoreductase	11160.2	211.265	80.6097	342.171	OK	5151.98	97.6375	41.4342	154.027	OK	2401.94	44.4713	25.5624	63.3355	OK	6978.9	130.008	72.195	187.76	OK	-1.11355	-2.24811	-0.70045	-2.16377	-4.75059	-1.62502
RSc3125	***sbcB***	exonuclease I	1602.28	78.8898	35.1358	122.493	OK	1901.63	93.9014	41.7511	145.669	OK	1169.29	55.5457	31.5065	79.5225	OK	1732.49	83.6116	46.9788	120.062	OK	0.251308	-0.50616	0.083864	1.190286	-1.42027	1.059853
RSc3126	***eutC***	ethanolamine ammonia-lyase small subunit	626.714	61.9979	27.8833	95.9282	OK	498.638	49.6173	22.6552	76.5207	OK	441.263	41.2023	23.1308	57.9833	OK	623.731	60.0936	32.3519	87.1313	OK	-0.32138	-0.58949	-0.04501	-1.24952	-1.50472	-1.03169
RSc3127	***eutB***	putative ethanolamine ammonia-lyase heavy chain protein	1904.48	99.4727	44.2728	154.747	OK	1697.39	88.9302	39.4716	138.22	OK	1792.84	90.2264	50.9619	129.386	OK	2482.23	127.033	71.2283	182.579	OK	-0.16163	-0.14075	0.352831	-1.11855	-1.10248	1.277064
RSc3128	***exaC***	putative NAD+ dependent acetaldehyde dehydrogenase oxidoreductase protein	7668.62	363.403	152.979	573.85	OK	1409.43	66.9779	29.7659	104.075	OK	2380.82	108.943	61.7773	156.093	OK	1300.04	60.4015	33.9169	86.8808	OK	-2.43981	-1.738	-2.58891	-5.42572	-3.33572	-6.01646
RSc3129		transcription regulator protein	3910.37	143.739	63.9636	223.385	OK	2068.15	76.1871	33.9165	118.506	OK	2725.39	97.1976	55.4989	138.814	OK	3436.87	124.033	70.5021	177.649	OK	-0.91583	-0.56446	-0.21273	-1.88666	-1.47883	-1.15888
RSc3130	***adhA***	putative propanol-preferring alcohol dehydrogenase oxidoreductase protein	31465.5	2345.37	832.442	3850.56	OK	19167.2	1434.99	534.29	2335.51	OK	11963	850.713	451.594	1250.57	OK	35835.5	2609.64	1193.23	4025.96	OK	-0.70877	-1.46307	0.154035	-1.63442	-2.75695	1.112677
RSc3131	***ldhA***	D-lactate dehydrogenase	6988.16	519.079	219.927	817.686	OK	4421.5	329.873	145.137	514.394	OK	2168.53	153.692	85.141	222.083	OK	6713.27	487.203	260.856	711.566	OK	-0.65404	-1.75591	-0.09143	-1.57357	-3.3774	-1.06543
RSc3132		putative transcription regulator protein	932.972	128.384	52.7475	203.119	OK	839.957	116.529	47.8407	183.185	OK	435.706	55.6512	29.7489	80.7759	OK	944.662	125.974	62.4223	176.678	OK	-0.13978	-1.20598	-0.02734	-1.10173	-2.30694	-1.01913
RSc3133		putative antibiotic resistance (acetyltransferase) protein	1500.87	249.747	94.5486	400.835	OK	1089.28	183.052	69.7971	289.98	OK	571.308	87.1658	43.9745	123.36	OK	1300.95	209.025	97.6697	311.872	OK	-0.44821	-1.51863	-0.25679	-1.36435	-2.86519	-1.19482
RSc3134		putative MSF transporter transmembrane protein	893.422	53.1274	24.1051	81.8849	OK	792.117	47.269	21.5187	72.574	OK	459.047	26.2171	15.3598	37.0473	OK	778.757	45.3317	25.8719	64.8073	OK	-0.16856	-1.01895	-0.22894	-1.12394	-2.02644	-1.17197
RSc3135		hypothetical protein	12972.4	1205.52	457.887	1944.61	OK	9236.77	863.101	341.363	1377.35	OK	12607.7	1108.78	573.122	1644.02	OK	15588.7	1411.97	701.894	2119.13	OK	-0.48205	-0.12068	0.228054	-1.39673	-1.08725	1.171254
RSc3136		putative methyl-accepting chemotaxis transmembrane protein	834.604	29.4677	13.425	45.5282	OK	2470.19	87.3981	39.3021	135.514	OK	851.405	29.1848	17.0185	41.3307	OK	1046.2	36.2728	20.7613	51.7274	OK	1.568467	-0.01392	0.299754	2.965895	-1.00969	1.230934
RSc3137		hypothetical protein	1920.71	44.24	19.0939	69.2561	OK	2283.43	52.6663	22.991	82.2756	OK	1222.64	27.4922	15.8507	39.1542	OK	1632.76	36.9888	21.2631	52.6423	OK	0.251529	-0.68633	-0.25826	1.190468	-1.60918	-1.19604
RSc3138		oxidoreductase protein	1342.67	137.908	57.7079	216.874	OK	436.998	45.1584	20.7324	69.0535	OK	524.626	50.7772	28.0215	73.4358	OK	514.034	51.3954	27.8605	74.6436	OK	-1.61064	-1.44145	-1.424	-3.05387	-2.71594	-2.68328
RSc3139		putative transcription regulator protein	1378.16	279.025	99.6874	420.887	OK	1926.47	394.724	139.938	584.573	OK	2349.7	429.703	203.831	646.831	OK	3852.99	749.919	330.232	1071.43	OK	0.50045	0.622945	1.42634	1.414655	1.540016	2.687641
RSc3140		putative serine protease protein	1620.53	138.046	59.7709	214.951	OK	1989.95	170.371	73.8717	266.794	OK	1474.95	119.31	64.6389	173.57	OK	2106.91	175.108	94.1209	255.303	OK	0.303531	-0.21043	0.343096	1.234161	-1.15704	1.268476
RSc3141		putative lipoprotein transmembrane	1956.2	320.547	122.768	513.583	OK	2133.47	353.004	134.604	558.142	OK	1596.11	240.063	119.165	353.03	OK	1714.35	271.329	128.208	407.861	OK	0.139149	-0.41712	-0.24049	1.101255	-1.33526	-1.1814
RSc3142		putative transport transmembrane protein	672.348	98.8562	40.7873	153.06	OK	486.678	72.1827	30.4831	112.487	OK	407.919	55.4462	29.1186	80.4734	OK	555.737	79.0898	39.4955	117.851	OK	-0.45368	-0.83424	-0.32184	-1.36953	-1.78292	-1.24992
RSc3143		hypothetical protein	3654.82	193.245	86.6613	299.185	OK	1990.87	105.595	47.1807	163.476	OK	2291.9	116.729	65.8335	167.576	OK	2450.5	126.943	71.2198	182.676	OK	-0.87189	-0.72727	-0.60625	-1.83006	-1.6555	-1.5223
RSc3144		hypothetical protein	3226.87	279.317	122.049	434.529	OK	363.399	31.6171	15.2117	47.9098	OK	386.8	31.7739	18.3021	45.1593	OK	334.53	28.2467	15.8478	40.5312	OK	-3.14313	-3.13599	-3.30575	-8.83436	-8.79077	-9.88848
RSc3145	***tISRso9***	ISRSO9-transposase protein	1148.98	319.645	102.583	427.537	OK	64.3998	18.2052	6.22707	21.9586	OK	84.4736	20.6092	9.05285	26.5119	OK	67.0874	17.7976	7.11295	21.0155	OK	-4.13405	-3.95511	-4.16672	-17.5579	-15.5098	-17.96
RSc3146		hypothetical protein	247.44	16.1452	7.1183	25.0542	OK	133.4	8.73778	3.81137	13.564	OK	122.264	7.6423	4.14697	11.1139	OK	138.708	8.85291	4.97637	12.7727	OK	-0.88577	-1.07903	-0.86688	-1.84775	-2.11261	-1.82372
RSc3147		hypothetical protein	87.2126	19.9039	1.14111	40.3954	OK	60.7198	14.0443	1.85038	26.5992	OK	58.9092	12.0185	3.67231	20.4017	OK	44.4227	9.71755	2.18752	17.2814	OK	-0.50307	-0.72779	-1.03439	-1.41722	-1.65611	-2.04824
RSc3148		hypothetical protein	112.565	40.0007	12.8049	43.4989	OK	105.8	38.3425	11.8633	42.7457	OK	135.602	41.1359	17.0904	47.37	OK	145.054	48.8452	18.3907	52.1999	OK	-0.06108	0.040373	0.288192	-1.04325	1.02838	1.221109
RSc3149		putative transcription regulator protein	739.279	176.181	62.0158	246.125	OK	935.637	226.105	77.2216	314.7	OK	496.838	105.426	48.8252	146.181	OK	662.714	151.214	64.561	197.654	OK	0.359935	-0.74083	-0.22047	1.283368	-1.67113	-1.16511
RSc3150		putative transmembrane protein	25148.7	825.481	290.593	1360.33	OK	877.677	28.8648	13.0075	44.7229	OK	1152.62	36.772	21.1772	52.3149	OK	991.805	31.9785	18.4254	45.4652	OK	-4.83785	-4.48856	-4.69006	-28.5982	-22.4486	-25.8136
RSc3151		L-Phenylalanine oxidase	2527.14	243.272	0.85248	499.863	OK	504.158	48.8091	12.9422	84.7055	OK	574.643	52.2735	24.1588	80.2746	OK	631.89	59.2621	26.3759	92.1246	OK	-2.31735	-2.21842	-2.03739	-4.98415	-4.65383	-4.10502
RSc3152		hypothetical protein	9641.05	467.186	120.031	814.095	OK	581.438	28.2561	4.90828	51.8528	OK	461.27	21.5733	7.6234	35.4979	OK	586.561	27.8636	10.5457	45.2706	OK	-4.04736	-4.43668	-4.06754	-16.534	-21.6558	-16.7669
RSc3153		hypothetical protein	2124.54	202.698	87.2529	317.773	OK	2121.51	203.554	87.176	319.774	OK	2155.19	194.381	105.051	283.653	OK	2342.62	217.774	115.374	319.783	OK	0.00608	-0.06044	0.1035	1.004223	-1.04279	1.074377
RSc3154		signal peptide protein	1335.57	73.5142	32.2972	114.056	OK	3208.03	177.155	79.8727	273.221	OK	5959.84	315.689	173.567	457.742	OK	3141.32	169.357	94.4389	244.301	OK	1.268917	2.102409	1.203973	2.409807	4.294259	2.303732
RSc3155		putative antibiotic hydrolase signal peptide protein	413.753	473.053	75.6012	275.96	OK	404.799	481.378	74.3567	287.782	OK	656.893	545.808	133.202	409.119	OK	401.618	428.666	83.4811	244.612	OK	0.025168	0.206392	-0.14215	1.017598	1.153799	-1.10355
RSc3156	***cspC***	cold shock-like transcription regulator protein	1712.81	2047.16	291.699	1227.41	OK	1611.83	2005.22	274.336	1157.64	OK	1337.13	1153.51	270.009	862.971	OK	948.289	1058.01	193.709	608.533	OK	-0.02986	-0.82759	-0.95227	-1.02092	-1.77472	-1.93492
RSc3157		hypothetical protein	1628.64	155.386	66.1707	244.524	OK	2240.19	214.941	92.1773	337.47	OK	1653.9	149.169	80.3823	217.692	OK	2598.28	241.541	127.67	355.079	OK	0.468084	-0.05891	0.636412	1.383271	-1.04168	1.554458
RSc3158		putative transmembrane protein	583.108	33.6492	16.0751	51.1983	OK	912.637	52.845	24.037	81.5343	OK	485.723	26.9414	15.7586	37.8803	OK	597.44	33.7565	19.4373	48.0712	OK	0.651195	-0.32075	0.004593	1.570468	-1.24898	1.003189
RSc3159		hypothetical protein	1352.81	89.9089	39.1189	140.646	OK	1824.35	121.725	53.4682	189.673	OK	1147.06	72.9913	40.7254	105.268	OK	1868.47	121.45	66.6773	175.821	OK	0.43709	-0.30074	0.433827	1.35387	-1.23178	1.350812
RSc3160		two component sensor histidine kinase transcription regulator	314.371	11.7776	6.06006	17.4612	OK	653.198	24.5256	11.6408	37.4217	OK	317.888	11.5511	7.02529	16.0433	OK	427.002	15.7045	9.42335	21.954	OK	1.058243	-0.02802	0.415132	2.082394	-1.01961	1.333421
RSc3161		two component response regulator transcription regulator protein	597.305	72.0349	31.6453	112.332	OK	736.917	89.5085	38.215	139.998	OK	375.685	42.3638	23.3679	61.3409	OK	501.342	58.7208	30.6704	84.8001	OK	0.313329	-0.76586	-0.29482	1.242571	-1.70039	-1.22674
RSc3162		putative hemagglutinin-related protein	384.344	8.60343	4.28068	12.9056	OK	340.399	7.6298	3.85685	11.401	OK	392.358	8.57662	5.22636	11.937	OK	382.579	8.4237	5.14274	11.6861	OK	-0.17327	-0.0045	-0.03046	-1.12761	-1.00313	-1.02134
RSc3163		TPR domain protein	303.216	10.0605	3.21546	16.9041	OK	492.198	16.3627	5.35909	27.3467	OK	288.989	9.31784	3.56478	15.0446	OK	307.333	10.016	4.5315	15.4977	OK	0.701709	-0.11063	-0.0064	1.62643	-1.0797	-1.00444
RSc3164		hypothetical protein	265.694	17.0767	3.34215	30.8506	OK	322.919	20.8336	1.9355	40.1293	OK	469.051	28.8922	13.1202	44.658	OK	337.25	21.2052	8.99137	33.5133	OK	0.286883	0.758651	0.312389	1.220002	1.691908	1.241762
RSc3165		hypothetical protein	97.3536	8.46102	3.20935	13.6932	OK	77.2797	6.75099	2.71012	10.7692	OK	85.5851	7.05781	3.44745	10.6238	OK	67.0874	5.68733	2.67353	8.72416	OK	-0.32573	-0.26161	-0.57308	-1.2533	-1.19882	-1.4877
RSc3166	***cysC1***	adenylylsulfate kinase	96.3395	14.8781	4.32416	25.4816	OK	60.7198	9.46337	2.49365	16.5204	OK	75.5816	10.7567	4.5542	16.9359	OK	70.7137	10.5604	4.62955	16.5768	OK	-0.65276	-0.46795	-0.49453	-1.57218	-1.38315	-1.40886
RSc3167		hypothetical protein	1430.9	126.406	54.4987	197.612	OK	744.277	66.0943	29.4177	102.637	OK	673.566	56.4248	31.4449	81.2149	OK	913.839	78.7313	42.4257	113.658	OK	-0.93547	-1.16366	-0.68306	-1.91251	-2.24026	-1.60554
RSc3168	***tISRso13***	ISRSO13-transposase protein	54.7614	16.0586	7.62442	24.3395	OK	67.1598	20.0273	9.54253	30.4168	OK	93.3656	23.8788	13.2993	34.2713	OK	116.043	32.4054	18.71	46.0768	OK	0.318622	0.572384	1.012888	1.247139	1.486979	2.017947
RSc3169		putative transport, fragment transmembrane protein	202.82	45.3276	0.85868	89.732	OK	179.399	40.623	0.572453	80.5728	OK	265.647	53.1721	10.1651	96.1445	OK	253.844	54.4054	9.0356	99.674	OK	-0.15809	0.23028	0.26336	-1.11581	1.173062	1.200271
RSc3170		putative bacteriophage-related protein	176.453	9.26139	0	24.1098	OK	217.119	11.4312	0	27.3554	OK	244.529	12.3649	0.823304	23.8758	OK	279.228	14.3594	1.69235	27.0318	OK	0.303676	0.41695	0.632695	1.234286	1.335102	1.550458
RSc3171		putative site-specific integrase/resolvase protein	49.6909	14.976	0	39.1558	OK	30.3599	9.30835	0	26.6191	OK	42.2368	11.0696	0	26.9374	OK	38.9832	11.1802	0	26.4291	OK	-0.68605	-0.43605	-0.42171	-1.60888	-1.35289	-1.33951
RSc3172		putative bacteriophage-related protein	304.23	62.7768	5.02708	120.65	OK	204.239	42.6598	0.951069	84.2376	OK	170.059	31.6462	2.27856	61.119	OK	210.328	41.7032	4.82518	78.2752	OK	-0.55735	-0.9882	-0.59007	-1.47157	-1.98371	-1.50532
RSc3174		Type III effector protein	802.153	66.743	8.23727	125.556	OK	820.637	68.6175	10.8699	126.509	OK	860.297	68.0306	26.5702	109.681	OK	874.855	71.0377	26.471	115.547	OK	0.03996	0.027567	0.089968	1.028085	1.019292	1.064347
RSc3175		hypothetical protein	1524.19	193.606	78.4556	308.143	OK	863.877	110.559	46.207	174.624	OK	505.73	59.8987	32.1931	86.798	OK	664.527	81.9117	41.7846	118.421	OK	-0.80831	-1.69253	-1.24098	-1.75116	-3.23222	-2.36359
RSc3176		hypothetical protein	923.845	196.279	70.7718	289.181	OK	572.238	123.108	45.5654	174.644	OK	389.023	74.3533	36.0696	98.6448	OK	415.216	84.7066	38.3922	113.127	OK	-0.67298	-1.40044	-1.21236	-1.59436	-2.63982	-2.31716
RSc3177		hypothetical protein	869.084	368.087	99.9041	403.745	OK	358.799	155.415	43.9661	162.86	OK	268.982	95.2131	37.4674	101.203	OK	431.535	172.485	59.2554	175.119	OK	-1.24392	-1.95081	-1.09358	-2.36841	-3.86593	-2.13402

RSc3178		putative ATP binding protein	9466.62	458.734	186.681	729.964	OK	5181.42	251.801	110.747	391.978	OK	3954.7	184.959	104.054	265.802	OK	5977.12	283.933	156.208	411.613	OK	-0.86537	-1.31045	-0.69211	-1.82181	-2.48019	-1.61564
RSc3179		putative transposase protein	588.178	40.7301	10.5566	70.7703	OK	862.037	59.939	16.0413	103.796	OK	1184.85	78.4609	36.1292	120.605	OK	1064.33	72.0563	33.9184	110.191	OK	0.5574	0.945879	0.823029	1.471614	1.926362	1.769117
RSc3180		hypothetical protein	104.452	84.7658	0.825654	167.608	OK	171.119	143.602	2.47696	275.768	OK	228.968	142.139	11.1316	269.059	OK	190.383	144.433	8.95958	269.059	OK	0.760522	0.745748	0.768846	1.694103	1.676844	1.703907
RSc3181		putative signal peptide protein	499.951	47.0718	3.20119	91.7047	OK	683.557	64.718	2.65099	129.425	OK	706.911	62.9534	14.2487	111.585	OK	579.308	53.1537	11.1939	95.1485	OK	0.459304	0.419421	0.175307	1.374878	1.337391	1.129205
RSc3182		activation/secretion signal peptide protein	115.607	4.68252	2.42606	6.91061	OK	224.479	9.11398	4.66834	13.5271	OK	133.379	5.23267	3.15482	7.28873	OK	174.064	6.91848	4.20643	9.60952	OK	0.960796	0.160262	0.56317	1.946384	1.11749	1.477512
RSc3183		hemagglutinin-like signal peptide protein	235.271	6.36892	3.24413	9.47893	OK	435.158	11.7988	5.82929	17.7667	OK	208.961	5.51221	3.37535	7.62579	OK	303.706	8.08194	4.97552	11.2012	OK	0.889519	-0.20842	0.343653	1.852559	-1.15542	1.268966
RSc3188		putative hemagglutinin-related protein	1314.27	10.4572	4.38388	16.5371	OK	1770.07	14.0904	5.86598	22.3407	OK	1025.91	8.02345	4.58634	11.4505	OK	1305.48	10.2364	5.86374	14.6055	OK	0.430216	-0.3822	-0.03079	1.347435	-1.30333	-1.02157
RSc3189		hypothetical protein	59.8319	78.5173	11.7093	40.3319	OK	43.2398	59.155	8.13144	30.2489	OK	53.3517	49.8041	10.9095	33.0493	OK	61.6478	75.5115	12.8347	38.1831	OK	-0.40851	-0.65675	-0.05631	-1.32731	-1.57652	-1.03981
RSc3190		hypothetical protein	23.3243	8.71105	2.51415	9.86321	OK	8.27997	3.15618	0.773585	3.86793	OK	6.66897	2.11381	0.572357	3.24335	OK	5.43952	1.92276	0.381571	3.24335	OK	-1.46467	-2.043	-2.17967	-2.76	-4.12102	-4.53049
RSc3191		hypothetical protein	1.0141	0.323554	0	0.887066	OK	NA	NA	NA	0	OK	NA	NA	0	0	OK	0	0	0	0	OK	NA	NA	NA	NA	NA	NA
RSc3192		putative lysozyme (endolysin) protein	49.6909	10.6626	4.18188	15.7518	OK	43.2398	9.3962	3.6243	13.6608	OK	75.5816	14.5773	6.7382	21.8648	OK	55.3017	11.3916	4.95051	15.6766	OK	-0.18241	0.451164	0.095411	-1.13478	1.367143	1.06837
RSc3195		hypothetical protein	5.0705	2.47537	0	6.34649	OK	2.75999	1.38126	0	4.50413	OK	16.6724	6.68031	0.40068	13.2224	OK	3.62634	1.66588	0	5.05321	OK	-0.84166	1.432271	-0.57136	-1.79211	2.698712	-1.48592
RSc3198		hypothetical protein	4.0564	0.696578	0.119927	1.19927	OK	2.75999	0.478797	0	0.839491	OK	3.33448	0.523846	0	0.946467	OK	0.906586	0.150221	0	0.236617	OK	-0.54087	-0.41114	-2.2132	-1.45485	-1.32974	-4.63702
RSc3199	***tISRso1***	transposase	229.187	22.262	10.6945	33.6446	OK	328.439	32.0866	15.2221	48.4764	OK	298.992	27.4341	15.7096	39.1201	OK	326.371	30.8823	17.0958	44.5106	OK	0.527388	0.301387	0.472197	1.441317	1.232329	1.38722
RSc3200		hypothetical protein	1.0141	0.947665	0	1.74057	OK	NA	NA	NA	0	OK	1.11149	0.778213	0	1.43089	OK	0	0	0	0	OK	NA	-0.28421	NA	NA	-1.21775	NA
RSc3201		Short-chain dehydrogenase/reductase	17.2397	2.93698	1.07335	4.77044	OK	12.88	2.21649	0.715567	3.57783	OK	10.0035	1.55997	0.588256	2.47067	OK	13.5988	2.23582	0.823558	3.64718	OK	-0.40606	-0.91282	-0.39353	-1.32506	-1.88272	-1.3136
RSc3221	***tISRso1***	transposase	3050.41	288.47	93.8895	482.969	OK	1990.58	189.299	27.6734	354.524	OK	1850.64	165.503	76.042	254.955	OK	1770.56	163.163	68.2795	257.97	OK	-0.60775	-0.80156	-0.82211	-1.52389	-1.74299	-1.76799
RSc3222		putative VGR-related protein	1979.52	86.0208	3.12878	169.997	OK	1963.57	85.5465	12.2859	158.409	OK	1531.64	64.3822	22.1524	106.684	OK	1974.54	84.1685	31.9275	136.832	OK	-0.00798	-0.41802	-0.03141	-1.00554	-1.3361	-1.02201
RSc3223		hypothetical protein	562.826	213.827	63.4252	241.796	OK	505.998	196.258	57.3754	212.914	OK	760.262	244.631	96.4525	299.176	OK	882.108	317.056	111.662	348.846	OK	-0.12369	0.194163	0.568294	-1.08952	1.14406	1.482769
RSc3224		hypothetical protein	1014.1	464.789	100.466	690.164	OK	778.317	365.3	80.7159	518.213	OK	1021.46	387.39	133.416	533.03	OK	815.021	351.938	105.462	429.474	OK	-0.34749	-0.26279	-0.40125	-1.27235	-1.1998	-1.32066
RSc3225		hypothetical protein	572.967	337.531	12.9601	693.363	OK	377.199	228.521	12.1167	478.005	OK	436.817	205.96	41.4922	373.43	OK	407.057	224.937	57.4698	392.894	OK	-0.56269	-0.71266	-0.5855	-1.47702	-1.63882	-1.50056
RSc3226		hypothetical protein	35.4935	10.2696	3.35422	15.9325	OK	25.7599	7.57784	2.18024	10.9012	OK	33.3448	8.4264	3.30894	12.0776	OK	30.8239	8.49591	2.97804	11.2504	OK	-0.43852	-0.28539	-0.27354	-1.35521	-1.21874	-1.20877
RSc3227		hypothetical protein	7.0987	7.77504	0	17.5244	OK	12.88	14.6624	2.27678	27.3213	OK	7.78046	6.2339	0	12.8196	OK	8.15927	8.34353	0	16.3613	OK	0.915199	-0.31872	0.101808	1.88583	-1.24722	1.073117
RSc3228		putative bacteriophage-related protein	13.1833	2.80091	0.969477	4.1549	OK	12.88	2.77091	0.83098	4.1549	OK	8.89196	1.6995	0.546508	2.73254	OK	5.43952	1.10969	0.273254	1.91278	OK	-0.01554	-0.72079	-1.33574	-1.01083	-1.64808	-2.52405
RSc3229		hypothetical protein	27.3807	0.832549	0.28246	1.35581	OK	28.5199	0.868745	0.338953	1.38406	OK	37.7908	1.11805	0.52943	1.69975	OK	43.5161	1.30015	0.640889	1.95053	OK	0.061398	0.425378	0.643071	1.043476	1.342924	1.56165
RSc3230		hypothetical protein	4.0564	2.5176	0	4.93494	OK	1.83999	1.1755	0	2.22072	OK	4.44598	2.19278	0	4.38149	OK	8.15927	4.74685	0.243416	8.51956	OK	-1.09877	-0.19929	0.914921	-2.14173	-1.14813	1.885466
RSc3231		hypothetical protein	6.0846	0.656366	0	1.3576	OK	5.51998	0.59927	0	1.1879	OK	2.22299	0.225462	0	0.58593	OK	6.3461	0.665953	0	1.25557	OK	-0.13129	-1.54162	0.02092	-1.09528	-2.9112	1.014606
RSc3233		hypothetical protein	10.141	1.86042	0	3.85255	OK	10.12	1.87681	0	4.08004	OK	12.2264	2.04195	0.167011	4.00827	OK	7.25269	1.28201	0	3.00499	OK	0.012654	0.134319	-0.53722	1.00881	1.097575	-1.45117
RSc3234		hypothetical protein	11.1551	1.47817	0.530043	2.38519	OK	13.7999	1.84304	0.667771	2.93819	OK	21.1184	2.60318	1.23266	4.06777	OK	10.879	1.39794	0.513994	2.31297	OK	0.318275	0.816463	-0.08051	1.246839	1.761083	-1.05739
RSc3238		hypothetical protein	2.0282	1.22603	0.243943	2.19549	OK	0.919997	0.572186	0	0.975773	OK	1.11149	0.535869	0	1.20325	OK	2.71976	1.54164	0	2.8878	OK	-1.09944	-1.19404	0.330472	-2.14271	-2.28793	1.257424
RSc3239		putative excisionase protein	182.538	39.1686	15.473	54.2251	OK	254.839	55.3776	21.3276	79.3164	OK	191.177	36.8721	18.0144	49.3676	OK	265.63	54.717	24.8901	67.657	OK	0.499605	-0.08717	0.482292	1.413826	-1.06228	1.396961
RSc3240		hypothetical protein	343.78	10.6646	5.43869	15.9132	OK	579.598	18.013	8.57529	27.4237	OK	278.985	8.41852	5.19494	11.6389	OK	367.167	11.191	6.84143	15.5281	OK	0.756209	-0.34119	0.069509	1.689046	-1.2668	1.04936
RSc3246		putative bacteriophage-related protein	7.0987	1.58647	0	3.86406	OK	10.12	2.29156	0	4.57963	OK	2.22299	0.444955	0	1.41181	OK	4.53293	0.971524	0	2.54126	OK	0.53051	-1.83409	-0.7075	1.44444	-3.56546	-1.63297
RSc3247		putative site-specific integrase protein	145.016	7.61137	3.61647	11.5913	OK	149.959	7.89525	3.80193	11.9622	OK	148.94	7.53135	4.48243	10.5657	OK	199.449	10.2567	6.0833	14.4078	OK	0.052829	-0.01525	0.430339	1.037297	-1.01062	1.34755
RSc3248		putative bacteriophage-related protein	32.4512	9.78027	0	21.3983	OK	17.4799	5.35935	0	14.1036	OK	22.2299	5.82611	0	12.0559	OK	25.3844	7.28016	0	15.7738	OK	-0.86782	-0.74734	-0.4259	-1.8249	-1.6787	-1.34341
RSc3253		sulfur oxidation signal peptide protein	1021.2	42.2389	16.1096	68.3722	OK	1052.48	43.639	16.3719	70.8074	OK	711.357	28.4881	15.5595	41.3935	OK	775.131	31.4583	16.8531	45.9763	OK	0.047046	-0.56821	-0.42513	1.033147	-1.48269	-1.34269
RSc3254		hypothetical protein	285.976	51.5829	0.541124	122.655	OK	296.239	54.0073	0.54693	129.075	OK	182.285	29.9709	1.8086	58.3683	OK	217.581	37.8289	3.99882	72.3264	OK	0.066262	-0.78333	-0.4474	1.047	-1.7211	-1.36358
RSc3255		hypothetical protein	786.942	105.582	44.2381	166.62	OK	1043.28	141.089	57.4794	224.099	OK	831.398	103.69	54.2295	151.308	OK	940.13	122.289	61.0576	172.386	OK	0.418242	-0.02609	0.211931	1.336298	-1.01825	1.158237
RSc3256		hypothetical protein	1455.23	143.96	60.9156	226.631	OK	1904.39	189.498	80.323	296.894	OK	1412.71	131.91	71.1116	192.47	OK	1658.15	159.755	83.9273	235.372	OK	0.396515	-0.12611	0.150193	1.316324	-1.09135	1.109718
RSc3257		putative signal peptide protein	604.404	130.997	48.5463	187.31	OK	878.597	192.869	68.6102	277.528	OK	616.88	120.07	56.7494	172.601	OK	763.345	158.785	69.4834	213.433	OK	0.558088	-0.12566	0.277541	1.472316	-1.09101	1.212127
RSc3258		hypothetical protein	408.682	173.091	49.952	192.377	OK	632.958	274.167	74.5152	288.772	OK	419.034	148.328	57.83	170.232	OK	534.886	213.795	73.1021	218.084	OK	0.663524	-0.22274	0.304697	1.583947	-1.16695	1.23516
RSc3259		hypothetical protein	927.902	181.046	67.6734	273.966	OK	1272.36	251.131	90.0567	378.814	OK	951.44	168.186	80.5767	253.222	OK	1051.64	197.427	88.5827	280.727	OK	0.472084	-0.1063	0.124963	1.387112	-1.07646	1.09048
RSc3260		cytochrome C transmembrane protein	598.319	145.81	51.8534	199.552	OK	830.757	205.355	70.2969	281.943	OK	693.573	150.182	68.3039	209.982	OK	513.128	119.659	51.3025	152.267	OK	0.49403	0.042622	-0.28516	1.408374	1.029984	-1.21855
RSc3261		hypothetical protein	589.192	49.6004	22.9259	76.1418	OK	430.558	36.4268	17.2986	55.3001	OK	260.09	20.8004	12.0621	29.5384	OK	364.448	29.9373	16.9281	42.8341	OK	-0.44535	-1.25374	-0.72841	-1.36165	-2.38459	-1.65681
RSc3262	***soxF***	sulfide dehydrogenase flavocytochrome C oxidoreductase	1175.34	66.7485	25.0448	108.478	OK	992.676	56.5642	20.9204	92.2286	OK	688.015	37.5714	19.3144	55.7862	OK	938.316	52.1813	27.3539	76.9634	OK	-0.23885	-0.8291	-0.3552	-1.18005	-1.77658	-1.27917
RSc3263		putative signal peptide protein	377.245	127.834	3.38863	298.877	OK	382.719	132.165	1.72666	295.605	OK	315.665	91.8168	23.2695	160.559	OK	340.876	109.589	18.968	200.289	OK	0.048069	-0.47744	-0.22217	1.03388	-1.39227	-1.16649
RSc3264		putative signal peptide protein	8153.36	802.875	322.084	1279.97	OK	7810.77	773.63	310.245	1232.06	OK	5982.06	556.114	293.756	816.957	OK	6783.08	650.559	335.799	962.862	OK	-0.05353	-0.52979	-0.3035	-1.0378	-1.44372	-1.23413
RSc3265		hypothetical protein	1903.47	529.544	168.786	705.789	OK	1358.83	384.13	119.789	507.67	OK	686.904	167.586	73.5544	223.411	OK	1039.85	275.863	109.604	347.726	OK	-0.46316	-1.65985	-0.9408	-1.37855	-3.15983	-1.91959
RSc3266		hypothetical protein	1129.71	98.1831	23.6066	172.734	OK	1320.2	115.329	27.4578	203.188	OK	884.75	72.9612	32.0824	113.555	OK	945.569	80.1606	34.967	125.304	OK	0.232209	-0.42835	-0.29258	1.174632	-1.34569	-1.22483
RSc3267		putative lipoprotein	1477.54	175.238	34.9873	316.309	OK	1767.31	211.081	41.6832	381.24	OK	849.182	94.2516	35.1841	153.279	OK	1002.68	115.525	43.5515	187.917	OK	0.268481	-0.89473	-0.60111	1.204539	-1.85926	-1.51688
RSc3268		hypothetical protein	798.097	100.19	35.2059	164.771	OK	755.317	95.5269	33.8701	157.043	OK	813.614	95.2985	47.2487	143.346	OK	805.955	98.2013	45.7427	150.029	OK	-0.06876	-0.07221	-0.02892	-1.04881	-1.05133	-1.02025
RSc3269		hypothetical protein	376.231	46.6848	2.72988	98.0274	OK	353.279	44.1597	2.25	92.9998	OK	306.773	35.5391	7.29844	63.9483	OK	408.87	49.2519	12.5277	85.8869	OK	-0.08022	-0.39355	0.077226	-1.05718	-1.31362	1.054988
RSc3270		hypothetical protein	808.238	464.262	107.573	432.679	OK	215.279	127.118	30.7694	114.252	OK	340.117	156.909	54.8254	147.77	OK	434.255	234.073	69.1788	203.536	OK	-1.86877	-1.56501	-0.98798	-3.65221	-2.9588	-1.98341
RSc3271		putative arsenate reductase oxidoreductase protein	322.484	85.3281	30.6899	112.105	OK	296.239	79.594	28.3046	106.222	OK	221.187	51.5866	23.6871	64.4728	OK	144.147	36.4188	15.3731	42.5113	OK	-0.10036	-0.72602	-1.22834	-1.07204	-1.65407	-2.34297
RSc3272	***ripAM***	Type III effector protein	244.398	51.9246	20.359	72.7108	OK	176.639	38.001	14.8192	52.0748	OK	320.11	61.1821	29.9213	80.8832	OK	251.124	51.2308	23.4999	66.674	OK	-0.45038	0.236691	-0.01941	-1.3664	1.178287	-1.01354
RSc3273		hypothetical protein	901.535	52.1648	23.74	80.5139	OK	529.918	30.7672	14.7491	46.7223	OK	569.085	31.6481	18.3868	44.8458	OK	421.562	23.8828	13.8524	33.6842	OK	-0.76168	-0.72096	-1.1271	-1.69547	-1.64828	-2.1842
RSc3274		allantoicase	1419.74	107.694	47.1382	167.787	OK	726.797	55.3786	25.289	84.9125	OK	1179.3	85.294	47.0046	123.418	OK	813.208	60.256	33.3054	87.1596	OK	-0.95954	-0.33642	-0.83776	-1.94469	-1.26262	-1.78727
RSc3275	***dctA3***	C4-dicarboxylate transporter DctA	281.92	15.3993	7.82801	22.9558	OK	234.599	12.8559	6.53135	19.2098	OK	504.619	26.5302	15.6342	37.3799	OK	221.207	11.8355	7.01169	16.6291	OK	-0.26043	0.784771	-0.37974	-1.19784	1.722819	-1.30111
RSc3276		transcription regulator protein	2061.67	251.462	103.695	398.726	OK	2771.95	340.544	139.442	539.848	OK	3009.93	343.065	179.362	505.675	OK	2348.96	278.205	141.519	405.405	OK	0.437501	0.448142	0.145808	1.354256	1.364282	1.10635
RSc3277		hypothetical protein	858.943	129.848	52.4627	204.484	OK	980.716	149.59	59.3628	238.985	OK	1164.85	162.503	81.7915	242.781	OK	914.745	133.778	64.9362	200.535	OK	0.20419	0.323643	0.043017	1.152039	1.251486	1.030266
RSc3278		hypothetical protein	240.342	89.7616	22.6274	139.632	OK	150.879	57.5127	15.4717	82.1935	OK	172.282	54.6068	20.6048	81.4654	OK	145.054	51.2736	17.1707	57.6172	OK	-0.64222	-0.71702	-0.80788	-1.56073	-1.64378	-1.75064
RSc3279		hypothetical protein	197.75	122.733	24.826	220.951	OK	80.9597	51.7219	6.38859	96.4678	OK	114.484	56.464	20.7146	92.2293	OK	94.2849	54.8525	20.9439	89.0114	OK	-1.24668	-1.12012	-1.16189	-2.37294	-2.17365	-2.23751
RSc3280		transcription regulator protein	720.011	61.8254	27.893	95.1186	OK	643.998	55.5797	25.2096	85.3031	OK	809.168	65.9578	36.5725	95.2974	OK	762.439	63.8687	34.6916	91.9536	OK	-0.15364	0.093344	0.046909	-1.11237	1.06684	1.03305
RSc3281	***gcl***	glyoxylate carboligase	294.089	11.7345	6.01946	17.4419	OK	380.879	15.2334	7.72377	22.6636	OK	264.536	10.2266	6.26015	14.2016	OK	406.15	15.9043	9.5512	22.2504	OK	0.376482	-0.19843	0.438661	1.298172	-1.14745	1.355345
RSc3282	***hyi***	hydroxypyruvate isomerase protein	438.091	45.432	20.9735	69.7472	OK	701.037	73.1478	32.0771	113.997	OK	453.49	44.297	24.6662	63.8562	OK	575.682	58.1079	31.1573	84.8711	OK	0.687106	-0.0365	0.355026	1.61005	-1.02562	1.279008
RSc3283	***glxR***	transmembrane 2-hydroxy-3-oxopropionate reductase oxidoreductase protein	5844.26	501.831	212.057	788.347	OK	4326.74	373.416	161.426	585.187	OK	1040.36	84.8029	46.3948	122.814	OK	5829.35	488.318	255.659	718.074	OK	-0.42642	-2.56502	-0.03938	-1.34389	-5.91762	-1.02767
RSc3284	***hemN***	coproporphyrinogen III oxidase	57083.7	2681.42	932.995	4414.05	OK	37595.7	1770.91	620.568	2921.28	OK	8238.4	373.749	204.312	542.153	OK	47717.2	2197.71	930.263	3461.62	OK	-0.59851	-2.84286	-0.287	-1.51415	-7.17439	-1.2201
RSc3285		putative Leu/Ile/Val-binding signal peptide protein	303.216	20.8625	10.3816	31.3207	OK	96.5996	6.67352	3.34322	9.97101	OK	65.5782	4.31559	2.43017	6.19115	OK	100.631	6.76954	3.81884	9.66282	OK	-1.64439	-2.27328	-1.62378	-3.12616	-4.83422	-3.08182
RSc3286	***solI***	autoinducer synthesis protein SOLI	713.926	101.494	42.0963	158.856	OK	161.919	23.2136	10.2623	36.0227	OK	145.606	19.176	10.227	27.7886	OK	152.306	20.9709	10.6403	30.4745	OK	-2.12835	-2.40402	-2.27493	-4.37218	-5.29276	-4.83975
RSc3287	***solR***	transcriptional activator SOLR transcription regulator protein	1255.46	147.271	60.959	232.695	OK	112.24	13.2579	6.15931	20.1083	OK	124.487	13.6737	7.50584	19.8369	OK	113.323	12.9161	6.791	18.3178	OK	-3.47355	-3.429	-3.51123	-11.1082	-10.7704	-11.4021
RSc3288	***lecM***	probable sugar-binding lectin protein	10751.5	3759.67	1011.38	5867.77	OK	50.5998	18.0407	5.60009	19.6003	OK	51.1288	15.2914	6.07694	18.0467	OK	41.703	13.8245	4.78789	16.9418	OK	-7.70321	-7.94174	-8.08723	-208.399	-245.868	-271.957
RSc3289	***rep***	ATP-dependent DNA helicase REP protein	1713.83	56.4274	24.6597	88.0573	OK	3898.03	128.591	57.2555	199.953	OK	1426.05	45.6326	26.0666	65.2114	OK	2196.66	71.0426	40.6146	101.477	OK	1.188322	-0.30633	0.332289	2.278875	-1.23656	1.259009
RSc3290	***ripAX1***	Type III effector protein	654.095	85.6176	36.6318	134.513	OK	1798.59	237.257	95.4198	378.331	OK	1956.23	238.362	123.76	350.881	OK	1523.97	193.48	95.9774	286.378	OK	1.470471	1.477175	1.176205	2.771124	2.78403	2.259816
RSc3291		hypothetical protein	942.099	364.193	103.002	418.705	OK	753.477	297.451	83.3077	331.655	OK	901.422	294.52	115.212	359.624	OK	1536.66	561.773	193.898	622.104	OK	-0.29205	-0.30634	0.625284	-1.22438	-1.23656	1.542515
RSc3292		hypothetical protein	3480.39	264.004	117.527	409.848	OK	224.479	17.1043	8.47214	25.7349	OK	155.609	11.2546	6.5354	15.9614	OK	443.321	32.8486	18.6636	46.8789	OK	-3.94813	-4.55197	-3.00666	-15.4349	-23.4574	-8.03699
RSc3293	***gcvT***	glycine cleavage system aminomethyltransferase T	1308.19	87.2134	38.2524	136.11	OK	1672.55	111.945	49.3855	174.476	OK	810.28	51.7161	29.2876	74.1202	OK	1055.27	68.8031	37.9049	99.6342	OK	0.360168	-0.75394	-0.34208	1.283576	-1.68639	-1.26758
RSc3294	***gcvH***	glycine cleavage system H protein	3342.47	967.104	305.905	1256.66	OK	3811.55	1121.25	348.336	1431.75	OK	5241.81	1324.63	556.894	1833.98	OK	3811.29	1050.49	409.15	1324.9	OK	0.213365	0.453846	0.119319	1.159389	1.369687	1.086222
RSc3295	***gcvP***	glycine dehydrogenase	7814.66	180.578	73.7259	287.086	OK	11462.2	265.226	102.159	427.265	OK	9777.82	220.565	120.04	320.889	OK	10577.1	240.387	129.799	350.533	OK	0.5546	0.288582	0.412737	1.468761	1.221439	1.331209
RSc3296	***sdaA2***	L-serine dehydratase	532.403	28.2198	13.563	42.7937	OK	755.317	40.1608	18.5673	61.7352	OK	490.169	25.025	14.7641	35.2031	OK	604.693	31.4015	18.2705	44.3383	OK	0.50908	-0.17334	0.154126	1.423143	-1.12766	1.112747
RSc3297		hypothetical protein	1289.94	43.9539	19.2701	68.6065	OK	777.397	26.5427	12.1458	40.9254	OK	401.25	13.2812	8.04981	18.4836	OK	552.111	18.4767	11.053	25.8832	OK	-0.72768	-1.72661	-1.25028	-1.65597	-3.30948	-2.37888
RSc3298		carboxylate-amine ligase	2210.74	146.474	65.0257	227.732	OK	1782.03	118.533	52.3045	184.457	OK	1612.78	102.319	57.0328	147.4	OK	1484.99	96.2283	52.6069	139.949	OK	-0.30536	-0.51757	-0.60611	-1.23572	-1.43154	-1.52215
RSc3299		hypothetical protein	1346.72	81.6666	35.8309	127.276	OK	1288.92	78.4414	34.5156	121.331	OK	749.147	43.6086	24.9144	62.1302	OK	844.938	50.149	28.3401	71.8883	OK	-0.05813	-0.90513	-0.70353	-1.04112	-1.87272	-1.62848
RSc3300		putative amino-acid transport signal peptide protein	28581.4	1893.68	678.88	3093.18	OK	24156.4	1606.77	582.676	2630.27	OK	36517	2316.74	1060.37	3566.57	OK	36902.6	2391.31	1086.76	3694.41	OK	-0.23703	0.290904	0.336609	-1.17856	1.223406	1.262785

RSc3301	***putA***	trifunctional transcriptional regulator/proline dehydrogenase/pyrroline-5-carboxylate dehydrogenase	28012.5	472.754	157.554	789.195	OK	23436	395.912	133.853	658.888	OK	17701.7	292.457	148.384	436.864	OK	43756.4	726.886	301.911	1151.59	OK	-0.25591	-0.69287	0.620639	-1.19409	-1.61649	1.537557
RSc3302	***priA***	primosome assembly protein PriA	1363.96	40.9512	17.8938	63.9823	OK	1622.87	48.8111	21.3274	76.3209	OK	773.6	22.603	13.4388	31.752	OK	943.756	27.8434	16.1376	39.4904	OK	0.253304	-0.85739	-0.55657	1.191933	-1.81176	-1.47077
RSc3303	***hemE***	uroporphyrinogen decarboxylase	1779.75	122.847	54.2262	191.439	OK	2552.07	176.877	78.9868	274.778	OK	1883.98	124.368	69.0435	178.759	OK	1647.27	111.166	60.6306	161.121	OK	0.525884	0.017753	-0.14415	1.439815	1.012381	-1.10508
RSc3304		signal peptide protein	1926.79	405.362	143.664	599.7	OK	1672.55	356.263	124.261	522.914	OK	2331.92	441.708	207.428	658.258	OK	3875.65	783.114	341.279	1105.29	OK	-0.18627	0.123882	0.950011	-1.13782	1.089663	1.931888
RSc3305		hypothetical protein	568.91	195.815	60.5147	243.539	OK	297.159	104.258	33.1258	119.734	OK	410.142	120.957	50.7523	149.153	OK	398.898	130.208	49.2918	135.644	OK	-0.90933	-0.695	-0.58867	-1.87818	-1.61888	-1.50386
RSc3306		hypothetical protein	384.344	112.708	25.1857	194.893	OK	425.958	127.023	3.71869	249.998	OK	315.665	80.7331	23.8452	137.068	OK	291.921	81.5198	21.6774	137.902	OK	0.1725	-0.48136	-0.46737	1.12701	-1.39606	-1.38258
RSc3307		putative methyl-accepting chemotaxis transmembrane protein	476.627	17.2542	3.40285	31.1325	OK	2992.75	108.571	39.1077	178.197	OK	675.789	23.7414	11.3123	36.2555	OK	689.912	24.5221	11.9427	37.1789	OK	2.653619	0.460457	0.507135	6.292439	1.375978	1.421225
RSc3308		transcription regulator protein	301.188	26.828	13.0257	40.6781	OK	305.439	27.3503	13.1713	41.2603	OK	312.33	26.3726	15.2189	37.1139	OK	338.157	29.3727	16.4392	42.139	OK	0.027817	-0.0247	0.130736	1.019468	-1.01727	1.094852
RSc3309	***gst2***	glutathione S-transferase protein	152.115	21.9154	9.72888	33.5224	OK	124.2	18.0469	7.93116	27.0717	OK	146.717	19.5657	10.4321	28.271	OK	102.444	14.2912	7.09384	20.7599	OK	-0.28019	-0.16362	-0.61682	-1.21436	-1.12009	-1.53349
RSc3310	***pstS2***	phosphate ABC transporter phosphate-binding protein	637.869	45.6435	21.2851	69.6161	OK	766.357	55.0699	25.0448	85.1403	OK	483.5	33.0508	19.0834	46.8411	OK	543.045	37.9788	21.5361	54.3189	OK	0.270855	-0.46572	-0.26522	1.206522	-1.38101	-1.20182
RSc3311		hypothetical protein	551.67	723.956	103.107	415.679	OK	218.959	299.551	42.6087	158.726	OK	355.678	332.027	77.6497	225.248	OK	339.97	416.424	74.7619	201.504	OK	-1.2731	-1.1246	-0.79785	-2.4168	-2.18041	-1.73851
RSc3312		putative lipase protein	2260.43	180.388	79.2219	280.334	OK	2052.51	164.57	72.044	257.006	OK	1363.8	103.592	56.6474	149.748	OK	1873.91	146.003	78.7425	213.149	OK	-0.1324	-0.80019	-0.30511	-1.09612	-1.74133	-1.23551
RSc3313		hypothetical protein	1625.6	348.818	122.111	515.487	OK	1210.72	263.094	91.5832	383.618	OK	1175.96	226.806	105.198	335.672	OK	1378.92	284.043	123.075	392.741	OK	-0.4069	-0.62102	-0.29637	-1.32583	-1.53796	-1.22805
RSc3314		hypothetical protein	3899.21	255.975	114.209	397.506	OK	2883.27	190.016	85.4736	294.34	OK	2555.33	160.672	89.6557	231.226	OK	3040.69	195.247	107.442	282.807	OK	-0.42988	-0.67188	-0.3907	-1.34712	-1.59315	-1.31103
RSc3315		putative prolin-rich transmembrane protein	10851.9	317.38	124.634	510.114	OK	4231.98	123.985	54.5937	193.394	OK	7605.96	216.554	118.947	314.164	OK	9267.12	266.355	146.574	386.242	OK	-1.35605	-0.55148	-0.25286	-2.55983	-1.46559	-1.19157
RSc3316	***atpC***	F0F1 ATP synthase subunit epsilon	4392.07	1120.96	370.539	1535.05	OK	4327.66	1121.03	365.406	1512.02	OK	8004.99	1807.26	788.007	2414.81	OK	4850.23	1183.12	479.71	1569.57	OK	9.01E-05	0.689069	0.077862	1.000062	1.612243	1.055452
RSc3317	***atpD***	F0F1 ATP synthase subunit beta	35518.9	1841.74	646.946	3036.98	OK	34349	1786.54	631.442	2938.68	OK	72621.7	3628.88	1292.22	5963.87	OK	38179.1	1939.82	875.505	3003.9	OK	-0.0439	0.978455	0.074853	-1.0309	1.970354	1.053254
RSc3318	***atpG***	F0F1 ATP synthase subunit gamma	9875.31	890.72	352.441	1426.08	OK	12130.2	1099.95	423.312	1768.38	OK	17412.7	1488.1	747.439	2227.81	OK	10057.7	884.505	453.062	1315.67	OK	0.304394	0.740428	-0.0101	1.2349	1.670671	-1.00703
RSc3319	***atpA***	F0F1 ATP synthase subunit alpha	23706.6	1106.32	398.768	1815.3	OK	27985.4	1309.6	468.724	2151.5	OK	54066.4	2437.15	986.8	3884.82	OK	28897.4	1322.3	633.462	2010.85	OK	0.243357	1.139426	0.257281	1.183744	2.202934	1.195224
RSc3320	***atpH***	F0F1 ATP synthase subunit delta	5269.26	904.855	338.075	1428.33	OK	5881.54	1020.32	373.214	1603.67	OK	4729.41	742.989	360.722	1089.5	OK	4144	686.659	316.83	1031.29	OK	0.173263	-0.28435	-0.39809	1.127606	-1.21786	-1.31776
RSc3321	***atpF***	F0F1 ATP synthase subunit B	5177.99	1078.81	379.706	1739.24	OK	5324.02	1122.93	389.414	1790.51	OK	4415.97	829.051	383.213	1255.12	OK	4223.78	845.393	368.78	1200.09	OK	0.057827	-0.37991	-0.35175	1.040897	-1.30126	-1.2761
RSc3322	***atpE***	F0F1 ATP synthase subunit C	4900.13	2886.64	635.085	2896.6	OK	4458.3	2701	580.332	2422.88	OK	4372.62	2061.7	671.008	2192.43	OK	2860.28	1580.57	443.056	1423.87	OK	-0.0959	-0.48556	-0.86895	-1.06873	-1.40013	-1.82633
RSc3323	***atpB***	F0F1 ATP synthase subunit A	3700.45	312.744	137.166	488.444	OK	3829.95	325.309	142.045	506.077	OK	2206.32	177.117	97.0163	256.945	OK	2739.7	225.927	121.563	330.034	OK	0.056829	-0.82028	-0.46913	1.040177	-1.76575	-1.38427
RSc3324		hypothetical protein	3444.9	539.775	212.647	866.21	OK	3276.11	518.113	200.171	827.21	OK	3969.15	572.581	284.839	855.736	OK	1970.01	298.411	142.253	422.99	OK	-0.05909	0.085122	-0.85506	-1.04181	1.060777	-1.80883
RSc3325	***parB2***	putative chromosome partitioning protein PARB	1300.08	111.634	48.2301	174.631	OK	1983.51	171.186	74.2871	267.843	OK	1971.79	160.727	87.0773	233.646	OK	1532.13	128.345	68.4776	187.46	OK	0.616788	0.525836	0.201251	1.533458	1.439767	1.149695
RSc3326	***parA2***	putative chromosome partitioning protein PARA	742.321	76.6118	33.5934	118.56	OK	1382.75	143.582	60.1404	226.878	OK	916.983	89.16	48.1741	129.246	OK	1001.78	100.637	52.8622	147.27	OK	0.906236	0.21883	0.393522	1.87415	1.163789	1.313597
RSc3327	***gidB***	glucose inhibited division protein B	485.754	61.3386	0	129.76	OK	835.357	106.276	0.287504	214.862	OK	569.085	67.0276	8.88686	125.078	OK	510.408	62.5503	9.64319	115.435	OK	0.792949	0.12796	0.028222	1.732612	1.092747	1.019754
RSc3328	***gidA***	tRNA uridine 5-carboxymethylaminomethyl modification	3189.34	115.262	41.3076	189.408	OK	4753.62	172.161	56.6068	288.575	OK	3009.93	105.568	52.3642	158.881	OK	2611.87	92.6805	46.378	138.956	OK	0.578841	-0.12674	-0.31458	1.493649	-1.09183	-1.24365
RSc3329		amino-acid-binding periplasmic (PBP) ABC transporter protein	4867.68	317.611	139.227	494.862	OK	7677.37	502.874	211.643	793.55	OK	10713.7	669.674	357.801	979.404	OK	6386.9	407.639	220.729	593.625	OK	0.662936	1.076198	0.360031	1.583302	2.108472	1.283454
RSc3330		putative signal peptide protein	257.581	42.8619	18.0651	65.2221	OK	246.559	41.4341	17.3613	62.2895	OK	233.414	35.6125	18.3999	52.538	OK	211.235	33.9392	16.664	45.5946	OK	-0.04888	-0.26731	-0.33674	-1.03446	-1.20356	-1.2629
RSc3331		short chain dehydrogenase	58.8178	8.5312	3.71953	12.8589	OK	68.0797	9.95978	4.35716	15.3032	OK	73.3587	9.84487	5.03221	14.5724	OK	58.0215	8.14783	3.98383	12.0563	OK	0.223365	0.206623	-0.06633	1.167454	1.153984	-1.04705
RSc3332		transcription regulator protein	1012.07	88.6774	38.698	138.135	OK	1788.47	157.519	67.7754	246.835	OK	1072.59	89.146	48.9413	129.33	OK	1123.26	95.9928	51.4202	139.67	OK	0.828887	0.007604	0.11436	1.776315	1.005284	1.082495
RSc3333		hypothetical protein	89.2408	90.0636	16.1002	56.0527	OK	143.519	150.337	25.9393	88.8495	OK	145.606	108.838	29.1186	80.591	OK	143.241	134.995	28.5304	79.1204	OK	0.739184	0.273166	0.58389	1.669232	1.208457	1.498885
RSc3334		transcription regulator protein	633.813	55.5345	25.344	85.2936	OK	786.597	69.2793	30.8005	107.55	OK	646.89	53.7648	29.9597	77.4136	OK	545.765	46.6406	25.7101	67.5687	OK	0.31904	-0.04672	-0.2518	1.2475	-1.03292	-1.19069
RSc3335		hypothetical protein	283.948	23.0018	11.3055	34.6567	OK	275.079	22.3902	10.9017	33.7819	OK	252.309	19.4439	11.4184	27.4839	OK	268.349	21.2203	12.1487	30.2721	OK	-0.03888	-0.24243	-0.1163	-1.02732	-1.18298	-1.08395
RSc3336		hypothetical protein	75.0434	52.0881	11.6387	41.6408	OK	80.0397	57.2959	12.4146	43.7099	OK	80.0276	43.4558	13.5228	40.8235	OK	75.2466	48.8928	12.5022	38.5272	OK	0.137478	-0.26141	-0.09133	1.099981	-1.19865	-1.06535
RSc3337		hypothetical protein	334.653	36.1001	16.97	55.1524	OK	630.198	68.4166	30.2065	106.486	OK	303.438	30.7756	17.3268	44.1122	OK	354.475	37.1982	20.1727	54.1567	OK	0.922344	-0.23022	0.04323	1.895191	-1.17301	1.030418
RSc3338		hypothetical protein	323.498	68.0582	26.6961	100.867	OK	480.238	102.293	38.5305	152.058	OK	206.738	39.16	19.1409	52.4	OK	200.355	40.4838	18.5979	50.9067	OK	0.587867	-0.79739	-0.74942	1.503022	-1.73795	-1.68112
RSc3339		hypothetical protein	245.412	238.191	43.5221	160.855	OK	152.719	153.746	27.0543	93.5138	OK	372.351	269.241	73.3949	199.008	OK	277.415	251.467	55.1187	156.943	OK	-0.63157	0.176779	0.07825	-1.54925	1.130358	1.055737
RSc3340		transmembrane ABC transporter protein	2152.93	168.061	73.9274	262.041	OK	1222.68	95.8849	42.0858	149.355	OK	1085.93	80.7475	44.5429	116.314	OK	1158.62	88.3219	47.8257	128.672	OK	-0.80961	-1.0575	-0.92814	-1.75274	-2.08132	-1.90282
RSc3341		transmembrane ABC transporter protein	2834.41	234.022	103.233	364.05	OK	1563.07	129.686	55.9919	202.022	OK	1333.79	104.692	57.057	151.882	OK	1689.88	136.173	73.2434	198.958	OK	-0.85162	-1.16049	-0.7812	-1.80453	-2.23534	-1.71856
RSc3342		putative substrate-binding periplasmic (PBP) ABC transporter	34184.3	2102.67	748.255	3457.73	OK	12788	789.446	313.802	1264.64	OK	16875.8	996.047	514.506	1475.52	OK	17095.5	1029.08	524.701	1531.75	OK	-1.41331	-1.07794	-1.03087	-2.66348	-2.11101	-2.04325
RSc3343		ABC transporter ATP-binding protein	3018.98	335.791	142.099	529.027	OK	2652.35	296.96	124.717	468.276	OK	1527.19	159.475	83.9372	233.549	OK	3339.86	361.221	185.622	534.574	OK	-0.17729	-1.07423	0.105318	-1.13076	-2.1056	1.075732
RSc3344		ABC transporter ATP-binding protein	3760.28	397.641	167.392	627.304	OK	2774.71	295.26	124.375	465.007	OK	2526.43	251.421	133.903	368.005	OK	6283.55	646.573	330.925	957.918	OK	-0.42948	-0.66136	0.701347	-1.34675	-1.58157	1.626022
RSc3345	***betA***	putative choline dehydrogenase lipoprotein oxidoreductase	5710.4	249.663	108.044	391.487	OK	5164.86	226.395	99.1027	353.674	OK	4212.57	178.135	100.407	255.564	OK	12405.7	532.029	284.357	777.922	OK	-0.14114	-0.48701	1.091523	-1.10278	-1.40154	2.130989
RSc3346		putative lysophospholipase protein	1971.41	181.631	78.1638	284.082	OK	1953.15	180.931	77.4906	283.933	OK	2064.05	180.027	97.4004	261.358	OK	4697.02	421.831	220.996	621.518	OK	-0.00557	-0.0128	1.215655	-1.00387	-1.00891	2.322461
RSc3347		transcription regulator protein	849.816	172.055	0	361.451	OK	876.757	179.643	0.402506	358.767	OK	987.007	180.5	3.83837	356.968	OK	4852.05	944.369	61.6786	1825.21	OK	0.062263	0.069129	2.456481	1.044102	1.049083	5.488762
RSc3348		cation-transporting ATPase transmembrane protein	7585.47	234.298	74.7791	393.911	OK	6437.22	199.193	64.0851	334.752	OK	9213.18	276.829	135.242	418.766	OK	25401.6	770.896	300.357	1244.68	OK	-0.23418	0.24065	1.718192	-1.17624	1.181525	3.290237
RSc3349		hypothetical protein	1134.78	1420.02	197.368	826.319	OK	1205.2	1570.99	209.544	877.584	OK	1504.96	1349.65	309.124	991.535	OK	2746.96	3208.61	568.94	1806.07	OK	0.145763	-0.07333	1.176037	1.106315	-1.05214	2.259553
RSc3350	***ompW***	putative outer membrane W signal peptide protein	1831.46	209.126	87.0212	331.142	OK	1429.67	164.354	67.6831	260.886	OK	1785.06	191.114	101.161	281.079	OK	2535.72	281.436	144.915	416.631	OK	-0.34757	-0.12994	0.428434	-1.27241	-1.09425	1.345772
RSc3352		ornithine cyclodeaminase	724.067	55.3148	25.3118	85.0349	OK	1040.52	79.8493	35.5647	123.932	OK	413.476	30.1108	17.3843	42.8601	OK	621.011	46.3392	25.9184	66.5027	OK	0.529614	-0.87738	-0.25543	1.443543	-1.83704	-1.19369
RSc3353		hypothetical protein	1104.35	118.535	50.2869	186.019	OK	1200.6	129.685	54.5126	204.528	OK	1081.48	109.164	58.3624	159.829	OK	1104.22	115.304	60.0299	170.501	OK	0.129699	-0.11882	-0.03987	1.094065	-1.08584	-1.02802
RSc3354		transcription regulator protein	376.231	76.8963	30.2428	111.925	OK	461.838	95.5378	36.3184	134.337	OK	485.723	89.6007	43.2867	129.327	OK	373.513	73.3723	33.8302	98.9601	OK	0.313157	0.220596	-0.06768	1.242424	1.165215	-1.04803
RSc3355	***phhA***	phenylalanine 4-monooxygenase	1132.75	93.5252	40.9514	146.099	OK	1092.96	90.681	39.7891	141.245	OK	1241.54	97.4508	53.1453	141.496	OK	1349.91	108.777	58.271	158.829	OK	-0.04455	0.059319	0.217946	-1.03136	1.041974	1.163077
RSc3356	***phhB***	pterin-4-alpha-carbinolamine dehydratase	571.952	251.817	69.2416	265.181	OK	535.438	241.248	65.0324	260.129	OK	546.855	200.248	76.1964	226.721	OK	476.864	197.972	66.6459	197.861	OK	-0.06186	-0.33059	-0.34708	-1.04381	-1.25753	-1.27198
RSc3357		hypothetical protein	441.134	383.395	73.4397	267.208	OK	535.438	481.784	87.2803	349.121	OK	812.503	534.784	149.912	456.982	OK	650.022	527.896	120.097	365.028	OK	0.329555	0.480125	0.461422	1.256626	1.394864	1.376898
RSc3358		hypothetical protein	1274.72	217.163	82.1709	345.857	OK	2145.43	369.204	138.939	576.747	OK	1061.48	165.53	81.4146	232.126	OK	1138.67	187.212	87.2971	277.186	OK	0.76564	-0.39169	-0.21411	1.700124	-1.31193	-1.15998
RSc3359	***dbhB***	histone-like DNA-binding protein HU-beta (NS1)	3059.54	1634.43	388.714	1579.09	OK	3484.95	1911.4	441.343	1800.23	OK	5182.9	2245.57	758.28	2495.04	OK	4016.18	2015.62	593.189	1921.2	OK	0.225842	0.458294	0.302436	1.16946	1.373916	1.233225
RSc3360		hypothetical protein	971.508	78.997	35.1033	122.794	OK	1343.2	109.746	47.2544	171.736	OK	1155.95	89.4075	49.0139	129.461	OK	1111.47	88.2214	47.8152	128.595	OK	0.474299	0.178598	0.159331	1.389243	1.131783	1.116769
RSc3361		2-dehydropantoate 2-reductase	1189.54	93.8811	41.0902	146.45	OK	996.356	79.0022	35.0979	122.876	OK	645.778	48.5299	27.2185	69.8328	OK	881.201	67.9077	37.2875	98.4155	OK	-0.24894	-0.95196	-0.46726	-1.18834	-1.9345	-1.38248
RSc3362		hypothetical protein	140.96	13.5693	6.43235	20.4595	OK	119.6	11.5788	5.57987	17.2046	OK	62.2437	5.66212	3.05808	8.25681	OK	82.4993	7.73723	4.12841	11.3149	OK	-0.22886	-1.26093	-0.81046	-1.17191	-2.39651	-1.75377
RSc3363	***cpdB***	2',3'-cyclic-nucleotide 2'-phosphodiesterase precursor transmembrane protein	210.933	7.21032	3.68275	10.7335	OK	186.759	6.39689	3.30504	9.50591	OK	215.63	7.15966	4.40933	9.93652	OK	196.729	6.60453	4.03671	9.16023	OK	-0.17269	-0.01017	-0.12661	-1.12716	-1.00708	-1.09172
RSc3364	***minC***	septum formation inhibitor	1805.1	191.83	80.5851	301.88	OK	2190.51	234.256	98.6979	368.796	OK	2381.93	238.161	127.063	347.687	OK	1852.15	191.516	99.4336	282.087	OK	0.288258	0.312109	-0.00236	1.221165	1.241521	-1.00164
RSc3365	***minD***	septum site-determining protein MIND	4584.75	451.467	190.835	709.674	OK	6495.18	643.325	261.866	1021.58	OK	6560.04	609.845	321.317	896.917	OK	6080.47	583.172	300.374	864.684	OK	0.510927	0.433822	0.369301	1.424966	1.350807	1.291727
RSc3366	***minE***	cell division topological specificity factor protein	626.714	410.801	90.1614	368.475	OK	789.357	533.092	111.628	446.514	OK	1048.14	541.83	170.414	531.921	OK	1097.88	674.103	178.636	564.808	OK	0.375945	0.399401	0.714529	1.297689	1.31896	1.640948
RSc3367		hypothetical protein	1395.4	69.8251	30.9338	108.402	OK	1491.31	74.8453	33.245	116.002	OK	1088.15	52.5159	29.9024	74.9313	OK	1477.74	72.4732	40.3375	104.264	OK	0.100166	-0.41099	0.053702	1.071897	-1.3296	1.037925
RSc3368		hypothetical protein	3926.6	363.325	156.649	570.001	OK	3789.47	352.56	151.62	552.738	OK	3590.13	314.427	169.047	458.198	OK	4651.69	419.539	219.991	617.175	OK	-0.04339	-0.20854	0.207544	-1.03053	-1.15551	1.154721
RSc3369	***ripE1***	Type III effector protein, AvrPphE family	1630.67	94.1007	41.6238	146.389	OK	1851.03	107.182	47.5197	166.546	OK	1976.24	109.615	61.1951	156.841	OK	2150.42	121.503	67.6577	175.383	OK	0.187785	0.220168	0.368715	1.139014	1.164869	1.291202
RSc3370		hypothetical protein	381.302	190.261	50.5369	194.321	OK	40.4799	20.7138	5.36675	19.0072	OK	65.5782	26.7798	9.48562	28.0157	OK	40.7964	19.1474	5.5149	19.633	OK	-3.19932	-2.82876	-3.31276	-9.18523	-7.10465	-9.93665
RSc3371		putative transmembrane ABC transporter protein	2545.39	102.517	46.2254	158.68	OK	3431.59	138.538	62.4993	214.597	OK	2220.77	86.6425	49.3533	123.708	OK	2072.46	81.9119	46.2868	117.395	OK	0.434419	-0.24272	-0.32372	1.351366	-1.18322	-1.25155
RSc3372		ABC transporter ATP-binding protein	3669.01	198.895	89.5412	307.932	OK	4199.78	228.397	101.61	354.73	OK	2716.49	141.763	80.0498	203.442	OK	2747.86	145.916	81.791	209.372	OK	0.199537	-0.48853	-0.44687	1.14833	-1.40301	-1.36308
RSc3373		putative transcription regulator protein	360.006	27.3081	13.3771	40.9593	OK	551.998	42.0597	19.6834	64.2736	OK	375.685	27.1719	15.8358	38.0813	OK	372.607	27.6089	15.8358	39.0867	OK	0.62311	-0.00721	0.015804	1.540191	-1.00501	1.011015
RSc3374	***pfs***	5'-methylthioadenosine/S-adenosylhomocysteinenucleosidase	669.306	69.0762	30.316	107.499	OK	785.677	81.5828	35.7237	127.163	OK	329.002	31.9895	18.0249	45.7492	OK	339.97	34.1529	18.7523	49.0632	OK	0.240076	-1.11059	-1.01618	1.181055	-2.15934	-2.02256
RSc3375		hypothetical protein	326.54	143.768	41.2503	150.269	OK	137.999	62.1773	17.4682	60.1918	OK	92.2541	33.7817	12.6648	37.1639	OK	109.697	45.5412	15.3638	44.4306	OK	-1.20928	-2.08943	-1.6585	-2.31223	-4.2558	-3.15688
RSc3376		putative signal peptide protein	4081.75	718.156	271.387	1116.65	OK	682.637	121.362	46.8371	195.276	OK	580.2	93.224	46.6861	139.577	OK	1096.06	185.982	86.1527	272.416	OK	-2.56498	-2.94552	-1.94913	-5.91747	-7.70355	-3.86143
RSc3377		hypothetical protein	2736.04	501.94	186.926	773.063	OK	471.038	87.357	34.6485	127.17	OK	459.047	76.6661	38.1437	113.317	OK	731.615	129.323	60.064	183.783	OK	-2.52252	-2.71085	-1.95654	-5.74585	-6.54709	-3.88129
RSc3378		hypothetical protein	12463.3	512.545	200.694	824.728	OK	1793.07	73.9182	32.8713	114.938	OK	1628.34	64.8432	36.8395	92.8341	OK	2498.55	100.823	57.024	144.674	OK	-2.79368	-2.98265	-2.34585	-6.93395	-7.90438	-5.08361
RSc3379		putative transmembrane protein	258.596	25.7001	12.2441	38.6406	OK	283.359	28.3271	13.4367	43.093	OK	173.393	16.262	9.25522	23.1381	OK	279.228	27.0253	14.9809	38.9817	OK	0.140409	-0.66027	0.072537	1.102218	-1.58038	1.051564
RSc3380		putative signal peptide protein	1.0141	11.646	0	57.4205	OK	NA	NA	NA	1.02224	OK	NA	NA	0	1.00844	OK	0.906586	9.03594	0	9.967	OK	NA	NA	-0.36609	NA	NA	-1.28885
RSc3382	***kdpA***	potassium-transporting ATPase subunit A	170.369	6.8106	3.48702	10.1342	OK	141.679	5.67711	2.90585	8.42698	OK	138.937	5.38092	3.26079	7.48906	OK	135.081	5.2994	3.18912	7.38156	OK	-0.26263	-0.33993	-0.36195	-1.19966	-1.26569	-1.28516
RSc3383	***kdpB***	potassium-transporting ATPase B chain	616.573	19.1547	9.01902	29.2758	OK	505.078	15.7198	7.6071	23.801	OK	577.977	17.4656	10.4607	24.4462	OK	572.056	17.461	10.4323	24.503	OK	-0.28512	-0.13318	-0.13356	-1.21851	-1.09671	-1.097
RSc3384	***kdpC***	potassium-transporting ATPase subunit C	189.637	26.9594	12.0425	41.0491	OK	153.639	22.0265	9.73869	33.5095	OK	147.829	19.4688	10.3303	28.0985	OK	167.718	23.0929	11.8799	32.6439	OK	-0.29155	-0.46962	-0.22334	-1.22395	-1.38475	-1.16743

RSc3385	***kdpD***	two-component sensor kinase KDPD transcription regulator	2605.22	63.2649	27.8064	98.4781	OK	2062.63	50.1605	21.8332	78.4758	OK	1579.43	37.4222	21.4707	53.3945	OK	1900.2	45.3775	25.9409	64.8185	OK	-0.33485	-0.75751	-0.47943	-1.26125	-1.69057	-1.39419
RSc3386		putative outermembrane signal peptide protein	173.411	7.82059	4.00987	11.6246	OK	400.199	18.0965	9.03234	27.1375	OK	318.999	13.9059	8.43092	19.3791	OK	266.536	11.7887	7.11234	16.4623	OK	1.210361	0.830348	0.592055	2.313956	1.778114	1.507393
RSc3387		two-component response regulator transcription regulator protein	5025.88	308.257	135.657	479.713	OK	1359.75	83.7018	36.6639	130.555	OK	1238.21	72.8784	40.8343	104.995	OK	1267.41	76.0764	42.2496	109.817	OK	-1.8808	-2.08057	-2.01861	-3.6828	-4.22974	-4.05194
RSc3388		two-component response regulator transcription regulator protein	423.894	56.1705	19.9762	92.4273	OK	265.879	35.5092	12.423	58.5373	OK	206.738	25.4837	12.1573	38.7268	OK	179.504	23.066	10.5886	35.2953	OK	-0.66162	-1.14024	-1.28404	-1.58186	-2.20417	-2.43521
RSc3389		hypothetical protein	245.412	40.8369	3.66083	79.5399	OK	200.559	33.7038	5.88172	61.674	OK	163.39	24.9287	10.2223	39.6688	OK	155.933	25.0538	10.4436	39.8463	OK	-0.27696	-0.71207	-0.70484	-1.21164	-1.63815	-1.62997
RSc3390		porin signal peptide protein	3084.89	205.025	92.2454	317.222	OK	1831.71	122.216	54.0376	190.413	OK	1638.34	104.253	58.0828	150.319	OK	1591.96	103.477	56.7908	149.757	OK	-0.74637	-0.97571	-0.98649	-1.67756	-1.96661	-1.98136
RSc3391		putative signal peptide protein	5096.87	397.868	171.671	619.541	OK	3756.35	294.581	129.715	458.05	OK	4612.7	342.991	187.312	498.662	OK	3712.47	283.003	152.038	411.7	OK	-0.43363	-0.21412	-0.49147	-1.35062	-1.16	-1.40588
RSc3392		response regulator transcription regulator protein	1486.67	186.632	75.9455	296.34	OK	1006.48	127.292	52.7611	201.504	OK	922.541	108.057	57.0373	159.064	OK	1517.62	184.914	92.7091	276.339	OK	-0.55205	-0.7884	-0.01334	-1.46617	-1.72716	-1.00929
RSc3394		putative restriction modification enzyme R subunit protein	1001.93	23.8717	10.52	37.1795	OK	688.157	16.4189	7.46287	25.3558	OK	709.134	16.4882	9.73486	23.2395	OK	627.357	14.6997	8.78133	20.6006	OK	-0.53994	-0.53387	-0.69951	-1.45392	-1.44781	-1.62396
RSc3395		putative transmembrane protein	188.623	17.5287	2.41033	32.6148	OK	172.959	16.1616	1.95839	30.4304	OK	173.393	15.249	4.01252	26.4529	OK	178.597	16.1767	4.53266	27.7904	OK	-0.11715	-0.201	-0.1158	-1.08459	-1.1495	-1.08358
RSc3396		type I restriction enzyme M protein	523.276	26.2456	8.67704	43.8366	OK	510.598	25.6857	8.40094	43.0108	OK	562.416	27.2051	14.0278	40.342	OK	535.792	26.3381	13.4691	39.1784	OK	-0.03111	0.051802	0.005076	-1.0218	1.036559	1.003524
RSc3397		hypothetical protein	2095.13	377.909	141.707	586.558	OK	1229.12	224.08	82.6417	346.822	OK	2905.45	477.708	230.991	691.013	OK	1745.18	303.419	139.794	443.987	OK	-0.75402	0.33809	-0.31673	-1.68649	1.264082	-1.2455
RSc3398		flavohemoprotein (hemoglobin-like) transmembrane	6467.93	398.984	171.522	625.106	OK	719.437	44.5415	20.4524	68.6196	OK	2623.13	155.255	87.2374	223.256	OK	876.669	52.9222	29.7113	76.122	OK	-3.16311	-1.36169	-2.91439	-8.95758	-2.56986	-7.53907
RSc3399		hypothetical protein	2498.74	153.258	69.0238	236.987	OK	429.638	26.447	13.0184	39.799	OK	795.83	46.841	26.786	66.7816	OK	451.48	27.1002	15.6208	38.2133	OK	-2.53479	-1.71012	-2.49959	-5.79491	-3.27188	-5.65524
RSc3400		tranporter transmembrane protein	924.859	53.9507	24.4174	83.528	OK	981.636	57.4603	25.8418	88.7167	OK	650.224	36.4476	21.0768	51.7888	OK	936.503	53.485	29.9592	77.0308	OK	0.090924	-0.56582	-0.01251	1.065052	-1.48023	-1.00871
RSc3401	***ripS1, skwp1***	Type III effector protein, SKWP family	1623.57	14.7433	6.14357	23.3403	OK	2873.15	26.1044	11.1774	41.043	OK	3141.08	28.0223	15.8172	40.2612	OK	2766.9	24.7571	14.1532	35.3742	OK	0.824234	0.926516	0.747783	1.770594	1.90068	1.67921
RSc3402		hypothetical protein	381.302	35.2816	16.8133	53.6675	OK	661.478	61.5418	27.6219	95.4756	OK	296.769	25.9914	14.9573	36.2826	OK	271.976	24.5297	13.6985	35.32	OK	0.802651	-0.44088	-0.52439	1.744303	-1.35743	-1.43832
RSc3403		two-component sensor kinase transcription regulator protein	801.139	43.7607	12.0542	75.3506	OK	750.717	41.139	12.4864	69.7797	OK	442.375	23.2578	11.0861	35.3901	OK	494.996	26.4843	12.081	40.8384	OK	-0.08913	-0.91192	-0.7245	-1.06373	-1.88155	-1.65233
RSc3404		response regulator transcription regulator protein	697.701	89.151	11.1167	167.901	OK	563.038	72.4901	2.70371	142.267	OK	352.344	41.9663	16.0793	68.0096	OK	475.051	58.8991	22.5652	95.3442	OK	-0.29847	-1.08702	-0.59801	-1.22984	-2.12435	-1.51362
RSc3405		hypothetical protein	537.473	55.4703	25.3179	85.5402	OK	438.838	45.5679	20.9754	69.5629	OK	593.538	57.7108	31.7658	83.0922	OK	577.495	58.0144	31.1192	84.7088	OK	-0.2837	0.057126	0.064696	-1.21731	1.040391	1.045864
RSc3406		putative hydrolase-related protein	1503.91	151.569	63.9186	238.79	OK	1315.6	133.382	56.2001	210.489	OK	991.453	94.2375	50.9998	136.581	OK	1091.53	107.113	56.4725	157.679	OK	-0.18441	-0.6856	-0.50084	-1.13635	-1.60837	-1.41504
RSc3407		putative oxidoreductase protein	1211.85	68.1011	14.4755	121.761	OK	1294.44	72.9839	12.8999	133.086	OK	926.987	50.1045	19.04	81.2116	OK	855.817	47.0987	15.7372	78.4431	OK	0.0999	-0.44274	-0.53199	1.071699	-1.35918	-1.44592
RSc3408		ABC transporter ATP-binding protein	1015.11	108.956	20.0302	197.429	OK	1173	126.704	24.5096	228.192	OK	836.956	84.4818	31.0154	137.985	OK	934.69	97.6018	35.601	159.496	OK	0.217716	-0.36703	-0.15877	1.162891	-1.2897	-1.11633
RSc3409		amino-acid transmembrane ABC transporter protein	678.433	85.6691	1.13648	194.085	OK	829.837	105.574	0.890555	238.287	OK	476.831	56.1618	2.59119	111.892	OK	707.137	86.6594	13.9707	160.785	OK	0.301408	-0.60919	0.016581	1.232346	-1.5254	1.01156
RSc3410		amino acid-binding periplasmic (PBP) ABC transporter protein	1449.15	154.003	64.2333	243.768	OK	1711.19	182.997	76.6439	288.379	OK	1607.22	160.7	85.536	235.183	OK	2461.38	254.511	132.854	375.482	OK	0.248862	0.061411	0.72477	1.188269	1.043486	1.652637
RSc3411		transcription regulator protein	583.108	59.8921	27.0174	92.3979	OK	1010.16	104.387	44.5665	164.063	OK	772.489	74.7672	40.9855	107.094	OK	1051.64	105.148	55.1573	154.36	OK	0.801504	0.32004	0.811984	1.742918	1.248365	1.755624
RSc3412	***cheD4***	putative methyl-accepting chemotaxis I (serine chemoreceptor) transmembrane protein	584.122	27.1413	13.0632	41.1867	OK	8342.53	388.702	161.502	615.346	OK	4722.74	211.984	119.101	304.525	OK	2075.18	94.548	53.3124	135.846	OK	3.840103	2.965394	1.800557	14.32142	7.810385	3.483547
RSc3413		hypothetical protein	851.844	57.5045	26.199	88.7533	OK	930.117	63.0392	28.3341	97.6979	OK	1055.92	68.2165	38.0848	98.3146	OK	1140.49	75.2865	41.2158	109.074	OK	0.132574	0.246446	0.388716	1.096248	1.186281	1.309228
RSc3414		hypothetical protein	722.039	61.2644	27.6903	94.4688	OK	655.958	55.9373	25.4527	86.1477	OK	579.089	46.6645	26.4198	66.9117	OK	586.561	48.5593	26.8336	69.8779	OK	-0.13124	-0.39272	-0.3353	-1.09523	-1.31287	-1.26164
RSc3419		hypothetical protein	281.92	147.15	38.3665	139.764	OK	241.959	129.613	33.3424	118.754	OK	193.4	82.1253	29.7382	82.4559	OK	298.267	146.318	46.1843	131.344	OK	-0.18308	-0.84139	-0.00818	-1.1353	-1.79177	-1.00569
RSc3420		hypothetical protein	5103.97	660.033	260.575	1059.76	OK	5024.1	654.697	259.059	1050.7	OK	4817.22	580.288	315.608	846.119	OK	6272.67	786.929	422.026	1151.92	OK	-0.01171	-0.18577	0.253695	-1.00815	-1.13742	1.192257
RSc3425		hypothetical protein	382.316	153.152	20.6645	284.889	OK	397.439	162.678	36.1127	255.196	OK	272.316	91.8008	32.2606	119.938	OK	397.991	150.648	48.2919	166.449	OK	0.087055	-0.73839	-0.02378	1.0622	-1.66831	-1.01662
RSc3426		hypothetical protein	922.831	59.4904	17.0832	102.177	OK	333.039	21.5513	3.30026	40.1208	OK	201.181	12.4283	4.75682	20.1393	OK	232.086	14.6363	4.98206	24.2796	OK	-1.46488	-2.25903	-2.02311	-2.76041	-4.78669	-4.06458
RSc3427		hypothetical protein	2481.5	243.242	105.055	380.272	OK	951.276	93.788	40.8109	146.809	OK	590.204	54.6276	30.3307	78.1927	OK	728.895	69.5925	37.3898	101.232	OK	-1.37492	-2.15469	-1.80539	-2.59353	-4.45273	-3.49523
RSc3428		hypothetical protein	1992.71	307.742	119.904	489.848	OK	1064.44	165.896	64.7347	260.718	OK	716.914	102.03	51.9006	148.131	OK	960.074	143.378	69.1276	217.039	OK	-0.89144	-1.59273	-1.1019	-1.85503	-3.01619	-2.14637
RSc3429		hypothetical protein	3644.68	583.859	112.816	1052.91	OK	1813.31	293.253	85.0687	501.163	OK	1098.16	161.723	68.15	254.802	OK	1529.41	236.75	101.831	369.475	OK	-0.99347	-1.8521	-1.30226	-1.99097	-3.61024	-2.46614
RSc3430		putative VGR-related protein	5426.45	134.204	19.9831	248.749	OK	1575.95	39.0326	6.09283	72.6682	OK	1024.8	24.7235	9.02286	40.5546	OK	960.981	23.3702	6.88231	39.859	OK	-1.78168	-2.44047	-2.52169	-3.43825	-5.4282	-5.74253
RSc3434		hypothetical protein	408.682	253.648	59.7128	229.968	OK	217.119	138.709	32.0771	115.478	OK	151.163	74.5545	25.0719	69.1302	OK	182.224	106.013	30.427	83.7351	OK	-0.87077	-1.76646	-1.25859	-1.82863	-3.40218	-2.39261
RSc3440	***gyrB***	DNA gyrase subunit B	9717.11	264.381	104.534	424.069	OK	13820.2	376.621	142.477	611.644	OK	14538.4	385.43	202.201	568.092	OK	10781.1	288.346	156.053	420.831	OK	0.510495	0.54385	0.125183	1.424539	1.457858	1.090646
RSc3441	***dnaN***	DNA polymerase III subunit beta	11258.5	760.017	305.154	1212.83	OK	13655.5	925.51	362.4	1488.61	OK	14097.1	910.726	476.145	1342.36	OK	11699.5	772.315	405.327	1139.13	OK	0.284217	0.260985	0.023158	1.217749	1.198297	1.016181
RSc3442	***dnaA***	chromosomal replication initiation protein	3460.11	158.375	71.2967	245.167	OK	3652.39	167.628	75.155	260.149	OK	3322.26	146.942	83.2511	210.395	OK	3205.69	143.889	80.8216	206.265	OK	0.081919	-0.1081	-0.13839	1.058425	-1.07781	-1.10067
RSp0001	***repA***	REPA replicase protein	12121.5	903.511	357.093	1448.96	OK	20706.4	1550.22	572.453	2521.49	OK	18340.8	1304.25	663.986	1943.84	OK	19633.9	1429.8	715.814	2126.39	OK	0.778859	0.529606	0.662199	1.715773	1.443535	1.582493
RSp0002	***cspD3***	cold shock-like transcription regulator protein	7654.43	9148.6	1254.24	6052.43	OK	7751.89	9643.84	1269.08	6136.72	OK	9371.01	8084.14	1850.51	5780.75	OK	7982.49	8906.09	1596.7	4883.84	OK	0.076057	-0.17846	-0.03876	1.054133	-1.13167	-1.02723
RSp0003	***parA***	partition protein	10747.4	1365.16	233.827	2495.18	OK	14179	1814.64	306.988	3323.82	OK	9551.07	1131.23	355.074	1904.81	OK	10613.4	1308.24	390.876	2222.28	OK	0.410613	-0.27118	-0.06144	1.329251	-1.20679	-1.04351
RSp0004	***parB***	putative partitioning protein	13253.3	1012.48	91.6734	2002.83	OK	17663.9	1355.53	55.4064	2697.26	OK	12136.4	883.818	273.162	1496.09	OK	13654.1	1018.85	298.401	1740.34	OK	0.420964	-0.19607	0.009048	1.338822	-1.14558	1.006291
RSp0005		hypothetical protein	2256.37	216.237	92.8949	339.302	OK	3446.31	332.15	143.01	520.999	OK	3049.94	276.257	148.164	402.9	OK	2230.2	208.238	110	305.774	OK	0.619222	0.353398	-0.05438	1.536046	1.277566	-1.03841
RSp0006	***galU2***	UTP--glucose-1-phosphate uridylyltransferase UDP- glucose pyrophosphorylase protein	1097.26	87.8904	38.6673	137.135	OK	524.398	42.2037	19.8003	64.4677	OK	424.591	32.3672	18.5465	46.1689	OK	279.228	21.8359	12.4959	31.1739	OK	-1.05834	-1.44117	-2.009	-2.08253	-2.71542	-4.02504
RSp0007	***kgtP2***	putative alpha-ketoglutarate permease transmembrane protein	592.234	32.2676	15.4294	49.0195	OK	597.078	32.6363	15.5732	49.6903	OK	942.548	49.4316	28.1732	70.6694	OK	632.797	33.7719	19.4755	48.0269	OK	0.016391	0.615347	0.065737	1.011426	1.531927	1.04662
RSp0008	***dctB1***	C4-dicarboxylate transport sensor kinase transcription regulator	321.47	11.8777	1.5889	22.1769	OK	323.839	11.9914	0.946576	23.0221	OK	337.894	12.1118	4.53559	19.7098	OK	213.048	7.72819	2.23444	13.2066	OK	0.013745	0.028158	-0.62005	1.009573	1.019709	-1.53693
RSp0009	***dctD1***	response regulator of the C4-dicarboxylate transport two-component regulatory system transcription regulator protein	590.206	31.5957	8.40474	54.7647	OK	685.397	36.8078	10.4184	63.262	OK	544.632	28.0763	12.9393	43.2513	OK	561.177	29.4304	15.1039	43.8433	OK	0.220283	-0.17038	-0.10242	1.164962	-1.12535	-1.07357
RSp0010		putative lipoprotein transmembrane	516.177	52.2673	23.8881	80.6223	OK	741.517	75.5359	33.0882	117.988	OK	455.713	43.5107	24.2025	62.7355	OK	446.947	44.0636	23.8841	64.0889	OK	0.531254	-0.26454	-0.24632	1.445185	-1.20125	-1.18618
RSp0011		putative signal peptide protein	705.814	168.206	59.4815	234.497	OK	1317.44	318.37	106.142	446.931	OK	1220.42	258.966	116.622	372.366	OK	999.964	228.166	96.3268	303.393	OK	0.920475	0.622534	0.439855	1.892739	1.539576	1.356468
RSp0012		hypothetical protein	1352.81	34.3677	14.9481	53.8466	OK	3088.43	78.5782	34.8152	122.45	OK	2069.6	51.2732	29.3748	73.119	OK	3039.78	75.9303	43.1318	108.666	OK	1.193076	0.577152	1.143622	2.286397	1.491901	2.209351
RSp0013		amino acid-binding periplasmic (PBP) ABC transporter protein	8654.33	557.902	231.145	882.754	OK	12477	807.399	319.953	1294.23	OK	7513.7	464.174	251.609	676.302	OK	9403.11	592.998	315.797	863.833	OK	0.53327	-0.26535	0.088016	1.447206	-1.20192	1.062907
RSp0014		amino-acid transmembrane lipoprotein ABC transporter	874.154	78.1888	34.537	121.354	OK	1495.91	134.512	57.5374	211.092	OK	542.409	45.9834	25.9313	65.5485	OK	555.737	48.4708	26.6516	70.0864	OK	0.782701	-0.76585	-0.68985	1.720349	-1.70037	-1.61311
RSp0015		amino-acid transmembrane ABC transporter protein	800.125	69.8217	30.984	108.265	OK	1659.67	145.578	62.6121	228.409	OK	796.942	65.977	36.7777	95.1562	OK	732.521	62.349	34.0247	89.156	OK	1.060045	-0.08171	-0.16331	2.084996	-1.05827	-1.11985
RSp0016		amino-acid ATP-binding ABC transporter protein	1076.97	109.053	29.618	188.522	OK	1666.11	169.721	45.5972	293.355	OK	1284.89	122.679	51.5896	193.62	OK	894.8	88.2166	38.2145	138.209	OK	0.638136	0.169859	-0.30591	1.556317	1.124948	-1.2362
RSp0017		amino-acid ATP-binding ABC transporter protein	1175.34	134.206	18.8405	249.266	OK	1740.63	200.101	30.0043	372.467	OK	1473.84	157.794	64.452	252.241	OK	861.257	95.5898	34.8505	156.161	OK	0.576279	0.233593	-0.48952	1.490999	1.17576	-1.40398
RSp0018		transcriptional regulator transcription regulator protein	363.048	31.2991	15.0907	47.4683	OK	636.638	55.1663	25.0803	84.5927	OK	314.553	25.7393	14.9568	36.4136	OK	303.706	25.5422	14.4676	36.3437	OK	0.817666	-0.28215	-0.29324	1.762552	-1.216	-1.22539
RSp0019		hypothetical protein	119.664	41.1875	13.3243	45.5248	OK	73.5997	25.8224	8.14265	29.2395	OK	111.149	32.7797	13.5096	39.616	OK	97.0047	31.6643	11.684	34.5042	OK	-0.67358	-0.3294	-0.37935	-1.59503	-1.25649	-1.30076
RSp0020		putative voltage-gated ClC-type chloride channel ClcE	921.817	48.5013	22.0246	74.9022	OK	829.837	43.7977	20.2124	67.3748	OK	613.545	31.0989	18.0602	44.0504	OK	796.889	41.08	23.4691	58.4894	OK	-0.14717	-0.64116	-0.23959	-1.10739	-1.55958	-1.18065
RSp0021		hypothetical protein	340.738	1501.3	88.9347	327.262	OK	600.758	2817.05	151.145	580.485	OK	688.015	1749.35	197.078	603.334	OK	354.475	1438.51	104.157	302.531	OK	0.907973	0.220607	-0.06164	1.876407	1.165223	-1.04365
RSp0022		hypothetical protein	9.1269	13.9642	1.36298	7.83716	OK	5.51998	8.82682	0.681492	5.79268	OK	15.5609	16.5284	2.68917	11.0928	OK	12.6922	18.1229	2.01688	9.74823	OK	-0.66177	0.243214	0.376081	-1.58202	1.183627	1.297812
RSp0023	***ripG3, gala3***	putative signal peptide protein	734.208	78.8055	34.4824	122.97	OK	1140.8	123.226	51.8927	194.133	OK	942.548	95.1402	51.1088	139.236	OK	1040.76	108.678	56.4447	160.163	OK	0.644938	0.271759	0.463692	1.563673	1.207279	1.379066
RSp0024		hypothetical protein	504.008	102.042	39.3114	148.525	OK	313.719	64.2793	25.3579	94.8573	OK	308.996	56.5078	28.0598	80.2086	OK	268.349	52.2297	24.2214	65.6493	OK	-0.66674	-0.85264	-0.96622	-1.58748	-1.8058	-1.95372
RSp0025		hypothetical protein	138.932	47.0788	15.4122	55.594	OK	159.159	54.963	17.6139	62.0158	OK	178.951	52.051	22.0822	61.1786	OK	141.427	45.4677	17.3762	48.1465	OK	0.223383	0.144848	-0.05024	1.167468	1.105614	-1.03543
RSp0026		hypothetical protein	108.509	71.1258	16.4159	58.8448	OK	140.759	95.0619	21.467	73.998	OK	104.481	54.0106	17.44	50.8253	OK	121.483	74.5911	20.4298	59.2962	OK	0.418494	-0.39713	0.068631	1.336532	-1.31689	1.048721
RSp0027	***mntH***	putative manganese transport transmembrane protein	2914.52	126.651	57.4281	195.945	OK	2816.11	122.689	55.3128	189.991	OK	2971.03	124.887	70.6808	179.04	OK	3046.13	129.847	73.1541	186.189	OK	-0.04585	-0.02024	0.035954	-1.03229	-1.01412	1.025235
RSp0028	***ripG3, gala3***	Type III effector protein GALA3	1327.46	51.8117	22.9597	80.7145	OK	1368.03	53.5186	23.7772	83.2735	OK	1522.75	57.6053	32.6774	82.4298	OK	1193.97	45.7395	25.9105	65.2847	OK	0.046762	0.152924	-0.17984	1.032944	1.11182	-1.13276
RSp0029		putative HNS-like transcription regulator protein	4193.3	2092.37	510.512	2104.88	OK	4588.94	2348.19	554.564	2310.39	OK	2090.72	853.777	301.554	960.695	OK	2223.86	1043.75	321.408	1019.37	OK	0.166411	-1.29321	-1.00336	1.122263	-2.45072	-2.00467
RSp0030		oxacillin hydrolase	1245.31	122.068	51.9769	191.63	OK	1305.48	128.709	54.4931	202.639	OK	839.179	77.6721	42.5871	112.557	OK	1147.74	109.582	57.6361	160.574	OK	0.076428	-0.65222	-0.15567	1.054404	-1.57158	-1.11394
RSp0031		hypothetical protein	420.852	55.7673	24.6473	86.1661	OK	371.679	49.6392	21.9639	75.6314	OK	339.006	41.7878	22.6478	60.2962	OK	266.536	34.2495	17.8438	48.335	OK	-0.16794	-0.41634	-0.70334	-1.12345	-1.33454	-1.62827
RSp0032		salicylyl-CoA 5-hydroxylase	3010.86	88.2978	39.3835	137.159	OK	1176.68	34.5674	15.1853	53.9679	OK	2514.2	71.7763	41.1689	102.41	OK	2020.78	58.2392	33.1399	83.3347	OK	-1.35297	-0.29887	-0.60039	-2.55437	-1.23018	-1.51612
RSp0033		oxidoreductase protein	1031.34	108.527	9.90144	207.015	OK	255.759	27.0814	1.24808	52.8354	OK	444.598	44.0378	9.60361	78.3885	OK	381.673	39.084	8.94696	69.2773	OK	-2.00268	-1.30124	-1.4734	-4.00744	-2.46441	-2.77676
RSp0034		putative transcription regulator protein	861.985	125.026	7.86415	241.769	OK	242.879	35.5322	2.01917	68.5456	OK	484.612	65.0358	15.2015	114.692	OK	434.255	60.9814	14.9918	106.83	OK	-1.81503	-0.94292	-1.03579	-3.51867	-1.92242	-2.05023
RSp0035		enoyl-CoA hydratase	2493.67	232.744	45.6403	420.096	OK	744.277	69.8507	14.2653	125.384	OK	1198.19	105.814	43.4493	168.41	OK	1002.68	91.2096	37.9326	144.453	OK	-1.7364	-1.13721	-1.35149	-3.33202	-2.19956	-2.55175
RSp0036		acyl-CoA dehydrogenase oxidoreductase protein	2137.72	132.631	59.1416	206.19	OK	773.717	48.18	22.0573	74.1685	OK	878.081	52.2632	29.5422	74.8085	OK	930.157	56.4732	31.554	81.2675	OK	-1.46091	-1.34355	-1.23178	-2.75282	-2.53775	-2.34857
RSp0037		acetyl-coenzyme A synthetase	3964.12	175.097	73.6238	276.487	OK	1795.83	79.5301	34.3074	124.827	OK	2628.69	112.279	62.0806	162.359	OK	2416.96	104.713	58.7863	150.201	OK	-1.13858	-0.64107	-0.74171	-2.20164	-1.55948	-1.67216
RSp0038		putative 4-hydroxybenzoyl-COA thioesterase protein	468.514	121.005	0	364.942	OK	212.519	55.7174	0	167.268	OK	264.536	60.367	0	152.437	OK	239.339	59.0615	0.24677	146.334	OK	-1.11887	-1.00323	-1.03478	-2.17176	-2.00449	-2.0488
RSp0039		hypothetical protein	760.575	211.592	69.9726	278.743	OK	293.479	82.9638	28.8412	108.318	OK	504.619	123.113	54.8021	162.79	OK	433.348	114.963	47.3658	139.511	OK	-1.35073	-0.7813	-0.88012	-2.55041	-1.71868	-1.84052
RSp0070		putative formate dehydrogenase oxidoreductase protein	1.0141	0.030618	0	0.140307	OK	4.59998	0.139133	0.028061	0.252553	OK	6.66897	0.195935	0.055365	0.332191	OK	7.25269	0.215173	0.083048	0.359874	OK	2.183999	2.677909	2.813031	4.544113	6.399278	7.027595

RSp0071		hypothetical protein	148.059	77.2804	20.5535	70.3387	OK	44.1598	23.6556	5.93768	21.6954	OK	36.6793	15.5755	5.18165	17.5726	OK	38.9832	19.1237	5.40694	18.9243	OK	-1.70792	-2.31082	-2.01474	-3.2669	-4.96166	-4.04108
RSp0072		hypothetical protein	223.102	113.832	30.5057	108.013	OK	105.8	55.3795	14.236	51.2948	OK	100.035	41.6489	14.9355	43.469	OK	91.5652	43.9262	13.598	39.6794	OK	-1.03948	-1.45056	-1.37375	-2.05549	-2.73313	-2.59144
RSp0073		remnant of a transposase gene protein	18.2538	209.628	5.11119	20.9559	OK	44.1598	549.533	13.2891	48.5563	OK	54.4632	295.644	17.6477	52.943	OK	42.6095	424.689	13.6139	47.9008	OK	1.390375	0.49603	1.018575	2.621468	1.410327	2.025917
RSp0074		putative signal peptide protein	1168.24	148.393	60.7429	235.271	OK	1742.47	223.003	89.9111	355.794	OK	822.506	97.4176	51.471	143.017	OK	1354.44	166.952	83.3793	247.669	OK	0.58764	-0.60717	0.17001	1.502787	-1.52327	1.125067
RSp0075	***kgtP1***	putative alpha-ketoglutarate permease transmembrane protein	4434.66	247.912	109.737	386.21	OK	4074.66	228.541	102.14	354.647	OK	2485.3	133.651	75.3773	191.949	OK	4968.09	271.998	149.836	393.809	OK	-0.11738	-0.89136	0.133768	-1.08476	-1.85492	1.097155
RSp0076		hypothetical protein	23.3243	10.6902	2.79071	10.9482	OK	66.2398	31.0894	8.5868	29.8391	OK	30.0104	11.3814	3.8119	13.3416	OK	14.5054	6.26364	1.69418	7.41202	OK	1.540134	0.090389	-0.77122	2.908215	1.064657	-1.70671
RSp0077		hypothetical protein	43.6063	37.8988	7.06151	25.7039	OK	79.1197	71.1914	13.2756	47.1709	OK	61.1322	40.2368	11.1459	32.8804	OK	49.8622	40.4941	8.91672	27.0288	OK	0.909551	0.086363	0.09556	1.878461	1.061691	1.06848
RSp0078		hypothetical protein	182.538	11.3252	5.74242	16.9053	OK	228.159	14.2076	7.13778	21.2523	OK	104.481	6.21866	3.60012	8.78854	OK	156.839	9.52228	5.55901	13.4475	OK	0.327126	-0.86486	-0.25016	1.254512	-1.82116	-1.18934
RSp0079		putative DNA-binding transcriptional regulatory transcription regulator protein	578.037	56.4028	25.541	87.1999	OK	484.838	47.5825	21.9371	73.1758	OK	410.142	37.7964	21.2545	53.2522	OK	403.431	38.3453	21.0999	55.1844	OK	-0.24534	-0.57752	-0.55672	-1.18537	-1.49228	-1.47092
RSp0080		hypothetical protein	1490.73	246.152	93.5681	395.973	OK	1618.27	269.838	101.735	429.457	OK	1229.31	186.218	91.8446	272.656	OK	985.459	157.142	74.3504	233.64	OK	0.132544	-0.40256	-0.64748	1.096225	-1.32185	-1.56643
RSp0081		hypothetical protein	804.181	118.24	48.0861	187.192	OK	699.197	103.703	42.29	164.545	OK	674.677	91.7053	47.331	134.052	OK	537.605	76.5094	38.2248	113.933	OK	-0.18926	-0.36664	-0.62801	-1.14018	-1.28935	-1.54543
RSp0098		hypothetical protein	42.5922	18.0393	0	35.9159	OK	57.0398	24.7069	0	59.2407	OK	66.6897	23.6066	0	70.0477	OK	35.3568	14.1322	0	35.6347	OK	0.453771	0.388047	-0.35216	1.369615	1.308621	-1.27647
RSp0099	***ripA2, ripA***	Type III effector protein, AWR family, AWR protein 2	828.52	16.5603	6.49605	26.7837	OK	2242.95	44.8847	17.43	72.3614	OK	20025.8	391.299	184.162	599.147	OK	2825.83	55.5747	29.8737	81.3415	OK	1.438495	4.562471	1.746699	2.71038	23.62874	3.355899
RSp0100		putative ferrisiderophore receptor protein	1133.76	37.4437	16.5576	58.3024	OK	7971.77	263.79	109.348	418.21	OK	10391.4	333.525	181.781	485.511	OK	2819.48	91.4649	52.0406	130.733	OK	2.816595	3.155	1.288495	7.044977	8.907373	2.442731
RSp0101		hypothetical protein	183.552	8.2433	4.23691	12.2265	OK	210.679	9.48669	4.84218	14.123	OK	155.609	6.75556	4.1001	9.4342	OK	186.757	8.22575	4.97585	11.4643	OK	0.202683	-0.28715	-0.00307	1.150836	-1.22022	-1.00213
RSp0104		hypothetical protein	111.551	10.2774	4.97514	15.5704	OK	30.3599	2.8124	1.2969	4.35387	OK	14.4494	1.26028	0.523322	2.00607	OK	35.3568	3.17533	1.62334	4.72244	OK	-1.8696	-3.02766	-1.6945	-3.65432	-8.15485	-3.23664
RSp0106	***modA***	putative molybdate-binding periplasmic signal peptide protein	3699.44	389.289	165.329	613.224	OK	6560.5	694.666	279.986	1103.72	OK	3734.62	369.918	196.176	542.153	OK	3467.69	355.098	183.782	519.908	OK	0.835478	-0.07364	-0.13262	1.784448	-1.05237	-1.09629
RSp0107		putative transport transmembrane protein	3123.43	176.914	80.0674	272.477	OK	2983.55	169.557	76.4483	261.967	OK	1758.38	95.7756	53.7011	136.894	OK	1498.59	83.1206	45.9736	120.02	OK	-0.06128	-0.88532	-1.08977	-1.04339	-1.84717	-2.1284
RSp0108		putative transcription regulator protein	1418.73	186.843	75.1839	298.362	OK	965.076	128.093	52.5298	202.403	OK	729.141	89.358	47.0388	130.089	OK	776.038	99.1183	50.2592	142.19	OK	-0.54463	-1.06416	-0.9146	-1.45865	-2.09095	-1.88505
RSp0109		hypothetical protein	2006.9	160.753	70.6677	250.537	OK	2355.19	189.546	83.4013	295.271	OK	1610.56	122.775	67.2804	178.033	OK	1550.26	121.232	65.11	177.047	OK	0.237702	-0.38883	-0.40708	1.179113	-1.30933	-1.32599
RSp0110		hypothetical protein	528.346	37.9329	7.41919	68.2322	OK	804.077	57.9745	12.1018	103.747	OK	284.543	19.5136	6.71911	32.2757	OK	489.556	34.3514	13.5582	55.1927	OK	0.611969	-0.95897	-0.14308	1.528343	-1.94392	-1.10426
RSp0111		hypothetical protein	789.984	27.004	5.33255	48.745	OK	1173	40.1775	8.04923	72.2375	OK	580.2	19.2647	9.16415	29.3851	OK	706.23	23.7094	10.2729	37.1639	OK	0.573215	-0.48721	-0.18771	1.487835	-1.40173	-1.13896
RSp0112		putative carbonic anhydrase protein	12491.7	1665.56	611.26	2710.73	OK	3755.43	504.692	203.487	803.365	OK	2399.72	297.535	154.347	439.205	OK	2542.07	328.646	163.606	483.628	OK	-1.72253	-2.48488	-2.3414	-3.30015	-5.59786	-5.06795
RSp0113		hypothetical protein	13868.8	637.518	248.004	1027.16	OK	5820.82	268.297	117.224	420.646	OK	3128.86	138.969	78.7743	198.887	OK	2611.87	117.734	66.4988	168.808	OK	-1.24864	-2.1977	-2.43694	-2.37617	-4.58748	-5.4149
RSp0114		hypothetical protein	1235.17	128.093	54.2844	201.757	OK	528.078	55.1009	25.0037	84.881	OK	440.152	42.9942	23.9359	61.99	OK	303.706	30.6554	16.8768	43.9772	OK	-1.21704	-1.57498	-2.06298	-2.3247	-2.97931	-4.17848
RSp0115		putative signal peptide protein	597.305	156.134	54.141	208.04	OK	211.599	56.1562	20.2042	71.504	OK	202.292	46.6658	21.4886	58.8602	OK	162.279	40.517	17.1286	47.6487	OK	-1.47527	-1.74235	-1.94619	-2.78035	-3.34579	-3.85354
RSp0116		putative lipoprotein	754.49	43.3063	19.9623	66.658	OK	100.28	5.7754	2.95924	8.57677	OK	101.146	5.58099	3.21616	7.91671	OK	96.0981	5.40091	3.1172	7.71879	OK	-2.90658	-2.95598	-3.0033	-7.49841	-7.75961	-8.01833
RSp0117		hypothetical protein	17.2397	20.6049	2.84122	12.9433	OK	22.0799	27.4688	3.78829	18.3101	OK	25.5644	22.0538	4.67144	16.5058	OK	11.7856	13.1493	1.86858	8.72002	OK	0.414806	0.09804	-0.648	1.33312	1.070318	-1.567
RSp0118		hypothetical protein	1896.37	548.691	172.071	719.647	OK	124.2	36.536	12.5783	42.934	OK	203.404	51.401	22.9971	62.8698	OK	138.708	38.2316	15.552	43.1816	OK	-3.9086	-3.41613	-3.84316	-15.0178	-10.6747	-14.3518
RSp0119		hypothetical protein	2850.64	178.409	0.757023	357.855	OK	335.799	21.094	0.162219	42.4473	OK	435.706	26.1536	6.72123	45.555	OK	593.814	36.3653	10.5619	62.1447	OK	-3.08028	-2.77011	-2.29455	-8.45781	-6.82158	-4.90602
RSp0120	***acnA2***	aconitate hydratase	8388.64	221.771	49.7811	394.072	OK	1069.96	28.3307	8.42013	48.3231	OK	1217.09	31.3634	15.1008	47.6216	OK	1426.06	37.064	17.5956	56.5554	OK	-2.96863	-2.82192	-2.58098	-7.82794	-7.07101	-5.98346
RSp0121	***prpC***	methylcitrate synthase	5806.74	373.211	162.939	583.703	OK	878.597	56.684	25.7272	87.6938	OK	1756.16	108.175	60.4205	155.718	OK	1873.91	117.826	64.8961	170.127	OK	-2.71898	-1.78662	-1.66333	-6.58406	-3.45007	-3.16748
RSp0122	***prpB***	2-methylisocitrate lyase	2343.59	182.28	80.5988	283.95	OK	734.157	57.3646	26.0206	88.3399	OK	1470.51	108.961	59.6812	157.931	OK	1884.79	143.163	77.4572	208.435	OK	-1.66792	-0.74234	-0.3485	-3.17757	-1.67289	-1.27323
RSp0123	***prpR***	putative propionate catabolism operon regulatory transcription regulator protein	1192.58	42.9548	18.957	66.944	OK	2023.07	73.0228	32.4317	113.577	OK	922.541	32.2496	18.7011	45.7427	OK	1217.54	43.0594	24.5004	61.5768	OK	0.765528	-0.41354	0.003509	1.699992	-1.33195	1.002435
RSp0124		putative lipoprotein transmembrane	829.534	79.854	35.2617	123.92	OK	1128.84	109.286	46.8864	171.426	OK	550.19	50.0491	27.9814	72.0178	OK	592.001	55.521	30.0456	80.8097	OK	0.452672	-0.67402	-0.52433	1.368573	-1.59551	-1.43827
RSp0125		hypothetical protein	665.25	102.004	41.6061	161.224	OK	272.319	42.136	17.926	65.5075	OK	150.052	21.2126	11.1344	30.7834	OK	269.256	39.9292	20.0856	54.3621	OK	-1.2755	-2.26563	-1.35311	-2.42083	-4.80865	-2.55462
RSp0128		hypothetical protein	5965.95	229.107	97.9147	358.74	OK	1674.39	64.4466	28.4709	100.261	OK	1163.74	43.3274	24.7701	61.8043	OK	1382.54	52.1149	29.5375	74.6902	OK	-1.82985	-2.40267	-2.13625	-3.55499	-5.28781	-4.39619
RSp0132		hypothetical protein	2671.14	134.92	60.8605	209.023	OK	2116.91	107.245	47.8638	165.955	OK	1298.23	63.2307	35.7669	90.5889	OK	2542.97	125.882	70.738	181.001	OK	-0.33119	-1.09341	-0.10003	-1.25805	-2.13377	-1.0718
RSp0133		hypothetical protein	767.674	62.6598	28.2389	96.9739	OK	1202.44	98.6209	43.1371	153.994	OK	824.729	64.0227	35.6071	91.9237	OK	1076.12	85.7364	46.6299	124.859	OK	0.654353	0.031043	0.452368	1.57391	1.021751	1.368284
RSp0134		hypothetical protein	1446.11	100.79	44.0607	157.504	OK	2203.39	154.205	68.4335	239.754	OK	1893.99	126.209	70.1422	182.288	OK	2188.5	149.117	81.8423	214.814	OK	0.613497	0.324462	0.565092	1.529963	1.252198	1.479482
RSp0135		putative hydrolase transmembrane protein	573.981	41.6269	19.627	63.665	OK	561.198	40.8746	19.3203	62.377	OK	503.507	34.8687	20.0881	49.3126	OK	641.863	45.4907	25.4731	65.5283	OK	-0.02631	-0.25558	0.128056	-1.01841	-1.19382	1.09282
RSp0136		putative NADH oxidase-related oxidoreductase protein	828.52	49.6808	22.8217	76.4892	OK	688.157	41.4106	19.1223	63.6194	OK	535.74	30.8468	17.9903	43.7422	OK	671.78	39.4297	22.5136	56.3355	OK	-0.26269	-0.68757	-0.33341	-1.19971	-1.61057	-1.25998
RSp0137		putative transcription regulator protein	1704.7	369.474	129.083	542.848	OK	2051.59	450.363	156.302	649.762	OK	1852.86	360.644	167.48	533.721	OK	1724.33	358.681	155.853	496.072	OK	0.285615	-0.0349	-0.04277	1.21893	-1.02448	-1.03009
RSp0138	***pme***	putative pectinesterase	41341.8	2299.17	806.769	3788.29	OK	1179.44	65.8085	29.322	102.359	OK	1373.81	73.5051	41.3918	105.597	OK	1054.36	57.4282	32.1508	82.6392	OK	-5.1267	-4.96712	-5.32321	-34.9373	-31.2791	-40.0356
RSp0139		hypothetical protein	2262.46	505.63	176.316	728.733	OK	196.879	44.5812	17.0305	60.1076	OK	411.253	82.3166	39.2484	115.769	OK	464.172	99.4841	44.0486	130.734	OK	-3.50357	-2.61883	-2.34554	-11.3418	-6.1425	-5.08252
RSp0140		putative transmembrane protein	480.683	97.32	35.823	157.648	OK	137.079	28.0868	10.5993	43.6048	OK	185.62	33.9453	16.4123	48.4428	OK	155.026	30.1732	13.8975	40.369	OK	-1.79284	-1.51952	-1.68947	-3.46497	-2.86697	-3.22538
RSp0141		putative general secretion pathway GSPG related transmembrane protein	112.565	31.7228	0.281818	73.5544	OK	40.4799	11.5942	0	23.7728	OK	34.4563	8.50435	0.246815	17.2771	OK	28.1042	7.55016	0.268649	15.313	OK	-1.45212	-1.89925	-2.07094	-2.73609	-3.73019	-4.20161
RSp0142		putative general secretion pathway GSPG related transmembrane protein	75.0434	13.5359	0	34.8684	OK	44.1598	8.05078	0	25.3137	OK	53.3517	8.77198	0	22.5237	OK	35.3568	6.1472	0	16.5256	OK	-0.74959	-0.62582	-1.13879	-1.68132	-1.54308	-2.20196
RSp0143		putative GSPD-related protein	455.331	13.9437	1.59225	26.3859	OK	545.558	16.737	2.16092	31.3901	OK	555.747	16.5576	5.89035	27.2078	OK	504.062	15.167	5.49766	24.8517	OK	0.263428	0.24788	0.121322	1.200327	1.187461	1.087731
RSp0144		prolin-rich transmembrane protein	32.4512	5.95333	0	19.0818	OK	49.6798	9.21344	0	28.3716	OK	45.5713	7.61092	0	20.4341	OK	43.5161	7.69208	0	18.948	OK	0.630043	0.354374	0.369677	1.547611	1.278431	1.292063
RSp0145		hypothetical protein	39.5499	6.68475	0	22.1786	OK	42.3198	7.22487	0	23.7204	OK	58.9092	9.11932	0	21.8792	OK	44.4227	7.2474	0	18.0182	OK	0.112098	0.448053	0.11659	1.080799	1.364198	1.084169
RSp0146		hypothetical protein	28.3948	5.1217	0	17.248	OK	34.0399	6.20581	0	21.7152	OK	28.8989	4.75149	0	14.8118	OK	31.7305	5.51672	0	15.3014	OK	0.276997	-0.10824	0.107188	1.21167	-1.07791	1.077127
RSp0147		hypothetical protein	51.7191	5.0011	0	16.8003	OK	60.7198	5.9051	0	20.3781	OK	64.4667	5.88964	0	15.2691	OK	60.7413	5.72198	0	14.6552	OK	0.239716	0.235934	0.194269	1.18076	1.177669	1.144144
RSp0148		putative general secretion pathway GSPE-related protein	248.455	10.4991	0.076395	23.0331	OK	296.239	12.5496	0.076395	27.0438	OK	273.428	11.1827	1.658	20.6873	OK	262.003	10.8623	1.43191	20.3105	OK	0.257376	0.091003	0.049064	1.195302	1.06511	1.034593
RSp0149		general secretion pathway GSPF-like transmembrane protein	284.962	17.8867	0.313843	41.8667	OK	313.719	19.7648	0.252007	46.5583	OK	312.33	18.8012	2.04668	35.8771	OK	274.696	16.8712	1.41261	32.3672	OK	0.144046	0.071938	-0.08432	1.105	1.051127	-1.06019
RSp0150		general secretion pathway GSPG-like transmembrane protein	24.3384	5.73681	2.07268	7.84656	OK	40.4799	9.67402	3.55316	12.5841	OK	25.5644	5.3708	2.19074	7.74063	OK	20.8515	4.70709	1.7526	7.30248	OK	0.753867	-0.09511	-0.28541	1.686307	-1.06815	-1.21876
RSp0151		putative RHS-related protein	988.748	12.8095	5.53299	20.0869	OK	1179.44	15.2916	6.51161	24.0767	OK	854.739	10.8597	6.29994	15.4342	OK	1005.4	12.8278	7.42625	18.2315	OK	0.255525	-0.23823	0.00206	1.19377	-1.17954	1.001429
RSp0158		hypothetical protein	233.243	124.6	32.3159	116.106	OK	320.159	175.598	44.319	161.58	OK	182.285	78.9778	28.464	78.5606	OK	180.411	90.5439	28.0086	77.6497	OK	0.494972	-0.65778	-0.46061	1.409294	-1.57766	-1.37613
RSp0159		hypothetical protein	1224.02	316.133	104.201	436.078	OK	1035	271.351	89.1585	367.133	OK	613.545	140.011	63.0679	190.595	OK	838.592	206.939	85.4817	264.638	OK	-0.22037	-1.17499	-0.61133	-1.16503	-2.25792	-1.52766
RSp0160	***ripH3, hlk3***	Type III effector protein	1525.21	49.8349	21.8293	77.8367	OK	2742.51	89.7822	39.8543	139.671	OK	3042.16	96.6172	54.8343	138.262	OK	1910.18	61.3093	34.7592	87.866	OK	0.849273	0.955124	0.298949	1.801593	1.938746	1.230248
RSp0161		putative transmembrane protein	1834.51	88.8966	39.6945	137.959	OK	5226.5	253.991	111.697	395.52	OK	5237.36	244.948	135.969	353.45	OK	2900.17	137.768	77.039	197.711	OK	1.514577	1.462275	0.632041	2.857151	2.755426	1.549756
RSp0162	***egl***	endoglucanase precursor (endo-1,4-BETA- glucanase) protein	5029.94	294.215	129.516	459.22	OK	193.199	11.3399	5.76193	16.8269	OK	160.055	8.99552	5.33203	12.5755	OK	164.092	9.39687	5.58354	13.2295	OK	-4.69739	-5.03152	-4.96855	-25.9451	-32.7068	-31.3099
RSp0163		putative phosphopantetheinyl transferase protein	1221.99	119.782	45.1357	194.304	OK	390.999	38.5492	13.2105	63.9292	OK	258.978	23.9703	12.4891	35.3729	OK	302.8	28.9103	13.8078	43.9834	OK	-1.63564	-2.32109	-2.05076	-3.10725	-4.9971	-4.14323
RSp0164		hypothetical protein	405.64	20.298	0.200158	46.5867	OK	287.959	14.4519	2.25844	27.0008	OK	132.268	6.38345	2.02698	10.7623	OK	222.114	10.8932	4.16869	17.6066	OK	-0.49008	-1.66893	-0.89791	-1.40452	-3.17979	-1.86336
RSp0165		hypothetical protein	68.9588	90.4945	13.3356	47.8129	OK	47.8398	65.4481	9.10721	32.5258	OK	37.7908	35.2779	7.37993	25.9902	OK	51.6754	63.2964	10.5886	32.0867	OK	-0.46748	-1.35907	-0.51571	-1.38269	-2.56519	-1.42969
RSp0166	***cysC2***	adenylylsulfate kinase	92.2831	13.033	5.83569	20.2165	OK	162.839	23.1906	10.3167	36.0562	OK	38.9023	5.0917	2.46725	7.71015	OK	131.455	17.9829	9.14937	25.3921	OK	0.831371	-1.35595	0.464456	1.779375	-2.55966	1.379797
RSp0167		hypothetical protein	348.85	29.8355	14.3583	45.2566	OK	509.678	43.8112	20.4816	67.0756	OK	214.518	17.419	10.0678	24.7183	OK	409.777	34.1913	19.1636	49.0894	OK	0.55427	-0.77637	0.196599	1.468425	-1.71281	1.145994
RSp0168		hypothetical protein	307.272	44.8713	19.6514	67.9254	OK	426.878	62.879	26.9138	97.6161	OK	303.438	40.9817	21.8094	59.0011	OK	251.124	35.5002	18.1218	51.4153	OK	0.486785	-0.13081	-0.33797	1.401319	-1.09491	-1.26397
RSp0169		putative transmembrane protein	34863.7	11999.9	2969.11	20019.6	OK	262.199	91.9923	29.0545	108.445	OK	221.187	65.2316	27.5669	75.033	OK	187.663	61.257	23.5505	66.27	OK	-7.02729	-7.52324	-7.61393	-130.445	-183.958	-195.894
RSp0170		hypothetical protein	301.188	197.424	45.7121	165.927	OK	76.3597	51.5695	11.6174	41.6712	OK	70.0242	36.1986	11.4606	34.1327	OK	72.5269	44.532	11.7097	35.8767	OK	-1.93671	-2.44729	-2.14838	-3.82831	-5.45391	-4.43331
RSp0171		hypothetical protein	163.27	79.7071	21.9096	76.573	OK	139.839	69.9839	18.59	64.401	OK	62.2437	24.9398	8.73287	26.1986	OK	34.4503	15.8258	4.58475	15.9375	OK	-0.18769	-1.67626	-2.33243	-1.13893	-3.19598	-5.03653
RSp0172		hypothetical protein	6325.96	563.478	234.9	890.844	OK	105.8	9.47374	4.58448	14.3356	OK	141.16	11.9193	6.81978	16.9418	OK	102.444	8.89843	4.88152	12.8499	OK	-5.89428	-5.56299	-5.98466	-59.4779	-47.2744	-63.3233
RSp0173		putative NIFS-like protein	5670.85	362.308	69.3549	656.064	OK	139.839	8.96805	3.4127	14.4765	OK	117.818	7.21532	3.52953	10.8601	OK	129.642	8.10333	3.96394	12.2176	OK	-5.33628	-5.65001	-5.48256	-40.3999	-50.2137	-44.711
RSp0174		methyltransferase protein	6649.45	645.894	60.3208	1244.98	OK	118.68	11.5943	3.02852	20.3204	OK	126.71	11.6263	5.13829	18.0758	OK	141.427	13.3824	5.86665	20.9118	OK	-5.79981	-5.79583	-5.59289	-55.7079	-55.5546	-48.2644
RSp0175		putative VGR-related protein	3477.35	82.1211	36.0681	128.2	OK	821.557	19.4289	8.78297	30.0939	OK	356.79	8.22355	4.99193	11.4352	OK	325.464	7.5591	4.64007	10.4896	OK	-2.07955	-3.31992	-3.44147	-4.22675	-9.98609	-10.8639
RSp0176		hypothetical protein	1228.08	117.168	50.2435	183.893	OK	444.358	42.6352	19.9281	65.3243	OK	203.404	18.3454	10.4747	26.111	OK	203.075	18.8783	10.4747	27.1736	OK	-1.45846	-2.67509	-2.63378	-2.74815	-6.38678	-6.20649
RSp0177		hypothetical protein	6353.34	198.525	83.869	313.111	OK	2228.23	69.7549	30.8823	108.639	OK	1621.67	49.2859	28.2077	70.362	OK	1505.84	46.2297	26.2071	66.1037	OK	-1.50895	-2.01007	-2.10243	-2.84604	-4.02803	-4.29432
RSp0178		hypothetical protein	11914.7	1235.6	386.817	2077.69	OK	1304.56	136.12	48.3624	223.553	OK	1970.68	192.497	95.9059	288.123	OK	894.8	90.319	41.7053	138.666	OK	-3.18226	-2.6823	-3.77404	-9.07728	-6.4188	-13.6804
RSp0179		hypothetical protein	4232.85	796.949	8.28418	1872.79	OK	650.438	123.833	5.71152	261.207	OK	839.179	143.548	26.6851	262.403	OK	543.045	98.4561	29.0086	168.431	OK	-2.68609	-2.47295	-3.01693	-6.43568	-5.55179	-8.09446
RSp0180		hypothetical protein	1733.1	427.18	142.2	599.401	OK	1194.16	298.6	98.6568	413.202	OK	1044.81	228.572	102.432	324.567	OK	1057.99	249.463	103.933	328.322	OK	-0.51663	-0.9022	-0.77602	-1.43061	-1.86891	-1.7124

RSp0181		hypothetical protein	689.588	182.463	62.0158	244.565	OK	581.438	156.222	53.1109	203.857	OK	634.664	148.02	66.1984	201.262	OK	470.518	118.877	49.5703	147.456	OK	-0.22401	-0.30181	-0.61813	-1.16797	-1.23269	-1.53489
RSp0182		transporter transmembrane protein	293.075	15.7285	7.99102	23.4056	OK	265.879	14.3143	7.28176	21.2779	OK	255.644	13.2108	7.97643	18.4717	OK	242.058	12.7261	7.55662	17.8653	OK	-0.13592	-0.25166	-0.30559	-1.0988	-1.19058	-1.23592
RSp0183		probable 3-carboxymuconate cyclase protein	235.271	14.1472	7.10343	21.0491	OK	207.919	12.5469	6.3722	18.6987	OK	192.289	11.1018	6.64686	15.5093	OK	191.29	11.2588	6.64686	15.87	OK	-0.17319	-0.34972	-0.32946	-1.12755	-1.27432	-1.25655
RSp0185		putative transcription regulator protein	106.481	9.32979	4.59494	14.0002	OK	117.76	10.3716	5.09751	15.5797	OK	97.8115	8.12938	4.53291	11.6864	OK	124.202	10.6142	5.87862	15.2986	OK	0.152722	-0.1987	0.186079	1.111665	-1.14766	1.137668
RSp0186		periplasmic substrate binding ABC transporter protein	277.863	31.0668	14.4859	47.2972	OK	334.879	37.6899	17.4528	57.8562	OK	227.856	23.9115	13.3434	34.4345	OK	213.954	23.2589	12.5686	32.971	OK	0.278804	-0.37767	-0.41759	1.213189	-1.29924	-1.3357
RSp0187		hypothetical protein	1.0141	17.0483	0	4.83007	OK	NA	NA	NA	0	OK	NA	NA	0	0	OK	0	0	0	0	OK	NA	NA	NA	NA	NA	NA
RSp0188		hypothetical protein	57.8037	160.104	13.9138	48.4995	OK	90.1597	263.604	21.8645	75.532	OK	24.4529	42.5524	5.49038	20.0007	OK	28.1042	72.4172	6.6669	26.2754	OK	0.719363	-1.9117	-1.14461	1.646455	-3.76251	-2.21086
RSp0189		hypothetical protein	2947.99	102.071	46.0553	158.072	OK	4178.62	144.977	64.401	225.563	OK	1498.29	50.3805	28.6552	72.1093	OK	1922.87	65.3832	36.9815	93.7578	OK	0.506251	-1.01864	-0.64258	1.420354	-2.026	-1.56112
RSp0190		hypothetical protein	348.85	35.6605	16.7508	54.3993	OK	482.998	49.6728	22.6867	76.5981	OK	268.982	25.9156	14.7599	36.7392	OK	258.377	25.7123	14.1181	36.9799	OK	0.478129	-0.46051	-0.47187	1.392936	-1.37602	-1.3869
RSp0191		hypothetical protein	64.9024	50.9652	4.61948	85.3245	OK	89.2397	72.4243	5.43468	123.639	OK	30.0104	18.1132	1.87646	33.5082	OK	57.1149	41.9378	5.36132	56.5619	OK	0.506961	-1.49247	-0.28126	1.421054	-2.8137	-1.21526
RSp0192		hypothetical protein	249.469	44.2547	17.3848	71.1357	OK	358.799	64.3211	24.5597	104.155	OK	238.971	38.6904	22.1808	55.2092	OK	281.948	48.2281	26.6843	69.7896	OK	0.539461	-0.19386	0.124043	1.45343	-1.14382	1.089785
RSp0193	***ripL***	Type III effector protein with PPR repeats	1182.44	18.9853	8.04048	29.9087	OK	2441.67	39.2408	16.868	61.654	OK	2054.04	32.2979	18.4825	46.1148	OK	1763.31	27.8712	16.0009	39.751	OK	1.047472	0.766558	0.553892	2.066904	1.701206	1.468041
RSp0194		3-oxoacyl-(acyl carrier protein) synthase III	1347.74	90.4117	39.2605	141.43	OK	1785.71	120.268	53.0361	187.463	OK	1130.39	72.5847	40.5424	104.527	OK	1374.38	90.1647	49.3757	130.291	OK	0.411671	-0.31684	-0.00395	1.330226	-1.2456	-1.00274
RSp0196		prolyl aminopeptidase protein	898.493	72.2389	32.4346	111.883	OK	1167.48	94.3123	41.2621	146.725	OK	1019.24	77.979	42.8162	112.813	OK	827.713	64.9678	35.5592	94.1429	OK	0.38467	0.11031	-0.15305	1.305561	1.07946	-1.11192
RSp0197		chorismate mutase	637.869	95.7539	39.5559	151.577	OK	1555.71	235.622	90.9895	376.381	OK	1017.02	140.952	71.2715	203.387	OK	698.978	101.522	49.6643	151.25	OK	1.299071	0.557801	0.084389	2.460704	1.472024	1.060239
RSp0198		hypothetical protein	90.2549	84.3422	15.9552	55.4081	OK	56.1198	54.3618	9.86321	33.3609	OK	11.1149	7.78213	1.71707	7.44064	OK	16.3185	14.2444	2.57561	10.5886	OK	-0.63366	-3.43802	-2.56586	-1.5515	-10.8379	-5.92108
RSp0199		hypothetical protein	669.306	109.674	43.7463	173.36	OK	452.638	74.8935	30.8661	112.905	OK	76.6931	11.535	5.72357	16.5983	OK	159.559	25.2533	12.3629	35.3716	OK	-0.55031	-3.24913	-2.11868	-1.4644	-9.50793	-4.34296
RSp0200		putative aminotransferase protein	1815.24	49.2016	10.8857	87.4666	OK	3603.63	97.8316	20.452	175.365	OK	818.06	21.6066	8.4859	34.7446	OK	1588.34	42.3205	18.4237	66.185	OK	0.991595	-1.18723	-0.21735	1.988382	-2.27716	-1.16259
RSp0201		hypothetical protein	2043.41	58.1004	8.87111	108.415	OK	3454.59	98.3893	7.60437	189.625	OK	963.666	26.6837	10.7713	42.5869	OK	1471.39	41.1186	14.6714	67.7118	OK	0.759953	-1.12259	-0.49876	1.693436	-2.17737	-1.413
RSp0202		hypothetical protein	1067.85	117.555	49.4862	185.271	OK	1327.56	147.1	61.0387	233.12	OK	1632.79	168.836	89.4715	247.067	OK	1412.46	151.219	77.9049	223.509	OK	0.323461	0.522287	0.363304	1.251329	1.43623	1.286368
RSp0203		acyl-CoA thioester hydrolase-related protein	488.796	94.5128	37.0794	136.998	OK	852.837	166.797	62.0591	249.407	OK	769.154	134.838	65.2001	200.606	OK	591.094	109.992	50.5686	152.219	OK	0.819512	0.512645	0.218817	1.764809	1.426664	1.163779
RSp0204		hypothetical protein	20.282	11.948	2.65322	12.3013	OK	19.3199	11.7047	2.41202	10.8541	OK	16.6724	7.86109	2.14151	9.2799	OK	12.6922	7.01363	1.42768	6.90044	OK	-0.02968	-0.60397	-0.76854	-1.02079	-1.51989	-1.70354
RSp0205		hypothetical protein	396.513	28.952	14.0646	43.7976	OK	350.519	25.7043	12.6458	38.6159	OK	426.814	29.7521	17.2825	41.9893	OK	399.804	28.5263	16.3697	40.6505	OK	-0.17165	0.039328	-0.02137	-1.12635	1.027635	-1.01492
RSp0207		putative signal peptide protein	92.2831	18.1706	0	48.8605	OK	94.7597	18.8764	0	50.1775	OK	127.822	22.7852	0	55.8662	OK	110.603	20.9495	0	50.9292	OK	0.054978	0.326491	0.20531	1.038843	1.25396	1.152934
RSp0208		hypothetical protein	2321.28	89.1424	33.4101	145.046	OK	2344.15	90.2252	33.8323	146.837	OK	3063.28	114.05	60.0913	167.988	OK	2906.51	109.561	58.0125	161.259	OK	0.017419	0.355483	0.297551	1.012147	1.279414	1.229056
RSp0209		hydroxylase protein	912.69	93.2978	40.6572	145.878	OK	1291.68	132.839	55.863	209.872	OK	584.646	56.329	31.1241	80.9386	OK	781.477	77.7684	41.472	113.025	OK	0.509764	-0.72797	-0.26266	1.423817	-1.6563	-1.19969
RSp0210		hypothetical protein	193.693	181.004	34.2312	119.519	OK	160.079	155.065	28.1392	98.6321	OK	150.052	105.059	29.1902	80.7023	OK	125.109	109.207	24.039	67.2519	OK	-0.22315	-0.78482	-0.72896	-1.16728	-1.72288	-1.65744
RSp0211		hypothetical protein	330.597	73.1252	28.2909	106.482	OK	46.9198	10.514	3.98063	13.9322	OK	46.6828	9.25656	4.20739	12.9027	OK	46.2359	9.8103	4.06714	12.7624	OK	-2.79806	-2.98182	-2.898	-6.95503	-7.89982	-7.45392
RSp0212		dioxygenase signal peptide protein	1839.58	84.5611	37.6187	131.398	OK	797.637	36.7652	16.9758	56.4899	OK	660.228	29.3241	17.1531	41.4195	OK	755.186	34.0412	19.4294	48.4515	OK	-1.20165	-1.52791	-1.31271	-2.30003	-2.88367	-2.48408
RSp0214	***amn***	AMP nucleosidase	8864.25	432.473	178.472	685.814	OK	12124.6	593.248	234.268	951.848	OK	16076.7	756.909	396.279	1117.08	OK	13401.2	640.912	340.336	940.37	OK	0.456025	0.80751	0.567516	1.371757	1.750188	1.48197
RSp0215	***ripH2, hlk2***	TYpe III effector protein	366.09	11.2109	5.68662	16.7471	OK	730.477	22.4101	10.3497	34.4894	OK	649.113	19.3393	11.4441	27.2078	OK	524.913	15.7944	9.48065	22.1028	OK	0.999247	0.786633	0.494511	1.998956	1.725044	1.408843
RSp0216		type III effector interupted by IS insertion (C terminal part), serine/threonine-protein kinase	2336.49	95.7198	43.0454	148.375	OK	2192.35	90.0324	40.4456	139.61	OK	1297.11	51.4597	29.311	73.6073	OK	2353.5	94.609	53.5659	135.307	OK	-0.08837	-0.89537	-0.01684	-1.06317	-1.86009	-1.01174
RSp0218		type III effector interupted by IS insertion (N terminal part	601.361	39.8437	17.4915	62.4129	OK	648.598	43.1418	18.5578	67.7794	OK	477.943	30.3219	17.637	43.0141	OK	478.677	31.0186	18.0146	44.0645	OK	0.114735	-0.39399	-0.36122	1.082776	-1.31402	-1.28451
RSp0220		two-component transmembrane sensor histidine kinase transcription regulator protein	1100.3	57.8921	25.8812	89.7711	OK	391.919	20.6849	10.3153	30.9924	OK	250.086	12.6762	7.65496	17.6477	OK	230.273	11.8707	7.05907	16.6392	OK	-1.48479	-2.19124	-2.28596	-2.79876	-4.56699	-4.87689
RSp0221		transcription regulator protein	436.063	37.2944	17.7367	56.7292	OK	803.157	69.0383	30.828	106.772	OK	541.298	43.9537	24.9266	62.9761	OK	571.149	47.656	26.2458	68.4614	OK	0.888438	0.237026	0.353699	1.851171	1.17856	1.277833
RSp0222	***vanA***	vanillate O-demethylase oxygenase subunit oxidoreductase	722.039	53.6329	24.5963	82.6135	OK	1079.16	80.512	35.674	125.297	OK	1005.9	71.2923	39.6995	102.861	OK	764.252	55.4642	30.6853	80.14	OK	0.586086	0.410628	0.048439	1.501168	1.329264	1.034145
RSp0223	***vanB***	vanillate O-demethylase	525.304	42.7144	20.0494	65.076	OK	767.277	62.6907	28.2176	96.939	OK	519.068	40.1474	22.7755	57.3383	OK	399.804	31.7338	17.914	44.6852	OK	0.553529	-0.08942	-0.4287	1.467671	-1.06394	-1.34602
RSp0224		transcription regulator protein	468.514	99.5402	37.9481	148.884	OK	556.598	119.743	44.4575	169.659	OK	700.242	133.836	63.2583	192.508	OK	527.633	107.64	48.366	144.005	OK	0.26659	0.427115	0.112863	1.202961	1.344542	1.081372
RSp0225	***fca***	p-hydroxycinnamoyl CoA hydratase/lyase	442.148	42.3728	19.9226	64.7871	OK	564.878	54.4421	24.7874	83.9375	OK	865.854	78.4272	42.9638	113.58	OK	415.216	38.7695	21.3296	55.9901	OK	0.361584	0.888216	-0.12822	1.284836	1.850885	-1.09294
RSp0226	***vdh***	vanillin dehydrogenase oxidoreductase protein	319.442	15.9105	8.09992	23.6801	OK	308.199	15.3957	7.87861	22.8834	OK	379.02	18.2091	10.9597	25.4563	OK	241.152	11.7724	7.07362	16.3741	OK	-0.04745	0.19468	-0.43457	-1.03344	1.144471	-1.35151
RSp0227	***fcs***	feruloyl-CoA synthase	394.485	14.8308	7.48769	22.1883	OK	282.439	10.642	5.49555	15.7654	OK	321.222	11.7124	7.14942	16.298	OK	266.536	9.83695	5.99738	13.6551	OK	-0.47883	-0.34056	-0.59231	-1.39361	-1.26625	-1.50766
RSp0228		putative phenol-degradative gene regulator transcription regulator protein	748.406	28.1859	13.0728	43.278	OK	1012	38.1979	16.8915	59.5159	OK	770.266	28.1339	16.5277	39.7072	OK	1296.42	47.9299	27.2181	68.6562	OK	0.43852	-0.00266	0.765952	1.355213	-1.00185	1.700492
RSp0229		putative benzaldehyde dehydrogenase oxidoreductase protein	67.9447	3.32247	1.6982	4.92043	OK	47.8398	2.34611	1.17568	3.48349	OK	73.3587	3.46151	1.97597	4.93991	OK	44.4227	2.12933	1.15981	3.09282	OK	-0.50199	0.059145	-0.64186	-1.41616	1.041848	-1.56034
RSp0230		3-alpha-hydroxysteroid dehydrogenase	26.3666	2.80201	1.25783	4.27663	OK	20.2399	2.16448	0.92241	3.35422	OK	33.3448	3.33403	1.65447	4.96341	OK	22.6646	2.34357	1.0754	3.55711	OK	-0.37244	0.250805	-0.25775	-1.29454	1.189871	-1.19562
RSp0231		putative signal peptide protein	44.6204	3.60097	1.74419	5.43383	OK	37.7199	3.05864	1.40877	4.69591	OK	75.5816	5.80349	3.24276	8.33852	OK	56.2083	4.42825	2.38243	6.41934	OK	-0.2355	0.688535	0.298351	-1.17731	1.611646	1.229738
RSp0232		esterase/lipase protein	47.6627	3.9812	1.93272	6.00524	OK	66.2398	5.56029	2.692	8.42114	OK	38.9023	3.08785	1.63425	4.4942	OK	45.3293	3.69488	1.90663	5.44751	OK	0.481957	-0.3666	-0.10768	1.396637	-1.28931	-1.07749
RSp0233		hydrolase transmembrane protein	244.398	21.0701	10.3438	31.74	OK	184.919	16.0237	7.7933	23.9467	OK	247.863	20.2822	11.8117	28.6556	OK	254.751	21.4249	12.0913	30.6825	OK	-0.39499	-0.05498	0.024091	-1.31493	-1.03885	1.016839
RSp0234		metabolite transporter	286.99	16.9719	8.49413	25.4309	OK	207.919	12.3388	6.28051	18.4297	OK	432.371	24.5611	14.4736	34.4828	OK	709.857	41.0951	23.2594	58.8086	OK	-0.45995	0.533227	1.275818	-1.37549	1.447163	2.421361
RSp0235		putative maltooligosyl trehalose synthase transmembrane protein	123.72	2.99425	0	7.66515	OK	80.0397	1.93987	0.022813	4.26602	OK	76.6931	1.81104	0	3.93837	OK	73.4335	1.7477	0.202545	3.30823	OK	-0.62623	-0.72538	-0.77674	-1.54353	-1.65333	-1.71325
RSp0236		putative 4-alpha-glucanotransferase (amylomaltase) protein	186.594	5.55563	0	12.2154	OK	90.1597	2.68912	0	5.67837	OK	110.038	3.18869	0.327905	6.12089	OK	59.8347	1.75065	0.054651	3.47033	OK	-1.04682	-0.80099	-1.66606	-2.06597	-1.74229	-3.17347
RSp0237		putative maltooligosyl trehalose trehalohydrolase protein	245.412	9.25878	0.551319	17.9868	OK	121.44	4.59182	0.447947	8.75219	OK	212.296	7.76748	2.61741	12.9511	OK	165.905	6.14442	2.51543	9.78978	OK	-1.01176	-0.25338	-0.59155	-2.01636	-1.19199	-1.50686
RSp0238	***glgX***	glycogen operon protein GlgX	345.808	10.5898	0.796206	20.4564	OK	165.599	5.08037	0.490859	9.69447	OK	245.64	7.31847	2.2643	12.4239	OK	132.362	3.9827	1.08323	6.89051	OK	-1.05967	-0.53306	-1.41086	-2.08445	-1.447	-2.65895
RSp0239	***glgB***	glycogen branching enzyme	757.533	22.5234	0.221309	48.3561	OK	301.759	8.98783	0.470282	17.5664	OK	669.12	19.3633	2.37425	36.7599	OK	284.668	8.31737	2.48341	14.1636	OK	-1.32538	-0.2181	-1.43723	-2.50599	-1.1632	-2.708
RSp0240		hypothetical protein	1699.63	32.9593	6.73039	59.1868	OK	363.399	7.0551	0.425272	13.6827	OK	1392.7	26.409	9.52153	43.3029	OK	372.607	7.11005	2.57191	11.6739	OK	-2.22395	-0.31966	-2.21275	-4.6717	-1.24803	-4.63559
RSp0241		putative alpha-amylase-related protein	994.832	18.6028	0.448787	39.4371	OK	330.279	6.18285	0.07488	12.6548	OK	1127.06	20.6148	5.26777	35.9599	OK	248.405	4.57116	0.901702	8.24413	OK	-1.58918	0.148161	-2.02489	-3.00877	1.108156	-4.0696
RSp0242	***glgA***	glycogen synthase	414.767	18.2454	9.14922	27.3684	OK	172.039	7.58762	3.88149	11.288	OK	1292.67	54.992	31.2969	78.6135	OK	180.411	7.78434	4.72775	10.8621	OK	-1.26581	1.591689	-1.22889	-2.40463	3.01402	-2.34386
RSp0243		hemin transport protein	613.531	40.277	18.9315	61.5838	OK	743.357	48.9895	22.4812	75.2753	OK	17702.8	1113.11	572.451	1652.27	OK	744.307	47.7929	26.6799	67.8115	OK	0.282516	4.788496	0.24684	1.216315	27.63637	1.186605
RSp0244		outer membrane hemin receptor signal peptide protein	565.868	17.6562	8.44793	26.7903	OK	724.957	22.6618	10.3863	34.92	OK	18055.1	547.945	279.784	816.121	OK	726.175	22.2615	13.1002	31.3948	OK	0.360088	4.955784	0.334376	1.283504	31.03414	1.260832
RSp0245	***ahpC1***	alkyl hydroperoxide reductase subunit C	7993.14	1280.46	471.475	2087.21	OK	11640.7	1882.56	661.937	3097.64	OK	28721	4229.67	1859.09	6593.21	OK	8826.52	1366.33	629.571	1964.41	OK	0.556034	1.723883	0.093644	1.470222	3.303243	1.067062
RSp0246	***ahpF***	alkyl hydroperoxide reductase subunit F	2148.88	97.9401	43.9153	151.741	OK	5660.74	258.696	113.182	404.438	OK	5100.65	224.661	125.208	324.072	OK	2884.76	128.937	72.4058	185.109	OK	1.401286	1.197778	0.396695	2.64137	2.293861	1.316488
RSp0247	***fur2***	ferric uptake transcriptional (FUR)-like transcription regulator	201.806	44.1839	17.2301	62.8475	OK	287.959	63.8631	24.2916	88.4101	OK	3549	697.191	319.748	1039.91	OK	77.0598	16.1884	7.10551	21.7345	OK	0.531462	3.979961	-1.44856	1.445393	15.7793	-2.72936
RSp0248		hypothetical protein	592.234	260.747	71.5567	274.862	OK	510.598	230.056	62.5068	235.926	OK	1871.76	685.403	253.711	809.301	OK	741.587	307.874	101.734	310.184	OK	-0.18067	1.394302	0.239689	-1.13341	2.628613	1.180738
RSp0249		hypothetical protein	1436.98	632.669	162.897	689.048	OK	1311.92	591.099	149.006	628.225	OK	1153.73	422.475	155.922	496.418	OK	1860.31	772.318	252.465	804.111	OK	-0.09805	-0.58258	0.287744	-1.07033	-1.49753	1.22073
RSp0250		putative transmembrane protein	327.554	133.632	1.21511	265.705	OK	416.758	173.779	0.202519	346.915	OK	1020.35	349.524	0.599355	698.048	OK	216.674	83.4915	1.59828	165.022	OK	0.378988	1.387126	-0.67856	1.30043	2.615571	-1.60055
RSp0251	***feoB***	ferrous IRON transport B transmembrane protein	3372.9	127.475	45.5794	209.454	OK	5526.42	209.331	74.1657	345.336	OK	16421.2	601.86	282.252	921.709	OK	3511.21	130.268	68.3393	192.218	OK	0.715572	2.239214	0.031268	1.642134	4.721396	1.02191
RSp0252		hypothetical protein	416.795	176.527	50.7777	197.538	OK	703.797	304.852	82.1525	323.656	OK	2080.72	736.524	276.729	882.926	OK	337.25	134.799	47.0378	126.452	OK	0.78822	2.060844	-0.38908	1.726943	4.172302	-1.30956
RSp0253		hypothetical protein	1518.11	42.7118	18.603	66.7395	OK	2004.67	56.495	24.8565	88.1539	OK	1401.59	38.4081	22.1103	54.6926	OK	1685.34	46.6057	26.6983	66.4866	OK	0.403488	-0.15322	0.125872	1.322702	-1.11205	1.091167
RSp0254		hypothetical protein	7301.52	139.326	56.2803	222.335	OK	8890.85	169.844	67.6966	272.589	OK	3576.79	66.7486	37.6663	95.7913	OK	6848.35	128.594	71.8839	185.35	OK	0.285746	-1.06166	-0.11564	1.21904	-2.08732	-1.08346
RSp0255		methyl-accepting chemotaxis transducer transmembrane protein	268.737	12.1196	6.23758	17.9837	OK	3181.35	143.857	64.887	222.528	OK	776.935	33.8684	19.8586	47.7885	OK	891.174	39.416	22.5757	56.0596	OK	3.569221	1.482598	1.701439	11.86978	2.794515	3.252253
RSp0256		hypothetical protein	23.3243	15.2887	3.28319	12.8802	OK	31.2799	21.1249	4.54595	17.6787	OK	15.5609	8.04413	1.99315	8.22174	OK	14.5054	8.9064	1.99315	8.72002	OK	0.466479	-0.92646	-0.77955	1.381733	-1.9006	-1.7166
RSp0257		hypothetical protein	404.626	38.7769	18.301	59.2273	OK	431.478	41.5852	19.4593	63.5516	OK	505.73	45.8079	25.6716	65.436	OK	349.036	32.5901	17.9778	47.0012	OK	0.100873	0.240399	-0.25076	1.072422	1.181319	-1.18984
RSp0258		hypothetical protein	642.939	83.6474	35.8763	129.488	OK	689.077	90.3429	38.0329	142.329	OK	1001.46	121.327	63.2415	179.281	OK	727.082	91.7587	46.4158	132.188	OK	0.111091	0.536508	0.133524	1.080044	1.450458	1.09697
RSp0259	***pcp2***	pyrrolidone-carboxylate peptidase protein	58.8178	7.79399	3.47845	12.0255	OK	62.5598	8.35511	3.67722	12.92	OK	58.9092	7.26149	3.72562	10.7847	OK	49.8622	6.40722	3.13736	9.51013	OK	0.100297	-0.1021	-0.28266	1.071994	-1.07333	-1.21644
RSp0260		transcription regulator protein	151.101	37.6741	13.9535	48.1474	OK	121.44	30.7215	11.1935	38.4873	OK	94.4771	20.8845	9.52974	27.6816	OK	79.7796	19.0229	7.86582	24.0512	OK	-0.29432	-0.85114	-0.98584	-1.22631	-1.80393	-1.98046
RSp0261		putative transmembrane protein	5153.66	1270.29	419.901	1927.01	OK	411.238	102.831	36.8441	143.875	OK	426.814	93.3742	43.4057	127.814	OK	260.19	61.3503	26.5841	76.298	OK	-3.62681	-3.76599	-4.37194	-12.3532	-13.6043	-20.7055
RSp0262	***mdoD***	glucan biosynthesis protein D	4089.87	176.299	78.5956	273.704	OK	5260.54	227.34	98.896	355.839	OK	4826.11	201.267	112.561	289.805	OK	3139.51	132.758	74.8491	190.48	OK	0.366827	0.191086	-0.40923	1.289514	1.141623	-1.32797
RSp0263		hypothetical protein	99.3818	25.3646	9.33348	32.8227	OK	58.8798	15.2521	5.44453	18.8225	OK	67.8012	15.3073	6.75215	20.2565	OK	75.2466	18.3549	7.51944	23.1722	OK	-0.73381	-0.7286	-0.46665	-1.66302	-1.65703	-1.3819
RSp0264		hypothetical protein	83.1562	28.1785	9.17393	32.1088	OK	42.3198	14.6144	4.58696	16.6966	OK	52.2403	15.195	5.97306	18.2812	OK	37.17	11.9498	4.16304	14.4801	OK	-0.9472	-0.891	-1.23761	-1.92813	-1.85446	-2.35807
RSp0265		acetyltransferase protein	305.244	50.0179	21.351	77.2812	OK	221.719	36.6856	15.5491	55.118	OK	255.644	38.4501	19.918	54.1449	OK	237.526	37.593	18.5444	52.7713	OK	-0.44723	-0.37946	-0.41198	-1.36342	-1.30085	-1.33051
RSp0266		hypothetical protein	2015.02	136.455	42.2396	230.235	OK	2676.27	181.96	56.6474	307.366	OK	1608.33	104.222	49.775	158.629	OK	2160.39	143.059	65.7007	220.448	OK	0.415196	-0.38877	0.068185	1.33348	-1.30927	1.048397
RSp0267		hypothetical protein	1603.29	147.084	15.3203	279.16	OK	1926.47	177.693	11.7142	345.152	OK	1142.62	99.2507	32.0523	166.516	OK	1687.16	150.88	50.3485	251.742	OK	0.272747	-0.56749	0.036761	1.208106	-1.48194	1.025808

RSp0268		hypothetical protein	436.063	150.09	47.3754	173.402	OK	435.158	152.675	47.3754	173.031	OK	374.574	110.468	46.5533	136.009	OK	380.766	124.29	47.4661	127.793	OK	0.024636	-0.4422	-0.27212	1.017223	-1.35867	-1.20758
RSp0269		hypothetical protein	3420.56	192.726	0	546.989	OK	1965.11	111.09	0	313.418	OK	1853.97	100.465	0.194733	245.753	OK	2207.54	121.805	0.097366	289.909	OK	-0.79482	-0.93986	-0.66198	-1.73486	-1.91834	-1.58225
RSp0270		hypothetical protein	15540.1	252.153	10.3048	495.269	OK	9537.6	154.905	9.08879	300.865	OK	10501.4	166.859	57.2569	276.257	OK	11509.1	183.836	59.21	308.338	OK	-0.70292	-0.59567	-0.45588	-1.62779	-1.51117	-1.37162
RSp0271		hypothetical protein	3093.01	182.912	0	543.676	OK	2079.19	123.388	0	352.738	OK	1832.85	104.116	0.253923	253.111	OK	1899.3	109.954	0.101569	268.651	OK	-0.56795	-0.81296	-0.73425	-1.48241	-1.75681	-1.66353
RSp0272		hypothetical protein	7094.64	328.233	1.01783	855.345	OK	5155.66	239.178	2.6907	583.836	OK	4686.06	209.45	14.2581	430.069	OK	5570.97	252.734	10.8425	510.144	OK	-0.45664	-0.64811	-0.3771	-1.37234	-1.56712	-1.29873
RSp0273		glutamate carboxypeptidase	3109.23	195.735	88.0962	302.929	OK	4162.06	262.989	117.009	408.797	OK	2140.74	129.232	72.4314	185.984	OK	2159.49	133.017	73.6109	192.418	OK	0.426101	-0.59894	-0.55729	1.343597	-1.5146	-1.4715
RSp0274	***ggt1***	gamma-glutamyltranspeptidase signal peptide protei	2942.92	120.334	54.3534	186.344	OK	1081	44.3081	19.984	68.6276	OK	1795.06	71.0814	40.3793	101.716	OK	2436	97.7399	55.2655	139.901	OK	-1.4414	-0.7595	-0.30002	-2.71585	-1.6929	-1.23117
RSp0275		hydrolase transmembrane protei	9081.27	560.191	231.598	887.73	OK	1181.28	73.1346	32.3607	113.903	OK	1142.62	67.6281	37.982	97.1939	OK	886.641	53.5243	30.0801	76.9122	OK	-2.93729	-3.05022	-3.38765	-7.65973	-8.28341	-10.4661
RSp0276	***cysK1***	cysteine synthase A	956.296	75.7515	33.9509	117.639	OK	434.238	34.5589	16.5131	52.4455	OK	623.549	47.0262	26.5855	66.0729	OK	563.896	43.6141	24.3049	62.6845	OK	-1.13222	-0.68781	-0.79648	-2.19195	-1.61084	-1.73686
RSp0277	***treA***	periplasmic alpha,alpha-trehalase signal peptide protei	8099.62	349.144	144.124	553.981	OK	175.719	7.5939	3.88895	11.3168	OK	238.971	9.966	6.06159	13.8112	OK	178.597	7.55223	4.56537	10.5119	OK	-5.52284	-5.13066	-5.53078	-45.9769	-35.0335	-46.2306
RSp0278		hypothetical protein	600.347	139.977	50.5798	194.82	OK	270.479	63.9321	23.8195	86.1621	OK	453.49	94.3374	44.5301	130.98	OK	497.716	111.172	48.5915	144.324	OK	-1.13058	-0.56929	-0.3324	-2.18946	-1.48379	-1.2591
RSp0279		signal peptide protein	510.092	25.9481	12.5825	39.1457	OK	337.639	17.2272	8.74915	25.6612	OK	318.999	15.6449	9.43186	21.8445	OK	301.893	15.0498	8.98696	21.0882	OK	-0.59094	-0.72994	-0.78588	-1.50623	-1.65857	-1.72415
RSp0280		hypothetical protein	29.4089	17.7774	2.19549	27.0777	OK	12.88	8.01061	0.487886	15.1245	OK	31.1219	15.0043	3.60975	21.8991	OK	19.0383	10.7915	1.68455	18.7707	OK	-1.15006	-0.24467	-0.72015	-2.21923	-1.18482	-1.64735
RSp0281		hypothetical protein	85.1844	9.52414	4.02502	15.0938	OK	91.9997	10.3544	4.72702	15.9818	OK	65.5782	6.88184	3.35811	10.3892	OK	66.1808	7.1945	3.69613	10.7623	OK	0.120583	-0.46879	-0.40469	1.087174	-1.38395	-1.32381
RSp0282		amino-acid permease transmembrane protei	12391.3	542.863	213.249	872.491	OK	9179.73	403.205	165.462	640.892	OK	10530.3	446.182	242.409	650.498	OK	8065.89	346.614	190.478	502.647	OK	-0.42907	-0.28296	-0.64726	-1.34637	-1.21669	-1.56619
RSp0283	***dinF***	DNA-damage-inducible F transmembrane protei	436.063	23.1706	11.4366	34.8721	OK	470.118	25.0586	12.2334	37.7782	OK	376.797	19.2834	11.5596	26.957	OK	475.051	24.7299	14.3802	35.0487	OK	0.11301	-0.26494	0.093961	1.081483	-1.20158	1.067296
RSp0284		hypothetical protein	1.0141	2.80883	0	3.5783	OK	3.67999	10.7593	0.397537	5.56552	OK	NA	NA	0	0	OK	3.62634	9.34415	0.39217	5.49038	OK	1.937543	NA	1.734094	3.830527	NA	3.326705
RSp0285		transcription regulator protein	57.8037	5.04415	2.43293	7.58501	OK	63.4798	5.56811	2.71915	8.44368	OK	51.1288	4.23284	2.2589	6.14139	OK	37.17	3.16375	1.62359	4.65898	OK	0.142577	-0.25299	-0.67298	1.103875	-1.19167	-1.59436
RSp0286	***hmsH***	putative hemin-binding outer membrane transmembrane protei	144.002	4.05149	2.10203	5.99079	OK	122.36	3.4483	1.78673	5.09743	OK	153.386	4.20327	2.56615	5.85807	OK	136.894	3.78561	2.30694	5.2619	OK	-0.23257	0.05306	-0.09793	-1.17492	1.037463	-1.07023
RSp0287	***hmsF***	putative hemin storage signal peptide protei	176.453	5.64518	2.90175	8.37953	OK	193.199	6.1926	3.16823	9.2086	OK	201.181	6.25798	3.85571	8.64614	OK	194.009	6.09757	3.73887	8.44167	OK	0.133526	0.148677	0.111215	1.096971	1.108553	1.080137
RSp0288	***hmsR***	N-glycosyltransferase PgaC	170.369	9.85792	3.23268	16.4664	OK	248.399	14.4221	4.19238	24.5987	OK	266.759	14.8351	7.82311	21.8748	OK	286.481	16.23	7.82311	24.6154	OK	0.548926	0.589659	0.719308	1.462996	1.504891	1.646392
RSp0289		hypothetical protein	193.693	15.0651	4.12226	26.0558	OK	295.319	23.0753	5.86025	40.2404	OK	150.052	11.1185	3.70488	18.5244	OK	261.097	19.8321	8.35527	31.3703	OK	0.615139	-0.43825	0.396627	1.531706	-1.35496	1.316427
RSp0290		putative outer membrane CHANEL lipoprotei	986.719	48.6938	0.614597	102.287	OK	1703.83	84.3282	0.351198	194.915	OK	939.213	44.7164	9.0512	80.3781	OK	1310.92	63.4111	7.40552	119.398	OK	0.792277	-0.12293	0.380997	1.731806	-1.08895	1.302242
RSp0291		hemolysin secretion-like transmembrane protei	1034.38	56.3578	0.766678	117.781	OK	2368.07	129.439	0.383339	265.798	OK	982.561	51.5301	11.9122	91.1376	OK	1855.78	99.0417	24.1552	173.956	OK	1.199585	-0.1292	0.813421	2.296736	-1.09369	1.757373
RSp0292	***cyaB***	cyclolysin-type secretion composite ATP-binding transmembrane ABC transporter protein	2678.24	85.5559	16.5155	155.635	OK	5029.62	160.974	21.6035	300.976	OK	1896.21	58.8976	22.0841	95.76	OK	3659.89	114.857	42.1783	187.417	OK	0.911888	-0.53866	0.4249	1.881507	-1.45262	1.342479
RSp0293		hypothetical protein	83.1562	24.3853	8.45157	29.5805	OK	64.3998	19.2043	6.4232	22.6502	OK	103.369	26.4372	11.5057	33.5167	OK	89.752	25.0635	9.83823	29.0144	OK	-0.34458	0.116558	0.039576	-1.26978	1.084145	1.027812
RSp0294		putative hemolysin-type calcium-binding protei	4810.89	192.677	84.8128	299.883	OK	1323.88	53.147	23.6137	82.6297	OK	1159.29	44.9807	25.6639	64.1418	OK	794.169	31.214	18.1262	44.2926	OK	-1.85812	-2.09881	-2.62592	-3.62536	-4.28355	-6.17278
RSp0295		putative hemolysin-type protei	103811	3487.5	1222.13	5754.55	OK	65330.8	2199.12	754.504	3640.78	OK	122572	4000.82	939.039	7065.21	OK	46508.8	1534.62	645.767	2420.34	OK	-0.66527	0.198103	-1.18431	-1.58586	1.147189	-2.27255
RSp0296	***ripS5, skwp5***	Type III effector protein, SKWP family	1657.04	15.5675	6.49792	24.6334	OK	2541.95	23.8942	10.2149	37.5558	OK	3022.15	27.8895	15.772	40.0094	OK	2647.23	24.5042	14.0155	34.9935	OK	0.618123	0.841185	0.654492	1.534877	1.791521	1.574061
RSp0297		hypothetical protein	11.1551	153.797	3.14151	15.7076	OK	21.1599	317.217	5.75944	27.75	OK	23.3414	145.803	6.71472	30.4745	OK	19.0383	223.576	5.16517	22.7267	OK	1.044443	-0.07701	0.539738	2.062569	-1.05483	1.453708
RSp0298		hypothetical protein	31.4371	74.6687	6.90011	26.4504	OK	11.96	29.9071	2.30004	10.7335	OK	12.2264	18.7394	2.26899	10.5886	OK	11.7856	26.0812	2.26899	10.5886	OK	-1.32002	-1.99443	-1.51749	-2.49669	-3.98458	-2.86293
RSp0299		hypothetical protein	1028.3	359.584	105.282	434.94	OK	303.599	108.244	33.9739	123.575	OK	167.836	50.1958	20.993	58.3754	OK	186.757	61.9099	23.5711	65.0048	OK	-1.73204	-2.84069	-2.53809	-3.32198	-7.16363	-5.80818
RSp0300		GCN5-related N-acetyltransferase	799.111	168.119	61.0984	247.421	OK	234.599	49.9709	19.4029	69.6301	OK	218.964	41.4759	20.2269	57.6943	OK	213.954	43.2316	19.8197	54.1648	OK	-1.75032	-2.01914	-1.95932	-3.36434	-4.05341	-3.8888
RSp0303	***cheD2***	methyl-accepting chemotaxis transmembrane protei	434.035	20.1675	9.98465	30.2868	OK	4114.22	191.693	85.6184	297.626	OK	2374.15	106.566	60.4125	152.221	OK	931.064	42.4206	24.2553	60.5356	OK	3.248693	2.401643	1.072733	9.505045	5.284046	2.103414
RSp0304	***ripD***	Type III effector protein	6906.02	251.273	106.202	396.406	OK	4070.98	148.44	66.201	230.57	OK	8711.9	307.591	169.812	445.017	OK	4384.25	156.622	88.1287	225.123	OK	-0.75938	0.291758	-0.68197	-1.69276	1.224131	-1.60433
RSp0305		dehydrogenase oxidoreductase protein	483.726	51.4061	23.3957	79.0757	OK	538.198	57.5556	25.9113	89.1383	OK	461.27	46.1207	25.5615	66.5924	OK	584.748	60.464	32.2621	87.8523	OK	0.163017	-0.15653	0.234137	1.119626	-1.1146	1.176203
RSp0306		hypothetical protein	1117.54	164.313	65.367	262.756	OK	965.076	143.137	57.2095	226.799	OK	1228.2	166.943	84.2852	242.691	OK	1266.5	180.242	87.2501	272.551	OK	-0.19905	0.022909	0.133489	-1.14794	1.016006	1.096943
RSp0307		oxidoreductase protein	1049.59	72.9174	32.4075	113.426	OK	877.677	61.2248	27.6765	94.5612	OK	726.918	48.2874	27.3612	69.1322	OK	749.747	50.9214	28.3529	73.3326	OK	-0.25215	-0.59462	-0.51799	-1.19098	-1.51007	-1.43196
RSp0308		transcription regulator protein	579.051	49.327	22.7999	75.836	OK	638.478	54.6638	24.8344	84.044	OK	392.358	31.738	18.2013	45.2611	OK	372.607	30.9679	17.44	44.3614	OK	0.148208	-0.63617	-0.6716	1.108192	-1.55419	-1.59284
RSp0309		hypothetical protein	7354.25	1262.9	459.322	2023.17	OK	7030.61	1219.66	441.932	1929.99	OK	9492.17	1491.22	711.27	2229.88	OK	6183.82	1024.66	467.91	1552.21	OK	-0.05026	0.239753	-0.3016	-1.03545	1.18079	-1.23251
RSp0310		macrolide-efflux transmembrane protei	510.092	27.5821	13.3276	41.7916	OK	652.278	35.3833	16.6595	54.0245	OK	602.43	31.3612	18.4068	44.2326	OK	593.814	31.4536	18.172	44.6083	OK	0.359336	0.185248	0.189493	1.282836	1.137013	1.140363
RSp0311	***oprM***	outer membrane CHANEL lipoprotei	254.539	12.9176	6.61561	19.2168	OK	208.839	10.6302	5.44551	15.7965	OK	184.508	9.02809	5.46079	12.5642	OK	210.328	10.4606	6.21553	14.6953	OK	-0.28117	-0.51685	-0.30437	-1.21518	-1.43082	-1.23488
RSp0312	***mexD***	multidrug efflux system transmembrane protei	536.459	11.5624	5.4792	17.6643	OK	654.118	14.1162	6.54232	21.6919	OK	633.552	13.3395	7.94649	18.7368	OK	571.149	12.1098	7.26075	16.9418	OK	0.287911	0.206264	0.066734	1.220871	1.153696	1.047343
RSp0313	***mexC***	multidrug efflux system protei	51.7191	3.34412	1.66842	5.00526	OK	67.1598	4.35912	2.16895	6.50684	OK	54.4632	3.37442	1.86535	4.88283	OK	60.7413	3.84203	2.13967	5.54118	OK	0.38241	0.013013	0.200242	1.303518	1.009061	1.148891
RSp0314		two component response regulator transcription regulator protei	1450.16	153.351	40.5116	264.453	OK	2265.95	241.123	77.9327	404.532	OK	1981.8	197.221	90.8889	303.238	OK	1578.37	162.413	65.8388	258.823	OK	0.652932	0.362976	0.08283	1.57236	1.286076	1.059093
RSp0315		transmembrane sensor kinase transcription regulator protei	1639.8	114.662	17.6909	211.872	OK	1660.59	116.597	8.91719	226.3	OK	1499.41	100.231	32.6213	167.92	OK	1871.19	127.908	50.2421	205.958	OK	0.024143	-0.19406	0.157719	1.016876	-1.14398	1.115522
RSp0316		putative transmembrane protein	5325.04	405.361	175.122	634.235	OK	2984.47	228.213	101.713	354.269	OK	1709.48	124.064	68.3847	179.439	OK	3763.24	279.823	151.077	407.724	OK	-0.82883	-1.70812	-0.53469	-1.77624	-3.26735	-1.44863
RSp0317		hypothetical protein	826.492	188.624	67.0118	269.063	OK	478.398	110.652	40.4682	159.697	OK	263.424	53.7431	25.613	69.8275	OK	595.627	130.294	56.8064	170.992	OK	-0.76948	-1.81136	-0.53374	-1.70466	-3.50973	-1.44768
RSp0318		hypothetical protein	2364.88	497.529	177.928	731.392	OK	1437.03	306.096	106.372	450.532	OK	1412.71	267.593	125.434	398.43	OK	1951.88	394.397	172.811	553.051	OK	-0.7008	-0.89474	-0.33513	-1.6254	-1.85928	-1.26149
RSp0319		metal-transporting P-type ATPase transmembrane protei	1065.82	31.2994	13.81	48.8682	OK	290.719	8.55221	4.34809	12.7435	OK	175.616	5.02032	3.07541	6.96015	OK	265.63	7.66592	4.72103	10.6021	OK	-1.87177	-2.64028	-2.0296	-3.6598	-6.23454	-4.08293
RSp0320		transcription regulator protein	2007.92	368.362	136.836	569.44	OK	1683.59	312.233	114.114	480.057	OK	1743.94	291.257	141.181	416.733	OK	1630.04	288.133	131.769	419.705	OK	-0.2385	-0.33883	-0.35439	-1.17977	-1.26473	-1.27844
RSp0321		hypothetical protein	2478.46	663.913	217.874	891.201	OK	1453.59	395.457	125.117	530.427	OK	1820.63	429.346	188.224	598.335	OK	1579.27	403.814	162.622	519.632	OK	-0.74747	-0.62885	-0.7173	-1.67885	-1.54634	-1.64411
RSp0322	***leuA2***	2-isopropylmalate synthase	3260.33	133.823	59.8248	207.862	OK	5421.54	223.071	96.8433	349.462	OK	7953.86	316.141	175.033	456.723	OK	3347.12	134.808	76.1572	193.164	OK	0.737177	1.240242	0.01058	1.666911	2.362382	1.00736
RSp0323	***ripO1***	Type III effector protein	2275.64	106.429	47.8718	164.957	OK	678.957	31.8419	14.8972	48.7924	OK	780.269	35.2472	20.5993	49.8676	OK	896.613	41.1164	23.5715	58.6191	OK	-1.74089	-1.59431	-1.37211	-3.34242	-3.0195	-2.58848
RSp0324		dehydrogenase, small chain oxidoreductase protei	350.879	76.0488	29.4645	108.037	OK	118.68	26.0524	10.1021	34.2349	OK	134.491	26.1775	12.5956	35.0185	OK	168.625	35.0761	15.9175	44.0154	OK	-1.54551	-1.5386	-1.11644	-2.91907	-2.90512	-2.16811
RSp0325		dehydrogenase, large chain oxidoreductase protein	1485.66	45.8225	19.9786	71.6425	OK	548.318	16.9427	8.04297	25.8176	OK	695.796	20.877	12.3392	29.394	OK	722.549	21.8968	12.8475	30.9187	OK	-1.43539	-1.13414	-1.06534	-2.70456	-2.19488	-2.09266
RSp0326		organic hydroperoxide resistance protein	160.228	37.7673	12.288	58.0349	OK	120.52	28.8022	9.47509	47.9676	OK	128.933	27.0875	11.684	37.3887	OK	142.334	32.131	13.2905	49.2187	OK	-0.39096	-0.47951	-0.23317	-1.31126	-1.39427	-1.17542
RSp0327		hypothetical protein	103.438	15.2086	2.79359	27.6419	OK	71.7597	10.6432	1.92812	19.2812	OK	71.1357	9.66909	3.26219	16.175	OK	64.3676	9.16049	2.8463	15.5124	OK	-0.51496	-0.65344	-0.73139	-1.42895	-1.57291	-1.66024
RSp0328		transcription regulator protein	1862.9	155.002	67.4284	241.848	OK	1785.71	149.312	64.5386	232.146	OK	2195.2	173.592	95.0259	249.986	OK	2258.31	183.373	98.6912	268.109	OK	-0.05396	0.163414	0.242494	-1.03811	1.119934	1.183036
RSp0329	***leuB2***	3-isopropylmalate dehydrogenase oxidoreductase protei	649.024	44.6555	20.8805	68.3894	OK	575.918	39.7869	18.8276	60.5885	OK	733.587	48.2761	27.4262	68.9127	OK	647.302	43.5446	24.4174	62.6058	OK	-0.16654	0.112471	-0.03634	-1.12237	1.081078	-1.02551
RSp0330	***acnA3***	aconitate hydratase	624.686	16.2744	7.65281	24.9144	OK	604.438	15.7711	7.45721	24.1076	OK	659.116	16.7405	9.93736	23.5409	OK	685.379	17.5548	10.3715	24.7469	OK	-0.04532	0.040738	0.109261	-1.03191	1.02864	1.078676
RSp0331		putative transcription regulator protein	955.282	83.7015	36.9031	130.166	OK	1445.31	127.296	54.5649	199.377	OK	1479.4	122.957	66.4355	179.475	OK	1461.42	124.891	66.1522	183.37	OK	0.604862	0.554828	0.577344	1.520833	1.468994	1.4921
RSp0332	***acnB***	bifunctional aconitate hydratase 2/2- methylisocitrate	12647.9	335.199	127.063	543.582	OK	19527.8	518.345	183.066	852.419	OK	30822.9	796.22	367.464	1222.59	OK	23773.4	619.403	303.662	934.763	OK	0.628895	1.248149	0.885861	1.54638	2.375365	1.847866
RSp0333	***osmB2***	putative osmotically inducible lipoprotein B2 transmembran	118.65	141.811	22.7298	77.0286	OK	106.72	132.766	20.2042	72.2933	OK	70.0242	60.4081	14.3258	42.6658	OK	54.3952	60.6889	10.9	32.7001	OK	-0.09508	-1.23116	-1.22446	-1.06813	-2.34755	-2.33669
RSp0334		hypothetical protein	17314.7	441.968	159.072	724.985	OK	8980.09	229.567	91.9123	366.018	OK	8511.83	211.867	116.344	306.892	OK	7111.26	178.473	98.9295	257.96	OK	-0.94503	-1.06078	-1.30824	-1.92522	-2.08606	-2.47639
RSp0335		putative HNS-like transcription regulator protei	13804.9	6739.45	1507.56	9067.92	OK	5090.34	2547.5	603.51	2765.48	OK	13532.4	5422.18	1847	5954.5	OK	7664.28	3520.83	1063.66	3573.27	OK	-1.40355	-0.31376	-0.93672	-2.64552	-1.24294	-1.91417
RSp0336		transcription regulator protein	5837.16	662.989	269.442	1056.39	OK	2376.35	271.727	113.342	426.601	OK	2480.86	264.272	139.351	389.12	OK	2166.74	239.23	123.664	353.738	OK	-1.28683	-1.32696	-1.47059	-2.43991	-2.50874	-2.77135
RSp0337		porin precursor transmembrane protei	1976.48	142.379	62.9373	221.561	OK	994.516	71.947	32.2615	111.482	OK	686.904	47.2601	26.8926	67.5625	OK	557.55	39.2525	22.2601	56.1316	OK	-0.98473	-1.59104	-1.85888	-1.97894	-3.01267	-3.62726
RSp0338	***epsR***	negative regulator of exopolysaccharide production transcription regulator protein	2057.61	241.367	100.179	379.522	OK	221.719	26.1898	12.1375	40.0355	OK	95.5886	10.4994	5.62938	15.2798	OK	129.642	14.776	7.77391	21.4453	OK	-3.20415	-4.52285	-4.0299	-9.21607	-22.9886	-16.3351
RSp0339	***flgN***	flagella synthesis protein FLGN	272.793	58.5352	22.7216	82.6619	OK	2323.91	504.996	176.197	728.902	OK	1414.93	272.896	126.513	404.292	OK	1319.99	271.904	117.987	376.239	OK	3.108896	2.220975	2.215721	8.627219	4.662084	4.645137
RSp0340	***flgM***	negative regulator of flagellin synthesis (anti- sigma-28 factor	1156.07	463.112	126.194	526.844	OK	4943.14	2023.31	533.264	2431.39	OK	2204.09	743.024	286.189	906.463	OK	2076.08	785.839	268.574	856.192	OK	2.127284	0.682048	0.762873	4.368943	1.604415	1.696866
RSp0341	***flgA***	flagellar basal body P-ring biosynthesis protein FlgA	696.687	61.8002	27.8491	95.6587	OK	2751.71	245.376	105.885	384.593	OK	1935.11	162.749	88.4291	237.099	OK	3455	298.88	158.543	436.637	OK	1.989311	1.396965	2.273883	3.970473	2.63347	4.83623
RSp0342	***flgB***	flagellar basal-body rod protein FlgB	394.485	75.5969	30.1314	116.905	OK	2972.51	576.122	211.437	859.844	OK	1178.18	204.848	97.7213	312.045	OK	2589.21	477.611	215.727	688.259	OK	2.929975	1.438155	2.659437	7.620974	2.709741	6.317865
RSp0343	***flgC***	flagellar basal-body rod protein FlgC	302.202	78.9949	28.57	107.809	OK	2564.95	680.711	221.773	908.559	OK	1261.55	291.02	128.153	406.104	OK	2481.33	619.526	252.569	804.422	OK	3.107211	1.881287	2.971333	8.617151	3.684035	7.842608
RSp0344	***flgD***	basal-body rod modification protein FlgD	741.307	94.7229	40.1297	148.528	OK	7399.53	952.676	369.097	1525.61	OK	3104.4	369.754	191.835	547.078	OK	4880.15	605.064	299.343	908.235	OK	3.3302	1.964781	2.675303	10.0575	3.903533	6.387727
RSp0345	***flgE***	flagellar hook protein FlgE	2678.24	165.211	73.6393	256.002	OK	24631.1	1524.95	556.006	2491.51	OK	15848.8	938.044	488.761	1387.05	OK	15532.5	937.66	486.601	1389.11	OK	3.20638	2.505346	2.504755	9.230318	5.677854	5.67553
RSp0346	***flgF***	flagellar basal-body rod protein FlgF	973.536	108.847	46.4246	171.212	OK	8659.01	974.554	379.861	1569.01	OK	4564.91	479.046	250.511	704.443	OK	4151.26	451.282	230.711	669.75	OK	3.16244	2.137863	2.051728	8.95343	4.401095	4.146021
RSp0347	***flgG***	flagellar basal-body rod protein FlgG	870.098	90.2329	39.3973	140.975	OK	7964.41	831.025	330.148	1330.46	OK	4886.13	477.279	251.449	700.633	OK	4629.03	467.243	241.712	685.865	OK	3.203166	2.403107	2.372448	9.209778	5.289412	5.178189
RSp0348	***flgH***	flagellar L-ring protein precursor	336.681	37.8401	17.5241	57.8295	OK	2429.71	274.9	114.958	432.582	OK	1122.61	118.394	62.6672	173.653	OK	1504.93	164.445	84.2766	244.013	OK	2.860919	1.645608	2.119617	7.26478	3.128797	4.345787
RSp0349	***flgI***	flagellar basal body P-ring protei	395.499	26.8675	13.1703	40.6132	OK	2928.35	199.732	89.6972	308.719	OK	1362.69	88.5756	49.2227	127.864	OK	1645.45	109.302	59.8113	158.772	OK	2.894132	1.721047	2.024386	7.433963	3.296756	4.068186
RSp0350	***flgJ***	flagellar protein flgJ	449.246	31.3114	15.1218	47.1444	OK	2903.51	203.203	91.0865	314.948	OK	1454.95	96.9528	53.528	140.226	OK	1659.05	113.042	61.6596	163.568	OK	2.698162	1.630595	1.852099	6.489745	3.096406	3.610251
RSp0351	***flgK***	flagellar hook-associated protein FlgK	255.553	9.31399	4.84092	13.7549	OK	8784.13	320.839	131.773	509.733	OK	4632.71	163.84	92.5803	235.156	OK	2697.09	96.513	54.8697	137.965	OK	5.106306	4.136744	3.373252	34.447	17.59074	10.36215

RSp0352	***flgL***	flagellar hook-associated protein 3	184.566	15.0648	7.44912	22.6182	OK	5969.86	489.634	207.221	768.478	OK	2698.71	209.497	114.838	302.026	OK	1447.82	115.35	61.8615	168.616	OK	5.02245	3.797676	2.936765	32.50186	13.90639	7.656922
RSp0353		hypothetical protein	1858.85	205.688	86.1277	324.082	OK	2104.95	234.45	97.9864	370.912	OK	2264.11	235.267	125.099	343.19	OK	1826.77	196.57	101.787	289.991	OK	0.188823	0.193841	-0.06541	1.139833	1.143805	-1.04639
RSp0354		putative oxidoreductase protein	2902.35	170.231	76.8212	263.686	OK	5034.22	296.295	130.591	461.898	OK	3890.23	219.223	122.374	316.044	OK	3908.29	224.419	123.987	323.709	OK	0.79954	0.364905	0.398701	1.740547	1.287797	1.31832
RSp0355		hypothetical protein	1456.25	161.974	67.356	256.387	OK	2327.59	260.6	109.073	411.349	OK	1120.39	116.995	62.0741	171.904	OK	1290.07	139.527	71.7624	206.199	OK	0.686075	-0.46932	-0.21522	1.6089	-1.38445	-1.16088
RSp0356		putative signal peptide protein	588.178	138.64	50.0403	192.167	OK	1659.67	396.635	132.503	558.438	OK	1406.04	295.394	133.635	426.319	OK	1139.58	257.253	108.515	344.385	OK	1.516468	1.091297	0.891844	2.860899	2.130655	1.855547
RSp0357	***fabB***	3-oxoacyl-[acyl-carrier-protein] synthase I	240.342	14.6991	7.42069	21.944	OK	620.078	38.0607	17.8097	58.0404	OK	386.8	22.7032	13.4384	31.9488	OK	435.161	26.0468	15.0593	36.7594	OK	1.372574	0.627168	0.825378	2.589322	1.54453	1.772
RSp0358	***fabF2***	3-oxoacyl-(acyl carrier protein) synthase II	253.525	15.3307	4.09395	26.5582	OK	644.918	39.1377	9.29012	69.0198	OK	461.27	26.7774	11.4947	42.0955	OK	619.198	36.6481	16.2065	57.0593	OK	1.352135	0.804592	1.257315	2.552897	1.746652	2.390504
RSp0359	***fabG***	3-ketoacyl-(acyl-carrier-protein) reductase	217.017	24.649	5.7422	43.5524	OK	486.678	55.65	10.601	100.268	OK	376.797	40.1381	15.5125	64.6645	OK	439.694	48.5467	17.4298	79.6542	OK	1.174853	0.703443	0.977844	2.257698	1.628387	1.96952
RSp0360		hypothetical protein	121.692	24.8721	0.204386	56.4105	OK	206.999	42.8207	0	115.844	OK	152.275	28.0899	0.922343	59.7678	OK	179.504	35.2614	0.589314	77.2002	OK	0.78378	0.175523	0.503561	1.721636	1.129374	1.417709
RSp0361		3-oxoacyl-(acyl carrier protein) synthase I	250.483	15.7225	0.325258	31.2247	OK	502.318	31.6469	1.19261	62.1242	OK	444.598	26.7632	6.31038	47.1139	OK	540.325	33.1856	6.84516	59.5208	OK	1.009234	0.76742	1.077727	2.012841	1.702223	2.110708
RSp0362		lipoprotein transmembrane	326.54	9.32157	0.372876	18.4041	OK	502.318	14.3636	0.13317	31.1618	OK	452.378	12.5756	2.31215	22.8325	OK	609.226	17.0928	3.31058	30.925	OK	0.623773	0.431982	0.874744	1.540899	1.349086	1.833683
RSp0363		putative signal peptide protein	58.8178	8.04219	0	23.0948	OK	155.479	21.4316	0	53.0062	OK	111.149	14.1116	0	32.3178	OK	135.988	18.021	0	41.0496	OK	1.414079	0.811221	1.164019	2.664896	1.754696	2.240808
RSp0364		hypothetical protein	33.4653	7.88811	0	23.5397	OK	101.2	24.1851	0	65.7334	OK	112.261	23.5848	0	47.028	OK	127.829	28.8565	0.14605	57.5436	OK	1.616367	1.580106	1.871145	3.06602	2.989918	3.658227
RSp0365	***hutH2***	histidine ammonia-lyase protein	226.144	10.2203	0.04058	21.8322	OK	531.758	24.0962	0.162321	50.3602	OK	385.689	16.8477	3.00244	30.7049	OK	546.671	24.2295	4.88397	43.5954	OK	1.237368	0.721114	1.245327	2.35768	1.648455	2.370723
RSp0366		hypothetical protein	179.496	7.49654	0	19.7128	OK	393.759	16.4857	0.041868	41.2814	OK	247.863	10.0211	0.242579	21.7108	OK	406.15	16.6429	0.491726	34.2979	OK	1.136918	0.418744	1.15061	2.199108	1.336763	2.220078
RSp0367		hypothetical protein	283.948	11.9519	4.52938	19.3736	OK	421.358	17.7799	6.58473	28.9652	OK	486.835	19.8341	10.4009	29.2876	OK	458.732	18.9442	9.72499	28.1612	OK	0.573007	0.730743	0.664516	1.487621	1.659493	1.585037
RSp0368		hypothetical protein	154.143	21.7693	3.10702	41.3798	OK	229.079	32.6241	2.70587	63.8015	OK	224.522	29.3864	7.59128	51.3066	OK	224.833	30.757	8.89195	52.5309	OK	0.583643	0.432854	0.49862	1.498629	1.349901	1.412861
RSp0369		acyl carrier protein	23.3243	16.6773	3.4033	13.3514	OK	85.5597	63.125	13.3514	47.1227	OK	32.2333	17.9546	4.90691	16.7868	OK	43.5161	29.1185	6.97298	25.0511	OK	1.920326	0.106468	0.80405	3.785085	1.076589	1.745996
RSp0370		putative acyl-carrier-protein	31.4371	20.0452	0.998465	38.9401	OK	87.3997	57.3901	3.99386	100.595	OK	31.1219	15.7104	1.96997	28.5646	OK	30.8239	18.4167	1.47748	34.967	OK	1.517545	-0.35154	-0.12224	2.863035	-1.27592	-1.08843
RSp0371		putative 1-acyl-SN-glycerol-3-phosphate acyltransferase alpha transmembrane protein	148.059	14.783	5.5064	24.0207	OK	208.839	20.9751	5.74581	36.1507	OK	153.386	14.4496	7.32148	21.5708	OK	169.532	16.4836	7.87256	25.0348	OK	0.504739	-0.03291	0.157092	1.418866	-1.02307	1.115038
RSp0372		hypothetical protein	94.3113	14.2572	1.36055	27.3622	OK	218.039	33.2579	5.94874	60.8602	OK	91.1426	12.715	4.04568	21.3445	OK	116.043	16.9709	5.9961	28.0793	OK	1.222006	-0.16516	0.251372	2.332709	-1.12129	1.190339
RSp0373	***fliR***	flagellar biosynthetic fliR transmembrane protein	70.987	7.29121	3.42819	11.1008	OK	427.798	44.2077	20.4059	67.4211	OK	101.146	9.78967	5.39495	14.0913	OK	174.064	17.4037	9.58208	25.0422	OK	2.600068	0.425102	1.255164	6.06315	1.342667	2.386943
RSp0374	***fliQ***	flagellar biosynthesis protein FliQ	44.6204	25.6305	6.20158	22.8981	OK	272.319	160.799	38.6406	146.214	OK	68.9127	31.7919	10.5886	31.7658	OK	159.559	86.006	25.4126	72.7084	OK	2.649325	0.310798	1.746576	6.273736	1.240393	3.355611
RSp0375	***fliP***	flagellar biosynthesis protein FliP	90.2549	9.88512	4.20753	15.5421	OK	711.157	78.3953	25.5028	130.691	OK	113.372	11.6662	5.7602	17.5347	OK	375.327	39.9807	19.6524	59.8891	OK	2.987437	0.239004	2.015973	7.930637	1.180178	4.044534
RSp0376	***fliO***	flagellar FLIO transmembrane protein	40.564	11.2849	1.391	21.4214	OK	461.838	130.557	6.78458	256.118	OK	82.2506	20.0669	7.80712	32.4483	OK	195.823	51.9498	15.3868	88.3416	OK	3.532214	0.830424	2.202725	11.56918	1.778208	4.603479
RSp0377	***fliN***	flagellar motor switch protein FliN	243.384	50.7078	11.6223	89.423	OK	1998.23	421.464	71.5111	766.385	OK	593.538	111.43	43.1637	179.264	OK	1252	250.588	65.8247	431.907	OK	3.05513	1.135858	2.305038	8.311621	2.197492	4.941804
RSp0378	***fliM***	flagellar motor switch protein FliM	417.809	31.8051	9.21095	54.4284	OK	3972.55	303.768	73.714	534.808	OK	648.001	47.0281	18.8693	75.1868	OK	3299.07	245.308	115.476	375.874	OK	3.25564	0.564265	2.947264	9.550921	1.478634	7.712851
RSp0379	***fliL***	flagellar basal body-associated protein FliL	184.566	35.6874	14.5715	52.8218	OK	1943.03	380.018	136.868	571.803	OK	351.232	61.5733	30.6749	83.8104	OK	1795.95	334.195	150.807	479.118	OK	3.412581	0.78689	3.227203	10.64852	1.725351	9.36451
RSp0380		hypothetical protein	309.301	12.6471	6.4883	18.7604	OK	2253.99	92.387	41.5622	143.225	OK	964.777	38.2035	21.9453	54.4609	OK	840.405	33.7197	19.4582	47.9139	OK	2.868883	1.594898	1.414785	7.304995	3.020732	2.6662
RSp0381		transcription regulator protein	764.631	104.549	43.5444	164.818	OK	1549.27	213.555	84.6471	341.437	OK	1480.51	187.967	96.2509	278.816	OK	1087.9	144.168	71.3601	209.765	OK	1.030428	0.8463	0.463572	2.042631	1.797884	1.378951
RSp0382	***fliC***	flagellin protein	1401.49	136.752	58.0549	214.67	OK	119234	11701.8	4097.45	19300.3	OK	51683.4	4762.86	1979.3	7501.91	OK	16236	1543.21	760.37	2321.38	OK	6.419025	5.122194	3.496301	85.5695	34.82845	11.28473
RSp0383	***fliD***	flagellar hook-associated protein 2	454.317	15.4316	7.57291	23.3133	OK	13821.1	470.399	180.78	759.262	OK	6204.36	204.722	114.499	295.246	OK	3452.28	115.169	65.0751	165.25	OK	4.929925	3.729707	2.899793	30.48284	13.26641	7.463192
RSp0384	***fliS***	flagellar protein FliS	144.002	35.4942	13.2456	45.5222	OK	1178.52	294.689	97.5911	407.721	OK	686.904	150.274	68.3378	207.567	OK	344.503	81.2303	35.2953	95.8231	OK	3.053538	2.08194	1.194435	8.302455	4.233762	2.288551
RSp0385	***fliT***	flagellar protein FliT	964.409	316.971	96.1505	393.081	OK	1927.39	645.27	188.332	786.341	OK	1685.03	477.025	196.112	623.037	OK	1164.96	363.541	135.071	430.128	OK	1.025552	0.589714	0.197767	2.035738	1.504948	1.146922
RSp0386		putative transcription regulator protein	614.545	140.253	50.7665	197.264	OK	551.998	127.676	45.98	176.523	OK	704.688	143.768	66.5365	204.761	OK	449.667	98.3654	43.356	128.208	OK	-0.13554	0.035711	-0.51181	-1.09851	1.025062	-1.42584
RSp0387		hypothetical protein	142.988	9.93368	4.96757	14.8436	OK	1365.27	95.2385	41.7512	148.791	OK	554.636	36.8431	21.2939	52.3888	OK	824.993	56.032	31.0366	80.8001	OK	3.261145	1.890994	2.495851	9.587434	3.708907	5.640609
RSp0388		hypothetical protein	493.867	26.242	12.749	39.6999	OK	6280.82	334.785	143.191	525.285	OK	2546.43	130.32	73.6578	186.896	OK	4332.57	225.542	124.936	326.305	OK	3.673285	2.312109	3.103447	12.7576	4.966085	8.594696
RSp0389	***fliE***	flagellar hook-basal body protein FliE	429.978	160.586	48.9293	178.118	OK	3524.51	1343.48	374.222	1524.93	OK	2171.86	688.398	271.488	861.206	OK	2900.17	1025.15	360.012	1160.17	OK	3.064557	2.099897	2.674417	8.366109	4.286787	6.383807
RSp0390	***fliF***	flagellar M-ring transmembrane protein	903.563	34.7611	10.3126	59.2096	OK	7633.21	294.326	60.4022	528.537	OK	5623.05	209.722	94.0171	325.548	OK	8918.09	336.766	144.088	529.672	OK	3.081869	2.592933	3.276201	8.467108	6.033238	9.688013
RSp0391	***fliG***	flagellar motor switch protein G	643.954	49.9049	3.2549	98.8095	OK	5671.78	441.567	10.1209	896.326	OK	3278.91	242.112	59.1453	425.019	OK	5554.65	420.407	87.3412	753.753	OK	3.145379	2.278421	3.074533	8.848169	4.851467	8.424163
RSp0392	***fliH***	flagellar assembly protein H	229.187	25.2303	6.46596	43.8823	OK	2000.99	221.72	51.9001	391.579	OK	946.994	97.9227	39.5478	156.32	OK	1393.42	149.181	57.9184	239.668	OK	3.13551	1.956486	2.563835	8.787846	3.881155	5.912772
RSp0393	***fliI***	flagellum-specific ATP synthase	362.034	18.1583	5.1661	31.1471	OK	2615.55	131.575	24.8507	238.396	OK	1239.32	59.9479	25.3952	94.857	OK	1829.49	89.9328	37.7036	142.949	OK	2.857184	1.72308	2.308218	7.245998	3.301405	4.95271
RSp0394	***fliJ***	flagellar protein	147.045	30.9355	12.2472	42.1083	OK	1459.11	310.799	108.298	457.412	OK	804.722	152.429	71.9482	222.632	OK	862.163	174.209	77.2425	237.429	OK	3.328647	2.300802	2.493484	10.04668	4.927317	5.631362
RSp0395	***fliK***	flagellar hook-length control protein	384.344	17.82	8.92728	26.6573	OK	4250.38	197.608	88.3178	306.642	OK	1979.57	88.6669	49.9323	127.227	OK	1776	80.7435	45.4265	115.799	OK	3.471072	2.314898	2.179849	11.08911	4.975696	4.531061
RSp0396		hypothetical protein	1190.55	93.6169	41.2271	145.936	OK	1640.35	129.587	56.4575	201.803	OK	1288.22	96.4669	52.9754	139.821	OK	1664.49	127.805	69.0364	186.58	OK	0.46908	0.043265	0.449103	1.384227	1.030443	1.365192
RSp0397	***pat***	phosphinothricin acetyltransferase protein	373.189	61.6217	25.9004	96.0181	OK	562.118	93.7301	37.8006	144.319	OK	308.996	46.8069	24.3998	65.6033	OK	353.568	56.3804	27.8526	75.6164	OK	0.605074	-0.39672	-0.12824	1.521057	-1.31651	-1.09296
RSp0398		putative transmembrane protein	756.519	37.3336	17.3843	57.1136	OK	1260.4	62.381	27.7447	97.0185	OK	852.516	40.5887	23.3426	57.8151	OK	1223.89	59.2012	33.0867	85.3584	OK	0.740632	0.120604	0.665152	1.670908	1.08719	1.585735
RSp0399		hypothetical protein	2308.09	1471.7	313.518	1298.5	OK	816.957	536.447	113.825	457.547	OK	352.344	177.864	59.3454	172.865	OK	635.517	379.709	103.67	314.457	OK	-1.45598	-3.04864	-1.95452	-2.74342	-8.2743	-3.87586
RSp0400		putative transmembrane protein	2436.88	113.97	51.5543	176.423	OK	1659.67	77.8357	34.6485	121.019	OK	561.305	25.3559	14.985	35.6669	OK	934.69	42.8625	24.4384	61.2611	OK	-0.55015	-2.16826	-1.41087	-1.46424	-4.49481	-2.65897
RSp0401		lipoprotein	50.705	120.433	5.36675	92.3847	OK	40.4799	101.224	3.83339	75.9012	OK	45.5713	69.8469	7.56329	54.4557	OK	32.6371	72.2249	4.53797	42.7326	OK	-0.25068	-0.78596	-0.73766	-1.18977	-1.72424	-1.66747
RSp0402		hypothetical protein	183.552	27.748	11.9426	43.8399	OK	167.439	25.5398	10.5247	40.4209	OK	130.045	18.1421	9.76544	26.6457	OK	135.988	19.8877	11.1147	28.6643	OK	-0.11964	-0.61304	-0.48051	-1.08646	-1.52948	-1.39523
RSp0403		putative signal peptide protein	509.078	178.019	55.2542	208.51	OK	816.037	290.948	85.1213	341.792	OK	1720.59	514.59	206.616	658.519	OK	1022.63	339.002	123.012	389.476	OK	0.70873	1.531392	0.929263	1.634365	2.890647	1.904302
RSp0404		hypothetical protein	312.343	40.1496	18.2615	61.3898	OK	34.0399	4.40901	1.84558	6.7995	OK	25.5644	3.0621	1.43737	4.59957	OK	39.8898	4.97485	2.39561	7.37848	OK	-3.18686	-3.71279	-3.01266	-9.10626	-13.1118	-8.07051
RSp0405		hypothetical protein	889.366	67.2249	30.2316	104.096	OK	199.639	15.1578	7.55791	22.7372	OK	151.163	10.8959	6.3281	15.413	OK	192.196	14.1914	8.14508	20.1747	OK	-2.14894	-2.62521	-2.24398	-4.435	-6.16974	-4.73702
RSp0406		hypothetical protein	978.607	42.2689	19.3242	65.2191	OK	195.959	8.48567	4.32457	12.6231	OK	97.8115	4.08715	2.38292	5.76512	OK	219.394	9.29592	5.61138	12.9139	OK	-2.3165	-3.37043	-2.18493	-4.98121	-10.3419	-4.54704
RSp0407		hypothetical protein	1156.07	41.4313	18.2782	64.5982	OK	385.479	13.844	6.96938	20.7109	OK	154.498	5.37422	3.27549	7.45904	OK	359.915	12.6652	7.71849	17.6423	OK	-1.58146	-2.94659	-1.70985	-2.99273	-7.70927	-3.27127
RSp0408		hypothetical protein	3.0423	1.99418	0.252553	3.53574	OK	NA	NA	NA	0	OK	1.11149	0.574581	0	1.24572	OK	1.81317	1.1133	0	1.99315	OK	NA	-1.79521	-0.84095	NA	-3.47067	-1.79123
RSp0409		hypothetical protein	1496.81	523.417	150.456	636.17	OK	1030.4	367.375	105.655	435.873	OK	1456.06	435.474	173.837	559.078	OK	955.542	316.762	115.462	362.59	OK	-0.51071	-0.26537	-0.72456	-1.42475	-1.20195	-1.6524
RSp0410		hypothetical protein	1132.75	142.202	29.3859	254.646	OK	1116.88	141.254	24.2339	258.176	OK	1027.02	120.295	36.2365	204.336	OK	897.52	109.358	32.3776	186.171	OK	-0.00965	-0.24137	-0.37888	-1.00671	-1.18211	-1.30033
RSp0411		hypothetical protein	1974.45	147.171	37.7906	256.931	OK	2355.19	176.325	48.7382	304.408	OK	2368.6	168.435	78.2942	258.705	OK	2164.93	157.656	74.0607	241.48	OK	0.260744	0.194699	0.099287	1.198096	1.144485	1.071244
RSp0412	***fsr***	putative fosmidomycin resistance antibiotic resistance transmembrane protein	506.036	30.3436	14.5892	46.0081	OK	596.158	35.8744	16.986	54.6054	OK	3076.62	177.145	99.2039	254.897	OK	570.243	33.47	19.1726	47.7001	OK	0.241562	2.545467	0.141476	1.182272	5.837969	1.103033
RSp0413		hypothetical protein	203.834	47.0175	17.9622	63.5248	OK	212.519	49.688	18.6923	66.4455	OK	3282.24	676.148	308.006	990.142	OK	164.092	36.2699	16.135	45.8119	OK	0.0797	3.846069	-0.37443	1.056798	14.38077	-1.29632
RSp0414		ferric siderophore receptor protein	833.59	25.822	11.7824	39.8016	OK	1510.63	46.8803	20.4324	73.166	OK	15862.1	477.967	249.052	706.785	OK	572.962	17.4384	10.4043	24.4658	OK	0.860381	4.210238	-0.56633	1.815518	18.51007	-1.48076
RSp0415		extracytoplasmic function sigma factor transcription regulato	410.711	62.5283	26.6411	96.7666	OK	804.997	123.666	49.4291	195.735	OK	6571.16	922.797	454.712	1374.02	OK	274.696	40.4526	20.417	58.2101	OK	0.983868	3.883432	-0.62828	1.97776	14.75807	-1.54572
RSp0416		ferric siderophore receptor outer membrane signal peptide	3711.61	104.976	46.4194	163.603	OK	5222.82	147.965	63.6353	232.176	OK	65112.5	1793.57	652.742	2936.83	OK	5861.98	162.956	90.7259	235.137	OK	0.495196	4.094703	0.634423	1.409513	17.08552	1.552317
RSp0417	***cysK2***	cysteine synthase A protein	1460.3	109.993	47.9999	171.673	OK	1422.31	107.61	46.9234	168.253	OK	215883	15508.1	1961.61	29015.7	OK	4537.46	333.875	179.475	487.575	OK	-0.0316	7.139466	1.601896	-1.02214	140.9917	3.03542
RSp0418		ornithine cyclodeaminase protein	1493.77	111.73	34.3724	188.922	OK	2050.67	154.064	47.8443	259.493	OK	266545	19018.4	0	61714.6	OK	6646.18	485.663	225.745	745.487	OK	0.463513	7.411235	2.119939	1.378896	170.2175	4.346756
RSp0419		putative siderophore biosynthesis protein	830.548	30.9537	2.82819	58.9831	OK	1175.76	43.9157	5.00897	82.8353	OK	107628	3890.85	0	17447.8	OK	2667.18	97.5861	19.7318	175.3	OK	0.504625	6.97383	1.656564	1.418754	125.699	3.152647
RSp0420		multidrug resistance 1 transmembrane protein	296.117	18.0588	0	52.5695	OK	344.999	21.1158	0	64.5718	OK	22173.2	1297.86	0	7224.75	OK	735.241	43.8842	0	125.462	OK	0.225621	6.167289	1.281	1.16928	71.86856	2.430073
RSp0421		siderophore biosynthesis protein	900.521	34.6441	4.73537	64.7167	OK	841.797	32.4585	4.06891	60.8933	OK	107145	3996.16	0.657462	11745.1	OK	3203.87	120.985	31.0045	211.115	OK	-0.09401	6.849861	1.804147	-1.06734	115.3489	3.492225
RSp0422		siderophore biosynthesis protein	1008.02	40.3712	7.16779	73.6063	OK	980.716	39.3709	7.05864	71.6779	OK	107928	4187.64	0.466616	11666.3	OK	4046.09	159.028	53.6968	264.284	OK	-0.0362	6.696667	1.977882	-1.02541	103.7284	3.939145
RSp0423		aldolase protein	182.538	18.3108	0	48.8614	OK	206.079	20.7952	0	54.2282	OK	15264.2	1444.37	0	6923.92	OK	647.302	63.2276	0	146.897	OK	0.183556	6.301602	1.78786	1.135679	78.88077	3.453022
RSp0424		diaminopimelate decarboxylase protein	464.458	27.6957	0.178891	69.9463	OK	512.438	30.6646	0.299203	74.4417	OK	48408.9	2772.21	0	11850.7	OK	2183.06	127.427	7.5882	259.633	OK	0.146912	6.645231	2.201937	1.107197	100.0953	4.600967
RSp0425		hypothetical protein	304.23	38.192	17.3644	58.9627	OK	140.759	17.8022	8.10975	27.2869	OK	6854.59	802.877	412.438	1193.74	OK	355.382	43.3013	22.7773	62.1198	OK	-1.10121	4.393837	0.18114	-2.14535	21.02213	1.133779
RSp0426		hypothetical protein	393.471	63.5058	26.7476	99.7584	OK	178.479	29.0831	12.5128	43.6228	OK	491.281	72.8562	37.3715	102.942	OK	141.427	22.054	10.8717	30.1237	OK	-1.12671	0.198163	-1.52585	-2.1836	1.147237	-2.87956
RSp0427		hypothetical protein	686.546	375.547	90.3014	357.705	OK	489.438	274.987	66.7344	245.937	OK	541.298	239.385	83.3277	249.523	OK	710.763	365.121	107.958	332.39	OK	-0.44963	-0.64966	-0.04062	-1.36569	-1.5688	-1.02855
RSp0428		putative pseudogene protein	2.0282	5.19228	0.390309	4.68371	OK	7.35997	19.8622	1.17093	7.41587	OK	10.0035	16.3128	1.9252	9.626	OK	4.53293	10.8049	0.38504	6.16064	OK	1.935585	1.651564	1.057246	3.825333	3.141741	2.080955
RSp0429		multidrug ABC transporter transmembrane protein	265.694	16.4845	8.31846	24.526	OK	259.439	16.1555	8.15746	24.204	OK	459.047	27.3224	15.9888	38.7013	OK	344.503	20.916	12.2298	29.6481	OK	-0.02908	0.728974	0.343497	-1.02036	1.65746	1.268828
RSp0430		alcohol dehydrogenase	280.906	20.7937	10.2967	31.1396	OK	197.799	14.706	7.36368	22.091	OK	285.654	20.1779	11.943	28.4415	OK	225.74	16.3267	9.41893	23.0856	OK	-0.49974	-0.04337	-0.34891	-1.41396	-1.03052	-1.2736
RSp0431		putative oxidoreductase protein	244.398	16.143	5.89068	26.4514	OK	150.879	10.0048	3.68167	16.3127	OK	181.174	11.4598	5.42002	17.4893	OK	167.718	10.8351	5.42002	16.2042	OK	-0.69022	-0.49433	-0.5752	-1.61353	-1.40866	-1.48988
RSp0432		hypothetical protein	203.834	25.2928	5.0875	45.5393	OK	149.959	18.7449	5.24999	32.2499	OK	202.292	23.4352	10.658	36.2605	OK	133.268	16.0533	6.26384	25.7781	OK	-0.43223	-0.11005	-0.65586	-1.34932	-1.07927	-1.57555
RSp0433		hypothetical protein	169.355	88.396	23.294	82.4424	OK	86.4797	46.3256	11.8754	41.7921	OK	95.5886	40.5907	14.4185	41.9038	OK	58.0215	28.4631	8.561	25.9083	OK	-0.93217	-1.12283	-1.63489	-1.90815	-2.17774	-3.10564

RSp0434		transcription regulator protein	675.391	57.7629	25.1973	90.2318	OK	643.078	55.2781	24.5639	86.0087	OK	780.269	63.3583	35.8971	90.194	OK	746.12	62.2554	34.7862	89.5691	OK	-0.06344	0.13339	0.108056	-1.04495	1.096868	1.077775
RSp0435		hypothetical protein	49.6909	52.2096	0	171.262	OK	57.9598	63.2505	0	193.157	OK	64.4667	49.8636	0	132.265	OK	33.5437	32.908	0	103.01	OK	0.276762	-0.06633	-0.66588	1.211473	-1.04705	-1.58653
RSp0436		transcription regulator protein	199.778	28.2142	12.7135	42.6214	OK	187.679	26.7282	11.8798	40.3288	OK	253.421	33.1688	17.7847	48.2141	OK	118.763	16.2467	8.22415	23.9529	OK	-0.07806	0.233405	-0.79627	-1.0556	1.175607	-1.73661
RSp0437		transport transmembrane protein	372.175	22.6329	11.2346	33.9147	OK	340.399	20.775	10.3907	31.172	OK	346.786	20.2424	11.9675	28.5138	OK	223.927	13.3279	7.8569	18.7317	OK	-0.12357	-0.16104	-0.76397	-1.08943	-1.11809	-1.69816
RSp0438		putative hydrolase protein	350.879	52.3065	22.768	79.2544	OK	296.239	44.5528	19.2986	66.2441	OK	596.873	82.1847	42.5683	119.148	OK	245.685	35.441	17.9685	51.0178	OK	-0.23147	0.65188	-0.56157	-1.17403	1.571214	-1.47588
RSp0439		hypothetical protein	39.5499	174.258	10.0763	36.3625	OK	37.7199	176.874	9.63824	37.6768	OK	101.146	257.175	28.9566	85.141	OK	41.703	169.236	11.2369	39.7613	OK	0.021497	0.561526	-0.04219	1.015012	1.475829	-1.02967
RSp0440		putative multidrug resistance transmembrane protei	637.869	44.1711	20.6413	67.5267	OK	584.198	40.6203	19.167	61.8061	OK	866.966	57.4104	32.2894	82.498	OK	487.743	33.0207	18.7337	47.2414	OK	-0.1209	0.378209	-0.41973	-1.08741	1.299728	-1.33768
RSp0441		inner membrane multidrug resistance transmembrane protei	163.27	7.87619	4.04388	11.7445	OK	159.159	7.69979	3.91482	11.4433	OK	174.505	8.12558	4.92296	11.2888	OK	128.735	6.08803	3.60734	8.53029	OK	-0.03268	0.044973	-0.37152	-1.02291	1.031664	-1.29372
RSp0442		multidrug resistance efflux pump protei	293.075	14.234	7.27108	21.164	OK	268.639	13.0846	6.70844	19.4761	OK	263.424	12.3474	7.51449	17.2065	OK	229.366	10.9201	6.53248	15.2852	OK	-0.12147	-0.20513	-0.38236	-1.08784	-1.15279	-1.30347
RSp0443		transcription regulator protein	458.373	63.0754	27.4982	96.9082	OK	683.557	94.8318	39.2539	148.633	OK	735.81	93.9824	49.0101	135.736	OK	505.875	67.4602	34.186	95.4991	OK	0.588293	0.575313	0.096959	1.503467	1.490001	1.069517
RSp0444		putative pirin-like protein	219.046	24.4906	11.4316	37.5236	OK	303.599	34.1695	15.7948	52.4458	OK	278.985	29.277	16.4425	42.0961	OK	255.657	27.7924	14.979	39.5996	OK	0.480481	0.25754	0.182462	1.395209	1.195438	1.134819
RSp0445		NADH-dependent flavin oxidoreductase oxidoreductase protei	332.625	23.3347	11.628	35.0031	OK	305.439	21.5165	10.6739	32.0812	OK	339.006	22.7333	13.3534	32.0599	OK	250.218	17.1594	10.0003	24.295	OK	-0.11703	-0.03767	-0.44348	-1.0845	-1.02645	-1.35988
RSp0446		oxidoreductase protein	156.171	13.4639	6.58888	20.2626	OK	115.92	10.0447	4.88852	15.1615	OK	137.825	11.278	6.49993	16.0052	OK	129.642	10.9031	6.08058	15.6558	OK	-0.42266	-0.25559	-0.30436	-1.3404	-1.19382	-1.23487
RSp0447		transcription regulator protein	671.334	60.2988	27.1818	93.1213	OK	631.118	56.9883	25.863	87.6264	OK	678.012	57.7103	32.091	83.2633	OK	798.702	69.9501	38.0178	101.838	OK	-0.08146	-0.0633	0.214197	-1.05809	-1.04485	1.160058
RSp0479		ABC transporter ATP-binding protein	1106.38	121.176	27.4778	213.811	OK	427.798	47.1589	15.2845	78.6551	OK	703.576	72.3989	28.4622	116.305	OK	1137.77	121.198	42.9474	199.235	OK	-1.3615	-0.74306	0.000262	-2.56953	-1.67373	1.000182
RSp0480		amino acid ABC transporter transmembrane protei	1625.6	166.969	36.2573	299.097	OK	353.279	36.507	5.16689	68.0995	OK	982.561	95.0996	39.8764	150.408	OK	1930.12	192.982	84.4869	301.553	OK	-2.19334	-0.81207	0.208886	-4.57362	-1.75573	1.155795
RSp0481		substrate-binding periplasmic (PBP) ABC transporter protei	3226.87	342.923	145.405	538.771	OK	1087.44	116.292	49.307	183.056	OK	3012.15	301.174	160.318	439.261	OK	5535.61	572.392	292.427	844.358	OK	-1.56013	-0.18729	0.739119	-2.94881	-1.13862	1.669156
RSp0482		transcription regulator protein	358.991	83.7027	31.3183	116.157	OK	441.598	104.379	38.2289	139.241	OK	1348.24	280.469	126.918	405.268	OK	990.898	221.331	94.282	296.191	OK	0.318485	1.744495	1.402859	1.247021	3.350776	2.644252
RSp0483		ornithine cyclodeaminase	6239.76	452.527	121.074	783.607	OK	3555.79	258.984	77.5879	439.767	OK	7401.44	512.561	239.06	784.161	OK	14271.5	1011.46	450.711	1570.92	OK	-0.80514	0.17972	1.160363	-1.74732	1.132664	2.235137
RSp0484		hypothetical protein	4247.05	342.747	7.10181	696.462	OK	2495.95	202.392	6.56815	398.305	OK	3921.35	301.098	62.1185	540.101	OK	6596.32	519.676	43.0154	1006.92	OK	-0.75999	-0.18691	0.600468	-1.69348	-1.13832	1.516209
RSp0485		putative hydrolase phosphatase protein	775.787	109.563	45.2266	172.674	OK	586.038	83.46	35.0141	131.303	OK	571.308	74.7752	39.0647	109.587	OK	871.229	119.183	58.8027	165.717	OK	-0.3926	-0.55113	0.121418	-1.31276	-1.46523	1.087803
RSp0486		hypothetical protein	418.823	94.5829	35.5862	129.234	OK	319.239	73.0555	27.6622	104.165	OK	347.898	70.2999	33.5424	91.8152	OK	546.671	118.363	52.1613	155.063	OK	-0.37259	-0.42806	0.323567	-1.29467	-1.34542	1.251421
RSp0487		hypothetical protein	3287.71	154.435	69.1061	239.96	OK	1461.87	68.8601	30.4991	107.125	OK	1331.57	60.4089	34.1488	86.4079	OK	1386.17	63.8427	35.9308	91.0081	OK	-1.16526	-1.35417	-1.27441	-2.24274	-2.55649	-2.41899
RSp0488	***czcS***	transmembrane sensory transduction histidine kinase for cobalt zinc cadmium resistance transcription regulator protei	1096.24	57.1187	18.2423	95.8183	OK	1501.43	78.472	24.8759	131.934	OK	922.541	46.3176	17.1326	75.6653	OK	1424.25	72.7126	29.2209	115.884	OK	0.458215	-0.3024	0.348242	1.373841	-1.2332	1.273009
RSp0489	***czcR***	response regulator for cobalt zinc cadmium resistance transcription regulator protein	701.757	88.0962	3.89163	175.751	OK	1051.56	132.993	11.6355	258.384	OK	1501.63	175.886	76.8372	275.255	OK	1776	216.396	90.2869	343.114	OK	0.594199	0.997489	1.296522	1.509634	1.996522	2.45636
RSp0490		putative signal peptide protein	321.47	141.536	40.6189	153.426	OK	439.758	198.138	54.5093	198.464	OK	184.508	67.5634	26.1601	72.4592	OK	949.195	394.063	129.139	406.104	OK	0.485337	-1.06686	1.477257	1.399912	-2.09486	2.784189
RSp0491	***czcC***	cobalt-zinc-cadmium outer membrane resistance protei	104.452	5.77904	2.91407	8.59651	OK	182.159	10.1113	5.14819	15.056	OK	87.8081	4.67452	2.68308	6.6598	OK	356.288	19.3068	11.4031	27.2141	OK	0.807067	-0.30601	1.740207	1.74965	-1.23629	3.340832
RSp0492	***czcB***	cobalt-zinc-cadmium resistance protei	121.692	7.44259	3.76335	11.078	OK	300.839	18.4656	9.22286	27.6686	OK	88.9196	5.21913	2.98049	7.42509	OK	433.348	25.9383	15.0593	36.6026	OK	1.310963	-0.512	1.801207	2.481072	-1.42602	3.485117
RSp0493	***czcA***	cation efflux system transmembrane protei	506.036	10.7449	5.13998	16.3472	OK	1059.84	22.5321	9.79621	35.2542	OK	465.716	9.6616	5.8461	13.4619	OK	1635.48	34.1633	19.6461	48.6976	OK	1.06833	-0.15332	1.668795	2.097004	-1.11212	3.17949
RSp0494	***hit***	putative hit-like protein	1309.2	308.592	104.522	441.036	OK	1616.43	386.301	128.95	544.373	OK	1289.33	270.875	122.39	389.953	OK	977.3	220.619	93.7639	293.852	OK	0.324025	-0.18807	-0.48414	1.251818	-1.13924	-1.39876
RSp0495		hypothetical protein	120.678	144.235	23.0455	78.6071	OK	36.7999	45.7813	6.62951	26.2024	OK	86.6966	74.791	17.7515	52.3201	OK	29.0107	32.3674	5.2943	19.9315	OK	-1.65559	-0.94748	-2.15581	-3.15052	-1.92851	-4.45618
RSp0496		hypothetical protein	4986.33	302.376	133.432	471.116	OK	747.037	45.4635	20.8356	69.9782	OK	999.234	58.1663	32.8039	83.515	OK	802.329	47.6201	26.9386	68.203	OK	-2.73356	-2.37809	-2.6667	-6.65096	-5.19847	-6.34976
RSp0497		hypothetical protein	838.661	302.927	89.0975	357.91	OK	116.84	43.0512	13.4881	45.5936	OK	183.397	56.4423	23.6135	65.0309	OK	135.988	46.5273	17.2416	47.9767	OK	-2.81484	-2.42412	-2.70282	-7.03644	-5.36702	-6.51074
RSp0498		hypothetical protein	3707.55	331.622	16.1368	646.273	OK	500.478	45.0026	8.46997	81.487	OK	692.461	58.7043	23.4822	93.6407	OK	489.556	42.6986	16.7113	68.5738	OK	-2.88146	-2.498	-2.95728	-7.36895	-5.64902	-7.76658
RSp0499		putative transport transmembrane protei	2227.98	138.23	0.21467	332.524	OK	397.439	24.7488	1.82469	47.6567	OK	605.765	36.055	12.3887	59.6668	OK	391.645	23.7782	7.78262	39.7602	OK	-2.48164	-1.9388	-2.53936	-5.58532	-3.83386	-5.81331
RSp0500		hypothetical protein	7202.14	450.75	23.4696	885.712	OK	467.358	29.3582	0.628174	60.6188	OK	376.797	22.6176	1.32057	43.999	OK	328.184	20.0981	3.1845	37.0504	OK	-3.94049	-4.31681	-4.4872	-15.3535	-19.9292	-22.4275
RSp0501		hypothetical protein	9456.48	7674.18	1322.7	6593.39	OK	172.959	145.146	28.6227	101.28	OK	220.076	136.619	40.7254	111.045	OK	91.5652	69.4654	16.5617	48.3275	OK	-5.72444	-5.81178	-6.78757	-52.8721	-56.1721	-110.475
RSp0502		hypothetical protein	92.2831	45.0518	12.3933	43.1553	OK	22.0799	11.0501	2.65571	12.8359	OK	14.4494	5.7896	1.74657	7.42294	OK	7.25269	3.33176	0.654965	3.92979	OK	-2.02753	-2.96005	-3.75723	-4.07705	-7.7815	-13.5219
RSp0505	***serA2***	2-hydroxyacid dehydrogenase	996.86	73.5376	32.8538	113.993	OK	896.077	66.3917	29.8049	102.979	OK	549.078	38.6566	22.1593	54.9379	OK	800.515	57.7004	32.042	83.3584	OK	-0.14748	-0.92777	-0.3499	-1.10763	-1.90233	-1.27447
RSp0506		putative glycin-rich transmembrane protei	1874.06	188.873	80.2399	296.598	OK	2052.51	208.095	88.28	327.311	OK	1796.18	170.726	91.5299	248.892	OK	2674.43	262.445	138.405	385.155	OK	0.139826	-0.14573	0.474599	1.101772	-1.10629	1.389532
RSp0507	***cheD1***	methyl-accepting chemotaxis	304.23	11.9395	6.14363	17.6808	OK	1259.48	49.5425	22.1099	77.0454	OK	778.046	29.592	17.4421	41.7201	OK	617.385	23.7802	13.9537	33.5452	OK	2.052924	1.309465	0.994018	4.149462	2.478496	1.991725
RSp0508	***nfrB***	bacteriophage N4 adsorption protein B	77.0716	2.5651	0.737064	4.42239	OK	50.5998	1.68738	0.276399	3.0711	OK	94.4771	3.05552	1.42393	4.66565	OK	60.7413	1.98567	0.757411	3.21142	OK	-0.60423	0.252403	-0.36939	-1.52017	1.191189	-1.29181
RSp0509		putative signal peptide protein	118.65	4.78768	1.65441	7.94922	OK	125.12	5.06078	1.98193	8.12996	OK	107.815	4.21413	1.95433	6.48839	OK	106.977	4.23608	2.09869	6.37528	OK	0.080033	-0.18409	-0.1766	1.057042	-1.1361	-1.13021
RSp0510	***epsC2***	UDP-N-acetylglucosamine 2-epimerase protei	32.4512	1.91908	0.926633	2.88286	OK	41.3998	2.45685	1.18403	3.70653	OK	54.4632	3.09382	1.72668	4.41826	OK	25.3844	1.46956	0.710985	2.18374	OK	0.356395	0.688974	-0.38503	1.280223	1.612137	-1.30589
RSp0511		putative signal peptide protein	19.2679	7.8607	2.02519	9.11335	OK	12.88	5.37066	1.21511	6.07556	OK	36.6793	12.5646	4.59505	15.5832	OK	25.3844	9.78143	2.99677	10.5886	OK	-0.54956	0.676635	0.315388	-1.46364	1.598407	1.244346
RSp0512		hypothetical protein	233.243	9.53716	4.85695	14.163	OK	228.159	9.35183	4.7828	13.8664	OK	317.888	12.5878	7.68085	17.5197	OK	295.547	11.8583	7.24194	16.459	OK	-0.02831	0.400395	0.314266	-1.01982	1.319869	1.243379
RSp0513		putative transmembrane protei	50.705	4.49783	1.30543	7.68751	OK	44.1598	3.93783	1.01533	6.81722	OK	50.0173	4.2066	1.71707	6.65365	OK	44.4227	3.84285	1.50244	6.15283	OK	-0.19183	-0.09657	-0.22705	-1.14221	-1.06923	-1.17044
RSp0514		putative mechanosensitive ion channel transmembrane protei	89.2408	5.91272	2.18644	9.67334	OK	90.1597	5.99702	2.32805	9.71128	OK	76.6931	4.86561	2.34738	7.42278	OK	79.7796	5.16977	2.52723	7.77609	OK	0.020424	-0.2812	-0.19372	1.014257	-1.21521	-1.14371
RSp0515		hypothetical protein	45.6345	26.883	6.51246	22.9142	OK	36.7999	22.2947	5.06525	20.0198	OK	27.7874	13.1018	4.04508	14.5147	OK	32.6371	18.0351	4.75892	15.7044	OK	-0.26999	-1.03693	-0.57589	-1.2058	-2.05186	-1.49059
RSp0516		hypothetical protein	252.511	13.4841	6.82613	20.1018	OK	179.399	9.61022	4.89598	14.2643	OK	245.64	12.6323	7.6628	17.6012	OK	209.421	10.9558	6.50177	15.372	OK	-0.48862	-0.09414	-0.29956	-1.4031	-1.06743	-1.23077
RSp0517		hypothetical protein	266.708	11.0957	5.72453	16.458	OK	193.199	8.05735	4.14275	11.9763	OK	170.059	6.8493	4.16113	9.51116	OK	169.532	6.92014	4.19829	9.58547	OK	-0.46162	-0.69597	-0.68113	-1.37709	-1.61998	-1.60339
RSp0518		putative VGR-related protein	542.544	13.6219	6.4708	20.7585	OK	145.359	3.65503	1.88928	5.40808	OK	171.17	4.19161	2.5627	5.80101	OK	119.669	2.95436	1.77059	4.12361	OK	-1.89797	-1.70035	-2.20501	-3.72689	-3.2498	-4.61078
RSp0519		hypothetical protein	588.178	42.9467	20.2333	65.1412	OK	342.239	25.0971	12.3374	37.6906	OK	144.494	10.0723	5.84199	14.3007	OK	189.476	13.5193	7.85017	19.169	OK	-0.77503	-2.09215	-1.66753	-1.71122	-4.26384	-3.1767
RSp0520		manganese transport protein MntH	867.056	47.8483	21.9031	73.6565	OK	1041.44	57.659	25.9736	89.2601	OK	946.994	50.2874	28.6346	71.8017	OK	852.191	46.0612	26.101	66.0174	OK	0.269078	0.071729	-0.05492	1.205038	1.050976	-1.0388
RSp0521	***hscC***	chaperone transmembrane protein	1593.15	63.3334	28.0806	98.5892	OK	2069.07	82.4462	36.7902	128.043	OK	990.342	38.1459	21.9615	54.2978	OK	926.531	36.148	20.785	51.3387	OK	0.380486	-0.73144	-0.80905	1.301781	-1.66029	-1.75206
RSp0522		hypothetical protein	633.813	23.9542	11.3892	36.5146	OK	902.517	34.1858	15.4618	52.9082	OK	522.403	19.1468	11.4738	26.7949	OK	395.271	14.6648	8.81816	20.4963	OK	0.513119	-0.32318	-0.70792	1.427132	-1.25108	-1.63345
RSp0523		putative two component response regulator transcription regulator protein	2032.26	259.678	75.0378	443.168	OK	2980.79	383.771	88.5755	676.21	OK	1671.69	199.108	68.8736	329.01	OK	1605.56	199.065	72.4031	325.576	OK	0.563522	-0.38317	-0.38348	1.477873	-1.30421	-1.30449
RSp0524		transmembrane sensor histidine kinase transcription regulato	1901.44	92.9794	11.687	175.5	OK	3529.11	173.071	26.2859	320.139	OK	2977.69	140.506	60.2567	221.162	OK	2352.59	112.768	47.454	178.6	OK	0.896381	0.595649	0.278375	1.861391	1.511152	1.212828
RSp0525		hypothetical protein	1516.08	216.967	85.5523	348.313	OK	1693.71	244.452	95.8649	390.72	OK	3285.58	435.412	221.53	644.97	OK	1639.11	227.163	110.557	328.454	OK	0.172076	1.004906	0.066252	1.126678	2.006812	1.046993
RSp0526		hypothetical protein	610.488	145.489	52.0276	211.539	OK	628.358	151.848	53.3693	207.365	OK	995.899	211.324	96.0327	302.069	OK	392.552	89.5702	39.2661	107.21	OK	0.061718	0.538547	-0.69982	1.043708	1.452508	-1.6243
RSp0527		hypothetical protein	348.85	64.5494	26.2655	100.263	OK	371.679	69.5301	27.9071	107.209	OK	381.243	64.1779	32.3887	88.0722	OK	399.804	71.2658	33.7589	98.7854	OK	0.107234	-0.00833	0.142806	1.077161	-1.00579	1.104051
RSp0528		putative outer membrane cation efflux system protei	127.777	6.89188	3.51451	10.2586	OK	183.079	9.90623	5.0343	14.8179	OK	175.616	9.11979	5.48171	12.7438	OK	80.6861	4.26319	2.43631	6.04393	OK	0.523439	0.404103	-0.69296	1.437377	1.323266	-1.6166
RSp0529		putative cation efflux protei	149.073	10.997	0	28.3738	OK	235.519	17.45	0	36.8983	OK	762.485	53.681	0.306916	121.416	OK	218.487	15.7484	0.061383	33.3311	OK	0.666117	2.287302	0.518095	1.586796	4.881422	1.432063
RSp0530		putative cation efflux system transmembrane protei	893.422	19.2561	5.13163	33.3658	OK	1039.6	22.4351	7.48278	37.4139	OK	6876.82	144.792	74.4026	215.201	OK	1942.81	41.1926	22.0243	60.3853	OK	0.220442	2.910594	1.09707	1.165091	7.51928	2.139197
RSp0531		P-II-like protein transcription regulato	410.711	161.6	3.54117	349.789	OK	119.6	48.0691	0	152.729	OK	602.43	199.91	0	580.718	OK	215.767	80.2525	0	198.988	OK	-1.74925	0.306923	-1.00981	-3.36183	1.237067	-2.01364
RSp0532		putative aminopeptidase transmembrane protei	3775.49	116.616	51.5896	181.538	OK	516.118	15.9708	7.68111	24.2471	OK	382.354	11.4886	7.01194	15.9182	OK	319.118	9.6847	5.93753	13.4584	OK	-2.86826	-3.34349	-3.58991	-7.30183	-10.1506	-12.0413
RSp0533		hypothetical protein	167.327	38.5964	14.8955	51.8421	OK	159.159	37.2122	14.0193	49.3595	OK	84.4736	17.4017	8.0675	23.6263	OK	97.0047	21.4413	9.22	27.2278	OK	-0.05269	-1.14924	-0.84807	-1.0372	-2.21797	-1.8001
RSp0534	***icc***	putative ICC protein	1317.32	125.126	53.5142	196.73	OK	457.238	43.6758	20.3936	66.5477	OK	409.03	36.7348	20.7234	51.9598	OK	401.618	37.172	20.5721	53.6237	OK	-1.51848	-1.76816	-1.75109	-2.86488	-3.4062	-3.36614
RSp0535		transcription regulator protein	347.836	29.8678	14.4055	45.3349	OK	93.8397	8.09876	3.95445	12.2164	OK	58.9092	4.80188	2.64715	6.89652	OK	48.0491	4.02502	2.08986	5.92126	OK	-1.88282	-2.63692	-2.89152	-3.68795	-6.22002	-7.42053
RSp0536		sugar-proton symporter transmembrane protei	1649.94	91.2863	40.5056	141.43	OK	193.199	10.7241	5.48817	15.9303	OK	162.278	8.63899	5.17452	12.026	OK	207.608	11.25	6.6598	15.811	OK	-3.08954	-3.40146	-3.02047	-8.51226	-10.5668	-8.11434
RSp0537		hypothetical protein	30.423	58.8744	3.27463	45.1171	OK	4.59998	9.33981	0.363847	8.73234	OK	5.55747	7.18475	0.717871	7.17871	OK	1.81317	3.2729	0	3.58936	OK	-2.65618	-3.03463	-4.169	-6.3036	-8.19436	-17.9885
RSp0538		hypothetical protein	116.622	31.2398	13.1258	49.5566	OK	19.3199	5.25608	2.17644	8.4337	OK	7.78046	1.83481	0.471646	3.30152	OK	11.7856	3.01354	1.02279	4.85823	OK	-2.57133	-4.08968	-3.37385	-5.94355	-17.0262	-10.3665
RSp0539		hypothetical protein	322.484	21.1704	10.5926	31.7779	OK	180.319	11.8836	5.97244	17.7483	OK	267.87	16.843	10.005	23.6784	OK	259.284	16.6489	9.78264	23.4005	OK	-0.83308	-0.3299	-0.34662	-1.78148	-1.25693	-1.27158
RSp0540		hemagglutinin-related protei	247.44	1.51809	0.006042	3.63724	OK	232.759	1.42854	0	3.59495	OK	223.41	1.34838	0.381464	2.31858	OK	313.679	1.89698	0.429147	3.37357	OK	-0.08772	-0.17103	0.321447	-1.06269	-1.12586	1.249583
RSp0541		hypothetical protein	1059.73	201.287	65.7195	336.765	OK	1111.36	213.475	68.3823	358.623	OK	476.831	82.2302	40.6985	123.82	OK	778.757	142.411	70.2218	214.871	OK	0.084813	-1.29151	-0.49919	1.06055	-2.44785	-1.41342
RSp0542		hypothetical protein	2887.14	548.386	203.872	830.4	OK	3086.59	592.888	218.269	887.217	OK	2130.74	367.448	176.773	521.568	OK	2928.27	535.491	241.065	779.118	OK	0.112568	-0.57765	-0.03433	1.081151	-1.49242	-1.02408
RSp0550		activation/secretion signal peptide protein	118.65	4.7431	2.46998	7.01037	OK	158.239	6.34067	3.23276	9.44403	OK	117.818	4.56302	2.72329	6.37824	OK	136.894	5.37054	3.22495	7.48906	OK	0.418805	-0.05584	0.179237	1.33682	-1.03947	1.132285
RSp0551		hydrolase transmembrane protei	353.921	17.9612	9.09085	26.8225	OK	344.999	17.5609	8.86582	26.1924	OK	474.608	23.2228	13.7186	32.7203	OK	349.036	17.3591	10.2556	24.4182	OK	-0.03252	0.370658	-0.04919	-1.02279	1.292943	-1.03468
RSp0552		hypothetical protein	212.961	14.1099	7.09887	21.0127	OK	239.199	15.9105	8.00753	23.7386	OK	238.971	15.161	9.01992	21.2892	OK	164.999	10.692	6.27473	15.1266	OK	0.173271	0.103657	-0.40018	1.127613	1.074494	-1.31967
RSp0553		hypothetical protein	77.0716	43.1908	10.8514	37.5083	OK	75.4397	43.4406	10.6155	38.216	OK	64.4667	29.1126	9.77409	28.8568	OK	57.1149	30.0466	8.61051	25.1334	OK	0.00832	-0.56908	-0.52352	1.005784	-1.48358	-1.43746
RSp0554	***chrB***	chromate resistance signal peptide protein	686.546	54.5851	24.9786	84.1453	OK	399.279	31.8949	15.2389	48.4995	OK	349.009	26.4153	15.2293	37.583	OK	592.907	46.026	25.6872	66.2114	OK	-0.77518	-1.04713	-0.24606	-1.71141	-2.06642	-1.18596

RSp0555	***chrA***	chromate transporter	534.431	32.9671	15.6463	49.9829	OK	298.999	18.5115	9.29168	27.7149	OK	260.09	15.394	9.16625	21.546	OK	408.87	24.6825	14.2762	34.7685	OK	-0.83261	-1.09866	-0.41754	-1.7809	-2.14156	-1.33565
RSp0556		hypothetical protein	418.823	69.6928	28.9746	105.223	OK	209.759	35.2499	14.8979	52.6704	OK	155.609	23.7417	12.2666	33.9067	OK	271.976	43.6986	21.5244	58.0926	OK	-0.98339	-1.55359	-0.67342	-1.97711	-2.93546	-1.59485
RSp0561		hypothetical protein	7.0987	25.5676	0	23.9925	OK	11.04	42.167	0.420921	34.5156	OK	17.7839	38.3851	2.0762	31.5582	OK	21.7581	72.5778	3.32191	34.8801	OK	0.721798	0.58623	1.505212	1.649236	1.501318	2.838663
RSp0562		hypothetical protein	87.2126	68.4844	31.4103	106.01	OK	119.6	97.0635	45.448	148.518	OK	103.369	62.3898	33.7996	90.5345	OK	90.6586	66.5679	35.9792	96.9236	OK	0.503153	-0.13447	-0.04095	1.417308	-1.09769	-1.02879
RSp0563		putative thiol:disulfide interchange protei	152.115	24.7371	4.38573	44.896	OK	218.959	35.952	6.46318	65.3243	OK	187.843	28.0532	10.5886	45.0869	OK	146.867	23.0721	5.92051	40.0773	OK	0.539396	0.181489	-0.10053	1.453364	1.134054	-1.07217
RSp0564		putative lipoprotein	416.795	30.4329	10.3683	50.6735	OK	548.318	40.2094	12.6865	67.6856	OK	343.452	23.9412	11.7109	36.1782	OK	507.688	36.2238	18.7652	53.6556	OK	0.401901	-0.34614	0.251306	1.321248	-1.27115	1.190284
RSp0565		putative signal peptide protein	379.273	105.514	36.8708	136.832	OK	365.239	103.25	35.7237	131.588	OK	280.097	68.3358	30.8767	83.4155	OK	393.458	104.381	43.1627	125.77	OK	-0.03129	-0.62672	-0.01558	-1.02193	-1.54405	-1.01085
RSp0566	***tISRso10a***	ISRSO10-transposase ORFA protein	20.282	6.2869	0	15.7076	OK	20.2399	6.38507	0	12.7406	OK	17.7839	4.77914	0	9.46948	OK	19.9449	5.87887	0.172172	11.5355	OK	0.022354	-0.3956	-0.09681	1.015615	-1.31549	-1.06941
RSp0567	***tISRsob***	ISRSO10-transposase ORFB protein	120.678	11.3125	0.30342	22.3773	OK	80.0397	7.54474	1.82052	13.2746	OK	116.707	10.3497	4.04088	16.6873	OK	124.202	11.3469	4.5647	18.1091	OK	-0.58437	-0.12833	0.00438	-1.49939	-1.09303	1.003041
RSp0568		hypothetical protein	501.98	115.789	39.4438	191.914	OK	152.719	35.7065	11.924	59.854	OK	220.076	45.336	22.0422	68.8046	OK	212.141	46.8904	22.1034	71.836	OK	-1.69724	-1.35277	-1.30413	-3.2428	-2.55402	-2.46935
RSp0569		putative Mannose-binding lectir	30703.9	4810.94	1566.08	8017.53	OK	560.278	88.6074	36.3028	138.58	OK	879.192	126.83	64.086	180.283	OK	798.702	120.985	58.8748	180.172	OK	-5.76275	-5.24535	-5.31342	-54.295	-37.9322	-39.7648
RSp0570		hypothetical protein	8.1128	1.03051	0.385058	1.6365	OK	5.51998	0.70645	0.192529	1.15517	OK	13.3379	1.57975	0.664755	2.46909	OK	7.25269	0.893988	0.284895	1.42448	OK	-0.5447	0.616338	-0.20503	-1.45872	1.532979	-1.15271
RSp0571		hypothetical protein	1.0141	0.703893	0	1.29319	OK	1.83999	1.31715	0	2.32775	OK	NA	NA	0	0	OK	0.906586	0.589069	0	1.02059	OK	0.903992	NA	-0.25692	1.871236	NA	-1.19492
RSp0576		hypothetical protein	12.1692	4.18855	1.11036	5.92193	OK	5.51998	1.93668	0.370121	3.14603	OK	3.33448	0.983392	0.182562	1.82562	OK	8.15927	2.66335	0.730248	4.01637	OK	-1.11287	-2.09061	-0.65321	-2.16275	-4.25929	-1.57266
RSp0577		hypothetical protein	12.1692	26.9108	2.25968	12.0516	OK	8.27997	19.2538	1.50646	7.53228	OK	NA	NA	0	0	OK	1.81317	3.73767	0	3.34377	OK	-0.48304	NA	-2.84797	-1.39769	NA	-7.19989
RSp0578		hypothetical protein	34.4794	32.2206	5.5118	21.7571	OK	34.9599	33.8647	5.80189	22.3373	OK	28.8989	20.2335	4.86503	18.0292	OK	38.0766	33.237	6.86828	23.4666	OK	0.071799	-0.67124	0.044807	1.051026	-1.59244	1.031545
RSp0579		putative bacteriophage-related protein	34.4794	5.92092	1.79891	9.95397	OK	22.9999	3.98998	1.3192	6.596	OK	22.2299	3.49231	1.06478	5.91542	OK	24.4778	4.05596	1.18308	6.86189	OK	-0.56944	-0.76164	-0.54578	-1.48395	-1.69542	-1.45981
RSp0580		product of A truncated bacteriophage gene protein	48.6768	23.2595	8.12321	38.7047	OK	19.3199	9.46031	1.95866	16.6486	OK	54.4632	21.4191	10.2252	32.2486	OK	62.5544	28.1384	13.9445	42.7332	OK	-1.29786	-0.11892	0.27472	-2.45864	-1.08592	1.209759
RSp0583	***cbhA***	exoglucanase A	19286.2	797.715	294.094	1300.38	OK	2249.39	93.2669	41.9225	144.574	OK	1244.87	49.8542	28.4211	71.2929	OK	0	0	0	0	OK	-3.09644	-4.00009	NA	-8.55303	-16.001	NA
RSp0585		truncated TIS1421-transposase protein A	80.1139	443.363	17.813	114.643	OK	11.96	70.7336	2.28372	19.64	OK	22.2299	67.9195	5.40694	22.9795	OK	0	0	0	0	OK	-2.64802	-2.70659	NA	-6.26807	-6.52777	NA
RSp0586		hypothetical protein	90.2549	231.056	71.6812	389.127	OK	11.96	32.2761	5.39736	56.6723	OK	12.2264	19.9378	4.89214	35.8757	OK	0	0	0	0	OK	-2.8397	-3.53466	NA	-7.15873	-11.5888	NA
RSp0587		putative signal peptide protein	196.735	40.9888	16.2712	57.4276	OK	67.1598	14.1652	5.4693	19.416	OK	73.3587	13.7723	6.47456	19.6934	OK	0	0	0	0	OK	-1.53288	-1.57346	NA	-2.89363	-2.97618	NA
RSp0588		transposase	1.0141	8.41757	0	4.39098	OK	NA	NA	NA	0	OK	1.11149	4.68506	0	4.3317	OK	0	0	0	0	OK	NA	-0.84534	NA	NA	-1.79668	NA
RSp0589		short chain dehydrogenase	492.853	47.4438	22.087	72.6933	OK	428.718	41.5056	19.452	63.2385	OK	479.054	43.5781	24.3117	62.0026	OK	0	0	0	0	OK	-0.19291	-0.12262	NA	-1.14307	-1.08871	NA
RSp0590		transcription regulator protein	1391.35	104.433	45.5227	162.77	OK	1418.63	106.954	46.596	167.316	OK	1532.75	109.734	60.1682	159.14	OK	0	0	0	0	OK	0.034413	0.071433	NA	1.02414	1.05076	NA
RSp0591		hypothetical protein	76.0575	45.9759	11.2214	40.0067	OK	83.7197	52.069	12.1972	42.934	OK	57.7977	27.8652	9.1447	26.7121	OK	0	0	0	0	OK	0.179547	-0.72241	NA	1.132528	-1.64994	NA
RSp0592		hypothetical protein	148.059	38.2398	9.08822	66.2813	OK	35.8799	9.40683	2.66379	14.4158	OK	74.4702	16.9941	6.95601	25.9691	OK	0	0	0	0	OK	-2.02329	-1.17004	NA	-4.06511	-2.25018	NA
RSp0593		hypothetical protein	240.342	58.5713	18.7649	98.2111	OK	40.4799	10.0062	2.96629	17.0562	OK	52.2403	11.3118	4.11413	18.4053	OK	0	0	0	0	OK	-2.5493	-2.37237	NA	-5.8535	-5.17789	NA
RSp0594		hypothetical protein	2.0282	6.10319	0.405038	4.86045	OK	NA	NA	NA	0	OK	NA	NA	0	0	OK	0	0	0	0	OK	NA	NA	NA	NA	NA	NA
RSp0595		hypothetical protein	130.819	33.7872	12.3788	42.4639	OK	65.3198	17.1253	6.11104	21.467	OK	84.4736	19.2769	8.65637	25.3508	OK	0	0	0	0	OK	-0.98035	-0.8096	NA	-1.97294	-1.75273	NA
RSp0596		hypothetical protein	203.834	26.8445	12.1679	41.3512	OK	132.48	17.5838	7.9141	27.1058	OK	170.059	20.8411	11.3205	29.9604	OK	0	0	0	0	OK	-0.61038	-0.3652	NA	-1.52666	-1.28806	NA
RSp0597		hypothetical protein	304.23	58.3009	23.5361	85.868	OK	227.239	44.0427	17.7167	63.1078	OK	303.438	52.7579	26.4077	75.7786	OK	0	0	0	0	OK	-0.40462	-0.14413	NA	-1.32374	-1.10506	NA
RSp0598		putative response regulator transcription regulator protei	124.734	10.2987	5.0591	15.5191	OK	3414.11	283.264	124.29	441.577	OK	1291.56	101.377	55.3035	147.431	OK	0	0	0	0	OK	4.781613	3.299196	NA	27.50483	9.84367	NA
RSp0599		putative transcription regulator protein	358.991	47.8657	21.2673	73.2873	OK	541.878	72.8231	31.252	113.026	OK	330.114	40.93	22.1622	59.0992	OK	0	0	0	0	OK	0.605404	-0.22583	NA	1.521405	-1.16945	NA
RSp0600		hypothetical protein	1833.49	436.949	147.735	619.114	OK	2110.47	510.015	171.14	709.603	OK	2424.17	514.395	233.39	741.937	OK	0	0	0	0	OK	0.223075	0.235412	NA	1.167219	1.177243	NA
RSp0601	***phnB***	hypothetical protein	2437.9	580.988	199.017	816.193	OK	1192.32	288.134	96.6015	403.997	OK	1265.99	268.636	121.475	385.013	OK	0	0	0	0	OK	-1.01177	-1.11286	NA	-2.01638	-2.16273	NA
RSp0602		signal peptide protein	15017.8	4232.29	1208.26	6806.69	OK	2486.75	712.253	224.908	921.76	OK	2683.15	662.242	286.218	909.805	OK	0	0	0	0	OK	-2.57098	-2.67601	NA	-5.94212	-6.39085	NA
RSp0603		putative serine protease protein	11541.5	406.164	160.259	651.316	OK	367.079	12.945	6.56295	19.3332	OK	1098.16	37.5215	21.6237	53.2938	OK	0	0	0	0	OK	-4.9716	-3.43627	NA	-31.3761	-10.8248	NA
RSp0604	***paaA***	phenylacetate-CoA oxygenase subunit PaaA	15895	1180.68	450.056	1910.25	OK	10974.6	818.779	327.262	1309.92	OK	8731.9	618.864	332.908	902.593	OK	0	0	0	0	OK	-0.52807	-0.93192	NA	-1.442	-1.90782	NA
RSp0605	***paaB***	phenylacetate-CoA oxygenase subunit PaaB	3084.89	1539.3	379.474	1542.49	OK	1763.63	902.463	211.987	966.909	OK	1841.75	752.104	265.597	845.323	OK	0	0	0	0	OK	-0.77033	-1.03327	NA	-1.70567	-2.04666	NA
RSp0606	***paaC***	phenylacetic acid degradation protein	10552.7	1053.64	295.351	1809.77	OK	6260.58	628.792	196.634	1060.9	OK	3554.56	334.854	166.898	501.246	OK	0	0	0	0	OK	-0.74473	-1.65378	NA	-1.67566	-3.14657	NA
RSp0607	***paaD***	phenylacetic acid degradation protein	5538	921.531	16.8065	2037.42	OK	3289.91	552.866	15.6286	1187.6	OK	1504.96	229.616	40.8894	418.964	OK	0	0	0	0	OK	-0.7371	-2.00481	NA	-1.66683	-4.01336	NA
RSp0608	***paaE***	ferredoxin reductase protein	6247.87	432.652	185.831	679.041	OK	3491.39	242.762	108.338	377.147	OK	1648.35	109.153	60.5645	157.782	OK	0	0	0	0	OK	-0.83366	-1.98686	NA	-1.78221	-3.96372	NA
RSp0609		hypothetical protein	515.163	151.07	50.7094	191.175	OK	285.199	85.0475	28.9044	104.8	OK	120.041	30.7013	13.5067	39.1862	OK	0	0	0	0	OK	-0.82888	-2.29885	NA	-1.7763	-4.92064	NA
RSp0610		hypothetical protein	490.824	183.311	55.3114	204.42	OK	336.719	128.351	38.8727	147.948	OK	211.184	66.9374	27.4731	75.1695	OK	0	0	0	0	OK	-0.5142	-1.45341	NA	-1.4282	-2.73854	NA
RSp0611		hypothetical protein	708.856	39.8349	18.5128	60.9052	OK	670.678	37.8147	17.4789	58.0495	OK	690.238	37.308	21.5172	52.8944	OK	0	0	0	0	OK	-0.07509	-0.09455	NA	-1.05342	-1.06773	NA
RSp0629		putative VGR-related protein	1819.3	43.2021	18.666	67.7398	OK	1392.87	33.1224	14.3188	51.8748	OK	1313.79	30.4468	17.5961	43.327	OK	966.421	22.5694	13.1529	31.9647	OK	-0.38329	-0.50481	-0.93673	-1.30432	-1.41894	-1.91419
RSp0630		phospholipase protein	2879.03	103.179	46.5831	159.835	OK	2246.63	80.6851	35.9975	125.317	OK	1899.54	66.0758	37.5871	94.5028	OK	1843.09	64.8573	36.7439	92.8813	OK	-0.35478	-0.64296	-0.66981	-1.27879	-1.56152	-1.59086
RSp0631		lipoprotein	754.49	42.2887	19.5021	64.8431	OK	635.718	35.7497	16.8494	54.5763	OK	849.182	45.7822	26.1686	65.0339	OK	637.33	34.9836	20.0626	49.6235	OK	-0.24234	0.114515	-0.27359	-1.18291	1.082611	-1.20881
RSp0632		hypothetical protein	223.102	108.916	29.8767	105.786	OK	142.599	71.3651	19.0326	65.7288	OK	222.299	89.0707	32.9666	90.1668	OK	185.85	85.3762	27.7268	74.666	OK	-0.60993	-0.29019	-0.35131	-1.52618	-1.2228	-1.27572
RSp0633		hypothetical protein	429.978	56.6272	25.0283	87.6487	OK	344.079	45.669	20.2799	70.9301	OK	379.02	46.4498	25.1784	67.5328	OK	349.942	44.6959	23.2266	63.5316	OK	-0.31028	-0.28582	-0.34135	-1.23995	-1.21911	-1.26694
RSp0634	***rfaC2***	lipopolysaccharide heptosyltransferase protei	8086.43	622.187	256.895	984.065	OK	5027.78	388.611	167.868	608.747	OK	5362.96	393.255	213.68	569.813	OK	5130.37	385.539	206.239	564.089	OK	-0.67902	-0.66188	-0.69047	-1.60105	-1.58215	-1.61381
RSp0635		putative acyltransferase transmembrane protei	57.8037	3.85362	1.94116	5.70931	OK	34.9599	2.33988	1.08477	3.53977	OK	36.6793	2.34106	1.23909	3.43566	OK	34.4503	2.24615	1.12645	3.32302	OK	-0.71978	-0.71905	-0.77876	-1.64693	-1.6461	-1.71566
RSp0636		hypothetical protein	318.427	18.4249	9.29395	27.4778	OK	207.919	12.0718	6.11178	17.9313	OK	113.372	6.3049	3.68732	8.86951	OK	123.296	6.98508	4.08595	9.86608	OK	-0.61002	-1.54711	-1.39931	-1.52628	-2.92231	-2.63775
RSp0637		hypothetical protein	442.148	105.371	38.7599	150.865	OK	195.039	47.133	17.591	62.0158	OK	216.741	45.9913	21.6184	59.4138	OK	161.372	36.821	16.177	44.7074	OK	-1.16067	-1.19604	-1.51688	-2.23561	-2.29111	-2.86171
RSp0638		ABC transporter ATP-binding protein	2239.13	95.7515	42.9726	148.493	OK	215.279	9.2292	4.71038	13.7837	OK	232.302	9.61216	5.86563	13.331	OK	207.608	8.70942	5.25621	12.1121	OK	-3.37502	-3.31636	-3.45865	-10.3748	-9.9615	-10.994
RSp0639		hypothetical protein	5030.95	223.138	97.2798	348.819	OK	357.879	15.9147	8.0601	23.7414	OK	310.107	13.2993	8.10874	18.4218	OK	232.993	10.1357	6.10124	14.1313	OK	-3.8095	-4.06851	-4.46042	-14.0209	-16.7782	-22.0151
RSp0640		hypothetical protein	455.331	520.59	83.0679	304.271	OK	14.7199	17.5047	2.48893	10.5779	OK	8.89196	7.38826	1.22766	6.44523	OK	13.5988	14.5147	2.14841	9.82131	OK	-4.89433	-6.13877	-5.16456	-29.74	-70.4618	-35.8664
RSp0641		peptide synthetase protein	39347.1	123.561	4.38375	246.107	OK	1941.19	6.09703	0.429963	11.8084	OK	1802.84	5.57702	1.47533	9.67266	OK	1815.89	5.62313	1.63516	9.61119	OK	-4.34097	-4.46959	-4.45771	-20.2658	-22.1554	-21.9737
RSp0642		peptide synthetase protein	36906.1	134.282	7.91732	279.111	OK	2853.83	10.3858	2.17991	18.7021	OK	3218.89	11.5346	4.98451	18.0962	OK	2987.2	10.717	4.53479	16.9122	OK	-3.69258	-3.54123	-3.64729	-12.9294	-11.6417	-12.5298
RSp0643		hypothetical protein	233.243	98.7865	28.8979	103.826	OK	137.079	59.3763	17.1323	58.6214	OK	100.035	35.4098	13.643	39.7072	OK	121.483	48.5568	16.6974	48.4632	OK	-0.73443	-1.48017	-1.02464	-1.66374	-2.78981	-2.03445
RSp0644		putative signal peptide protein	72.0011	216.663	17.4166	63.1859	OK	29.4399	93.6488	6.88564	31.5929	OK	23.3414	43.4848	5.19441	23.5746	OK	22.6646	63.3764	5.19441	21.9763	OK	-1.21012	-2.31687	-1.77344	-2.31357	-4.9825	-3.41867
RSp0645		transcription regulator protein	737.251	118.992	47.6407	189.07	OK	509.678	83.0516	34.0946	128.458	OK	541.298	80.2737	40.9954	113.587	OK	553.924	86.378	42.0147	125.591	OK	-0.51878	-0.56787	-0.46213	-1.43275	-1.48233	-1.37757
RSp0646		1-aminocyclopropane-1-carboxylate deaminase	741.307	55.8369	25.4564	86.1846	OK	263.119	19.9071	9.81529	29.8258	OK	315.665	22.6759	13.2436	32.0469	OK	244.778	18.0112	10.37	25.3002	OK	-1.48794	-1.30006	-1.63232	-2.80487	-2.46239	-3.10012
RSp0647		putative enoyl-coenzyme A hydratase protei	232.229	14.793	5.60009	23.8827	OK	117.76	7.52955	2.90985	12.1335	OK	88.9196	5.42982	2.65392	8.23257	OK	79.7796	4.97199	2.32895	7.58263	OK	-0.97428	-1.44594	-1.57302	-1.96466	-2.7244	-2.97527
RSp0648		enoyl-CoA hydratase	64.9024	6.54107	0.241202	12.8641	OK	38.6399	3.91752	0.321603	7.47727	OK	25.5644	2.42989	0.396577	4.44166	OK	25.3844	2.491	0.475892	4.52097	OK	-0.73959	-1.42864	-1.3928	-1.6697	-2.69192	-2.62588
RSp0649	***mmsB***	3-hydroxyisobutyrate dehydrogenase oxidoreductase protei	104.452	9.15208	0.08762	19.1011	OK	66.2398	5.83404	0.264224	11.3616	OK	66.6897	5.54276	1.91159	9.22551	OK	61.6478	5.26837	1.79464	8.80229	OK	-0.6496	-0.7235	-0.79674	-1.56874	-1.65118	-1.73717
RSp0650	***mmsA***	methylmalonate-semialdehyde dehydrogenase oxidoreductase	258.596	12.0157	6.1988	17.806	OK	175.719	8.18726	4.16027	12.148	OK	193.4	8.68093	5.25326	12.0661	OK	149.587	6.81539	4.06307	9.56257	OK	-0.55347	-0.469	-0.81805	-1.46761	-1.38415	-1.76302
RSp0651		acetyl-coenzyme A synthetase	183.552	7.66595	3.93058	11.376	OK	122.36	5.12289	2.64558	7.5966	OK	163.39	6.60582	4.02665	9.17181	OK	119.669	4.90371	2.90814	6.8975	OK	-0.58151	-0.21473	-0.64459	-1.49641	-1.16048	-1.5633
RSp0652		acyl-CoA dehydrogenase oxidoreductase protein	79.0998	5.24082	2.61239	7.83716	OK	60.7198	4.03881	2.04448	6.07664	OK	87.8081	5.57077	3.19339	7.95546	OK	66.1808	4.28856	2.35302	6.2187	OK	-0.37586	0.088084	-0.2893	-1.29761	1.062958	-1.22205
RSp0653		transcription regulator protein	565.868	36.3695	17.3174	55.438	OK	637.558	41.133	19.2539	62.8518	OK	415.699	25.6059	14.955	36.2414	OK	466.892	29.3566	16.8653	41.8632	OK	0.177567	-0.50625	-0.30904	1.130975	-1.42036	-1.23889
RSp0654	***copS***	two component sensor histidine kinase transcription regulato	305.244	15.866	5.42421	26.2936	OK	487.598	25.4223	8.59599	42.2445	OK	220.076	11.0231	5.03355	17.0052	OK	372.607	18.9771	9.52294	28.4328	OK	0.680156	-0.52541	0.258321	1.602313	-1.43934	1.196086
RSp0655	***copR***	two component response regulator transcription regulator protei	245.412	30.104	5.27469	55.2002	OK	314.639	38.877	2.96546	74.7543	OK	252.309	28.9133	12.9492	44.9211	OK	255.657	30.4497	10.9575	50.0235	OK	0.368962	-0.05822	0.016473	1.291423	-1.04118	1.011484
RSp0656	***copA***	copper resistance transmembrane protein	2791.82	108.572	37.4078	179.636	OK	9750.12	380.047	110.842	649.323	OK	6138.79	231.403	115.007	347.851	OK	13562.5	517.689	228.826	806.725	OK	1.807526	1.091755	2.253434	3.500414	2.131332	4.768163
RSp0657	***copB***	copper resistance protein B	1262.55	92.502	3.15043	193.348	OK	3848.35	283.175	3.75276	643.12	OK	2118.51	148.164	11.8195	284.716	OK	5877.4	420.773	29.7822	817.578	OK	1.614137	0.679638	2.185486	3.061285	1.601738	4.548799
RSp0658	***copC***	copper resistance C signal peptide protein	1195.62	341.386	108.001	452.138	OK	1627.47	472.366	145.443	616.053	OK	1147.06	286.451	122.631	390.054	OK	2715.22	738.796	292.048	927.528	OK	0.468501	-0.25312	1.113772	1.383671	-1.19178	2.164107
RSp0659	***copD***	copper resistance D transmembrane protein	1706.73	143.118	62.0465	223.188	OK	2600.83	219.176	96.0475	341.948	OK	1318.23	105.028	57.1101	152.544	OK	3188.46	260.902	139.018	381.736	OK	0.614885	-0.44643	0.866303	1.531436	-1.36267	1.822985
RSp0660		porin protein	496.909	48.4866	22.3288	74.4294	OK	1068.12	104.826	44.736	164.293	OK	1339.35	123.427	66.3913	180.083	OK	801.422	76.1737	40.8086	111.142	OK	1.112339	1.348	0.651707	2.161958	2.54559	1.571026
RSp0661		hypothetical protein	1759.46	237.547	95.0393	379.956	OK	402.039	54.7151	23.8858	85.4648	OK	551.301	69.1644	36.6873	101.611	OK	423.376	55.4118	28.4351	78.5445	OK	-2.1182	-1.78011	-2.09995	-4.34153	-3.43453	-4.28694
RSp0662		transcription regulator protein	789.984	69.5018	31.0479	107.839	OK	751.637	66.4729	29.6792	103.013	OK	969.223	80.8721	44.131	117.256	OK	891.174	76.4675	41.3595	110.292	OK	-0.06428	0.218592	0.137796	-1.04557	1.163597	1.100223
RSp0663		transport transmembrane protein	281.92	12.504	6.38424	18.5941	OK	156.399	6.95499	3.55123	10.3345	OK	235.637	10.1055	6.1406	14.0525	OK	174.971	7.61167	4.56609	10.628	OK	-0.84627	-0.30725	-0.7161	-1.79785	-1.23735	-1.64274
RSp0664		transcription regulator protein	1048.58	214.315	77.6322	321.06	OK	1186.8	245.505	87.0831	364.129	OK	818.06	150.906	72.0558	222.427	OK	869.416	170.786	76.1846	238.01	OK	0.19602	-0.50608	-0.32754	1.145533	-1.42019	-1.25487
RSp0665		magnesium/cobalt transporter CorA	1253.43	99.6561	43.3978	155.702	OK	1624.71	129.784	56.384	203.208	OK	879.192	66.5431	36.9294	96.1471	OK	1031.69	80.088	43.5309	116.605	OK	0.381083	-0.58267	-0.31537	1.302319	-1.49762	-1.24433
RSp0666	***tag***	DNA-3-methyladenine glycosylase I protei	595.277	93.2728	38.4383	147.572	OK	700.117	110.723	44.3951	175.557	OK	593.538	85.6225	43.7958	122.85	OK	509.501	77.1776	38.1411	112.649	OK	0.247427	-0.12347	-0.27327	1.187088	-1.08935	-1.20855

RSp0667		putative CYNX-related transport transmembrane protein	753.476	43.364	20.009	66.7136	OK	705.637	40.7491	18.8025	62.6917	OK	882.527	48.8229	27.823	69.3342	OK	483.21	27.2297	15.7713	38.486	OK	-0.08973	0.17106	-0.67132	-1.06417	1.125886	-1.59253
RSp0668		hypothetical protein	113.579	10.1169	4.94832	15.2816	OK	103.96	9.30898	4.51171	14.0445	OK	73.3587	6.19428	3.44578	8.97339	OK	84.3125	7.32349	3.94829	10.6963	OK	-0.12007	-0.70776	-0.46616	-1.08679	-1.63326	-1.38143
RSp0669		outer membrane CHANEL lipoprotein	1764.53	80.7656	15.4333	145.918	OK	1167.48	53.5819	10.5077	96.7041	OK	659.116	29.1525	9.07016	49.238	OK	755.186	33.8969	12.0665	55.6357	OK	-0.592	-1.47012	-1.25259	-1.50733	-2.77045	-2.38268
RSp0670		transporter lipoprotein transmembrane	2567.7	40.7698	8.7805	72.5622	OK	1752.59	27.8536	6.34123	49.4584	OK	1320.46	20.5342	9.47048	31.6616	OK	1230.24	19.2301	8.40957	30.0431	OK	-0.54964	-0.98947	-1.08413	-1.46372	-1.98546	-2.1201
RSp0671		enoyl-CoA hydratase	882.267	91.9391	40.1268	143.416	OK	559.358	58.6497	26.5035	90.4916	OK	443.486	43.5206	24.2723	62.7171	OK	548.484	55.6278	29.9739	80.8806	OK	-0.64855	-1.07898	-0.72487	-1.5676	-2.11254	-1.65275
RSp0672	***ripG2, gala2***	Type III effector protein GALA2	700.743	15.3186	6.94155	23.7049	OK	1075.48	23.5407	10.2155	36.9042	OK	1260.44	26.9131	15.5763	38.2048	OK	1023.54	22.0101	12.7758	31.2548	OK	0.619873	0.813024	0.522881	1.53674	1.75689	1.436822
RSp0673		lipoprotein	178.482	22.0197	10.2627	33.5186	OK	1804.11	224.208	91.423	355.524	OK	749.147	86.3153	45.791	125.949	OK	1326.34	158.865	79.8789	237.315	OK	3.347971	1.970821	2.850935	10.18216	3.919913	7.214676
RSp0674		lipoprotein	86.1985	25.6235	3.23709	47.7044	OK	794.877	240.327	39.3562	439.562	OK	424.591	109.919	25.379	193.956	OK	637.33	180.348	47.0604	301.019	OK	3.229459	2.100901	2.815244	9.379164	4.289773	7.038383
RSp0675		lipoprotein	342.766	43.2828	16.4158	70.0826	OK	1682.67	214.073	59.54	369.199	OK	1469.4	173.067	85.2736	260.768	OK	1496.77	183.429	87.7456	279.413	OK	2.306237	1.999465	2.083356	4.945914	3.998517	4.237919
RSp0676	***metE***	5-methyltetrahydropteroyltriglutamate-- homocysteine methyltransferase	33190.5	985.474	332.089	1639.26	OK	26375.4	784.497	273.214	1295.51	OK	179656	5191.89	666.469	9710.79	OK	23112.5	674.366	333.03	1015.72	OK	-0.32905	2.39737	-0.54729	-1.25619	5.268419	-1.46133
RSp0677	***metR***	putative transcriptional activator METR transcription regulator	1084.07	92.7156	40.6113	144.216	OK	834.437	71.7271	32.0949	110.995	OK	430.148	34.9283	19.9968	49.7838	OK	931.97	77.7626	42.1461	112.968	OK	-0.37029	-1.40842	-0.25374	-1.29262	-2.65445	-1.19229
RSp0678	***pdxH2***	pyridoxamine 5'-phosphate oxidase	14995.5	2011.9	723.959	3295.28	OK	10066.6	1361.38	508.286	2214.31	OK	6070.98	757.159	383.466	1125.95	OK	19543.3	2542.13	1175.33	3904.62	OK	-0.56349	-1.40989	0.337479	-1.47784	-2.65717	1.263547
RSp0679		putative diaminopimelate decarboxylase protein	40197.9	2301.13	806.188	3786.4	OK	28947.7	1662.72	592.219	2729.96	OK	22023.2	1212.03	608.116	1815.36	OK	56124	3145.93	1276.65	5011.64	OK	-0.4688	-0.92492	0.451144	-1.38396	-1.89858	1.367124
RSp0680	***trpC2***	indole-3-glycerol phosphate synthase protein	267.722	26.7309	12.7685	40.1409	OK	119.6	12.0122	5.74581	18.2749	OK	116.707	10.9943	6.1406	15.7451	OK	132.362	12.8695	7.00658	18.658	OK	-1.15401	-1.28175	-1.05455	-2.22531	-2.43134	-2.07707
RSp0681	***trpD2***	anthranilate phosphoribosyltransferase	272.793	20.1237	0.622232	39.6362	OK	138.919	10.2928	1.12002	19.4759	OK	122.264	8.60774	2.14841	15.0389	OK	163.185	11.7623	3.06916	20.4406	OK	-0.96726	-1.22519	-0.77473	-1.95512	-2.33786	-1.71086
RSp0682		trimethylamine dehydrogenase oxidoreductase protein	865.027	27.5921	8.5166	46.7297	OK	423.198	13.5244	4.69775	22.4341	OK	429.037	13.3067	7.10248	19.5396	OK	519.474	16.2784	8.42945	24.1289	OK	-1.02869	-1.0521	-0.7613	-2.04017	-2.07355	-1.69501
RSp0683		hypothetical protein	272.793	33.8496	15.3201	52.2017	OK	114.08	14.2599	6.43064	21.3724	OK	106.703	12.3614	6.62371	18.0053	OK	148.68	17.9098	9.42245	26.1217	OK	-1.24717	-1.4533	-0.91839	-2.37376	-2.73833	-1.89
RSp0684		hypothetical protein	414.767	48.1281	21.9161	74.1016	OK	173.879	20.3153	9.43111	31.1676	OK	214.518	23.3207	12.9367	33.405	OK	245.685	27.7038	14.8861	40.2278	OK	-1.24431	-1.04527	-0.7968	-2.36906	-2.06375	-1.73724
RSp0685		hypothetical protein	339.724	29.5255	14.2638	44.717	OK	212.519	18.5652	8.98618	27.6717	OK	204.515	16.8654	9.70915	23.9914	OK	223.02	18.9065	10.6238	27.0871	OK	-0.66936	-0.80789	-0.64308	-1.59037	-1.75066	-1.56166
RSp0686		transcription regulator protein	6383.76	620.086	255.028	981.471	OK	2109.55	206.091	88.2098	323.566	OK	2144.07	196.73	106.271	287.009	OK	1708.01	161.618	84.8628	237.647	OK	-1.58919	-1.65625	-1.93988	-3.0088	-3.15196	-3.83674
RSp0687		putative acyl-CoA dehydrogenase oxidoreductase protein	2553.5	165.108	73.911	256.38	OK	1311.92	85.1521	37.317	132.973	OK	1370.47	84.9113	47.3469	122.4	OK	1335.4	84.4673	46.4691	122.564	OK	-0.9553	-0.95938	-0.96695	-1.93898	-1.94448	-1.9547
RSp0688		hypothetical protein	554.713	106.302	41.3822	157.899	OK	110.4	21.3973	8.66439	30.6487	OK	68.9127	11.9816	5.74081	17.2224	OK	87.9388	16.2214	7.39926	21.6875	OK	-2.31267	-3.14928	-2.7122	-4.96801	-8.8721	-6.5532
RSp0689		hypothetical protein	18357.2	2478.43	870.572	4086.39	OK	1707.51	232.383	92.6205	370.986	OK	2610.9	327.555	169.418	482.8	OK	2937.34	384.442	189.601	567.509	OK	-3.41485	-2.91962	-2.68859	-10.6653	-7.56645	-6.44682
RSp0690	***hmgB***	fumarylacetoacetase	5062.39	293.713	128.498	458.806	OK	1488.55	86.6603	38.2254	134.928	OK	1503.85	83.8528	46.7497	120.87	OK	2488.58	141.364	78.6154	203.93	OK	-1.76096	-1.80848	-1.05499	-3.38925	-3.50272	-2.07771
RSp0691	***hmgA***	homogentisate 1,2-dioxygenase	3047.37	165.614	75.1106	256.17	OK	1379.07	75.1889	33.1806	117.232	OK	2941.02	153.859	86.3124	220.828	OK	5264.54	280.259	153.995	406.093	OK	-1.13923	-0.10622	0.758936	-2.20264	-1.0764	1.692242
RSp0692	***hmgR***	transcription regulator protein	502.994	40.2899	18.9336	61.6009	OK	459.998	37.0208	17.6003	56.3342	OK	601.319	45.8394	26.1098	64.255	OK	523.1	40.9069	22.9529	58.6648	OK	-0.12208	0.18617	0.021926	-1.0883	1.137739	1.015314
RSp0693	***hdfA***	Dioxygenase	797.083	134.723	52.6594	212.417	OK	1637.59	279.571	104.844	441.675	OK	3317.81	513.607	252.605	752.785	OK	1566.58	255.582	119.224	381.658	OK	1.053219	1.930669	0.92379	2.075154	3.812319	1.897093
RSp0694	***hdfB***	Tryptophan-2,3-dioxygenase, oxidoreductase protein	2083.98	141.571	62.8925	220.356	OK	3714.95	253.383	113.079	392.73	OK	9525.51	619.162	332.139	905.812	OK	3947.27	262.205	143.032	380.045	OK	0.839794	2.128791	0.889169	1.789795	4.373509	1.85211
RSp0695	***hdfC***	FAD dependent oxidoreductase protein	1445.09	66.4276	29.4605	103.421	OK	2130.71	98.21	44.1701	152.247	OK	3592.35	159.555	89.9523	229.088	OK	1863.03	83.9792	47.3947	120.56	OK	0.564087	1.264199	0.338249	1.478452	2.401938	1.264221
RSp0696	***hdfD***	Aminotransferase, class V	1311.23	76.9072	19.6781	134.118	OK	1541.91	90.7512	24.2781	157.271	OK	3336.71	188.031	62.4223	313.574	OK	1468.67	84.3327	29.5472	138.963	OK	0.238798	1.28978	0.132973	1.180009	2.444908	1.096551
RSp0697	***hdfE***	Short-chain dehydrogenase/reductase protein	1507.97	154.149	23.8179	284.997	OK	1721.31	177.024	25.7107	330.845	OK	5421.87	522.382	208.977	838.605	OK	2486.77	247.469	106.978	388.505	OK	0.199619	1.76078	0.682922	1.148395	3.388812	1.605388
RSp0698	***hdfF***	Aminotransferase protein	3325.23	222.375	99.1489	345.59	OK	3769.23	253.065	112.716	393.161	OK	12135.3	776.877	412.984	1138.83	OK	5516.58	360.79	195.169	525.59	OK	0.186513	1.804692	0.698165	1.13801	3.493545	1.62244
RSp0699		peptide chain release factor-like protein	568.91	79.3027	21.467	137.059	OK	704.717	99.0475	26.8337	171.323	OK	1159.29	149.88	70.7604	228.062	OK	563.896	76.1567	33.4966	118.511	OK	0.320751	0.918366	-0.0584	1.24898	1.889973	-1.04131
RSp0700		hypothetical protein	625.7	41.2019	5.92644	76.5169	OK	718.517	47.4983	5.88343	89.1769	OK	523.514	33.0153	6.68486	59.47	OK	436.068	28.0856	9.66099	46.5015	OK	0.205165	-0.31958	-0.55288	1.152818	-1.24796	-1.46701
RSp0701		hypothetical protein	57.8037	66.0883	10.8891	37.9561	OK	45.0798	53.608	8.08901	29.2449	OK	38.9023	32.3236	7.36598	25.7809	OK	32.6371	34.8352	6.13832	20.2565	OK	-0.30195	-1.03181	-0.92385	-1.23281	-2.04458	-1.89717
RSp0702		hypothetical protein	874.154	36.7949	16.7854	56.8266	OK	540.038	22.7878	11.0761	34.4462	OK	534.629	21.7813	12.9917	30.4892	OK	687.192	28.3788	16.5212	40.2141	OK	-0.69124	-0.75642	-0.37469	-1.61468	-1.68929	-1.29656
RSp0703		hypothetical protein	1112.47	89.7788	39.4456	139.938	OK	459.078	37.2258	17.7103	56.6863	OK	565.751	43.4408	24.5523	62.208	OK	879.388	69.2807	37.7219	100.592	OK	-1.27007	-1.04732	-0.37392	-2.41174	-2.06669	-1.29587
RSp0704		transcription regulator protein	935	77.7965	34.6086	120.614	OK	758.997	63.4635	28.4851	98.1152	OK	540.186	42.7169	24.2995	60.9523	OK	828.62	67.2834	36.7207	97.4694	OK	-0.29378	-0.8649	-0.20945	-1.22585	-1.82121	-1.15625
RSp0705		amino-acid transmembrane ABC transporter protein	448.232	32.3978	15.5957	49.1723	OK	621.918	45.1439	20.9777	69.2937	OK	280.097	19.3339	11.4031	27.2106	OK	375.327	26.5118	15.2645	37.7087	OK	0.478635	-0.74476	-0.28926	1.393425	-1.6757	-1.22201
RSp0706		amino-acid composite ATP-binding transmembrane ABC transporter protein	1063.79	41.1465	18.365	63.9427	OK	1285.24	49.8254	22.1015	77.5843	OK	816.949	30.6315	17.8737	43.3976	OK	912.932	34.6597	19.9949	49.3439	OK	0.276112	-0.42575	-0.24751	1.210927	-1.34327	-1.18716
RSp0707		amino-acid composite ATP-binding transmembrane ABC transporter protein	755.505	83.5992	36.3554	130.879	OK	841.797	93.7594	40.4237	147.153	OK	825.841	85.814	46.1116	124.843	OK	751.56	80.8716	42.0128	117.841	OK	0.165474	0.037724	-0.04786	1.121535	1.026493	-1.03373
RSp0708		signal peptide protein	352.907	141.371	42.1315	161.103	OK	495.878	202.971	57.7803	218.883	OK	436.817	147.256	58.5837	171.991	OK	938.316	355.172	121.917	382.377	OK	0.521787	0.05884	1.329032	1.435733	1.041628	2.51234
RSp0709		putative cytochrome P-450-like monooxygenase oxidoreductase protein	12744.2	792.98	314.849	1270.91	OK	3763.71	235.051	104.752	364.778	OK	2249.67	134.277	75.3144	193.195	OK	2590.12	157.707	87.3626	226.899	OK	-1.75431	-2.56207	-2.33004	-3.37365	-5.90555	-5.02819
RSp0710		hypothetical protein	1339.63	115.03	49.1481	180.492	OK	427.798	36.9208	17.5832	56.2096	OK	218.964	17.8485	10.31	25.3569	OK	197.636	16.5557	9.40435	23.7547	OK	-1.6395	-2.68814	-2.79661	-3.11559	-6.4448	-6.94806
RSp0711		conserved hypothetical protein	781.871	74.9298	33.0499	116.833	OK	94.7597	9.13279	4.40151	13.8223	OK	184.508	16.7124	9.52212	23.691	OK	147.774	13.7979	7.6177	19.6537	OK	-3.03641	-2.16462	-2.44109	-8.20448	-4.48349	-5.43052
RSp0712		hypothetical protein	2115.41	308.916	122.821	492.139	OK	229.079	33.7432	14.7385	52.5461	OK	674.677	91.1204	47.0956	133.385	OK	560.27	79.2027	39.5097	118.108	OK	-3.19455	-1.76137	-1.96359	-9.15491	-3.3902	-3.90032
RSp0713		putative gcn5-related n-acetyltransferase	79.0998	14.032	5.76542	20.4856	OK	105.8	18.9665	7.72812	27.8458	OK	60.0207	9.71759	4.71949	14.0375	OK	65.2742	11.1653	5.20354	15.4896	OK	0.434733	-0.53005	-0.3297	1.35166	-1.44398	-1.25675
RSp0714		Aminotransferase	2270.57	205.662	89.0401	321.931	OK	1977.99	180.123	77.4582	280.989	OK	1802.84	154.696	84.1266	225.162	OK	1742.46	153.877	81.7978	225.453	OK	-0.19129	-0.41084	-0.4185	-1.14179	-1.32946	-1.33654
RSp0715		putative transmembrane protein	1334.56	220.365	84.0013	354.905	OK	1125.16	187.614	71.5178	297.971	OK	1083.71	164.161	81.4862	231.798	OK	906.586	144.565	68.5957	214.419	OK	-0.23213	-0.42478	-0.60818	-1.17457	-1.34237	-1.52433
RSp0716		hypothetical protein	267.722	335.017	51.5849	191.601	OK	140.759	183.482	27.2342	93.8781	OK	235.637	211.318	50.8885	138.126	OK	144.147	168.373	30.9756	85.657	OK	-0.8686	-0.66482	-0.99257	-1.82588	-1.58537	-1.98973
RSp0718		lipoprotein	172.397	9.229	4.71802	13.7294	OK	347.759	18.6756	9.34168	27.9779	OK	945.882	48.7611	27.8794	69.4891	OK	174.064	9.12866	5.44557	12.7529	OK	1.016908	2.401484	-0.01577	2.023578	5.283465	-1.01099
RSp0719		Putative Phosphate-selective porin O and P	257.581	13.6868	6.9838	20.3421	OK	492.198	26.2356	12.749	39.6999	OK	2646.47	135.439	76.5708	194.109	OK	306.426	15.9517	9.47888	22.3794	OK	0.938741	3.306786	0.220925	1.916854	9.895593	1.165481
RSp0720		signal peptide protein	199.778	32.2439	14.0052	48.9034	OK	267.719	43.6246	18.4823	68.6485	OK	865.854	128.405	64.5508	181.309	OK	176.784	27.5674	13.7029	37.8245	OK	0.436116	1.993603	-0.22606	1.352957	3.982304	-1.16964
RSp0722		L-aspartate dehydrogenase	3054.47	304.975	131.435	477.222	OK	460.918	46.2932	21.3074	70.6256	OK	529.072	49.8407	27.7114	71.0893	OK	433.348	42.1345	22.9879	61.1698	OK	-2.71982	-2.61329	-2.85562	-6.5879	-6.119	-7.23813
RSp0728		hypothetical protein	6.0846	102.29	1.07335	10.1968	OK	7.35997	135.035	1.61002	10.1968	OK	14.4494	104.998	4.23544	18.0006	OK	5.43952	76.1385	1.05886	9.00031	OK	0.400668	0.037697	-0.42597	1.320119	1.026474	-1.34347
RSp0729		hypothetical protein	545.586	98.4099	38.9632	149.4	OK	1094.8	199.592	74.3279	308.107	OK	719.137	118.239	58.0231	177.374	OK	1330.87	231.387	105.641	337.611	OK	1.020179	0.264831	1.233432	2.02817	1.201495	2.351257
RSp0730		Putative sterol desaturase	968.466	62.6203	27.9738	97.2688	OK	1439.79	93.4523	40.7094	146.154	OK	489.058	30.3009	17.666	42.9579	OK	973.673	61.5871	34.2346	88.6041	OK	0.5776	-1.04727	-0.024	1.492364	-2.06662	-1.01678
RSp0731	***ripTPS***	trehalose-6-phosphate synthase	307.272	13.0877	6.69401	19.3895	OK	136.159	5.81405	3.00076	8.61758	OK	127.822	5.2684	3.15001	7.36268	OK	102.444	4.2807	2.50483	6.03436	OK	-1.1706	-1.31277	-1.61229	-2.25105	-2.48419	-3.05737
RSp0732	***ripAV***	Type III effector protein	1052.64	29.0822	12.7614	45.3623	OK	835.357	23.1169	10.5398	35.7008	OK	764.708	20.5826	12.1049	29.0518	OK	736.148	19.9916	11.7736	28.1853	OK	-0.33119	-0.49871	-0.54074	-1.25805	-1.41295	-1.45472
RSp0733		hypothetical protein	1521.15	124.635	54.0751	195.105	OK	560.278	46.1289	21.3991	70.7867	OK	590.204	45.9853	26.0024	65.8772	OK	443.321	35.4536	19.9039	49.9943	OK	-1.43397	-1.43846	-1.81371	-2.70189	-2.71032	-3.51544
RSp0734		hypothetical protein	1268.64	108.07	46.7223	169.14	OK	297.159	25.4415	12.347	38.374	OK	181.174	14.6552	8.5124	20.6928	OK	223.02	18.5355	10.4502	26.5753	OK	-2.08671	-2.88248	-2.5436	-4.24778	-7.37417	-5.83043
RSp0735		hypothetical protein	1249.37	74.5003	32.8746	115.839	OK	255.759	15.3048	7.67419	22.8152	OK	213.407	12.2211	7.26368	17.1361	OK	256.564	14.9758	8.79826	21.126	OK	-2.28326	-2.60787	-2.31461	-4.86777	-6.09604	-4.97471
RSp0738	***vgrG1***	putative VGR-related protein	5191.18	131.88	56.8314	206.933	OK	1059.84	26.9652	11.8677	42.0027	OK	294.546	7.29721	4.49927	10.0821	OK	437.881	10.9378	6.6429	15.2174	OK	-2.29006	-4.17574	-3.59183	-4.89075	-18.0727	-12.0573
RSp0739	***tssL***	Type VI Secretion System component protein	3769.41	385.32	61.3924	708.086	OK	680.797	70.015	12.4411	127.176	OK	247.863	23.8809	8.74362	38.9853	OK	347.222	34.5537	10.749	58.2373	OK	-2.46032	-4.01213	-3.47914	-5.50339	-16.1351	-11.1513
RSp0740	***tssK***	Type VI Secretion System component protein	6685.96	363.359	61.792	664.55	OK	1276.04	69.571	17.0652	122.509	OK	501.284	26.2247	12.6602	39.8641	OK	829.526	44.1599	21.3473	66.9698	OK	-2.38484	-3.7924	-3.04059	-5.22285	-13.8556	-8.22826
RSp0741	***tssJ***	Type VI secretion system, lipoprotein	2165.1	331.978	130.24	528.597	OK	320.159	49.5382	21.2457	77.4582	OK	87.8081	12.4133	6.33133	18.1207	OK	130.548	19.3596	9.60615	27.6177	OK	-2.74447	-4.74113	-4.09997	-6.70145	-26.7437	-17.148
RSp0742		putative lipoprotein	14399.2	1908.05	692.509	3122.55	OK	1786.63	238.612	95.4089	379.847	OK	280.097	34.5263	18.7261	49.5115	OK	402.524	51.7238	26.6676	73.5319	OK	-2.99936	-5.78826	-5.20513	-7.99645	-55.2637	-36.8892
RSp0743	***tssA***	Type VI Secretion protein	24288.7	4455.88	315.854	8592.95	OK	2205.23	408.974	46.0724	769.171	OK	370.128	61.8155	11.5174	112.202	OK	640.956	113.298	29.5985	196.787	OK	-3.44563	-6.1716	-5.29752	-10.8953	-72.0835	-39.3288
RSp0744	***tssB***	Type VI Secretion protein	65167.1	3157.87	505.466	5823.35	OK	5952.38	289.267	73.2355	505.747	OK	1727.26	80.7829	41.2038	120.337	OK	1953.69	92.8068	44.7481	140.847	OK	-3.44848	-5.28876	-5.08858	-10.9168	-39.0908	-34.0263
RSp0745		Type VI secretion system effector, Hcp1 family	56612.1	10658.8	3291.35	17985.8	OK	4163.9	792.741	289.932	1193.85	OK	1224.87	209.524	100.214	314.633	OK	1333.59	241.784	109.289	348.415	OK	-3.74905	-5.66879	-5.46218	-13.4455	-50.8715	-44.084
RSp0746		Type VI secretion system, lysozyme-related	2338.51	482.544	173.638	714.389	OK	303.599	63.4133	24.7278	89.944	OK	64.4667	11.9966	5.62938	16.6201	OK	81.5927	16.178	7.23778	21.9814	OK	-2.9278	-5.32996	-4.89856	-7.60951	-40.2234	-29.8272
RSp0747	***tssD***	Type VI Secretion protein	6200.21	236.411	72.6468	400.184	OK	922.757	35.2635	12.4905	58.0687	OK	258.978	9.57476	5.18275	13.9351	OK	321.838	12.0459	6.55566	17.539	OK	-2.74505	-4.62592	-4.29468	-6.70413	-24.6911	-19.6258
RSp0748	***tssE***	Type VI secretion protein	2848.61	197.26	4.98585	432.453	OK	379.959	26.4192	0.834382	58.6153	OK	118.93	7.87553	2.25148	13.5089	OK	135.988	9.20651	2.50494	15.9097	OK	-2.90044	-4.64658	-4.4213	-7.46654	-25.0472	-21.4261
RSp0749	***tssH***	Type VI secretion ATPase, ClpV1 family	18058.1	454.99	162.803	746.606	OK	1831.71	46.2204	20.0453	72.386	OK	820.283	20.157	11.8742	28.4466	OK	737.961	18.2825	10.799	25.7586	OK	-3.29923	-4.49648	-4.6373	-9.84392	-22.5723	-24.8866
RSp0750	***vgrG2***	putative VGR-related protein	8457.59	209.894	84.63	335.039	OK	1031.32	25.632	11.3058	39.9674	OK	539.075	13.0499	7.88096	18.2046	OK	491.37	11.991	7.23573	16.7298	OK	-3.03364	-4.00755	-4.12964	-8.18875	-16.084	-17.5043
RSp0751		hypothetical protein	2616.38	173.35	0.397537	382.601	OK	1082.84	72.0255	13.5163	130.676	OK	564.639	35.8222	11.2049	60.4503	OK	662.714	42.9444	16.191	69.6943	OK	-1.26711	-2.27476	-2.01315	-2.40679	-4.83918	-4.03661
RSp0752		putative transmembrane protein	10107.5	248.828	63.2438	434.213	OK	1885.07	46.4743	11.9325	81.2344	OK	1237.09	29.7099	14.0733	45.414	OK	1058.89	25.6336	11.1114	40.1609	OK	-2.42064	-3.06613	-3.27904	-5.3541	-8.37526	-9.7071
RSp0753		hypothetical protein	4440.74	302.631	133.165	471.285	OK	1065.36	72.8956	32.2296	113.502	OK	756.928	49.3521	28.0067	70.5333	OK	716.203	47.7248	26.6293	68.8115	OK	-2.05366	-2.61638	-2.66475	-4.15157	-6.13208	-6.34117
RSp0754		hypothetical protein	120.678	16.2928	7.35723	25.0952	OK	49.6798	6.76113	3.02352	10.0784	OK	38.9023	4.88055	2.38616	7.35734	OK	55.3017	7.23795	3.57924	10.5389	OK	-1.2689	-1.73912	-1.17058	-2.40977	-3.33831	-2.25102
RSp0755		hypothetical protein	61.8601	1.33328	0.674677	1.98314	OK	42.3198	0.913287	0.449785	1.3698	OK	28.8989	0.608467	0.302531	0.907594	OK	36.2634	0.768877	0.403375	1.12945	OK	-0.54584	-1.13173	-0.79416	-1.45987	-2.19121	-1.73406

RSp0756		hypothetical protein	123.72	35.7969	12.5783	42.7663	OK	75.4397	22.1922	7.54699	27.1692	OK	130.045	32.863	14.5593	40.369	OK	73.4335	20.2403	7.94145	24.1552	OK	-0.68978	-0.12337	-0.8226	-1.61304	-1.08928	-1.7686
RSp0757		hypothetical protein	819.393	88.3906	20.2791	156.378	OK	358.799	38.9525	8.23043	69.7465	OK	334.56	33.932	10.6305	57.1701	OK	275.602	28.9214	10.2956	47.5441	OK	-1.18218	-1.38125	-1.61176	-2.26919	-2.60493	-3.05624
RSp0758		hypothetical protein	1172.3	63.8722	11.8231	115.834	OK	626.518	34.2455	8.14435	60.3994	OK	795.83	41.737	20.0338	63.3007	OK	556.644	29.7077	14.3563	45.1504	OK	-0.89927	-0.61386	-1.10435	-1.86513	-1.53035	-2.15002
RSp0759		Type VI secretion-associated protein, ImpA family	3093.01	233.793	104.032	362.716	OK	1999.15	151.787	66.8144	236.645	OK	2431.95	175.295	97.1144	253.375	OK	2193.94	161.997	88.0295	235.142	OK	-0.62318	-0.41545	-0.52926	-1.54027	-1.33371	-1.44319
RSp0760		hypothetical protein	1818.28	139.902	61.5	218.28	OK	892.397	68.9758	30.9434	106.819	OK	959.22	70.3377	38.9839	101.244	OK	753.373	56.6148	31.2888	81.7834	OK	-1.02025	-0.99205	-1.30517	-2.02828	-1.989	-2.47112
RSp0761		type VI secretion system OmpA/MotB family protein	2489.62	238.59	103.551	373.51	OK	480.238	46.2846	21.3898	70.6558	OK	333.448	30.203	17.1398	42.202	OK	284.668	26.58	14.8545	38.0885	OK	-2.36593	-2.98177	-3.16612	-5.15485	-7.89955	-8.9763
RSp0762		Type VI secretion system-associated protein	2253.33	175.898	0.065249	383.274	OK	422.278	33.116	0.130498	69.2947	OK	300.104	22.3151	5.34258	39.136	OK	251.124	19.1433	3.54026	34.6946	OK	-2.40914	-2.97865	-3.19983	-5.31157	-7.88247	-9.18849
RSp0763	***tssM***	Type VI secretion protein	9060.98	154.374	40.4294	268.899	OK	2009.27	34.2669	11.7334	56.8253	OK	988.119	16.4794	8.33879	24.6661	OK	1071.58	17.9704	9.3241	26.6978	OK	-2.17154	-3.22769	-3.10274	-4.50505	-9.3677	-8.59046
RSp0764		hypothetical protein	1475.52	71.6623	31.7244	111.36	OK	444.358	21.6434	10.6902	32.59	OK	115.595	5.41829	3.2022	7.59988	OK	174.064	8.28722	4.99543	11.6133	OK	-1.72729	-3.7253	-3.11225	-3.31105	-13.226	-8.64733
RSp0765		hypothetical protein	325.526	186.986	46.7503	169.828	OK	84.6397	49.9782	12.1646	42.4569	OK	40.0138	18.4598	5.88256	20.4713	OK	46.2359	24.9222	6.82376	21.4125	OK	-1.90356	-3.34047	-2.90743	-3.74135	-10.1294	-7.50279
RSp0766		hypothetical protein	807.224	75.6704	33.6038	117.575	OK	256.679	24.1952	11.53	36.638	OK	94.4771	8.37835	4.63953	11.973	OK	92.4718	8.44802	4.5647	12.2723	OK	-1.64501	-3.17499	-3.16304	-3.1275	-9.03166	-8.95718
RSp0767		hypothetical protein	4466.1	491.655	205.273	777.467	OK	565.798	62.6934	27.933	97.0757	OK	135.602	14.0218	7.73946	20.1566	OK	204.888	21.9356	11.9069	31.213	OK	-2.97126	-5.1319	-4.4863	-7.84221	-35.0636	-22.4136
RSp0768	***vgrG3***	Type VI Secretion associated VGR-related protein	2758.35	62.1337	27.0949	97.2943	OK	649.518	14.6503	6.77905	22.5116	OK	305.661	6.72314	4.14291	9.31628	OK	235.712	5.22254	3.21759	7.21329	OK	-2.08445	-3.20817	-3.57255	-4.24112	-9.24177	-11.8972
RSp0769		putative transmembrane protein	2535.25	122.577	55.478	189.496	OK	499.558	24.2221	11.7249	36.7267	OK	316.776	14.7828	8.97267	20.5819	OK	255.657	12.1174	7.27169	16.9247	OK	-2.33929	-3.0517	-3.33854	-5.06054	-8.29187	-10.1158
RSp0770		hypothetical protein	1767.58	133.138	58.0685	208.084	OK	306.359	23.1786	11.3984	34.9551	OK	241.194	17.3263	10.1825	24.3631	OK	260.19	19.1453	10.9947	26.9869	OK	-2.52206	-2.94189	-2.79786	-5.74401	-7.68416	-6.95408
RSp0771		hypothetical protein	1701.66	142.692	61.8388	222.564	OK	346.839	29.2286	14.1267	44.1805	OK	185.62	14.7889	8.60751	20.9039	OK	209.421	17.1363	9.70052	24.4562	OK	-2.28745	-3.27032	-3.05778	-4.88193	-9.64859	-8.32689
RSp0772		putative signal peptide protein	956.296	67.7514	30.5469	104.99	OK	179.399	12.7633	6.37395	19.1219	OK	133.379	9.03003	5.27947	12.7538	OK	143.241	9.91951	5.69471	14.1181	OK	-2.40825	-2.90745	-2.77191	-5.3083	-7.5029	-6.83012
RSp0773		putative signal peptide protein	2220.88	1159.21	276.33	1142.09	OK	198.719	106.45	27.633	96.8299	OK	236.748	100.533	36.4969	98.902	OK	142.334	69.8236	21.8531	60.3775	OK	-3.44489	-3.5274	-4.05328	-10.8897	-11.5306	-16.602
RSp0774		hypothetical protein	244.398	44.0832	18.2407	65.1455	OK	32.1999	5.87036	2.23356	8.68607	OK	21.1184	3.47224	1.46894	5.38611	OK	9.97244	1.73382	0.612058	2.81547	OK	-2.90871	-3.66629	-4.6682	-7.50945	-12.6959	-25.4255
RSp0775		hypothetical protein	33.4653	57.307	5.27877	37.3033	OK	7.35997	13.1968	0.703836	8.09411	OK	12.2264	14.2721	1.73584	14.2339	OK	6.3461	10.14	0.694334	8.33201	OK	-2.11852	-2.00551	-2.49865	-4.34249	-4.01532	-5.65158
RSp0776		hypothetical protein	38.5358	32.3481	10.0731	54.5629	OK	11.04	9.58872	2.60564	16.5024	OK	13.3379	8.52247	2.55586	14.6962	OK	8.15927	6.40135	1.5691	11.7682	OK	-1.75427	-1.92434	-2.33723	-3.37356	-3.79562	-5.05332
RSp0777		putative transmembrane protein	1693.55	199.753	75.4983	323.733	OK	226.319	26.8811	11.916	41.8424	OK	250.086	27.6126	14.6266	40.47	OK	176.784	20.2581	10.4091	30.1506	OK	-2.89355	-2.85482	-3.30165	-7.43098	-7.23413	-9.8604
RSp0778		transcriptional activator of quorum sensing autoinducer synthesis transcription regulator protein	594.263	68.9562	1.97262	154.213	OK	43.2398	5.05196	0	11.8004	OK	72.2472	7.85413	1.30454	14.4587	OK	63.461	7.15597	1.80419	12.5165	OK	-3.77077	-3.13416	-3.26846	-13.6494	-8.77961	-9.63618
RSp0779		autoinducer synthase	6537.9	1087.92	403.298	1749.62	OK	30.3599	5.10195	1.9942	7.50758	OK	17.7839	2.71333	1.15722	4.16601	OK	34.4503	5.53515	2.43017	8.44773	OK	-7.73631	-8.64729	-7.61873	-213.236	-400.954	-196.548
RSp0780		hypothetical protein	32678.4	1138.81	394.384	1880.28	OK	291.639	10.1842	5.22257	15.123	OK	353.455	11.961	7.30139	16.5941	OK	315.492	10.797	6.60602	15.0137	OK	-6.80505	-6.57305	-6.72075	-111.821	-95.2103	-105.475
RSp0781	***metB***	putative cystathionine gamma-synthase protein	28445.5	1327.47	85.1162	2569.69	OK	180.319	8.43821	1.67058	15.2023	OK	228.968	10.3212	3.58447	17.0571	OK	221.207	10.1221	3.99648	16.2331	OK	-7.29753	-7.00692	-7.03503	-157.317	-128.616	-131.146
RSp0782		putative aminoacyl-tRNA synthetase protein	17615.9	633.434	3.09969	1458.6	OK	129.72	4.67436	0.230828	9.10121	OK	151.163	5.27556	1.10603	9.46631	OK	128.735	4.54523	0.910847	8.16509	OK	-7.08228	-6.90773	-7.1227	-135.512	-120.07	-139.362
RSp0783		hypothetical protein	1317.32	756.682	0	1684.92	OK	17.4799	10.3216	0	20.5129	OK	15.5609	7.17883	0	14.3534	OK	16.3185	8.79607	0	17.4124	OK	-6.19595	-6.71979	-6.42668	-73.3105	-105.405	-86.025
RSp0784		putative omega-3 fatty acid desaturase transmembrane protein	7727.44	609.867	0	1688.06	OK	103.96	8.24308	0.460948	16.0015	OK	130.045	9.7728	2.01378	17.4744	OK	135.081	10.4097	2.79331	17.9941	OK	-6.20917	-5.96358	-5.87249	-73.9853	-62.4045	-58.5864
RSp0785		hypothetical protein	10676.4	654.828	0	1975.32	OK	96.5996	5.94634	0	14.2196	OK	136.714	8.04671	0.824013	15.3031	OK	100.631	6.0404	0.240101	12.005	OK	-6.78297	-6.34657	-6.76033	-110.123	-81.3784	-108.408
RSp0786		hypothetical protein	9848.94	829.12	330.55	1319.84	OK	86.4797	7.31649	3.5431	11.0461	OK	93.3656	7.46682	4.18061	10.6914	OK	77.0598	6.33002	3.42673	9.1151	OK	-6.82429	-6.79494	-7.03323	-113.322	-111.041	-130.982
RSp0787		putative transmembrane protein	15512.7	658.122	250.436	1066.03	OK	281.519	11.9733	6.09509	17.8253	OK	445.709	18.2995	10.9668	25.6017	OK	316.398	13.169	7.97927	18.3032	OK	-5.78046	-5.16848	-5.64314	-54.9658	-35.9639	-49.9751
RSp0788		putative transferase protein	22677.3	921.992	331.706	1512.54	OK	195.959	7.98627	4.09422	11.84	OK	306.773	12.0799	7.38655	16.738	OK	198.542	7.92112	4.80308	11.0252	OK	-6.85109	-6.25407	-6.86291	-115.447	-76.3245	-116.397
RSp0789		hypothetical protein	13890.1	462.292	177.54	747.137	OK	237.359	7.91533	4.08456	11.7316	OK	215.63	6.97378	4.2718	9.66456	OK	187.663	6.13484	3.75676	8.483	OK	-5.86801	-6.05072	-6.23563	-58.4046	-66.29	-75.3552
RSp0790		putative hydrolase protein	5697.21	485.322	39.286	931.429	OK	131.56	11.2636	2.80614	19.7132	OK	173.393	14.0258	5.74414	22.2845	OK	140.521	11.6789	5.19049	18.1321	OK	-5.4292	-5.11279	-5.37697	-43.0876	-34.6021	-41.5555
RSp0791		hypothetical protein	3993.53	1691.4	111.67	3256.17	OK	62.5598	27.0979	2.47696	50.5713	OK	94.4771	33.4426	7.5342	59.2554	OK	45.3293	18.1182	2.64715	31.9694	OK	-5.96389	-5.66039	-6.54463	-62.4181	-50.5762	-93.3536
RSp0792		putative fatty acid desaturase transmembrane protein	7896.8	683.545	14.9748	1411.88	OK	172.959	15.0481	3.56716	26.5362	OK	191.177	15.7043	5.50375	25.958	OK	155.933	13.1665	5.15065	21.1092	OK	-5.50538	-5.4438	-5.69809	-45.424	-43.526	-51.9155
RSp0793		hypothetical protein	1258.5	1176.05	197.554	830.541	OK	151.799	147.044	26.6887	91.6699	OK	281.208	196.888	54.9462	148.24	OK	183.13	159.854	35.7723	101.593	OK	-2.99963	-2.5785	-2.87912	-7.99795	-5.97319	-7.35703
RSp0794		aspartate aminotransferase	2772.55	174.029	77.1402	270.614	OK	2009.27	126.588	56.1069	197.052	OK	1148.17	69.1161	38.7179	99.4687	OK	2169.46	133.244	73.7993	192.467	OK	-0.45919	-1.33223	-0.38526	-1.37477	-2.51792	-1.30609
RSp0795		hypothetical protein	122.706	11.1144	5.45896	16.8195	OK	34.0399	3.09979	1.40163	4.79503	OK	63.3552	5.4363	2.98373	7.85958	OK	32.6371	2.88218	1.3827	4.36643	OK	-1.84219	-1.03173	-1.9472	-3.58553	-2.04448	-3.85625
RSp0796		putative transcription regulator protein	175.439	27.2901	11.9634	41.8159	OK	370.759	58.2064	24.5976	91.3465	OK	826.952	118.487	60.1124	172.506	OK	348.129	52.3589	26.1406	71.3627	OK	1.0928	2.118279	0.940057	2.132876	4.341758	1.918604
RSp0797		transport transmembrane protein	498.937	29.3442	14.0893	44.6247	OK	770.037	45.4461	20.801	69.7293	OK	544.632	30.7731	18.0436	43.2642	OK	677.22	38.9924	22.188	55.7481	OK	0.631081	0.068594	0.410118	1.548725	1.048694	1.328794
RSp0798		hypothetical protein	603.39	59.1454	20.5234	97.663	OK	1081.92	106.668	32.7902	180.543	OK	655.782	60.6974	30.4083	90.6043	OK	1135.05	108.37	50.4219	166.392	OK	0.85079	0.037369	0.873628	1.803488	1.02624	1.832264
RSp0799		hypothetical protein	367.104	16.7672	0.867811	33.2509	OK	793.957	36.3613	1.51132	71.0779	OK	303.438	13.393	3.39858	23.3929	OK	658.181	29.4803	8.42063	50.5238	OK	1.116762	-0.32416	0.814109	2.168597	-1.25194	1.758212
RSp0800	***dnaE2***	DNA polymerase III, alpha subunit	614.545	12.9084	5.98522	19.831	OK	1288.92	27.107	11.6911	42.515	OK	600.207	12.319	7.38053	17.2409	OK	1132.33	23.3991	13.5999	33.1829	OK	1.070355	-0.06743	0.858143	2.09995	-1.04784	1.812703
RSp0801		hypothetical protein	32421.8	5479.95	1739.78	9132.13	OK	12362	2110.45	725.727	3446.94	OK	14460.5	2238.53	1045.05	3431.99	OK	11086.6	1808.74	815.615	2592.74	OK	-1.37661	-1.29161	-1.59918	-2.59658	-2.44801	-3.02971
RSp0802		hypothetical protein	4103.05	248.112	111.271	384.359	OK	2446.27	148.455	66.7104	230.416	OK	2265.23	131.499	73.9907	188.886	OK	2863.9	169.504	93.7699	244.755	OK	-0.74097	-0.91594	-0.54967	-1.67129	-1.8868	-1.46375
RSp0803		signal peptide protein	1800.03	62.9333	27.7657	98.1119	OK	287.039	10.0563	5.1418	14.9433	OK	260.09	8.82969	5.42111	12.2371	OK	352.662	12.1082	7.32325	16.834	OK	-2.64572	-2.83339	-2.37784	-6.2581	-7.12746	-5.19758
RSp0804	***fusA2***	elongation factor G	11783.8	390.978	153.607	628.606	OK	6661.7	221.463	93.432	349.474	OK	6573.38	211.945	118	305.453	OK	6870.11	223.897	124.858	322.763	OK	-0.82002	-0.8834	-0.80425	-1.76543	-1.84471	-1.74624
RSp0805		putative transcription regulator protein	502.994	58.0519	26.0287	90.0719	OK	353.279	41.0522	18.7836	63.1487	OK	284.543	30.7752	17.2065	44.1192	OK	349.942	39.2511	21.0007	57.4432	OK	-0.49988	-0.91558	-0.56461	-1.4141	-1.88632	-1.47899
RSp0806		hypothetical protein	923.845	145.82	57.6219	232.183	OK	448.958	71.5291	29.6019	109.143	OK	155.609	22.6018	11.8146	32.6575	OK	192.196	29.323	14.7126	41.4627	OK	-1.02759	-2.68968	-2.31408	-2.03861	-6.4517	-4.97289
RSp0807		ferredoxin protein	283.948	102.563	32.2955	121.013	OK	182.159	67.1192	21.087	73.7097	OK	48.9058	15.0513	5.80967	17.8038	OK	76.1532	26.0553	9.37044	28.6736	OK	-0.61171	-2.76855	-1.97686	-1.52807	-6.81423	-3.93636
RSp0808		Putative metallopeptidase protein	849.816	34.6166	15.7769	53.3904	OK	2628.43	107.325	48.4762	166.12	OK	922.541	36.3949	21.0678	51.7584	OK	2077.89	83.057	46.947	118.898	OK	1.63245	0.072272	1.262638	3.100391	1.051371	2.39934
RSp0809		hypothetical protein	14.1974	6.93105	1.54916	7.74582	OK	13.7999	6.9063	1.54916	7.96713	OK	12.2264	4.89889	1.30993	6.11301	OK	11.7856	5.4141	1.30993	6.11301	OK	-0.00516	-0.50062	-0.35635	-1.00358	-1.41482	-1.28019
RSp0810	***atpC2***	ATP synthase epsilon chain protein	420.852	104.931	38.0272	138.309	OK	292.559	74.0109	26.9871	97.5215	OK	605.765	133.907	60.9601	184.695	OK	547.578	130.566	55.5145	165.787	OK	-0.50363	0.35179	0.315338	-1.41778	1.276143	1.244303
RSp0811		tonb-dependent receptor signal peptide protein	231.215	8.28626	4.27367	12.3279	OK	403.879	14.5048	7.26525	21.73	OK	126.71	4.40763	2.65931	6.12939	OK	191.29	6.73138	4.11869	9.34002	OK	0.807737	-0.91072	-0.29982	1.750464	-1.87998	-1.23099
RSp0812		putative transmembrane protein	32.4512	5.16002	0	10.2224	OK	33.1199	5.31618	0	10.5631	OK	22.2299	3.25113	0.336146	6.16268	OK	19.9449	3.06503	0.224097	5.82653	OK	0.043013	-0.66644	-0.75148	1.030263	-1.58715	-1.68351
RSp0813		hypothetical protein	281.92	9.92123	4.39896	15.414	OK	287.039	10.1224	4.47864	15.7987	OK	176.728	6.03838	3.45094	8.64444	OK	212.141	7.33113	4.14694	10.5056	OK	0.02896	-0.71636	-0.43648	1.020277	-1.64303	-1.3533
RSp0814	***mqo***	malate:quinone oxidoreductase	258.596	11.3755	5.90144	16.8726	OK	2036.87	89.8341	40.2803	139.298	OK	933.656	39.7191	22.8573	56.4986	OK	1033.51	44.5937	25.3189	63.8442	OK	2.981333	1.803903	1.97091	7.897156	3.491636	3.920153
RSp0815		transcription regulator protein	550.656	76.7582	32.6133	119.204	OK	813.277	114.305	46.8558	178.548	OK	593.538	76.7362	40.2163	112.809	OK	535.792	72.3611	36.551	101.101	OK	0.574496	-0.00041	-0.08511	1.489157	-1.00029	-1.06077
RSp0816		transcription regulator protein	34.4794	4.4588	1.85397	6.92798	OK	29.4399	3.83635	1.65881	5.95221	OK	18.8954	2.27616	0.9626	3.56162	OK	19.9449	2.50216	1.05886	3.8504	OK	-0.21692	-0.97005	-0.83348	-1.16225	-1.95891	-1.78198
RSp0817		outer membrane drug efflux lipoprotein	147.045	7.20683	3.70873	10.6899	OK	168.359	8.27541	4.23231	12.3043	OK	132.268	6.25515	3.74475	8.73775	OK	153.213	7.36068	4.39039	10.3303	OK	0.199466	-0.20432	0.030474	1.148273	-1.15214	1.021348
RSp0818		drug efflux transmembrane protein	370.147	7.94592	3.9716	11.9148	OK	331.199	7.11884	3.62536	10.6317	OK	387.912	8.13515	4.96278	11.2918	OK	323.651	6.83485	4.19927	9.46343	OK	-0.15857	0.033955	-0.2173	-1.11618	1.023815	-1.16256
RSp0819		drug efflux lipoprotein	95.3254	5.74814	2.93208	8.53444	OK	84.6397	5.122	2.61793	7.64434	OK	80.0276	4.63301	2.63424	6.61142	OK	97.0047	5.72536	3.25406	8.16097	OK	-0.16639	-0.31115	-0.00573	-1.12225	-1.24069	-1.00398
RSp0820		putative 3-carboxymuconate cyclase	270.765	14.79	7.49184	22.0433	OK	213.439	11.6964	5.90703	17.481	OK	204.515	10.7523	6.44317	15.0183	OK	214.861	11.4959	6.82218	16.1553	OK	-0.33856	-0.45998	-0.3635	-1.26449	-1.37552	-1.28655
RSp0821		hypothetical protein	936.014	84.0722	37.0727	131	OK	511.518	46.1888	21.467	70.8484	OK	406.807	34.6262	19.6594	49.3653	OK	372.607	32.6328	18.2861	46.9801	OK	-0.86409	-1.27976	-1.36531	-1.82019	-2.42799	-2.57631
RSp0822	***ripAF1***	Type III effector protein	429.978	31.0784	15.1064	46.9705	OK	1156.44	83.9437	37.1238	130.392	OK	1700.59	117.384	64.9193	169.237	OK	1233.86	87.1559	47.2414	127.063	OK	1.43351	1.917252	1.487686	2.70103	3.777028	2.804388
RSp0823		transcription regulator protein	668.292	58.5555	26.4209	90.6783	OK	875.837	77.139	33.9595	119.971	OK	893.642	74.273	41.0087	107.515	OK	689.912	58.9593	32.1553	84.3547	OK	0.397656	0.343033	0.009915	1.317366	1.268421	1.006896
RSp0824		putative gluconolactonase precursor (D-glucono- DELTA-lactone lactonohydrolase) protein	643.954	46.0789	21.467	70.3438	OK	917.237	65.912	29.5323	102.12	OK	2020.7	138.13	76.4533	199.568	OK	1186.72	82.9954	45.2259	120.423	OK	0.516435	1.583849	0.848925	1.430416	2.997684	1.801158
RSp0825		hypothetical protein	1705.72	144.729	62.6529	225.229	OK	3610.07	307.851	134.606	480.805	OK	8320.65	670.5	355.391	982.912	OK	3956.34	327.532	174.453	480.039	OK	1.088878	2.211883	1.178282	2.127086	4.632796	2.263071
RSp0826		5-dehydro-4-deoxyglucarate dehydratase	87.2126	7.25651	3.57783	10.8711	OK	90.1597	7.5387	3.71544	11.3527	OK	92.2541	7.29528	4.07254	10.4528	OK	96.0981	7.80311	4.27617	11.1995	OK	0.05504	0.007687	0.104773	1.038888	1.005343	1.075325
RSp0827		ketoglutarate semialdehyde dehydrogenase protein	421.866	19.0656	9.4958	28.528	OK	532.678	24.1379	11.7277	36.5223	OK	301.215	13.1578	8.0065	18.3349	OK	285.575	12.6572	7.68624	17.6543	OK	0.340328	-0.53505	-0.59101	1.266045	-1.449	-1.5063
RSp0828	***gudP***	putative glucarate transporter (D-glucarate permease) transmembrane protein	166.312	8.99297	4.61707	13.3752	OK	141.679	7.6855	3.90309	11.4237	OK	137.825	7.17489	4.273	10.0486	OK	136.894	7.25114	4.273	10.1895	OK	-0.22666	-0.32584	-0.31059	-1.17012	-1.25339	-1.24021
RSp0829	***gudD2***	glucarate dehydratase protein	160.228	8.77447	4.42817	13.092	OK	162.839	8.94637	4.57257	13.2845	OK	172.282	9.08022	5.46049	12.6778	OK	151.4	8.12103	4.79573	11.3958	OK	0.02799	0.049415	-0.11165	1.019591	1.034845	-1.08046
RSp0830	***garD***	D-galactarate dehydratase	1093.2	48.8909	22.07	75.6571	OK	1093.88	49.0504	22.1504	75.9385	OK	1304.89	56.4189	32.0307	80.7827	OK	1343.56	58.9324	33.1935	84.7088	OK	0.004699	0.206613	0.269495	1.003262	1.153975	1.205386
RSp0831		hypothetical protein	526.318	49.3379	22.7565	75.8551	OK	461.838	43.534	20.2533	66.7525	OK	475.72	42.1875	23.7215	60.239	OK	460.546	42.0745	23.048	61.0622	OK	-0.18055	-0.22588	-0.22975	-1.13332	-1.16949	-1.17263
RSp0832		hypothetical protein	302.202	26.6968	12.8657	40.3319	OK	304.519	27.0423	13.0103	40.9102	OK	355.678	29.7952	17.1129	42.2831	OK	302.8	26.0876	14.6886	37.4344	OK	0.018551	0.158413	-0.0333	1.012942	1.116059	-1.02335
RSp0833	***pehC***	polygalacturonase transmembrane protein	10289.1	352.272	140.718	563.942	OK	1664.27	57.0959	25.0921	89.0203	OK	4289.26	142.642	80.5107	204.931	OK	1949.16	65.5405	37.099	93.9136	OK	-2.62523	-1.30429	-2.42623	-6.16983	-2.46962	-5.37488
RSp0834	***exuT1***	hexuronate transporter transmembrane protein	1610.39	90.4976	40.0291	140.865	OK	392.839	22.1494	11.0289	33.2837	OK	949.217	51.306	29.1429	73.2945	OK	485.93	26.7425	15.5429	37.9344	OK	-2.03061	-0.81875	-1.75875	-4.08578	-1.76388	-3.38404
RSp0835		bifunctional nicotinamide mononucleotide adenylyltransferase/ADP-ribose pyrophosphatase	6432.44	472.891	201.082	743.838	OK	10011.4	739.208	299.235	1177.83	OK	10321.3	724.242	385.474	1060.57	OK	5791.27	416.014	222.116	609.365	OK	0.644473	0.614964	-0.18488	1.563168	1.53152	-1.13672

RSp0836		putative nicotinate phosphoribosyltransferase	3364.78	167.98	75.2675	259.511	OK	6814.41	341.2	145.08	537.251	OK	6316.62	304.157	168.499	439.908	OK	5121.3	250.586	138.483	362.331	OK	1.022328	0.856527	0.577016	2.031194	1.810674	1.491761
RSp0837		hypothetical protein	295.103	49.1056	20.7632	75.3104	OK	679.877	114.253	44.9282	178.07	OK	715.803	109.212	54.621	155.878	OK	507.688	81.5706	39.4613	117.111	OK	1.218273	1.153172	0.732162	2.32668	2.224023	1.661126
RSp0838	***ripAI***	Type III effector protein	782.885	75.3634	33.4017	116.48	OK	692.757	67.068	29.8368	104.08	OK	582.423	52.9813	29.5869	75.8404	OK	561.177	52.6302	28.6695	76.3755	OK	-0.16824	-0.50838	-0.51797	-1.12369	-1.42245	-1.43194
RSp0839		hypothetical protein	340.738	51.8753	22.3477	78.0518	OK	873.997	134.266	53.3923	213.679	OK	1324.9	186.058	93.1797	277.15	OK	704.417	103.735	50.4995	155.299	OK	1.371974	1.842633	0.999783	2.588245	3.586639	1.999699
RSp0840		putative methyl-accepting chemotaxis transducer transmembrane protein	914.718	42.2283	19.3575	64.9801	OK	8441.89	390.787	161.809	619.358	OK	3498.99	156.063	88.0547	223.891	OK	1364.41	61.766	34.8465	88.4627	OK	3.2101	1.885846	0.548603	9.254149	3.695697	1.462668
RSp0841		putative lipoprotein	789.984	94.7397	40.6307	148.611	OK	533.598	64.448	28.377	100.149	OK	741.367	83.1567	44.354	121.701	OK	503.155	58.6091	30.7206	84.7088	OK	-0.55583	-0.18814	-0.69284	-1.47002	-1.13929	-1.61647
RSp0842		putative Type III effector protein with leucine-rich-repeats	2511.93	90.6274	40.6517	140.511	OK	5827.26	210.689	90.598	330.704	OK	11498.4	402.619	217.711	586.86	OK	5839.32	206.857	114.598	298.537	OK	1.217096	2.151396	1.190615	2.324783	4.442575	2.2825
RSp0843		hypothetical protein	512.121	130.705	46.3563	174.847	OK	638.478	165.39	56.6231	231.004	OK	1047.03	236.384	104.812	332.39	OK	847.658	206.769	85.9365	263.18	OK	0.339558	0.854818	0.661706	1.265369	1.808531	1.581952
RSp0844		hypothetical protein	417.809	38.1661	18.1244	58.0872	OK	527.158	48.4157	22.3584	74.3545	OK	783.604	67.7878	37.7379	97.7522	OK	530.353	47.2294	25.9402	68.3679	OK	0.343183	0.828734	0.307393	1.268552	1.776126	1.23747
RSp0845	***ripAN***	Type III effector protein	2552.49	39.5056	17.0425	61.9727	OK	1019.36	15.7913	6.77827	24.804	OK	1387.15	21.0308	12.0803	29.9802	OK	1201.23	18.3037	10.5666	26.0122	OK	-1.32293	-0.90955	-1.10992	-2.50173	-1.87846	-2.15834
RSp0846	***ripA3, awr3***	Type III effector protein, AWR family, AWR protein 3	1230.1	22.2091	9.39505	35.0587	OK	861.117	15.5637	6.87358	24.2475	OK	612.434	10.8188	6.45709	15.1972	OK	564.803	10.036	6.04819	14.0386	OK	-0.51297	-1.03761	-1.14597	-1.42698	-2.05282	-2.21294
RSp0847	***ripA4, awr4***	Type III effector protein, AWR family, AWR protein 4	761.589	12.8027	5.70948	19.8541	OK	712.997	11.9977	5.40304	18.5639	OK	645.778	10.6277	6.28474	14.972	OK	776.038	12.8413	7.63716	18.0746	OK	-0.09369	-0.26862	0.004343	-1.0671	-1.20465	1.003015
RSp0848		hypothetical protein	47.6627	14.1683	4.77044	17.0373	OK	126.96	38.3856	13.1187	44.6377	OK	302.327	78.2668	34.7911	93.7847	OK	135.988	38.4812	15.4627	43.0267	OK	1.437899	2.465734	1.441487	2.709259	5.524078	2.716007
RSp0849	***prhI***	RNA polymerase sigma factor	1877.1	347.328	102.663	591.858	OK	5437.18	1017.14	266.696	1756.63	OK	5906.48	994.29	414.575	1573.22	OK	4813.06	857.937	349.922	1344.88	OK	1.550148	1.517368	1.304573	2.928471	2.862683	2.470106
RSp0850	***prhR***	3-compartiment signal transduction system, component PRHR transmembrane protein	1403.51	114.559	8.97853	222.831	OK	4001.07	328.158	14.025	649.99	OK	3770.19	292.675	75.1446	509.943	OK	3033.44	241.68	67.7212	415.25	OK	1.5183	1.353209	1.077007	2.864533	2.554797	2.109655
RSp0851	***prhJ***	transcription regulator PRHJ transcription regulator protein	515.163	91.3878	36.8006	138.738	OK	1476.59	264.706	97.5215	412.534	OK	1283.78	207.848	100.924	298.901	OK	844.938	144.529	67.525	206.689	OK	1.534317	1.185455	0.661286	2.896514	2.274352	1.581491
RSp0852	***hrpG***	response regulator transcription regulator protein	2138.74	237.885	99.8606	373.369	OK	4062.71	454.865	189.292	717.71	OK	4357.06	454.979	239.208	670.554	OK	3084.21	333.571	171.561	493.763	OK	0.935174	0.935536	0.48773	1.912121	1.912601	1.402236
RSp0853	***hpaB***	hypothetical protein	389.414	85.2593	32.6242	125.271	OK	369.839	82.0223	31.0707	114.961	OK	671.343	131.883	61.8597	188.087	OK	438.788	92.1784	41.5185	121.63	OK	-0.05584	0.629329	0.112572	-1.03946	1.546846	1.081154
RSp0854	***hrpZ***	HRPY-like protein	106.481	92.5436	18.0775	64.401	OK	165.599	149.005	28.246	99.1436	OK	187.843	123.637	35.9455	98.9198	OK	112.417	91.2958	20.8986	61.3024	OK	0.687156	0.417905	-0.01958	1.610106	1.335986	-1.01367
RSp0855	***hrpY***	Hrp pilus subunit HRPY protein	9301.33	6456.1	1224.39	6089.13	OK	12103.5	8664.2	1554.93	9218.65	OK	42362.4	23003.2	5873.99	24198.9	OK	18306.7	11895.1	2848.97	9650.17	OK	0.424404	1.8331	0.881633	1.342018	3.563018	1.842459
RSp0856	***hrpX***	hypothetical protein	462.43	330.646	70.684	260.745	OK	650.438	479.886	97.1251	376.981	OK	1370.47	763.38	229.592	733.196	OK	839.499	561.745	143.333	437.49	OK	0.537404	1.207114	0.764628	1.451359	2.308753	1.698932
RSp0857	***hrpW***	HRPW transmembrane protein	1013.09	80.5472	35.5796	124.959	OK	1340.44	107.076	46.1805	167.959	OK	1888.43	142.929	78.4994	206.87	OK	1202.13	93.3187	50.2632	136.279	OK	0.410729	0.827392	0.212332	1.329357	1.774475	1.158559
RSp0858	***hrpV***	hypothetical protein	938.043	71.9172	32.329	111.448	OK	1660.59	127.891	55.917	199.437	OK	2544.21	185.918	102.716	268.646	OK	1819.52	136.25	73.9934	198.013	OK	0.830506	1.370258	0.921847	1.778309	2.585167	1.89454
RSp0859	***hrcS***	Hrp conserved HRCS transmembrane protein	173.411	107.627	25.9084	91.0497	OK	260.359	166.333	38.4925	138.425	OK	298.992	147.464	49.6569	134.122	OK	229.366	133.439	38.2163	103.695	OK	0.628034	0.454323	0.31014	1.545458	1.370139	1.239828
RSp0860	***hrcR***	type III secretion system protein	449.246	58.804	15.5586	102.017	OK	823.397	108.617	25.2089	191.726	OK	1284.89	156.56	59.3544	253.544	OK	980.926	124.536	49.1544	199.726	OK	0.885264	1.412729	1.082577	1.847102	2.662404	2.117815
RSp0861	***hrcQ***	Hrp conserved protein HRCQ	547.614	39.055	7.13185	71.3185	OK	1175.76	84.2071	16.2576	151.905	OK	1859.53	126.704	54.1012	200.256	OK	1218.45	84.9341	35.2715	134.812	OK	1.108435	1.697883	1.120837	2.156116	3.244245	2.174731
RSp0862	***hpaP***	Hrp associated protein HPAP	66.9306	9.97755	4.33677	15.2871	OK	106.72	16.0501	6.93883	24.828	OK	93.3656	12.8557	6.63124	18.3964	OK	68.9005	9.93918	4.813	14.439	OK	0.685825	0.365651	-0.00556	1.608621	1.288463	-1.00386
RSp0863	***hrcV***	Hrp conserved HRCV transmembrane protein	397.527	13.3967	6.77251	20.0379	OK	795.797	26.8718	12.2092	41.4117	OK	1110.38	36.3555	20.9627	51.7324	OK	920.185	30.4576	17.6528	43.1819	OK	1.004215	1.440296	1.184925	2.005852	2.713765	2.273515
RSp0864	***hrcU***	type III secretion system protein HrcU	91.269	6.44493	3.23804	9.59419	OK	232.759	16.5049	8.21502	24.705	OK	431.26	29.104	16.8589	41.2305	OK	345.409	23.8419	13.7829	33.8953	OK	1.356658	2.174981	1.887263	2.560912	4.515798	3.699326
RSp0865	***hrpK***	HRPK protein	418.823	85.6015	33.3481	121.106	OK	1036.84	214.484	77.0922	317.009	OK	2074.05	382.597	180.472	575.647	OK	1045.29	205.335	90.8355	283.695	OK	1.325162	2.160118	1.262272	2.50561	4.469513	2.398731
RSp0866	***hrpJ***	HRPJ protein	367.104	104.819	1.99693	207.181	OK	806.837	234.18	6.1572	461.956	OK	2082.94	520.163	73.7098	965.943	OK	927.437	252.35	33.6537	469.51	OK	1.159718	2.311064	1.267526	2.234137	4.962488	2.407483
RSp0867	***hrcJ***	Hrp conserved lipoprotein HRCJ transmembrane	1021.2	101.49	16.299	186.365	OK	2187.75	218.708	38.3226	398.173	OK	4138.1	388.099	105.808	670.454	OK	2329.93	225.504	76.2379	374.758	OK	1.107668	1.935087	1.151815	2.154971	3.824012	2.221933
RSp0868	***hrpH***	HRPH protein	283.948	39.0732	0	91.3881	OK	568.558	78.8776	0	189.523	OK	915.872	116.981	0.100844	277.018	OK	437.881	58.393	0	127.971	OK	1.013436	1.582023	0.579616	2.018714	2.993894	1.494451
RSp0869	***hrpF***	type III secretion system protein HrpB	315.385	27.2997	0	70.3009	OK	650.438	56.5905	0	136.976	OK	1172.63	96.326	0.420739	220.257	OK	656.368	55.4217	0.070123	114.09	OK	1.051675	1.81904	1.021566	2.072935	3.528464	2.030121
RSp0870	***hrcN***	type III secretion system ATPase	1097.26	61.0225	8.09891	113.775	OK	1547.43	86.3416	1.31729	173.541	OK	3911.35	209.275	50.9215	367.665	OK	1907.46	103.894	27.5785	180.054	OK	0.500715	1.777987	0.767699	1.414914	3.429473	1.702552
RSp0871	***hrpD***	hypothetical protein	138.932	26.3888	0	112.255	OK	241.959	46.4768	0	202.458	OK	383.466	66.1291	0	273.163	OK	198.542	36.3073	0	136.055	OK	0.816585	1.32536	0.460334	1.761232	2.505953	1.37586
RSp0872	***hrcT***	Hrp conserved HRCT transmembrane protein	535.445	50.1934	23.06	77.2964	OK	702.877	66.255	29.5076	102.935	OK	1172.63	103.99	56.1981	151.683	OK	791.449	72.3051	38.987	105.437	OK	0.400532	1.050875	0.5266	1.319994	2.071786	1.44053
RSp0873	***hrpB***	regulatory HRPB transcription regulator protein	1380.19	69.8783	30.8083	108.907	OK	8859.57	449.898	185.434	713.081	OK	11757.4	573.97	308.842	839.335	OK	5542.87	275.026	151.43	397.936	OK	2.686682	3.038059	1.976652	6.438308	8.213852	3.935786
RSp0874	***hrcC***	Hrp conserved HRCC transmembrane protein	801.139	33.3941	15.3174	51.4982	OK	3919.19	163.767	73.267	254.133	OK	6957.96	280.773	155.87	405.568	OK	2406.08	98.4039	55.6413	141.094	OK	2.29398	3.071739	1.559122	4.90407	8.407862	2.946745
RSp0875	***ripAC, popC***	Type III effector protein PopC	1229.09	28.3403	12.3136	44.3724	OK	2511.59	57.991	25.6514	90.4011	OK	8143.92	183.318	100.382	265.994	OK	3231.07	73.2755	41.6664	104.876	OK	1.032974	2.693422	1.370476	2.046238	6.468457	2.585558
RSp0876	***ripAB, popB***	Type III effector protein PopB	569.924	101.102	40.1126	154.072	OK	1235.56	221.496	82.1879	344.699	OK	3182.21	515.212	250.012	747.132	OK	1800.48	307.977	142.553	452.95	OK	1.131469	2.349355	1.607011	2.190817	5.095962	3.046201
RSp0877	***ripX, popA***	Type III effector protein PopA	2284.77	168.546	74.4811	262.271	OK	4705.78	348.658	153.256	542.648	OK	15178.6	1068.61	551.958	1583.81	OK	5602.7	403.838	216.376	591.243	OK	1.04867	2.664521	1.260634	2.068622	6.340168	2.396011
RSp0878	***prhA***	outer membrane receptor PRHA signal peptide protein	2389.22	71.5331	31.7132	111.261	OK	2801.39	84.0218	37.4211	130.64	OK	1845.08	53.7611	30.7632	76.6334	OK	2037.1	59.933	34.0868	85.6701	OK	0.232153	-0.41205	-0.25526	1.174586	-1.33057	-1.19355
RSp0879	***ripAO***	Type III effector protein	679.447	32.7767	15.3151	50.2044	OK	1444.39	69.8767	31.1465	108.41	OK	1686.14	78.5127	44.5612	111.912	OK	1255.62	59.3797	33.4421	85.1332	OK	1.092141	1.260255	0.857299	2.131902	2.395381	1.811644
RSp0880	***pglA***	polygalacturonase precursor (pectinase) signal peptide protein	665.25	29.8763	14.0827	45.6375	OK	5077.46	228.633	100.193	356.99	OK	1342.69	58.2908	33.1192	83.2758	OK	1749.71	77.0665	43.5088	110.623	OK	2.93596	0.964267	1.367102	7.652654	1.951072	2.57952
RSp0881		putative transmembrane protein	991.79	29.8189	13.3051	46.3441	OK	5794.14	174.514	74.4357	274.403	OK	3334.48	97.5614	55.4798	139.554	OK	1747.9	51.6397	29.5047	73.7893	OK	2.549044	1.710083	0.792254	5.852463	3.271797	1.731777
RSp0882		hypothetical protein	403.612	35.2206	16.7443	53.5959	OK	2267.79	198.919	86.0111	311.343	OK	1608.33	133.15	72.1437	194.195	OK	1277.38	108.725	58.0255	158.547	OK	2.49769	1.918561	1.626192	5.647803	3.780458	3.086972
RSp0883		hypothetical protein	204.848	93.8875	26.6191	97.2455	OK	950.356	446.046	112.916	460.896	OK	1250.43	474.226	172.171	547.854	OK	1164.96	503.048	160.735	511.853	OK	2.248188	2.33657	2.421691	4.750856	5.051003	5.357987
RSp0884		hypothetical protein	1313.26	31.1166	13.484	48.748	OK	2432.47	57.7161	25.3132	89.8707	OK	1677.25	38.785	22.3243	55.2372	OK	1718.89	40.0539	23.0081	57.024	OK	0.891289	0.317814	0.364258	1.854833	1.246441	1.28722
RSp0885	***ripAQ***	Type III effector protein	1004.97	35.6001	15.9051	55.2938	OK	1790.31	63.5527	27.9396	99.1385	OK	4013.61	138.027	78.2594	197.622	OK	2551.13	88.7408	50.4402	126.774	OK	0.836072	1.954997	1.317716	1.785183	3.877152	2.492712
RSp0886	***glnA2***	glutamine synthetase protein	851.844	41.7499	19.2418	64.0519	OK	329.359	16.189	8.24647	24.1286	OK	600.207	28.3847	16.7007	40.0301	OK	493.183	23.6935	13.8599	33.3153	OK	-1.36676	-0.55666	-0.81728	-2.57891	-1.47086	-1.76208
RSp0900	***popF2***	Type III secretion translocon protein POPF2	8980.87	282.272	114.471	450.253	OK	10158.6	319.881	128.423	511.625	OK	33194.8	1014.68	462.996	1567.23	OK	15092.8	466.057	244.012	687.929	OK	0.180449	1.845867	0.72342	1.133237	3.594689	1.651092
RSp0901		hypothetical protein	1.0141	1.63964	0	3.11618	OK	1.83999	3.11208	0	5.88611	OK	3.33448	3.70961	0	7.17292	OK	5.43952	8.20707	0	16.3953	OK	0.9245	1.177888	2.323488	1.898026	2.262454	5.00541
RSp0902		putative integrase/recombinase protein	852.858	35.6886	14.3531	57.0777	OK	692.757	29.0607	12.1653	45.9765	OK	821.395	33.2724	18.7143	47.839	OK	676.313	27.7671	15.5194	39.9891	OK	-0.29639	-0.10114	-0.36209	-1.22807	-1.07262	-1.28528
RSp0907		putative transmembrane protein	78.0857	22.5931	7.88241	27.5046	OK	106.72	31.3939	10.7335	38.4058	OK	100.035	25.2792	11.0849	32.2621	OK	118.763	32.7343	13.2357	38.5491	OK	0.474602	0.162069	0.534921	1.389535	1.11889	1.448863
RSp0908		hypothetical protein	189.637	15.3041	7.58053	22.8087	OK	182.159	14.771	7.24511	22.2049	OK	220.076	16.8984	9.86063	23.8905	OK	212.141	16.7131	9.46356	23.9567	OK	-0.05115	0.142968	0.127061	-1.03609	1.104175	1.092067
RSp0909		hypothetical protein	98.3677	12.4949	5.67961	18.7716	OK	81.8797	10.479	4.71696	16.1724	OK	92.2541	10.9266	5.79287	15.9541	OK	126.922	15.6448	8.07203	22.6017	OK	-0.25384	-0.19349	0.324344	-1.19238	-1.14353	1.252095
RSp0910		transcription regulator protein	997.874	83.6766	37.0479	130.048	OK	1129.76	95.2061	41.549	148.676	OK	1461.62	116.451	63.19	169.008	OK	1285.54	105.192	56.4953	152.954	OK	0.18623	0.476827	0.330129	1.137786	1.391679	1.257126
RSp0911		hypothetical protein	356.963	22.2758	11.0032	33.3871	OK	349.599	21.8968	10.8953	32.8477	OK	441.263	26.4124	15.537	37.2463	OK	413.403	25.2439	14.5793	35.5436	OK	-0.02476	0.245738	0.180458	-1.01731	1.185699	1.133243
RSp0912		DNA-binding transcriptional activator GcvA	276.849	22.858	11.1437	34.5249	OK	344.999	28.6241	13.8783	43.2758	OK	385.689	30.2734	17.4678	42.9614	OK	329.997	26.5917	15.0399	38.1055	OK	0.324531	0.405352	0.218277	1.252257	1.324412	1.163343
RSp0913		hypothetical protein	144.002	9.57051	4.84004	14.2923	OK	120.52	8.04134	4.04286	12.0147	OK	102.258	6.50697	3.76359	9.21236	OK	116.043	7.54275	4.32532	10.729	OK	-0.25116	-0.55661	-0.34351	-1.19016	-1.47081	-1.26884
RSp0914	***ripG1, gala1***	Type III effector protein GALA1	641.925	22.6647	10.7659	34.5028	OK	666.078	23.5666	10.9605	36.2215	OK	668.008	22.8982	13.4997	32.2456	OK	630.984	21.8768	12.9238	30.8061	OK	0.056297	0.014787	-0.05105	1.039793	1.010302	-1.03602
RSp0917		two component response regulator transcription regulator protein	279.892	29.1669	13.7884	43.6771	OK	202.399	21.2219	10.073	32.2831	OK	181.174	17.7791	10.1813	25.3312	OK	270.163	27.4002	15.2313	39.2593	OK	-0.45878	-0.71415	-0.09015	-1.37438	-1.64052	-1.06448
RSp0918		putative transposase, truncated protein	11.1551	11.258	0	44.4057	OK	9.19997	9.63698	0	34.5675	OK	6.66897	4.98494	0	16.4446	OK	5.43952	5.12639	0	20.7336	OK	-0.2243	-1.1753	-1.13494	-1.16821	-2.2584	-2.19609
RSp0923		hypothetical protein	128.791	35.3752	12.685	43.2592	OK	106.72	29.7808	10.4082	37.242	OK	66.6897	16.0852	7.05907	20.6959	OK	78.873	20.6658	8.34253	25.188	OK	-0.24836	-1.137	-0.77549	-1.18785	-2.19924	-1.71178
RSp0924		Glycoside hydrolase, putative chitinase	27061.3	2525.74	896.474	4154.92	OK	963.236	90.4001	39.6081	140.82	OK	1233.76	108.955	58.5356	159.351	OK	1222.08	111.167	58.6101	163.527	OK	-4.80424	-4.5349	-4.50591	-27.9396	-23.1815	-22.7202
RSp0925		hypothetical protein	833.59	215.295	73.0191	293.33	OK	801.317	210.086	70.0419	282.362	OK	1008.13	230.054	101.867	321.832	OK	877.575	216.559	89.3461	278.859	OK	-0.03533	0.095658	0.008445	-1.02479	1.068552	1.005871
RSp0926		putative outer membrane cation efflux protein	183.552	10.342	0.049349	22.4046	OK	236.439	13.3662	0.197398	27.3889	OK	107.815	5.84241	0	12.0248	OK	204.888	11.3051	1.4605	21.1285	OK	0.370074	-0.82388	0.128459	1.292419	-1.77016	1.093125
RSp0927		putative cation efflux system transmembrane protein	265.694	12.3992	0.375881	24.3905	OK	287.039	13.4323	0.334117	26.5623	OK	260.09	11.7241	3.50207	19.9412	OK	306.426	14.0216	3.00766	25.0501	OK	0.115459	-0.08077	0.177404	1.08332	-1.05758	1.130847
RSp0928		cation efflux system transmembrane protein	529.36	11.4323	2.09486	20.8191	OK	566.718	12.2547	1.7948	22.7053	OK	503.507	10.6225	4.53586	16.7299	OK	739.774	15.7166	6.62846	24.8355	OK	0.100219	-0.10599	0.459173	1.071937	-1.07623	1.374754
RSp0929		putative signal peptide protein	319.442	111.705	35.8405	135.149	OK	325.679	116.117	36.5872	132.909	OK	459.047	137.291	56.7181	168.497	OK	493.183	163.49	61.1377	181.571	OK	0.055885	0.297543	0.549509	1.039497	1.22905	1.463587
RSp0930	***ripS3, skwp3***	Type III effector protein, SKWP family	876.182	8.40437	3.67149	13.1218	OK	2438.91	23.4074	9.95612	36.8461	OK	2171.86	20.4617	11.6604	29.2803	OK	2710.69	25.618	14.654	36.5981	OK	1.477753	1.283714	1.607946	2.785146	2.43465	3.048176
RSp0931		amino-acid-binding periplasmic ABC transporter protein	515.163	48.7176	22.6129	74.7907	OK	450.798	42.8699	20.0155	65.5469	OK	985.896	88.169	48.082	128.269	OK	484.117	44.6128	24.4178	64.5113	OK	-0.18448	0.855828	-0.12699	-1.13641	1.809798	-1.09201
RSp0932		amino-acid ATP-binding ABC transporter protein	238.314	26.7844	12.5297	41.0063	OK	197.799	22.3792	10.5144	33.9967	OK	261.201	27.5472	15.3859	39.6748	OK	194.009	21.1995	11.4098	30.8582	OK	-0.25923	0.040513	-0.33736	-1.19684	1.028479	-1.26344
RSp0933		amino acid ABC transporter transmembrane protein	210.933	23.2208	10.8628	35.0886	OK	141.679	15.6988	7.32809	23.7085	OK	181.174	18.734	10.461	26.8755	OK	185.85	19.8973	10.8012	28.5765	OK	-0.56476	-0.30976	-0.22285	-1.47914	-1.2395	-1.16703
RSp0934		amino acid ABC transporter transmembrane protein	130.819	15.6014	7.2474	23.8522	OK	116.84	14.0329	6.42175	21.1918	OK	125.599	14.0138	7.60207	20.3627	OK	106.071	12.2878	6.42556	17.3762	OK	-0.15286	-0.15483	-0.34445	-1.11177	-1.11329	-1.26967
RSp0935		oxidoreductase protein	562.826	61.3302	27.5393	95.0193	OK	398.359	43.6892	20.0131	67.1378	OK	473.497	48.4878	26.6613	70.1969	OK	469.611	49.7738	26.4926	71.6312	OK	-0.48932	-0.33898	-0.30121	-1.40378	-1.26486	-1.23218
RSp0936		hypothetical protein	206.876	21.454	10.1989	32.6529	OK	192.279	20.0629	9.54089	30.3499	OK	243.417	23.7771	13.469	34.0783	OK	198.542	20.0404	10.9537	28.8042	OK	-0.09672	0.148326	-0.09834	-1.06934	1.108283	-1.07054
RSp0937		putative biotin carboxyl carrier protein of acetyl-COA	51.7191	12.3255	4.62137	15.9512	OK	45.0798	10.8939	3.87599	14.0132	OK	41.1253	8.72655	3.82366	13.2357	OK	42.6095	9.7224	3.97072	13.9711	OK	-0.17813	-0.49816	-0.34226	-1.13141	-1.41241	-1.26774
RSp0938		hypothetical protein	160.228	12.4173	4.66956	20.105	OK	137.999	10.7437	4.28043	17.1866	OK	163.39	12.0646	6.01407	18.1062	OK	172.251	13.0369	6.65386	19.4498	OK	-0.20886	-0.04157	0.070249	-1.15578	-1.02923	1.049898
RSp0939		hypothetical protein	136.904	17.3898	4.31875	30.6123	OK	97.5196	12.4806	2.81557	22.1406	OK	146.717	17.3772	7.34328	27.4781	OK	126.922	15.6448	6.16315	25.1457	OK	-0.47855	-0.00105	-0.15256	-1.39335	-1.00073	-1.11154
RSp0940	***accC2***	acetyl-CoA carboxylase biotin carboxylase subunit	257.581	13.7549	7.01443	20.4313	OK	231.839	12.4194	6.30828	18.5012	OK	210.073	10.8031	6.50177	15.0934	OK	222.114	11.6198	6.91974	16.3009	OK	-0.14735	-0.3485	-0.24336	-1.10753	-1.27324	-1.18375

RSp0941	***accB2***	putative biotin carboxyl carrier protein of acetyl-COA carboxylase (BCCP)	156.171	33.8483	13.1889	45.7401	OK	141.679	31.1013	11.9261	41.3906	OK	94.4771	18.3892	8.72002	25.3296	OK	91.5652	19.0467	8.4432	24.6375	OK	-0.12211	-0.88022	-0.82954	-1.08832	-1.84066	-1.77712
RSp0942	***nac***	nitrogen assimilation transcriptional regulato	1421.77	117.388	50.9328	183.7	OK	1536.39	127.473	55.1032	198.536	OK	1269.33	99.6319	54.4267	144.801	OK	1676.28	135.077	72.569	197.339	OK	0.118907	-0.23661	0.202497	1.085912	-1.17822	1.150688
RSp0943	***aatA2***	aspartate aminotransferase	125.748	7.73474	3.94183	11.5059	OK	97.5196	6.02023	3.03627	9.00229	OK	117.818	6.95389	4.04626	9.82664	OK	83.4059	5.02069	2.83764	7.1992	OK	-0.36153	-0.15353	-0.62347	-1.28479	-1.11229	-1.54057
RSp0944		hypothetical protein	74.0293	9.29338	4.19799	14.3113	OK	50.5998	6.39949	2.86227	9.7317	OK	63.3552	7.42078	3.85896	10.8239	OK	50.7688	6.18591	3.01187	9.31797	OK	-0.53825	-0.32463	-0.58722	-1.45221	-1.25235	-1.50235
RSp0945		2-hydroxyacid dehydrogenase	147.045	11.3546	5.62539	17.0701	OK	114.08	8.84938	4.39685	13.3199	OK	122.264	8.99655	5.16673	12.8211	OK	125.109	9.43522	5.35809	13.459	OK	-0.35963	-0.33583	-0.26715	-1.2831	-1.26211	-1.20343
RSp0946		putative gluconate kinase protein	31.4371	6.54976	1.09386	12.0325	OK	24.8399	5.2392	1.09386	9.29781	OK	50.0173	9.39021	3.23728	15.512	OK	19.0383	3.81053	0.80932	6.74433	OK	-0.3221	0.519715	-0.78145	-1.25015	1.433672	-1.71886
RSp0947	***idnO***	gluconate 5-dehydrogenase oxidoreductase protein	121.692	12.7431	5.44524	20.0008	OK	64.3998	6.78558	2.73953	10.7474	OK	108.926	10.739	5.42244	15.9716	OK	70.7137	7.20636	3.77063	10.7004	OK	-0.90917	-0.24686	-0.82237	-1.87797	-1.18662	-1.76831
RSp0948	***idnD***	putative L-idonate 5-dehydrogenase oxidoreductase protei	198.764	14.6626	7.34233	21.9648	OK	154.559	11.4515	5.66231	17.2358	OK	207.85	14.6332	8.53226	20.6247	OK	147.774	10.6514	6.13832	15.1616	OK	-0.3566	-0.0029	-0.4611	-1.28041	-1.00201	-1.37659
RSp0949	***pntAa2***	NAD(P) transhydrogenase alpha subunit P	107.495	7.14419	3.58732	10.6481	OK	105.8	7.0592	3.53038	10.5342	OK	94.4771	6.01188	3.42655	8.59446	OK	89.752	5.83385	3.3142	8.3136	OK	-0.01727	-0.24895	-0.29232	-1.01204	-1.18835	-1.22461
RSp0950	***pntAb2***	transmembrane NAD(P) transhydrogenase alpha subuni	30.423	11.7608	1.7725	21.467	OK	26.6799	10.5324	1.37861	19.4975	OK	24.4529	7.98944	1.55429	14.3772	OK	28.1042	10.2743	1.74858	18.6515	OK	-0.15915	-0.55782	-0.19495	-1.11663	-1.47204	-1.14468
RSp0951	***pntB2a***	NAD(P) transhydrogenase subunit beta	105.466	9.88658	4.12463	15.5611	OK	100.28	9.45261	4.14755	14.7992	OK	124.487	11.0397	6.03033	15.9626	OK	140.521	12.8377	7.12591	18.5456	OK	-0.06476	0.159158	0.376843	-1.04591	1.116635	1.298498
RSp0954	***pntB2b***	NAD(P) transhydrogenase subunit beta	124.734	18.092	7.97042	27.312	OK	120.52	17.6315	7.75787	26.3555	OK	175.616	23.568	12.5805	33.8626	OK	154.12	21.6427	11.0079	30.4029	OK	-0.0372	0.381477	0.258529	-1.02612	1.302675	1.196258
RSp0955		porin signal peptide protein	233.243	15.8952	7.91195	23.794	OK	275.999	18.8849	9.36636	28.2154	OK	303.438	19.7843	11.7077	27.8345	OK	194.009	12.928	7.51819	18.3077	OK	0.248642	0.315765	-0.29809	1.188088	1.244671	-1.22952
RSp0956		hypothetical protein	496.909	160.896	51.5208	195.707	OK	170.199	56.1228	18.2469	64.9377	OK	122.264	34.1563	14.4711	42.3544	OK	114.23	35.1313	13.4122	39.3543	OK	-1.51947	-2.2359	-2.1953	-2.86686	-4.71058	-4.57985
RSp0957		hypothetical protein	341.752	150.465	42.934	157.635	OK	14.7199	6.63225	1.68369	7.15567	OK	7.78046	2.84906	0.622859	4.15239	OK	15.412	6.39835	1.66096	7.26669	OK	-4.50379	-5.7228	-4.55558	-22.6869	-52.8122	-23.5162
RSp0958		cell morphogenesis/cell wall metabolism regulato	225.13	28.4283	13.0335	43.7965	OK	119.6	15.2157	6.90011	23.4795	OK	103.369	12.1749	6.52333	17.6792	OK	71.6203	8.77705	4.44343	12.8576	OK	-0.90177	-1.22342	-1.69552	-1.86835	-2.33499	-3.23894
RSp0959		anaerobic nitric oxide reductase transcription regulato	3258.3	153.054	68.3499	237.775	OK	3147.31	148.251	67.3417	228.953	OK	3314.48	150.367	85.0403	214.839	OK	3631.78	167.269	93.4118	240.823	OK	-0.046	-0.02555	0.128129	-1.0324	-1.01787	1.092876
RSp0960		putative oxidoreductase protein	3219.77	260.824	32.0996	489.434	OK	2244.79	182.716	27.4562	337.483	OK	3094.4	238.466	77.0744	399.977	OK	2489.48	196.861	59.0173	334.586	OK	-0.51347	-0.12929	-0.4059	-1.42748	-1.09376	-1.32491
RSp0961	***kbl***	2-amino-3-ketobutyrate coenzyme A ligase	6151.53	381.659	76.6231	688.925	OK	4238.42	263.93	60.2158	467.529	OK	5690.85	338.718	144.276	533.297	OK	5444.95	330.583	147.716	513.516	OK	-0.53213	-0.1722	-0.20727	-1.44606	-1.12678	-1.1545
RSp0962		putative transcription regulator protein	738.265	122.848	48.7993	193.438	OK	430.558	72.355	29.7957	108.273	OK	512.399	78.1779	39.9242	109.358	OK	525.82	84.4839	40.7343	121.509	OK	-0.76371	-0.65204	-0.54013	-1.69785	-1.57139	-1.4541
RSp0963	***nrdD***	anaerobic ribonucleoside triphosphate reductase	8918	303.876	95.6913	512.132	OK	3760.95	128.41	45.1309	211.657	OK	2983.25	98.7446	52.7572	144.618	OK	5487.56	183.645	97.5885	269.359	OK	-1.24273	-1.62171	-0.72656	-2.36645	-3.07739	-1.65469
RSp0964		hypothetical protein	801.139	1550.36	2.54693	3057.05	OK	385.479	782.676	3.27463	1403.36	OK	152.275	196.862	1.07681	392.317	OK	314.585	567.848	3.58936	1122.75	OK	-0.98612	-2.97735	-1.44903	-1.98085	-7.87536	-2.73024
RSp0965	***nrdG***	putative ribonucleotide reductase activating transmembran	1633.72	181.713	0.111227	517.872	OK	820.637	91.8794	0.111961	239.821	OK	437.929	45.7301	1.14866	108.809	OK	919.278	99.4241	1.29785	226.043	OK	-0.98385	-1.99045	-0.86999	-1.97773	-3.9736	-1.82766
RSp0966		transcription regulator protein	3832.28	478.295	196.812	756.379	OK	2924.67	367.724	150.934	582.363	OK	1721.71	200.554	104.668	296.481	OK	3940.02	477.324	239.415	701.19	OK	-0.37928	-1.25391	-0.00293	-1.30069	-2.38487	-1.00203
RSp0967		putative lipoprotein	1658.05	413.404	136.929	577.922	OK	1453.59	367.727	119.755	507.694	OK	250.086	55.2826	25.8664	70.036	OK	1566.58	373.54	154.14	493.429	OK	-0.16892	-2.90265	-0.14629	-1.12421	-7.47801	-1.10672
RSp0968		hypothetical protein	1933.89	460.875	28.1754	893.266	OK	1522.59	367.949	27.8773	705.877	OK	287.877	61.0858	10.7357	111.18	OK	1793.23	409.168	49.8547	765.909	OK	-0.32487	-2.91547	-0.17168	-1.25255	-7.54472	-1.12637
RSp0969		hypothetical protein	7826.82	697.166	191.687	1203.39	OK	5802.42	519.573	151.061	888.816	OK	1488.29	125.669	64.5952	187.115	OK	10054.9	873.385	410.072	1337.66	OK	-0.42418	-2.47187	0.325116	-1.34181	-5.54764	1.252765
RSp0970		protease protein	7277.18	546.217	229.634	860.953	OK	5389.34	406.316	175.966	634.539	OK	2267.45	162.333	89.6917	234.88	OK	8705.04	638.314	337.465	936.032	OK	-0.42687	-1.75052	0.224792	-1.34432	-3.36479	1.168609
RSp0971		hypothetical protein	1237.2	75.2376	33.229	116.618	OK	861.117	52.5553	23.8405	80.8573	OK	377.908	22.059	13.0601	30.8552	OK	1162.24	69.1757	38.2959	99.7982	OK	-0.51762	-1.77009	-0.12119	-1.43159	-3.41074	-1.08763
RSp0972	***narK1***	nitrite/nitrate ABC transporter transmembrane protei	341.752	19.1051	9.60624	28.5246	OK	4387.46	246.085	109.786	382.583	OK	217.853	11.7153	7.05907	16.3906	OK	1242.02	67.9995	37.8579	98.15	OK	3.687127	-0.70556	1.831566	12.88059	-1.63078	3.559233
RSp0973	***narK2***	nitrite/nitrate ABC transporter transmembrane protei	438.091	23.0501	11.3375	34.7561	OK	5987.34	316.004	136.004	495.878	OK	311.219	15.7748	9.48849	22.0023	OK	1587.43	81.8329	45.6547	117.804	OK	3.777098	-0.54715	1.827908	13.70944	-1.4612	3.550219
RSp0974	***narG***	respiratory nitrate reductase alpha chain oxidoreductase protein	3070.69	55.3007	19.2445	91.4501	OK	45623.6	822.517	167.859	1476.3	OK	1165.96	20.5456	9.95974	31.1539	OK	10811	191.619	90.7934	292.317	OK	3.894676	-1.42847	1.792871	14.87354	-2.69161	3.465038
RSp0975	***narH***	respiratory nitrate reductase oxidoreductase protein	1066.83	49.5706	1.02223	110.634	OK	17378.7	809.724	3.77402	1942.27	OK	606.876	27.2402	6.77777	47.6688	OK	2996.27	136.514	2.77925	276.285	OK	4.029874	-0.86375	1.461492	16.33476	-1.81976	2.753931
RSp0976	***narJ***	putative respiratory nitrate reductase oxidoreductase protein	309.301	38.3796	17.5897	59.1997	OK	4606.42	575.802	233.394	910.03	OK	135.602	15.7093	8.48954	22.7632	OK	567.523	68.3629	35.2642	98.8891	OK	3.907161	-1.28872	0.832874	15.00281	-2.44311	1.78123
RSp0977	***narI***	respiratory nitrate reductase transmembrane protein	211.947	26.1484	12.0516	40.2035	OK	3917.35	486.832	199.417	772.247	OK	115.595	13.3187	7.24483	19.3195	OK	421.562	50.4936	26.3786	71.9839	OK	4.218629	-0.97327	0.949378	18.61804	-1.96328	1.93104
RSp0978	***mobB1***	molybdopterin-guanine dinucleotide biosynthesis protei	101.41	18.1395	7.64916	26.6487	OK	1397.47	252.63	92.9003	392.575	OK	85.5851	13.9633	6.93736	20.2035	OK	206.702	35.6448	17.1608	46.9793	OK	3.799819	-0.37749	0.974557	13.92707	-1.29908	1.965038
RSp0979	***narX***	putative transmembrane nitrate/nitrite sensor kinase transcription regulator protein	8312.58	305.557	126.447	484.757	OK	5384.74	198.364	86.0362	310.262	OK	3799.09	135.49	76.7756	194.08	OK	9203.66	332.151	181.599	480.935	OK	-0.62329	-1.17326	0.120398	-1.54039	-2.2552	1.087034
RSp0980	***narL***	nitrate/nitrite response regulator transcription regulator protei	3340.45	424.311	173.372	671.83	OK	2775.63	355.227	143.916	562.281	OK	1065.92	126.248	66.0957	184.327	OK	3788.62	466.997	233.044	699.797	OK	-0.25638	-1.74886	0.138291	-1.19448	-3.36093	1.100601
RSp0981		hypothetical protein	557.755	105.012	41.1451	156.914	OK	35.8799	6.83096	2.68337	10.2224	OK	28.8989	4.94339	2.14293	7.68934	OK	28.1042	5.09539	2.14293	7.81539	OK	-3.94232	-4.40891	-4.36522	-15.3729	-21.2429	-20.6092
RSp0982		hypothetical protein	4587.79	1604.3	462.567	1928.3	OK	31.2799	11.1525	3.36005	13.0669	OK	14.4494	4.32149	1.4732	6.26108	OK	26.291	8.71546	2.76224	10.3124	OK	-7.16843	-8.5362	-7.52415	-143.851	-371.238	-184.075
RSp0983		transcription regulator protein	3367.83	415.496	171.642	658.227	OK	264.039	32.8137	14.8763	49.9955	OK	56.6862	6.53128	3.34377	9.65977	OK	134.175	16.0711	8.4523	23.4064	OK	-3.66246	-5.99133	-4.69229	-12.6623	-63.6163	-25.8536
RSp0984	***thiE2***	putative thiamine-phosphate pyrophosphorylase protei	933.986	138.272	55.771	220.064	OK	226.319	33.8005	14.6709	52.4269	OK	158.944	21.7439	11.4932	31.819	OK	150.493	21.5624	10.8546	30.1163	OK	-2.03239	-2.66883	-2.68092	-4.09083	-6.35912	-6.41264
RSp0985		transporter transmembrane protein	324.512	19.5681	9.8434	29.1637	OK	114.08	6.90357	3.50802	10.3146	OK	123.376	7.14256	4.18379	10.0721	OK	98.8179	5.83238	3.35736	8.26427	OK	-1.50309	-1.45399	-1.74635	-2.83449	-2.73965	-3.35508
RSp0986	***gbd2***	putative NAD-dependent 4-hyddoxybutyrate dehydrogenase oxidoreductase protein	453.303	29.5775	14.3487	44.7276	OK	86.4797	5.66449	2.85853	8.46349	OK	54.4632	3.4043	1.87996	4.92107	OK	38.9832	2.48807	1.27174	3.64933	OK	-2.38448	-3.11907	-3.5714	-5.22156	-8.68828	-11.8877
RSp0987		hypothetical protein	24.3384	3.24513	0.399386	6.09064	OK	11.04	1.48366	0.299539	2.59601	OK	11.1149	1.37811	0.196997	2.46246	OK	7.25269	0.937649	0.196997	1.77297	OK	-1.12912	-1.23559	-1.79116	-2.18725	-2.35477	-3.46092
RSp0988		hypothetical protein	113.579	14.0125	6.04524	22.0836	OK	23.9199	2.97267	1.11848	4.84677	OK	55.5747	6.40321	3.34132	9.5631	OK	27.1976	3.25765	1.43733	5.03064	OK	-2.23688	-1.12985	-2.10481	-4.71378	-2.18836	-4.30141
RSp0989		putative Cytochrome C	252.511	36.1371	15.995	54.2989	OK	57.0398	8.23248	3.57783	12.4172	OK	94.4771	12.5203	6.54002	18.1667	OK	88.8454	12.3131	6.12478	17.8553	OK	-2.13408	-1.52921	-1.55329	-4.38958	-2.88628	-2.93485
RSp0992		signal peptide protein	281.92	48.4122	2.87826	93.9031	OK	72.6797	12.6083	1.43913	23.7456	OK	110.038	17.2869	3.66756	30.8785	OK	114.23	18.9278	3.78587	33.9545	OK	-1.941	-1.48569	-1.35486	-3.83971	-2.80051	-2.55773
RSp0993		cytochrome c oxidase subunit transmembrane protei	1215.91	52.5186	17.1908	87.8977	OK	320.159	13.8639	5.54282	22.2146	OK	512.399	21.4111	11.4912	31.2977	OK	534.886	22.6636	12.0757	33.2612	OK	-1.9215	-1.29447	-1.21245	-3.78815	-2.45287	-2.31731
RSp0994	***uvrA2***	excinuclease ABC subunit A	6028.82	68.4041	27.7438	108.946	OK	9271.73	105.269	40.3416	170.291	OK	5651.95	62.9364	34.7911	91.0968	OK	5738.69	64.1382	35.6508	92.6312	OK	0.621926	-0.12019	-0.0929	1.538928	-1.08688	-1.06651
RSp0995	***dctA2***	C4-dicarboxylate transport transmembrane protei	285.976	15.5813	7.90637	23.2399	OK	144.439	7.89507	4.02506	11.7398	OK	151.163	7.9277	4.72705	11.1086	OK	133.268	7.11243	4.15981	10.0214	OK	-0.98079	-0.97484	-1.1314	-1.97355	-1.96543	-2.19071
RSp0996	***ttuC2***	tartrate dehydrogenase oxidoreductase protein	388.4	27.0706	13.2241	40.8585	OK	125.12	8.75651	4.38828	13.1055	OK	242.306	16.1465	9.59409	22.7567	OK	190.383	12.9721	7.54657	18.3692	OK	-1.6283	-0.74551	-1.06131	-3.09148	-1.67656	-2.08683
RSp0997		transcription regulator protein	785.928	66.6853	29.9979	103.419	OK	372.599	31.7736	15.2437	48.3182	OK	367.905	29.6467	17.1073	42.1475	OK	380.766	31.5223	17.7971	45.1826	OK	-1.06954	-1.1695	-1.081	-2.09876	-2.24933	-2.1155
RSp0998		hypothetical protein	856.915	127.743	51.7159	201.876	OK	203.319	30.5782	13.3356	47.0539	OK	345.675	47.5967	25.1346	68.5585	OK	219.394	31.6484	16.0433	43.6379	OK	-2.06267	-1.42431	-2.01304	-4.17758	-2.68386	-4.03632
RSp0999		hypothetical protein	170.369	613.623	43.3549	157.846	OK	10.12	38.6531	2.10461	11.7858	OK	15.5609	33.587	3.32191	13.7029	OK	7.25269	24.1926	1.24572	7.47431	OK	-3.9887	-4.19138	-4.66471	-15.8751	-18.2697	-25.3641
RSp1000	***tek2***	TEK-like secreted protein	28034.8	1173.14	416.619	1929.15	OK	1713.03	71.8606	31.9165	111.651	OK	2215.21	89.7319	51.0568	128.034	OK	1870.29	76.7876	43.0402	110.181	OK	-4.02903	-3.70861	-3.93336	-16.3252	-13.0738	-15.2777
RSp1001		conserved signal peptide protein	5745.89	399.179	172.919	624.376	OK	294.399	20.5366	10.2308	30.5742	OK	376.797	25.0297	14.7599	35.1787	OK	344.503	23.398	13.5347	33.2535	OK	-4.28077	-3.99532	-4.09258	-19.4374	-15.9482	-17.0604
RSp1002	***tek***	TEK secreted protein	129631	5393	1905.97	8876.9	OK	466.438	19.4527	9.60366	29.3006	OK	483.5	19.4735	11.6289	27.3074	OK	330.904	13.5072	8.17366	18.8366	OK	-8.11497	-8.11343	-8.64122	-277.237	-276.94	-399.269
RSp1003	***xpsR***	transcription regulator XpsR transcription regulator protei	32166.2	2729.28	958.673	4469.12	OK	138.919	11.8465	5.73386	17.9008	OK	81.1391	6.5384	3.656	9.38143	OK	132.362	10.9578	6.13932	15.5207	OK	-7.84792	-8.70537	-7.96042	-230.387	-417.423	-249.072
RSp1004		EPS I polysaccharide biosynthesis protein, dTDP-glucose 4,6-dehydratase	26089.8	915.142	324.648	1504.62	OK	162.839	5.7237	2.96541	8.47721	OK	163.39	5.5647	3.40234	7.72682	OK	194.916	6.71396	4.10189	9.3167	OK	-7.3209	-7.36155	-7.09069	-159.886	-164.455	-136.304
RSp1005		hypothetical protein	2488.6	314.248	129.76	495.945	OK	213.439	27.1542	12.3627	41.4965	OK	278.985	32.8592	18.0573	47.5542	OK	245.685	30.1086	15.8829	42.9216	OK	-3.53266	-3.25753	-3.38366	-11.5727	-9.56347	-10.4372
RSp1006		putative eps aminotransferase protein	16952.7	1064.1	405.542	1722.56	OK	1591.59	100.273	43.964	156.449	OK	1872.87	112.74	63.0503	162.038	OK	1542.1	94.7127	52.0339	137.438	OK	-3.40763	-3.23856	-3.48993	-10.612	-9.43853	-11.235
RSp1007		putative acetyl transferase protein	7346.14	973.442	376.964	1569.67	OK	712.077	95.1009	39.9525	150.17	OK	771.377	95.0845	50.0017	138.338	OK	729.802	93.7785	47.2565	134.416	OK	-3.35556	-3.35581	-3.37577	-10.2359	-10.2377	-10.3802
RSp1008		glycosyl transferase transmembrane protei	3999.61	572.388	228.876	915.82	OK	509.678	73.5612	31.2534	115.753	OK	606.876	80.4246	42.043	117.616	OK	576.589	79.9093	39.9668	112.634	OK	-2.95998	-2.83128	-2.84056	-7.78111	-7.11708	-7.16297
RSp1009		glycosyltransferase	11736.2	692.141	0.102713	1816.17	OK	337.639	19.9817	0.513564	39.4931	OK	313.442	17.7576	2.8878	32.6777	OK	320.025	18.4764	4.40769	32.5764	OK	-5.11431	-5.28456	-5.22731	-34.6387	-38.9772	-37.4608
RSp1010		putative EPS I polysaccharide biosynthesis protein, Heparinase II/III-like	23136.7	888.504	12.1168	1914.38	OK	385.479	14.8369	0.490274	29.6616	OK	474.608	17.6703	4.62927	30.6776	OK	382.579	14.4213	3.69651	25.1501	OK	-5.90412	-5.65198	-5.94511	-59.8847	-50.2823	-61.6105
RSp1011		putative EPS I polysaccharide biosynthesis protein	40090.4	1303.97	24.3942	2625.99	OK	656.878	21.4064	2.18341	40.7352	OK	802.499	25.3727	9.58	41.1971	OK	625.544	19.9867	7.31675	32.6538	OK	-5.92872	-5.68349	-6.02773	-60.915	-51.3926	-65.2419
RSp1012		putative EPS I polysaccharide biosynthesis protein, acyl transferase protein	2000.82	367.06	7.78336	725.986	OK	62.5598	11.6021	2.6363	20.4627	OK	92.2541	15.4075	5.82063	24.7687	OK	67.0874	11.8586	3.96298	19.4434	OK	-4.98356	-4.57431	-4.95201	-31.6374	-23.8235	-30.9531
RSp1013		putative EPS I polysaccharide biosynthesis protein, Glycosyl transferase, group 1	9533.55	612.741	163.83	1062.8	OK	150.879	9.73422	3.74196	15.742	OK	180.062	11.0913	5.79014	16.4465	OK	163.185	10.2606	5.4074	15.1533	OK	-5.97607	-5.78778	-5.90009	-62.9471	-55.2452	-59.7179
RSp1014	***epsF***	EPS I polysaccharide export inner membrane transmembran	3249.18	191.095	85.3556	296.695	OK	71.7597	4.23512	2.15182	6.30177	OK	85.5851	4.83577	2.77982	6.87374	OK	59.8347	3.44512	1.92061	4.95314	OK	-5.49574	-5.3044	-5.79359	-45.1215	-39.517	-55.4683
RSp1015	***epsE***	EPS I polysaccharide export inner membrane transmembran	8876.42	497.517	207.056	788.188	OK	105.8	5.94966	2.99654	8.89136	OK	111.149	5.99243	3.53761	8.48057	OK	74.34	4.0806	2.3261	5.86371	OK	-6.38579	-6.37546	-6.92982	-83.6211	-83.0242	-121.923
RSp1016	***wecC***	UDP-N-acetyl-D-mannosamine dehydrogenase	31249.5	1813.05	644.212	2972.12	OK	281.519	16.3894	8.20201	24.5554	OK	397.915	22.1872	13.1359	31.1664	OK	213.048	12.1022	7.14231	17.0317	OK	-6.78951	-6.35255	-7.22701	-110.623	-81.716	-149.812
RSp1017	***epsC***	udp-n-acetylglucosamine 2-epimerase protei	10409.7	685.474	278.958	1090.52	OK	196.879	13.0149	6.55308	19.4333	OK	253.421	15.9819	9.47401	22.459	OK	136.894	8.8169	5.12711	12.4834	OK	-5.71887	-5.42259	-6.28069	-52.6684	-42.8906	-77.7455
RSp1018	***epsB***	EPS I polysaccharide export transmembrane protein	20805.3	639.865	227.088	1051.97	OK	374.439	11.5367	5.85204	17.2421	OK	392.358	11.7392	7.12478	16.3335	OK	278.322	8.41044	5.18165	11.6587	OK	-5.79347	-5.76836	-6.24944	-55.4634	-54.5067	-76.0798
RSp1019	***epsP***	low molecular weight protein-tyrosine- phosphatase	1691.52	394.396	5.5873	781.193	OK	40.4799	9.56807	1.17627	17.9382	OK	26.6759	5.54926	1.01535	10.1535	OK	16.3185	3.64498	0.435148	6.81732	OK	-5.36527	-6.15121	-6.75759	-41.22	-71.0718	-108.203
RSp1020	***epsA***	EPS I polysaccharide export outer membrane transmembran	10464.5	684.878	186.133	1182.64	OK	186.759	12.2703	5.3218	19.3162	OK	162.278	10.1734	5.7676	14.6071	OK	134.175	8.58949	4.86531	12.3553	OK	-5.8026	-6.07297	-6.31713	-55.8159	-67.3205	-79.7344
RSp1021		hypothetical protein	6798.53	801.881	303.176	1299.57	OK	1725.91	204.996	76.8628	332.011	OK	101.146	11.1678	2.42282	19.9209	OK	664.527	76.1496	35.8936	116.116	OK	-1.96779	-6.16597	-3.39648	-3.91169	-71.803	-10.5303

RSp1022	***ripAY***	Type III effector protein	696.687	41.2003	0	133.414	OK	625.598	37.1257	0.712132	81.5984	OK	453.49	25.7608	13.9742	37.5485	OK	351.755	20.3638	5.61553	35.1405	OK	-0.15024	-0.67748	-1.01665	-1.10975	-1.59934	-2.02321
RSp1023	***prhG***	response regulator transcription regulator protei	8472.81	757.851	304.7	1208.58	OK	379.959	34.1656	16.2828	51.696	OK	333.448	28.2685	16.207	39.9053	OK	207.608	18.1074	10.1564	25.8592	OK	-4.4713	-4.74465	-5.38726	-22.1817	-26.809	-41.8531
RSp1024	***ripA5, awr5***	Type III effector protein, AWR family, AWR protein 5	15275.4	276.256	101.436	452.243	OK	5394.86	97.6705	40.9447	154.421	OK	6460.01	114.309	63.7364	164.81	OK	5131.28	91.331	51.0915	131.534	OK	-1.50001	-1.27307	-1.59683	-2.82845	-2.41675	-3.02478
RSp1025		putative amino-acid efflux transmembrane protei	3457.07	481.895	194.029	762.078	OK	1451.75	204.043	80.398	327.165	OK	2221.88	287.258	148.037	423.646	OK	1774.19	239.612	118.104	348.507	OK	-1.23985	-0.74637	-1.00802	-2.36173	-1.67757	-2.01115
RSp1026		signal peptide protein	948.184	65.0304	29.1881	100.901	OK	1095.72	75.4539	33.4581	117.454	OK	915.872	60.0853	33.6989	86.4399	OK	712.577	47.7838	26.659	68.7826	OK	0.214481	-0.1141	-0.44459	1.160287	-1.0823	-1.36093
RSp1027		putative methyl-accepting chemotaxis transducer transmembrane protein	929.93	42.3837	19.4225	65.3006	OK	3205.27	146.481	66.5272	226.487	OK	4584.92	201.946	113.59	290.349	OK	1439.66	64.347	36.2231	92.3326	OK	1.789132	2.252388	0.602363	3.456069	4.764709	1.518202
RSp1028		hypothetical protein	41.5781	4.69762	1.23171	8.09411	OK	9.19997	1.04641	0	2.02353	OK	17.7839	1.88494	0.607543	3.1245	OK	16.3185	1.79239	0.520751	3.03771	OK	-2.16648	-1.31741	-1.39005	-4.48927	-2.49219	-2.62087
RSp1029		putative transmembrane acyl-COA desaturase (fatty acid desaturase) oxidoreductase protein	26.3666	2.21964	0.27789	4.09888	OK	16.5599	1.40103	0.208417	2.63995	OK	15.5609	1.24447	0.342673	2.12457	OK	16.3185	1.34048	0.411208	2.33018	OK	-0.66384	-0.83479	-0.72758	-1.58429	-1.7836	-1.65585
RSp1030		hypothetical protein	55.7755	6.07777	1.63453	10.5699	OK	52.4398	5.75123	2.19346	9.32221	OK	21.1184	2.1626	0.614422	3.78894	OK	23.5712	2.4983	0.741926	4.23957	OK	-0.07967	-1.49078	-1.2826	-1.05678	-2.8104	-2.43276
RSp1031	***ripZ***	Type III effector protein	874.154	14.2703	6.22527	22.3138	OK	1085.6	17.7391	7.55814	27.8804	OK	1327.12	21.2143	12.2361	30.2112	OK	1130.51	18.1674	10.5809	25.7406	OK	0.313917	0.572021	0.348336	1.243078	1.486605	1.273092
RSp1032		hypothetical protein	364.062	25.8784	12.7837	38.9542	OK	287.959	20.5549	10.1305	30.8739	OK	197.846	13.4375	7.97119	18.9167	OK	288.294	20.0301	11.7188	28.3156	OK	-0.33227	-0.94548	-0.36958	-1.25899	-1.92583	-1.29198
RSp1033		hypothetical protein	654.095	441.047	95.0681	370.05	OK	696.437	484.065	100.69	396.628	OK	716.914	379.725	119.248	364.298	OK	511.314	322.851	87.2299	256.395	OK	0.134268	-0.21598	-0.45006	1.097536	-1.16149	-1.3661
RSp1034		signal peptide protein	128.791	73.979	18.6047	63.4469	OK	41.3998	24.4459	5.72453	20.7514	OK	87.8081	40.5091	13.6475	40.0014	OK	83.4059	44.9577	12.9416	37.6484	OK	-1.59752	-0.86887	-0.71855	-3.02623	-1.82623	-1.64552
RSp1035		hypothetical protein	171.383	15.858	5.47934	26.1957	OK	86.4797	8.0458	2.55202	13.5107	OK	76.6931	6.71687	2.96185	10.4405	OK	147.774	13.3278	6.59011	19.9925	OK	-0.9789	-1.23935	-0.25077	-1.97097	-2.36092	-1.18984
RSp1036		hypothetical protein	111.551	11.7963	2.5894	20.8823	OK	81.8797	8.71291	2.5894	14.7847	OK	48.9058	4.86693	1.73043	7.99295	OK	72.5269	7.46297	2.47205	12.525	OK	-0.43711	-1.27725	-0.66051	-1.35389	-2.42377	-1.58064
RSp1037		hypothetical protein	70.987	13.9773	0.3938	30.7164	OK	42.3198	8.43023	0	18.1274	OK	47.7943	8.5197	1.96083	15.1519	OK	61.6478	11.6768	1.89411	21.5929	OK	-0.72944	-0.71421	-0.25944	-1.658	-1.64059	-1.19701
RSp1038		lipoprotein transmembrane	676.405	201.069	65.0825	269.36	OK	353.279	106.812	35.7783	132.209	OK	699.13	180.992	77.6497	238.496	OK	621.011	175.731	69.4142	210.932	OK	-0.91262	-0.15176	-0.19432	-1.88246	-1.11093	-1.14419
RSp1039		putative outer membrane channel lipoprotein transmembran	1244.3	61.8317	27.4742	95.8506	OK	789.357	39.3399	18.1542	60.4698	OK	686.904	32.9259	19.1728	46.6683	OK	621.918	30.2905	17.6477	42.8337	OK	-0.65235	-0.90912	-1.02948	-1.57173	-1.8779	-2.04129
RSp1040		putative cation efflux system transmembrane protei	1959.24	42.6994	12.1281	73.368	OK	1800.43	39.2889	12.0042	66.4464	OK	1660.57	35.3501	16.2854	54.4411	OK	1746.08	37.4337	16.8154	58.0488	OK	-0.12009	-0.2725	-0.18988	-1.08681	-1.2079	-1.14067
RSp1041		cation transporter transmembrane protein	1251.4	81.6524	3.84968	159.99	OK	996.356	65.2621	4.06105	132.639	OK	1097.05	68.5722	21.5022	115.887	OK	1354.44	86.4461	29.3592	143.413	OK	-0.32325	-0.25187	0.082306	-1.25115	-1.19075	1.058709
RSp1042		two-component response regulator transcription regulator protei	336.681	41.5371	11.5809	71.3683	OK	357.879	44.4758	12.1458	76.7351	OK	345.675	39.828	19.3195	60.2807	OK	426.095	51.0365	22.106	79.3216	OK	0.09862	-0.06062	0.297129	1.070749	-1.04291	1.228697
RSp1043		two-component sensor histidine kinase transcription regulato	392.457	20.3991	4.52208	36.2806	OK	432.398	22.5443	4.95308	40.1982	OK	216.741	10.8561	3.85676	17.8814	OK	420.656	21.4243	8.811	34.1235	OK	0.144257	-0.91	0.070743	1.105162	-1.87904	1.050257
RSp1044	***cnrT***	cobalt-nickel-resistance system transmembrane protei	298.145	21.4055	10.6423	31.866	OK	294.399	21.2264	10.5207	31.866	OK	184.508	12.6533	7.43902	17.8176	OK	300.987	21.1198	12.2984	29.876	OK	-0.01212	-0.75847	-0.01939	-1.00844	-1.69169	-1.01353
RSp1045		hypothetical protein	53.7473	12.2663	0.145047	24.3679	OK	45.9998	10.6396	0.145047	21.0319	OK	16.6724	3.40146	0	6.86828	OK	40.7964	8.92428	0.858535	16.8845	OK	-0.20526	-1.85047	-0.45889	-1.15289	-3.60619	-1.37449
RSp1046		amino acid transporter transmembrane protei	482.712	25.586	10.6009	40.7076	OK	406.638	21.6213	9.09221	34.1888	OK	325.668	16.6266	9.59813	23.6379	OK	375.327	19.4906	10.9572	28.0421	OK	-0.2429	-0.62186	-0.39258	-1.18337	-1.53886	-1.31274
RSp1047		transporter transmembrane protein	7769.02	336.244	140.55	530.352	OK	35001.3	1518.73	529.923	2503.87	OK	26992.7	1130.15	547.257	1712.77	OK	17401.9	738.814	381.921	1094.86	OK	2.175285	1.748934	1.135703	4.51675	3.361101	2.197256
RSp1048		putative formate dehydrogenase oxidoreductase protei	10207.9	301.836	102.464	501.309	OK	23867.5	706.965	209.111	1204.6	OK	15404.2	443.351	217.664	668.765	OK	17585	510.976	247.936	773.701	OK	1.227874	0.554684	0.759491	2.342216	1.468847	1.692893
RSp1049		hypothetical protein	342.766	237.916	0	475.119	OK	734.157	525.542	0	1047.74	OK	615.768	334.368	0	667.464	OK	499.529	324.577	0	648.328	OK	1.143354	0.490984	0.448108	2.208939	1.405404	1.36425
RSp1050	***fdhD***	formate dehydrogenase associated protein	1094.21	106.769	0	356.739	OK	2238.35	219.674	0	838.811	OK	1245.99	114.823	0	342.354	OK	1382.54	131.408	0	397.777	OK	1.040871	0.104919	0.29956	2.05747	1.075434	1.230769
RSp1051		hypothetical protein	1994.73	89.5832	40.069	139.051	OK	1774.67	79.9119	35.3479	124.242	OK	1642.79	71.3194	40.4437	101.985	OK	1950.97	85.9312	48.405	123.401	OK	-0.16482	-0.32893	-0.06005	-1.12102	-1.25608	-1.0425
RSp1052	***kup1***	potassium uptake transmembrane protei	4799.74	183.992	80.5886	287.112	OK	1868.51	71.7894	31.8509	111.461	OK	1258.21	46.7626	26.7992	66.5668	OK	2028.94	76.3448	43.2856	109.301	OK	-1.3578	-1.97622	-1.26904	-2.56294	-3.9346	-2.41001
RSp1053	***cspD2***	cold shock-like transcription regulator protei	3340.45	3992.51	575.505	2364.53	OK	2369.91	2948.32	408.82	1681.37	OK	2004.03	1728.82	407.038	1303.02	OK	1979.08	2208.06	401.432	1287.14	OK	-0.4374	-1.20751	-0.85452	-1.35416	-2.30938	-1.80815
RSp1054		hypothetical protein	1518.11	1735.69	254.182	1075.22	OK	637.558	758.17	112.935	438.673	OK	456.824	379.572	94.837	279.293	OK	724.362	773.147	147.013	451.473	OK	-1.19492	-2.19306	-1.16669	-2.28932	-4.57276	-2.24497
RSp1055		transmembrane aldehyde dehydrogenase oxidoreductase protei	3959.05	190.557	85.868	295.257	OK	3374.55	162.886	73.5889	251.851	OK	4106.97	190.816	107.072	273.016	OK	4760.48	224.627	124.776	324.308	OK	-0.22636	0.00196	0.237309	-1.16988	1.001359	1.178792
RSp1056		beta alanine--pyruvate transaminase	2469.33	135.227	61.128	209.279	OK	2081.95	114.382	51.0202	177.319	OK	2439.73	128.588	72.6957	184.327	OK	3730.6	200.108	111.062	289.121	OK	-0.24152	-0.07263	0.565396	-1.18224	-1.05163	1.479793
RSp1057		putative transcription regulator protei	360.006	18.4885	9.32359	27.6524	OK	433.318	22.3212	11.0519	33.6104	OK	367.905	18.2122	10.9924	25.4396	OK	447.853	22.5384	13.2357	31.7658	OK	0.271786	-0.02172	0.285757	1.207302	-1.01517	1.21905
RSp1058	***adc***	acetoacetate decarboxylase	1443.06	159.68	66.3053	253.016	OK	80.9597	9.0173	4.24146	13.7631	OK	122.264	12.7046	7.00214	18.3593	OK	105.164	11.3162	5.97744	16.3099	OK	-4.14634	-3.65176	-3.81872	-17.7082	-12.5687	-14.1107
RSp1059		3-hydroxybutyrate dehydrogenase	2674.18	275.991	117.495	434.01	OK	201.479	20.9211	9.99608	31.7089	OK	294.546	28.6393	16.2466	40.9803	OK	238.432	23.9526	13.1751	34.5948	OK	-3.72159	-3.26855	-3.52637	-13.192	-9.63679	-11.5224
RSp1060		putative transmembrane protein	2826.3	187.258	84.1075	290.145	OK	823.397	54.7687	24.988	84.505	OK	935.879	59.3745	33.3905	84.9889	OK	912.025	59.0999	32.7742	84.5967	OK	-1.7736	-1.65711	-1.6638	-3.41907	-3.15385	-3.1685
RSp1061		oxidoreductase protein	1191.57	77.5128	34.213	120.808	OK	1410.35	92.0984	40.3624	143.84	OK	1273.77	79.3845	44.4501	114.213	OK	1003.59	63.8609	35.4056	92.0436	OK	0.248742	0.034423	-0.2795	1.18817	1.024147	-1.21378
RSp1062		ferrisiderophore receptor protein	454.317	15.1913	7.43326	22.9166	OK	4740.74	158.832	69.4593	248.135	OK	29580.2	961.069	451.811	1469.93	OK	1747.9	57.4058	32.709	82.1225	OK	3.386184	5.983323	1.917951	10.45546	63.26443	3.77886
RSp1063		signal peptide protein	48.6768	10.4449	2.23034	18.5397	OK	104.88	22.7908	4.87886	40.5643	OK	451.267	87.0353	29.5656	144.115	OK	54.3952	11.2048	2.75029	19.527	OK	1.125653	3.058802	0.101318	2.182003	8.332804	1.072753
RSp1064		hypothetical protein	57.8037	16.2901	3.46775	28.8979	OK	126.04	36.1001	7.92628	62.9148	OK	471.274	116.318	37.4674	194.342	OK	103.351	27.7651	8.63378	44.7979	OK	1.148007	2.836007	0.769277	2.216076	7.14041	1.704416
RSp1065		signal peptide protein	81.128	12.9963	3.36409	22.7477	OK	116.84	18.8955	1.94066	35.9023	OK	305.661	45.0139	6.03796	84.5314	OK	127.829	19.7877	7.89472	31.5789	OK	0.539942	1.79227	0.606503	1.453914	3.463593	1.522564
RSp1071		putative hemagglutinin-related protei	140.96	3.80626	1.86317	5.75152	OK	174.799	4.72754	2.27182	7.1941	OK	101.146	2.66151	1.49987	3.84178	OK	135.081	3.58564	2.097	5.06997	OK	0.312716	-0.51613	-0.08614	1.242043	-1.43011	-1.06153
RSp1073		hemagglutinin-related protei	5750.96	37.7656	14.4901	61.0611	OK	7936.81	52.1399	18.8054	85.4481	OK	1419.38	9.16752	5.12382	13.2111	OK	3054.29	19.7693	10.6555	28.8884	OK	0.465315	-2.04247	-0.93381	1.380619	-4.1195	-1.91032
RSp1074		putative hemolysin activating-like protei	227.158	36.6631	0	159.785	OK	319.239	52.0197	0	229.921	OK	46.6828	6.92299	0	24.6176	OK	106.071	16.5405	0	61.4397	OK	0.504729	-2.40486	-1.14833	1.418857	-5.29585	-2.21657
RSp1075		activation/secretion protein	1562.73	63.899	28.2519	99.4378	OK	2418.67	99.1369	44.8619	153.532	OK	140.048	5.54567	3.36494	7.71742	OK	754.279	30.2641	17.4465	43.0128	OK	0.633629	-3.52636	-1.07819	1.551462	-11.5223	-2.11138
RSp1076		putative glucose-fructose oxidoreductase oxidoreductase protein	417.809	27.0968	13.3263	40.8152	OK	444.358	28.9293	14.1069	43.7146	OK	256.755	15.9546	9.46098	22.4423	OK	301.893	19.1527	11.2212	27.1178	OK	0.094409	-0.76415	-0.50057	1.067628	-1.69837	-1.41478
RSp1077		hypothetical protein	1597.21	747.316	186.264	787.991	OK	1208.88	579.418	142.246	595.872	OK	1592.77	615.028	222.468	709.115	OK	1112.38	490.16	155.299	491.782	OK	-0.36711	-0.28107	-0.60847	-1.28977	-1.21509	-1.52464
RSp1078		putative lipoprotein	2814.13	309.796	130.871	485.809	OK	3311.99	366.986	153.028	580.299	OK	1729.49	178.835	94.6595	261.526	OK	1498.59	160.44	82.5826	238.052	OK	0.244407	-0.79269	-0.94928	1.184605	-1.7323	-1.93091
RSp1079		sigma-54 interacting transcription regulator protei	1096.24	56.8428	25.5494	88.1615	OK	158.239	8.23025	4.17414	12.2472	OK	181.174	9.05319	5.4753	12.6249	OK	143.241	7.27783	4.29879	10.2266	OK	-2.78797	-2.65048	-2.9654	-6.90657	-6.27876	-7.81041
RSp1080		hypothetical protein	831.562	36.5801	17.031	56.1627	OK	214.359	9.45409	4.79245	14.1001	OK	300.104	12.7669	7.73632	17.7388	OK	291.014	12.5566	7.6191	17.4653	OK	-1.95205	-1.51865	-1.54261	-3.86924	-2.86523	-2.91322
RSp1081		signal peptide protein	203.834	77.44	1.17093	152.611	OK	33.1199	12.846	0.975773	24.5895	OK	38.9023	12.5177	2.31024	22.7174	OK	28.1042	10.1015	1.34764	18.6744	OK	-2.59176	-2.62911	-2.93851	-6.02834	-6.18644	-7.66619
RSp1082		lipoprotein transmembrane	1121.59	95.544	27.9913	162.826	OK	101.2	8.66429	2.8763	14.5218	OK	78.9161	6.38356	2.35302	10.381	OK	90.6586	7.53476	3.1835	11.8343	OK	-3.46301	-3.90373	-3.66453	-11.0273	-14.9672	-12.6804
RSp1083		putative tight adherence TadC related transmembrane protei	695.673	54.7029	3.30259	111.659	OK	105.8	8.3581	1.97498	14.6939	OK	140.048	10.4873	4.86744	16.1749	OK	115.136	8.84055	3.83916	13.8978	OK	-2.71037	-2.38297	-2.62941	-6.5449	-5.21611	-6.18773
RSp1084		pilus assembly transmembrane protei	674.377	56.7715	0	130.678	OK	54.2798	4.59226	0.972615	8.19775	OK	67.8012	5.42233	1.85043	8.97804	OK	44.4227	3.64907	0.89095	6.44225	OK	-3.62789	-3.38818	-3.95957	-12.3624	-10.4699	-15.5578
RSp1085	***cpaF2***	secretion ATPase protein	2375.02	128.424	26.4173	230.52	OK	68.0797	3.69303	0.904375	6.47342	OK	85.5851	4.45538	1.78433	7.09037	OK	93.3783	4.94614	2.06607	7.79471	OK	-5.11997	-4.84922	-4.69847	-34.7747	-28.8245	-25.9645
RSp1086	***cpaE2***	pilus assembly protein	2088.03	116.123	3.28121	230.352	OK	71.7597	4.00395	0.83695	7.19777	OK	84.4736	4.51973	1.55163	7.49065	OK	101.538	5.53049	2.23316	8.87819	OK	-4.85809	-4.68327	-4.3921	-29.0021	-25.6925	-20.9969
RSp1087		outer membrane channel signal peptide protei	2280.71	122.094	35.6211	208.489	OK	115	6.17581	2.87799	9.43604	OK	107.815	5.55797	3.21149	7.86582	OK	112.417	5.89559	3.1184	8.65705	OK	-4.30522	-4.45729	-4.37221	-19.7697	-21.9674	-20.7094
RSp1088		hypothetical protein	140.96	57.5072	0	133.257	OK	3.67999	1.53447	0	3.44282	OK	3.33448	1.14224	0	2.39742	OK	1.81317	0.698674	0	1.99785	OK	-5.22793	-5.6538	-6.36298	-37.4769	-50.346	-82.3091
RSp1089		signal peptide protein	1646.9	228.087	12.603	452.324	OK	37.7199	5.26702	0	10.6123	OK	17.7839	2.28526	0	4.75456	OK	59.8347	8.02973	2.68397	13.4199	OK	-5.43645	-6.64108	-4.82809	-43.3048	-99.8079	-28.4053
RSp1090		hypothetical protein	1748.31	341.118	123.304	520.182	OK	28.5199	5.6291	2.09434	7.98468	OK	18.8954	3.34014	1.29129	5.2943	OK	53.4886	10.0415	4.39039	13.3003	OK	-5.92122	-6.67422	-5.08622	-60.599	-102.127	-33.9708
RSp1091	***cpaA2***	prepilin peptidase transmembrane protei	10001.1	1866.61	643.121	2957.62	OK	115	21.7019	8.76463	30.1046	OK	101.146	17.1632	8.39569	24.6858	OK	228.46	41.069	19.5482	55.6371	OK	-6.42646	-6.76496	-5.50623	-86.0114	-108.757	-45.4506
RSp1092		putative pilin protein	5318.95	10293.2	1035.15	4759.85	OK	74.5197	151.305	16.3731	58.2156	OK	81.1391	104.897	19.3825	58.5065	OK	102.444	184.919	24.4076	71.4282	OK	-6.08809	-6.61657	-5.79865	-68.0295	-98.1267	-55.6633
RSp1093		hypothetical transmembrane protei	209.919	15.021	7.51951	22.4979	OK	32.1999	2.31386	1.09154	3.51719	OK	36.6793	2.5073	1.3161	3.64918	OK	31.7305	2.21913	1.13663	3.29024	OK	-2.69861	-2.58277	-2.75891	-6.49175	-5.99091	-6.76887
RSp1094		hypothetical transmembrane protei	628.742	33.2442	15.8202	50.6808	OK	81.8797	4.34285	2.19337	6.48677	OK	102.258	5.20809	3.03847	7.36598	OK	71.6203	3.71012	2.11772	5.2943	OK	-2.93639	-2.67428	-3.16356	-7.65493	-6.38318	-8.96041
RSp1095		activation/secretion signal peptide protein	7264	309.396	129.918	487.739	OK	6496.1	277.385	117.722	435.765	OK	4020.28	165.703	93.7793	237.01	OK	4271.83	178.502	99.7378	257.352	OK	-0.15756	-0.90085	-0.79351	-1.1154	-1.86717	-1.73329
RSp1096		putative transcription regulator protein	7581.41	497.704	210.162	785.377	OK	9123.61	601.273	246.955	955.028	OK	7183.59	451.686	246.623	657.049	OK	8450.29	542.604	289.978	794.84	OK	0.272732	-0.13997	0.124612	1.208094	-1.10188	1.090214
RSp1097		hypothetical protein	1981.55	66.2583	29.147	103.325	OK	3459.19	115.895	51.8169	179.909	OK	1825.07	59.2972	33.9261	84.6479	OK	2673.52	87.8059	50.0829	125.451	OK	0.806645	-0.16014	0.406217	1.749139	-1.11739	1.325206
RSp1098		putative HNS-like transcription regulator protei	1883.18	813.067	212.169	888.275	OK	4614.7	2038.29	519.585	2165.04	OK	15552	5598.36	1977.5	6496.47	OK	7212.8	2937.67	952.357	3154.58	OK	1.325913	2.783558	1.853226	2.506915	6.885484	3.613072
RSp1099		putative methyl-accepting chemotaxis transducer transmembrane protein	240.342	11.2161	5.76351	16.6641	OK	853.757	39.9524	18.4599	61.4775	OK	816.949	36.8256	21.3008	52.2426	OK	514.941	23.5628	13.9259	33.1254	OK	1.832711	1.715138	1.07094	3.562058	3.28328	2.100802
RSp1100		putative lipoprotein transmembrane	2944.95	148.75	67.4037	229.19	OK	3076.47	155.858	70.4064	241.201	OK	1609.44	78.3888	44.2555	112.208	OK	1656.33	81.9918	45.9797	118.044	OK	0.067343	-0.92417	-0.85934	1.047785	-1.89759	-1.81421
RSp1101	***galE***	UDP-glucose 4-epimerase protein	1722.96	128.425	56.241	199.292	OK	1824.35	136.583	59.9444	212.724	OK	1158.18	82.3602	45.6362	118.642	OK	1531.22	111.508	60.1878	162.606	OK	0.088852	-0.64091	-0.20378	1.063523	-1.55931	-1.15171
RSp1102		integrase/recombinase protein	891.394	70.8719	31.803	109.853	OK	1039.6	83.0442	36.8384	128.802	OK	543.521	41.1373	23.5302	58.7602	OK	765.158	59.3974	32.6809	85.4278	OK	0.228666	-0.78477	-0.25481	1.171751	-1.72281	-1.19318
RSp1103		hypothetical protein	97.3536	215.287	22.2202	78.3357	OK	95.6796	222.488	21.8436	76.8292	OK	56.6862	81.8857	13.7466	40.4967	OK	38.9832	80.3598	8.91672	31.2085	OK	0.047466	-1.39458	-1.42172	1.033448	-2.62912	-2.67904
RSp1104	***otsB***	trehalose-phosphatase protein	181.524	18.6447	4.08118	33.1392	OK	67.1598	6.94013	1.30598	12.57	OK	73.3587	7.1002	2.09356	12.0783	OK	59.8347	5.98254	1.93252	9.98469	OK	-1.42573	-1.39283	-1.63994	-2.68651	-2.62594	-3.11652
RSp1105	***otsA***	alpha,alpha-trehalose-phosphate synthase	374.203	19.4975	6.46091	32.5651	OK	187.679	9.809	3.81532	15.8362	OK	244.529	12.277	6.72768	17.8736	OK	177.691	9.07172	4.85007	13.3249	OK	-0.99111	-0.66733	-1.10384	-1.98772	-1.58813	-2.14926
RSp1106		putative transcription regulator protei	400.57	85.9532	32.8975	119.741	OK	276.919	60.1757	23.1397	83.777	OK	247.863	47.8051	23.2399	66.1444	OK	300.08	61.8134	28.1904	80.7209	OK	-0.51437	-0.84639	-0.47563	-1.42837	-1.79799	-1.39053
RSp1107	***ohr***	organic hydroperoxide resistance protein	343.78	83.7792	30.9911	118.22	OK	201.479	49.8038	18.4435	65.0057	OK	417.922	90.4941	42.0561	124.379	OK	209.421	48.8362	21.3263	58.3119	OK	-0.75034	0.111232	-0.77864	-1.68218	1.08015	-1.71551
RSp1108		lipase signal peptide protein	764.631	57.3924	26.0129	88.4566	OK	512.438	38.634	18.1838	58.7817	OK	979.227	70.1055	39.0532	100.779	OK	494.996	36.2966	20.4921	51.635	OK	-0.57099	0.288668	-0.66103	-1.48554	1.221512	-1.58121

RSp1109		hypothetical protein	1184.47	124.641	52.669	196.448	OK	536.358	56.793	25.4609	87.9481	OK	513.511	50.8637	28.2363	73.4635	OK	576.589	59.0437	31.6016	85.94	OK	-1.13399	-1.29307	-1.07792	-2.19465	-2.45049	-2.111
RSp1110		transcription regulator protein	19190.8	1572.39	581.783	2555.46	OK	1753.51	144.371	62.4988	225.336	OK	1554.98	121.155	66.0112	176.052	OK	1668.12	133.404	71.8416	194.884	OK	-3.44511	-3.69803	-3.55909	-10.8913	-12.9783	-11.7867
RSp1111		lipase protein	20411.8	1441.37	534.936	2347.04	OK	381.799	27.0733	13.192	40.8952	OK	314.553	21.2279	12.4815	29.932	OK	388.019	26.783	15.4392	38.0953	OK	-5.73443	-6.08534	-5.74998	-53.2395	-67.8998	-53.8166
RSp1112		transmembrane multidrug efflux system transmembrane protei	21201.8	1182.17	437.506	1925.09	OK	531.758	29.7476	14.2787	44.9878	OK	267.87	14.3686	8.63489	20.0677	OK	246.591	13.4658	8.00778	18.9099	OK	-5.31252	-6.36237	-6.45599	-39.74	-82.2745	-87.7906
RSp1113		transmembrane multidrug-efflux system lipoprotei	51287.1	1083.64	350.153	1817.43	OK	1195.08	25.2821	10.9341	39.6237	OK	1145.95	23.6576	13.6959	33.6064	OK	993.618	20.6537	12.0334	29.272	OK	-5.42163	-5.51744	-5.71334	-42.8619	-45.8052	-52.4671
RSp1114		putative outer-membrane drug efflux protei	16651.5	785.619	296.995	1274.1	OK	378.119	17.8894	8.98324	26.7389	OK	320.11	14.5848	8.86197	20.3035	OK	263.816	12.2037	7.32257	17.0583	OK	-5.45665	-5.75129	-6.00844	-43.9153	-53.8656	-64.3755
RSp1115		putative transcription regulator protein	961.367	95.1036	41.4289	148.526	OK	1118.72	111.319	47.5284	174.905	OK	1483.85	138.552	74.1593	202.863	OK	1602.84	154.427	81.1923	226.619	OK	0.227128	0.542856	0.699353	1.170502	1.456853	1.623777
RSp1116		putative low specificity L-threonine aldolase protei	509.078	35.0266	16.7748	53.2569	OK	424.118	29.2999	14.3113	44.283	OK	371.239	24.4306	14.4074	34.3696	OK	408.87	27.5051	15.7961	39.1142	OK	-0.25756	-0.51976	-0.34875	-1.19545	-1.43372	-1.27346
RSp1117		putative transmembrane protein	681.475	85.0527	36.2849	133.741	OK	644.918	81.0867	34.8601	125.857	OK	819.172	95.4217	50.3193	139.432	OK	765.158	92.6971	47.227	135.309	OK	-0.06889	0.16596	0.124167	-1.04891	1.121913	1.089878
RSp1118		hypothetical protein	269.751	70.5123	25.4131	92.024	OK	275.999	73.2473	25.8867	94.5495	OK	355.678	82.0498	37.683	109.312	OK	348.129	86.9193	36.9044	100.747	OK	0.054901	0.218625	0.301802	1.038788	1.163624	1.232683
RSp1119		hypothetical protein	400.57	78.8722	31.081	113.13	OK	347.759	69.2745	27.2618	104.438	OK	305.661	54.4864	27.1536	77.823	OK	471.425	89.2931	40.9253	122.386	OK	-0.18719	-0.53362	0.179032	-1.13855	-1.44756	1.132124
RSp1120		hypothetical protein	114.593	21.96	8.92303	30.5193	OK	58.8798	11.4119	4.52617	15.6476	OK	78.9161	13.7209	6.63382	20.029	OK	79.7796	14.7163	6.63382	20.2842	OK	-0.94434	-0.6785	-0.57746	-1.92431	-1.60048	-1.49222
RSp1121		putative transcription regulator protein	721.025	107.485	44.0182	170.543	OK	401.119	60.3262	25.5869	93.3489	OK	356.79	49.1272	25.8832	70.8046	OK	328.184	47.3419	23.958	65.029	OK	-0.83328	-1.12954	-1.18295	-1.78173	-2.18789	-2.2704
RSp1122		hypothetical protein	3047.37	211.707	95.0935	327.446	OK	946.677	66.038	29.628	102.249	OK	761.374	50.5763	28.4696	72.4575	OK	608.319	41.3159	23.3941	59.0978	OK	-1.6807	-2.06554	-2.3573	-3.20584	-4.18589	-5.1241
RSp1123		putative oxidoreductase protein	2650.86	224.923	98.8041	351.024	OK	446.198	38.0499	17.9707	58.0378	OK	312.33	25.1684	14.624	35.6632	OK	262.003	21.6903	12.2786	30.8346	OK	-2.56347	-3.15975	-3.37431	-5.91126	-8.93672	-10.3698
RSp1124		putative NADP-dependent zinc-type alcohol dehydrogenase oxidoreductase protein	12604.2	895.939	353.422	1438.05	OK	684.477	48.859	22.3112	75.1948	OK	776.935	52.7686	30.1002	75.3694	OK	554.831	38.5484	21.891	55.2035	OK	-4.1967	-4.08565	-4.53866	-18.3372	-16.9786	-23.2419
RSp1125		hypothetical protein	27.3807	151.529	6.85117	29.6884	OK	0.919997	5.44105	0	2.28372	OK	3.33448	10.1879	0.450579	6.3081	OK	5.43952	27.4864	0.901157	7.65984	OK	-4.79957	-3.89467	-2.4628	-27.8492	-14.8734	-5.51287
RSp1126		transcription regulator protein	802.153	63.7766	28.7552	98.6554	OK	705.637	56.3672	25.7074	86.7293	OK	714.691	54.0926	30.2625	77.8458	OK	896.613	69.602	38.2366	100.853	OK	-0.17817	-0.2376	0.126102	-1.13145	-1.17903	1.091341
RSp1127		transmembrane ABC transporter protein	196.735	23.5937	5.71225	41.4599	OK	199.639	24.1124	7.27851	40.9071	OK	245.64	27.5527	8.54359	46.4444	OK	260.19	30.3077	12.6336	47.8986	OK	0.031374	0.223792	0.361283	1.021985	1.167799	1.284567
RSp1128	***arsC***	putative arsenate reductase (arsenical PUMP modifier) protei	344.794	66.6687	20.3026	113.115	OK	241.039	47.1423	13.2994	81.3611	OK	637.998	111.845	55.3968	168.645	OK	359.008	66.8052	29.9593	103.648	OK	-0.49999	0.746419	0.002951	-1.4142	1.677624	1.002047
RSp1129	***arsR***	putative arsenical resistance operon repressor transcription regulator protein	180.51	71.024	21.8645	76.5259	OK	201.479	80.978	24.2498	85.4704	OK	275.651	91.4716	36.864	99.8074	OK	166.812	62.0439	22.3537	61.7668	OK	0.189223	0.365017	-0.19502	1.14015	1.287897	-1.14474
RSp1130	***ripN***	Type III effector protein	414.767	21.1491	10.4849	31.8163	OK	765.437	39.1475	18.1227	60.1076	OK	1382.7	67.9704	38.3419	97.638	OK	1096.06	54.7694	30.8518	78.4671	OK	0.888324	1.68431	1.372774	1.851024	3.213867	2.58968
RSp1132		hypothetical protein	1171.29	180.887	70.741	287.635	OK	623.758	97.2147	39.5972	153.495	OK	360.124	51.2525	26.9927	72.7486	OK	381.673	56.9991	28.5289	82.624	OK	-0.89584	-1.81939	-1.66608	-1.8607	-3.52933	-3.17351
RSp1136	***tISRso18***	ISRSO18-transposase protein	4087.84	327.436	144.136	509.874	OK	4773.86	384.201	166.803	599.076	OK	3864.67	294.609	160.67	427.49	OK	4721.5	369.226	196.711	540.939	OK	0.230648	-0.15241	0.173291	1.173362	-1.11143	1.127628
RSp1137		putative RHS-related transmembrane protei	5119.18	75.0637	31.4086	118.761	OK	2357.95	34.6051	14.8346	54.3746	OK	505.73	7.26689	4.36658	10.1561	OK	1413.37	20.4057	11.6907	29.1291	OK	-1.11713	-3.36871	-1.87914	-2.16915	-10.3295	-3.67857
RSp1138		hypothetical protein	796.069	189.715	66.1899	266.399	OK	476.558	115.165	41.4432	163.388	OK	62.2437	13.2077	5.88256	17.6477	OK	250.218	57.0933	25.1479	68.0906	OK	-0.72013	-3.84438	-1.73244	-1.64733	-14.364	-3.32289
RSp1139		Vgr-related protein	7345.13	223.023	92.2432	353.684	OK	4956.94	150.78	65.2473	235.657	OK	564.639	16.6817	9.96247	23.3478	OK	2750.58	82.0643	46.8904	117.101	OK	-0.56475	-3.74085	-1.44237	-1.47913	-13.3693	-2.71766
RSp1140		substrate-binding periplasmic (PBP) ABC transporter protei	2406.46	210.853	91.9706	328.467	OK	3790.39	333.837	144.669	522.387	OK	2530.87	210.348	114.739	304.059	OK	1948.25	166.496	88.4626	243.502	OK	0.662906	-0.00346	-0.34075	1.583269	-1.0024	-1.26641
RSp1141		transcription regulator protein	611.502	105.855	42.0898	163.173	OK	241.039	42.1554	17.4872	62.4714	OK	203.404	32.1934	16.5373	45.2097	OK	226.646	37.8513	18.3218	52.3481	OK	-1.3283	-1.71725	-1.48367	-2.51107	-3.2881	-2.7966
RSp1142		putative transcription regulator protein	1376.13	97.4959	42.6333	152.374	OK	344.999	24.5449	12.0865	36.981	OK	238.971	16.1788	9.5505	22.7788	OK	377.14	26.1172	15.0673	37.1342	OK	-1.98992	-2.59124	-1.90034	-3.97214	-6.02615	-3.73302
RSp1143	***glsA***	glutaminase	408.682	34.9526	16.6809	52.9285	OK	559.358	48.0816	22.2412	73.4101	OK	340.117	27.6177	16.0391	39.1605	OK	287.388	23.9793	13.609	34.0224	OK	0.460085	-0.33981	-0.54361	1.375623	-1.26559	-1.45762
RSp1144		hypothetical protein	2015.02	205.005	67.2362	342.581	OK	2495.03	255.372	82.7897	428.044	OK	1951.78	187.197	89.1041	285.133	OK	2387.95	236.524	110.521	362.41	OK	0.316941	-0.1311	0.206327	1.245687	-1.09513	1.153747
RSp1145		ABC transporter ATP-binding protein	1314.27	146.944	7.15559	287.454	OK	1732.35	194.973	11.705	380.075	OK	1112.61	116.758	32.2169	201.906	OK	1457.79	158.476	44.0275	273.079	OK	0.408008	-0.33175	0.108998	1.326852	-1.25853	1.078479
RSp1146		transcription regulator protein	1485.66	130.173	56.0009	203.757	OK	1336.76	117.734	50.5444	184.3	OK	1357.14	112.795	61.336	164.176	OK	1227.52	104.903	55.8115	153.057	OK	-0.1449	-0.20673	-0.31137	-1.10565	-1.15407	-1.24089
RSp1147		putative transmemembrane reductase oxidoreductase protei	440.119	60.9542	26.6026	93.2633	OK	585.118	81.703	34.4088	126.029	OK	805.834	103.551	53.8043	149.862	OK	586.561	78.7157	39.6186	111.966	OK	0.422663	0.764544	0.368926	1.3404	1.698833	1.291391
RSp1148		putative hydrolase signal peptide protein	482.712	28.8644	13.0954	44.7277	OK	615.478	36.9335	15.9621	57.9076	OK	644.667	37.0179	21.246	52.828	OK	677.22	39.6391	22.6519	56.6591	OK	0.355639	0.358932	0.457633	1.279552	1.282476	1.373287
RSp1150		hypothetical protein	336.681	46.6286	20.6453	71.899	OK	348.679	48.6878	21.3643	74.6723	OK	346.786	44.5626	23.8117	65.2541	OK	348.129	46.7184	24.0143	65.5581	OK	0.062345	-0.06538	0.002776	1.044162	-1.04636	1.001926
RSp1151		hypothetical protein	118.65	155.704	23.4185	79.3628	OK	110.4	151.034	21.7923	77.086	OK	141.16	131.773	30.8032	85.0297	OK	128.735	157.686	27.9154	77.6497	OK	-0.04393	-0.24075	0.018249	-1.03092	-1.18161	1.012729
RSp1153		putative molybdenum-pterin-binding protei	712.912	70.8516	31.4054	110.118	OK	563.038	56.2864	25.5219	86.7426	OK	479.054	44.929	24.942	63.61	OK	548.484	53.0855	28.7853	76.3948	OK	-0.33201	-0.65715	-0.41648	-1.25877	-1.57697	-1.33467
RSp1154		hypothetical protein	35.4935	6.86296	2.60206	10.2781	OK	140.759	27.5297	11.0588	38.1202	OK	81.1391	14.2242	6.93072	20.9205	OK	45.3293	8.435	3.59371	11.8079	OK	2.004086	1.051445	0.297557	4.011345	2.072604	1.229062
RSp1155		hypothetical protein	1084.07	26.9974	11.8115	42.1841	OK	4789.5	119.451	51.9567	187.016	OK	2198.54	53.4054	30.7023	76.0622	OK	1369.85	33.5447	19.3277	47.6949	OK	2.145527	0.984165	0.313264	4.424537	1.978168	1.242516
RSp1156		signal peptide protein	46.6486	11.1171	4.02506	14.4604	OK	307.279	74.2567	27.5791	99.8812	OK	97.8115	20.755	9.55915	27.9421	OK	62.5544	14.2733	6.02962	17.7947	OK	2.739741	0.900678	0.360538	6.679503	1.866944	1.283905
RSp1157		transcription regulator protein	1032.35	81.7763	32.9601	130.387	OK	1166.56	92.8405	37.3195	148.42	OK	766.931	57.8397	31.0165	84.6436	OK	1240.21	95.9229	51.7375	139.313	OK	0.183072	-0.49962	0.230192	1.135298	-1.41384	1.172991
RSp1158		hypothetical protein	217.017	150.633	0	381.758	OK	211.599	151.472	0	403.02	OK	140.048	76.0476	1.62903	160.731	OK	178.597	116.047	1.29953	261.206	OK	0.008013	-0.98606	-0.37633	1.00557	-1.98077	-1.29803
RSp1159		hypothetical protein	813.308	187.602	66.2994	266.366	OK	660.558	154.441	54.6167	214.086	OK	874.746	180.199	82.836	259.169	OK	2061.58	455.678	194.052	619.181	OK	-0.28062	-0.05808	1.28034	-1.21472	-1.04108	2.428961
RSp1160		lipoprotein signal peptide	1483.63	261.034	97.4553	412.02	OK	1122.4	199.545	74.6466	310.662	OK	1279.33	205.557	100.11	296.12	OK	1149.55	195.059	90.0031	286.494	OK	-0.38752	-0.3447	-0.42033	-1.30815	-1.26989	-1.33823
RSp1161		two-component response regulator transcription regulator protei	1154.05	149.239	46.3492	251.749	OK	1138.04	148.299	39.5188	257.018	OK	1556.09	187.449	88.0779	286.566	OK	1310.02	164.346	70.6548	257.11	OK	-0.00912	0.328874	0.139112	-1.00634	1.256032	1.101227
RSp1162		two-component sensor histidine kinase transcription regulato	836.633	39.1283	3.08674	75.9526	OK	1176.68	55.1839	7.7382	102.988	OK	848.071	38.31	9.71222	66.9465	OK	1188.53	54.5031	19.948	89.2845	OK	0.496035	-0.03049	0.478126	1.410332	-1.02136	1.392933
RSp1163		hypothetical protein	86.1985	40.3313	11.2756	39.4646	OK	76.3597	36.5994	9.97456	35.7783	OK	67.8012	26.1805	9.41209	28.2363	OK	57.1149	25.1671	7.91471	23.1024	OK	-0.14008	-0.62341	-0.68036	-1.10197	-1.54051	-1.60254
RSp1164		putative transcription regulator protein	292.061	34.8311	15.9626	53.5757	OK	326.599	39.2259	17.8892	60.2727	OK	171.17	19.0984	10.5886	27.6028	OK	236.619	27.4113	14.6611	39.7299	OK	0.171431	-0.86692	-0.34561	1.126175	-1.82377	-1.27068
RSp1165		putative signal peptide protein	375.217	81.3238	25.115	137.08	OK	619.158	135.917	44.4774	225.895	OK	539.075	104.926	47.7525	149.763	OK	387.112	80.5242	33.496	120.004	OK	0.740976	0.367623	-0.01426	1.671307	1.290225	-1.00993
RSp1166		putative signal peptide protein	242.37	19.199	2.3764	36.2005	OK	210.679	16.7669	0.238755	37.0867	OK	152.275	11.4841	1.43292	21.5693	OK	181.317	14.0238	3.78986	24.286	OK	-0.19542	-0.74139	-0.45315	-1.14505	-1.67179	-1.36903
RSp1167		hypothetical protein	21114.6	413.187	144.058	682.43	OK	1176.68	23.0527	9.84759	36.2943	OK	1243.76	23.7978	13.7624	33.7437	OK	1310.92	25.2424	14.5536	35.9148	OK	-4.16379	-4.11789	-4.03287	-17.9236	-17.3624	-16.3688
RSp1168		hypothetical protein	4370.77	163.177	72.353	253.884	OK	229.079	8.57126	4.43674	12.6959	OK	235.637	8.53304	5.21855	11.7838	OK	263.816	9.66917	5.89191	13.4335	OK	-4.25079	-4.25723	-4.0769	-19.0377	-19.123	-16.876
RSp1169		hypothetical protein	3360.73	210.948	93.8368	327.968	OK	264.039	16.6349	8.34828	24.8822	OK	329.002	19.8048	11.7116	27.8619	OK	332.717	20.4348	11.8721	28.9315	OK	-3.6646	-3.41297	-3.36779	-12.6811	-10.6514	-10.323
RSp1170		putative signal peptide protein	701.757	49.3919	22.7825	75.8819	OK	136.159	9.62327	4.78373	14.411	OK	126.71	8.52402	4.95511	12.0928	OK	158.653	10.9154	6.31187	15.4552	OK	-2.35968	-2.53467	-2.17791	-5.13255	-5.79444	-4.52497
RSp1171		hypothetical protein	786.942	45.29	20.8134	69.6295	OK	351.439	20.2949	10.1553	30.3655	OK	256.755	14.2041	8.53039	19.8381	OK	332.717	18.7491	11.0102	26.3847	OK	-1.15808	-1.67289	-1.27237	-2.2316	-3.18852	-2.41558
RSp1172		hypothetical protein	1257.48	57.0704	25.459	88.6787	OK	2199.71	100.101	45.0114	155.239	OK	1544.98	67.7677	38.2556	97.2062	OK	1787.79	79.5711	44.886	114.164	OK	0.810642	0.247855	0.479502	1.753992	1.18744	1.394262
RSp1173		lipoprotein transmembrane	205.862	11.3898	5.77958	16.9988	OK	215.279	11.9497	6.07098	17.873	OK	152.275	8.10645	4.83913	11.3552	OK	203.982	11.0535	6.56397	15.5236	OK	0.069232	-0.4906	-0.04324	1.049158	-1.40503	-1.03042
RSp1174	***acpA***	putative acid phosphatase protein	4722.66	153.144	67.0394	239.225	OK	1159.2	37.6617	16.6399	58.6745	OK	1478.29	46.6001	26.5011	66.6372	OK	1243.84	39.6221	22.6561	56.4922	OK	-2.02372	-1.71648	-1.95051	-4.06631	-3.28634	-3.86512
RSp1175		hypothetical protein	3022.02	2037.71	424.995	1727.07	OK	300.839	209.101	46.0007	167.647	OK	556.859	294.949	94.0368	280.346	OK	495.902	313.119	83.7004	249.841	OK	-3.28468	-2.78841	-2.70217	-9.7451	-6.90869	-6.50778
RSp1176		hypothetical protein	90.2549	68.6384	14.7586	51.2525	OK	171.119	134.422	27.9071	97.9432	OK	43.3483	25.4559	7.1473	25.6774	OK	25.3844	18.0559	3.97072	14.0299	OK	0.969681	-1.43102	-1.92655	1.958408	-2.69637	-3.80144
RSp1177		hypothetical protein	1152.02	66.6583	29.7002	103.648	OK	499.558	29.0045	13.8904	44.0452	OK	243.417	13.537	8.12208	18.8851	OK	482.304	27.324	15.7957	38.6172	OK	-1.20051	-2.29988	-1.28662	-2.29821	-4.92416	-2.43955
RSp1178		composite two-component sensor histidine kinase and response regulator hybrid transcription regulator protei	1831.46	63.1074	27.8722	98.2662	OK	609.958	21.0603	10.0518	32.0261	OK	396.804	13.2794	8.07048	18.487	OK	601.973	20.3707	12.1057	28.6221	OK	-1.58328	-2.24862	-1.63131	-2.99651	-4.75228	-3.09795
RSp1180		putative hemagglutinin/hemolysin-related protei	61813.5	327.399	95.4437	557.719	OK	1855.63	9.83155	4.08746	15.5815	OK	2190.76	11.4192	6.45061	16.3869	OK	1782.35	9.30645	5.25949	13.3447	OK	-5.05749	-4.84152	-5.13668	-33.3009	-28.6709	-35.1798
RSp1181		putative outer membrane efflux transmembrane protei	1329.49	66.3719	12.685	120.242	OK	63.4798	3.17846	0.443533	5.89899	OK	55.5747	2.67602	0.9626	4.37545	OK	38.0766	1.86309	0.568809	3.15033	OK	-4.38417	-4.63241	-5.1548	-20.8818	-24.8025	-35.6246
RSp1182		ABC transporter ATP-binding protei	2127.58	66.5782	15.0519	118.193	OK	184.919	5.79736	2.2259	9.37387	OK	114.484	3.4844	1.79571	5.17407	OK	114.23	3.51198	1.87544	5.16513	OK	-3.52158	-4.25607	-4.24469	-11.4842	-19.1075	-18.9575
RSp1183		putative hemolysin-type secretion transmembrane protei	1520.14	106.992	46.761	167.191	OK	896.997	63.3965	28.523	98.2459	OK	383.466	25.7964	15.0423	36.3965	OK	487.743	33.5571	19.0536	48.0174	OK	-0.75503	-2.05226	-1.67281	-1.68766	-4.14756	-3.18836
RSp1184		putative fructokinase-like protein (sugar kinase)	2427.76	203.579	89.3996	316.811	OK	1989.03	167.619	72.8493	262.313	OK	1102.6	87.8478	48.161	127.405	OK	1602.84	131.156	70.3629	191.278	OK	-0.2804	-1.21251	-0.6343	-1.21453	-2.31741	-1.55219
RSp1185	***dsd***	D-serine deaminase	7099.71	409.701	174.961	644.564	OK	5570.58	322.557	141.551	503.416	OK	6403.32	355.17	196.013	513.92	OK	7242.71	409.227	222.709	595.795	OK	-0.34502	-0.20606	-0.00167	-1.27017	-1.15353	-1.00116
RSp1186		hypothetical protein	2872.95	261.326	113.997	408.613	OK	2287.11	209.16	89.9393	328.075	OK	1888.43	162.699	88.287	236.893	OK	4266.39	378.343	199.504	557.325	OK	-0.32124	-0.68365	0.533844	-1.24941	-1.60619	1.447782
RSp1187	***ndeD***	N-acyl-D-glutamate deacylase protein	4273.42	208.02	92.6767	323.653	OK	4044.31	197.434	88.6001	305.959	OK	2001.8	94.0383	52.9216	135.192	OK	5147.59	245.63	135.534	355.435	OK	-0.07535	-1.1454	0.239765	-1.05362	-2.21208	1.1808
RSp1188		hypothetical protein	1363.96	389.452	121.979	517.205	OK	1514.31	439.522	135.791	573.618	OK	666.897	166.541	72.3965	220.309	OK	1285.54	349.787	137.077	436.841	OK	0.17449	-1.22557	-0.15497	1.128565	-2.33848	-1.1134
RSp1189	***gntP***	high-affinity gluconate transporter (GNT-III system) transmembrane protein	4412.35	238.588	106.05	370.603	OK	4154.7	225.375	100.814	349.85	OK	1661.68	86.5038	48.6935	123.917	OK	3260.08	172.683	96.3539	248.726	OK	-0.08219	-1.46369	-0.4664	-1.05863	-2.75812	-1.38165
RSp1190	***eda***	keto-hydroxyglutarate-aldolase/keto-deoxy- phosphogluconat	4503.62	623.728	249.9	994.158	OK	3632.15	507.175	203.782	809.069	OK	2124.07	272.946	140.844	403.583	OK	2534.81	340.168	167.898	496.094	OK	-0.29843	-1.1923	-0.87467	-1.22981	-2.28517	-1.83359
RSp1191	***ribB***	3,4-dihydroxy-2-butanone 4-phosphate synthase protei	1722.96	212.565	86.9037	337.352	OK	1399.31	173.901	70.6151	276.623	OK	668.008	76.9666	40.9612	111.552	OK	861.257	103.159	52.5715	147.869	OK	-0.28964	-1.4656	-1.04303	-1.22233	-2.76178	-2.06056
RSp1192		transcription regulator protein	32.4512	18.6404	4.53192	16.9351	OK	106.72	63.016	15.2654	54.6216	OK	103.369	47.6879	16.2359	47.2957	OK	145.054	78.1872	23.2949	66.1199	OK	1.757285	1.35519	2.0685	3.380614	2.558309	4.194502
RSp1193		hypothetical protein	1240.24	53.4623	23.8781	83.029	OK	1551.11	67.0331	29.7505	104.185	OK	1267.1	52.843	30.1161	75.578	OK	1176.75	49.7604	28.313	71.2429	OK	0.326352	-0.01681	-0.10352	1.253839	-1.01172	-1.07439
RSp1194		proline rich transmembrane protei	1584.02	381.715	128.201	541.028	OK	1414.03	345.582	114.541	483.533	OK	1819.52	389.999	176.23	560.233	OK	1404.3	323.913	135.653	431.689	OK	-0.14347	0.030975	-0.23689	-1.10456	1.021702	-1.17845

RSp1195		two component transmembrane sensor kinase transcription regulator protein	2070.79	117.602	33.095	201.651	OK	1536.39	87.546	24.0013	150.965	OK	1553.87	84.8543	34.7071	134.612	OK	1698.04	94.4306	40.9818	147.652	OK	-0.4258	-0.47085	-0.31659	-1.34332	-1.38593	-1.24538
RSp1196		two component response regulator transcription regulator protein	1975.47	220.869	23.4793	418.49	OK	1502.35	169.087	27.2366	312.771	OK	1862.87	195.491	79.0205	312.514	OK	1759.68	191.295	70.1178	313.193	OK	-0.38543	-0.17609	-0.20739	-1.30624	-1.12982	-1.1546
RSp1197		putative resistance transmembrane protein	2862.8	155.191	70.5549	239.953	OK	2164.75	117.726	52.7134	182.613	OK	2862.1	149.362	83.8617	214.831	OK	2667.18	141.631	79.3439	203.348	OK	-0.39861	-0.05523	-0.13191	-1.31824	-1.03903	-1.09574
RSp1198		drug efflux pump transmembrane protein	3936.74	85.5362	22.1263	148.992	OK	2700.19	58.7441	17.6557	99.8153	OK	2825.42	59.9663	27.9043	91.9034	OK	3051.57	65.2234	30.648	99.667	OK	-0.54209	-0.51238	-0.39115	-1.45608	-1.4264	-1.31143
RSp1199		drug efflux transmembrane protein	2461.22	53.9132	1.92764	109.197	OK	1375.39	30.1671	0.285134	61.9399	OK	1630.56	34.8866	9.37119	60.5918	OK	1672.65	36.0418	9.37326	62.6607	OK	-0.83766	-0.62797	-0.58097	-1.78715	-1.54538	-1.49585
RSp1200		putative outer membrane CHANEL lipoprotein transmembrane	1821.32	85.9301	38.3369	133.483	OK	975.196	46.1381	21.0452	71.2333	OK	1091.49	49.7302	28.3333	70.6461	OK	993.618	45.9629	26.1283	65.7783	OK	-0.8972	-0.78904	-0.90269	-1.86245	-1.72793	-1.86955
RSp1201		signal peptide protein	3188.33	510.754	200.168	814.376	OK	2738.83	442.929	169.909	703.958	OK	3174.43	467.49	232.499	693.779	OK	2857.56	442.346	209.519	673.277	OK	-0.20555	-0.12769	-0.20745	-1.15313	-1.09255	-1.15465
RSp1203		hypothetical protein	2349.67	127.053	57.2612	196.963	OK	1678.99	91.0782	40.4589	140.987	OK	961.443	50.0507	28.5493	71.4672	OK	821.367	43.5068	24.6989	62.2168	OK	-0.48025	-1.34397	-1.54612	-1.39499	-2.53849	-2.9203
RSp1204		hypothetical protein	3299.88	404.787	166.299	641.76	OK	2265.03	279.869	114.459	442.089	OK	3533.44	404.913	211.032	597.77	OK	2994.45	356.65	180.052	523.604	OK	-0.53241	0.000449	-0.18265	-1.44634	1.000311	-1.13497
RSp1205		hypothetical protein	754.49	65.0463	29.1186	100.321	OK	1348.72	116.87	50.1605	183.638	OK	625.772	51.2057	28.8653	73.5261	OK	679.033	57.1077	31.1018	81.8432	OK	0.845366	-0.34516	-0.18778	1.79672	-1.27029	-1.13901
RSp1206		putative transmembrane cytochrome bd-II oxidase (subunit II) oxidoreductase protein	267.722	20.308	0.318501	40.3223	OK	167.439	12.7581	2.61171	22.9321	OK	152.275	11.0135	3.45622	18.6007	OK	174.971	12.9648	3.95894	21.9941	OK	-0.67063	-0.88278	-0.64745	-1.59177	-1.84392	-1.5664
RSp1207		putative transmembrane cytochrome bd-II oxidase (subunit I) oxidoreductase protein	908.634	45.4675	14.2612	76.7604	OK	345.919	17.3608	5.72137	29.0585	OK	411.253	19.8477	10.2797	29.4878	OK	475.051	23.2981	11.9176	34.7718	OK	-1.389	-1.19586	-0.96462	-2.61897	-2.29082	-1.95155
RSp1208		hypothetical protein	5932.49	321.596	139.249	502.9	OK	4788.58	260.418	115.397	405.154	OK	2777.63	144.954	81.8852	207.819	OK	4673.45	248.168	136.993	358.554	OK	-0.30442	-1.14965	-0.37393	-1.23492	-2.21861	-1.29588
RSp1209		putative methyl-accepting chemotaxis transducer transmembrane protein	276.849	12.618	6.41965	18.7683	OK	1877.71	85.8117	38.2726	133.341	OK	1193.75	52.5793	29.7691	75.1085	OK	742.494	33.1865	19.12	47.1546	OK	2.765691	2.059012	1.395113	6.800737	4.167007	2.630092
RSp1210		lipoprotein transmembrane	232.229	1285.19	63.9442	228.372	OK	318.319	1882.6	87.2382	317.437	OK	741.367	2265.11	220.784	672.714	OK	388.019	1960.69	118.953	345.143	OK	0.550745	0.817599	0.60938	1.464842	1.762471	1.525603
RSp1211	***cls***	cardiolipin synthetase	1367.01	67.306	29.8347	104.706	OK	1154.6	57.0132	25.4537	88.409	OK	1160.4	55.1233	31.2472	78.8743	OK	1262.87	60.9477	34.3157	87.6477	OK	-0.23944	-0.28807	-0.14316	-1.18053	-1.22101	-1.10432
RSp1213		hypothetical protein	491.839	26.2643	9.41535	43.0752	OK	441.598	23.6559	8.80335	38.5088	OK	589.092	30.2945	13.5144	47.045	OK	554.831	29.0257	14.8612	43.1439	OK	-0.1509	0.205953	0.144228	-1.11026	1.153448	1.105139
RSp1214		hypothetical protein	281.92	37.3574	2.5177	73.0134	OK	241.959	32.3146	2.40397	63.5718	OK	557.97	68.7787	25.8858	111.802	OK	287.388	36.9289	10.5369	63.2213	OK	-0.20921	0.880568	-0.01664	-1.15605	1.8411	-1.0116
RSp1215		Type 3 effector protein - pseudogene (C-terminal fragment	330.597	12.998	6.69055	19.2487	OK	479.318	18.889	9.23081	28.5511	OK	713.58	27.1889	15.9182	38.4719	OK	416.123	16.0573	9.60033	22.4831	OK	0.539257	1.064728	0.30494	1.453224	2.091776	1.235367
RSp1218		Type 3 effector protein - pseudogene (N-terminal fragment	102.424	19.628	8.01779	28.1916	OK	117.76	22.8238	9.18167	31.2953	OK	162.278	28.2148	14.0331	39.0375	OK	107.884	19.9005	9.18529	26.7904	OK	0.217626	0.523539	0.019892	1.162818	1.437477	1.013883
RSp1219	***nasA***	nitrate reductase large subunit oxidoreductase protein	487.782	12.1758	5.87172	18.4607	OK	427.798	10.6943	5.28454	16.0885	OK	423.48	10.3105	6.25585	14.3421	OK	431.535	10.5918	6.4412	14.736	OK	-0.18717	-0.2399	-0.20107	-1.13853	-1.18091	-1.14955
RSp1220		flavoprotein FAD oxidoreductase	170.369	10.2733	5.07878	15.4458	OK	126.96	7.683	3.87453	11.4665	OK	142.271	8.23647	4.80361	11.6216	OK	127.829	7.54463	4.33874	10.7436	OK	-0.41916	-0.3188	-0.44538	-1.33715	-1.24729	-1.36167
RSp1221	***nirD***	nitrite reductase NADPH small subunit	26.3666	9.36953	0	22.7428	OK	12.88	4.66778	0	12.3218	OK	20.0069	6.06924	0	12.741	OK	19.9449	6.71621	0	13.8063	OK	-1.00524	-0.62646	-0.48033	-2.00728	-1.54377	-1.39506
RSp1222	***nirB***	nitrite reductase NADPH large subunit	136.904	3.67822	1.91265	5.43596	OK	123.28	3.31744	1.73649	4.88229	OK	140.048	3.66695	2.23441	5.08948	OK	126.015	3.32831	2.01096	4.6426	OK	-0.14894	-0.00443	-0.14422	-1.10875	-1.00307	-1.10513
RSp1223		high affinity nitrate transporter transmembrane protein	42.5922	2.3565	1.16563	3.54545	OK	58.8798	3.2683	1.65131	4.85679	OK	54.4632	2.89939	1.62902	4.16836	OK	53.4886	2.89847	1.62902	4.16836	OK	0.471895	0.299104	0.298646	1.38693	1.23038	1.229989
RSp1224	***aer***	aerotaxis sensor receptor transmembrane protein	619.615	28.853	13.7556	43.8927	OK	355.119	16.582	8.37838	24.7183	OK	357.901	16.0988	9.7045	22.4931	OK	266.536	12.17	7.3195	16.9418	OK	-0.7991	-0.84177	-1.24539	-1.74002	-1.79225	-2.37083
RSp1225	***tzs***	isopentenyl transferase protein	298.145	34.5958	15.988	52.9938	OK	347.759	40.6307	18.5928	62.6046	OK	610.211	66.3372	35.9747	96.6708	OK	622.825	70.2307	36.7721	103.228	OK	0.231973	0.939221	1.021505	1.17444	1.917493	2.030035
RSp1226		hypothetical protein	197.75	29.8942	13.1431	46.2198	OK	379.039	57.8154	24.6432	88.3871	OK	504.619	70.3975	36.6279	102.104	OK	694.445	101.56	49.5935	152.238	OK	0.951588	1.235659	1.764395	1.934001	2.354888	3.397315
RSp1227		putative luciferase (monooxygenase) oxidoreductase protein	156.171	12.3709	6.14286	18.6267	OK	822.477	65.4569	29.4593	101.324	OK	252.309	19.0284	11.1425	26.8462	OK	785.103	60.7231	33.6229	87.1197	OK	2.403595	0.621204	2.295295	5.2912	1.538158	4.908543
RSp1228		phosphatidylinositol-specific phospholipase C1	106.481	7.80137	3.89747	11.6924	OK	126.04	9.27444	4.63984	13.8577	OK	157.832	11.0384	6.46912	15.5625	OK	235.712	16.8751	9.7647	23.8625	OK	0.249533	0.500732	1.113097	1.188822	1.414931	2.163094
RSp1229		hypothetical protein	484.74	47.5151	22.0174	72.5789	OK	580.518	57.2342	25.8705	88.0697	OK	656.893	60.8003	33.5112	87.9668	OK	738.868	70.5446	37.8552	102.783	OK	0.268491	0.355692	0.57015	1.204548	1.2796	1.484678
RSp1230		hypothetical protein	216.003	63.3423	21.8051	81.4732	OK	218.959	65.2945	22.1431	82.4874	OK	146.717	37.5238	16.675	46.0229	OK	213.954	59.7474	24.3454	66.5331	OK	0.043792	-0.75536	-0.08429	1.03082	-1.68806	-1.06017
RSp1231		putative transferase protein	76.0575	10.0166	4.55061	15.4325	OK	102.12	13.5542	6.13343	20.6756	OK	123.376	15.12	8.10003	21.6652	OK	120.576	15.4004	7.90485	22.0555	OK	0.436347	0.594065	0.620575	1.353174	1.509494	1.537488
RSp1232	***aatA1***	aspartate aminotransferase A protein	202.82	12.4043	5.14148	19.7178	OK	246.559	15.1339	6.20158	24.0642	OK	241.194	14.1569	7.3728	20.9158	OK	252.031	15.0855	8.05256	21.9615	OK	0.286943	0.190665	0.282322	1.220053	1.14129	1.216151
RSp1233		putative transferase protein	104.452	13.3467	1.53334	25.1723	OK	126.04	16.2274	1.54498	30.8996	OK	152.275	18.1369	6.66994	29.6574	OK	131.455	16.2984	5.33134	27.2766	OK	0.281949	0.442445	0.288247	1.215836	1.358905	1.221156
RSp1234		putative transferase protein	83.1562	9.91719	4.58696	15.137	OK	138.919	16.6848	7.7061	25.32	OK	185.62	20.7107	11.4936	29.6843	OK	132.362	15.3335	8.05458	22.5347	OK	0.750531	1.062373	0.628684	1.682412	2.088364	1.546154
RSp1235		transcription regulator protein	694.659	58.0238	26.2298	89.4573	OK	1014.76	85.1806	37.2739	133.082	OK	938.102	74.4613	40.9244	107.793	OK	986.365	80.4005	43.5801	116.645	OK	0.55388	0.359846	0.47056	1.468029	1.283289	1.385647
RSp1236	***ripAR***	Type III effector protein	615.559	23.9387	11.3711	36.4868	OK	742.437	28.9393	13.4612	44.3864	OK	846.959	31.9263	18.5213	45.3248	OK	832.246	31.7673	18.3815	45.1151	OK	0.273685	0.415401	0.408198	1.208892	1.333669	1.327027
RSp1237		transcription regulator protein	1324.41	103.385	45.283	161.231	OK	1177.6	92.3496	40.3893	144.397	OK	893.642	66.4493	37.0118	95.0721	OK	999.964	76.2277	41.5176	110.907	OK	-0.16285	-0.6377	-0.43964	-1.1195	-1.55585	-1.35627
RSp1238		signal peptide protein	113.579	17.17	7.44773	26.7242	OK	91.0797	13.8925	6.0239	21.1384	OK	103.369	14.4206	7.45524	20.745	OK	54.3952	7.95509	3.78164	11.3449	OK	-0.30558	-0.25176	-1.10994	-1.23592	-1.19066	-2.15837
RSp1239	***ripC1***	Type III effector protein	1174.33	28.325	12.2798	44.3666	OK	595.238	14.3777	6.77666	21.9673	OK	866.966	20.4044	11.957	28.827	OK	569.336	13.5046	8.07605	18.9339	OK	-0.97824	-0.4732	-1.06863	-1.97006	-1.38818	-2.09743
RSp1240		putative transglycosylase protein	8351.11	479.338	200.526	758.367	OK	4444.5	255.972	113.605	398.544	OK	11165	616.055	331.364	900.13	OK	5473.06	307.597	169.269	445.612	OK	-0.90506	0.362016	-0.64	-1.87262	1.28522	-1.55833
RSp1241		hypothetical protein	497.923	80.3643	33.0615	125.932	OK	609.958	99.3921	39.9493	154.861	OK	1139.28	168.954	84.0293	248.238	OK	794.169	123.841	59.4547	182.781	OK	0.306576	1.072004	0.623862	1.236769	2.102351	1.540995
RSp1242		putative transmembrane cytochrome bd-II oxidase (subunit I) oxidoreductase protein	1017.14	53.386	11.4985	95.2337	OK	1069.04	56.2839	13.4459	99.082	OK	1562.76	79.023	34.8989	123.541	OK	1591.96	81.8673	36.3626	127.246	OK	0.076261	0.565811	0.616826	1.054282	1.48022	1.533498
RSp1243		putative transmembrane cytochrome bd-II oxidase (subunit II) oxidoreductase protein	721.025	53.3729	8.23734	98.536	OK	703.797	52.326	6.92685	97.7872	OK	990.342	69.9553	23.2087	116.659	OK	934.69	67.6017	21.5466	113.52	OK	-0.02858	0.390326	0.340952	-1.02001	1.31069	1.266592
RSp1244		2-dehydropantoate 2-reductase	569.924	42.928	0.677901	99.5761	OK	553.838	41.9024	0.529608	96.9939	OK	429.037	30.8201	0.862027	68.3156	OK	474.144	34.8884	1.10373	74.8327	OK	-0.03489	-0.47805	-0.29917	-1.02448	-1.39286	-1.23044
RSp1245		putative arylesterase protein	206.876	27.756	12.5391	42.7334	OK	226.319	30.6067	13.6426	46.144	OK	232.302	28.9722	15.7345	41.2658	OK	213.954	27.8306	14.448	39.4846	OK	0.141048	0.06187	0.003872	1.102706	1.043818	1.002688
RSp1246		lipoprotein	58.8178	12.0215	4.72544	16.3365	OK	91.0797	18.8411	7.42569	26.0574	OK	52.2403	9.63669	4.39527	13.4522	OK	64.3676	12.6442	5.59398	16.5156	OK	0.648266	-0.31901	0.072859	1.567284	-1.24747	1.051799
RSp1247		transcription regulator protein	576.009	48.1132	22.2953	73.8575	OK	300.839	25.253	12.2176	38.2402	OK	334.56	26.5555	15.3211	37.724	OK	302.8	24.6818	14.0273	35.1364	OK	-0.92998	-0.85742	-0.96299	-1.90525	-1.8118	-1.94934
RSp1248		lipoprotein signal peptide	721.025	48.5208	22.3303	74.7028	OK	337.639	22.8116	11.3378	34.2436	OK	329.002	21.1902	12.4906	29.8638	OK	388.925	25.5942	14.7616	36.3362	OK	-1.08884	-1.19521	-0.92279	-2.12702	-2.28978	-1.89577
RSp1249		hypothetical protein	207.891	60.1506	21.1316	74.6314	OK	68.0797	20.0272	6.87615	24.1504	OK	118.93	30.0542	13.2357	38.5491	OK	81.5927	22.4892	8.93413	27.1333	OK	-1.58662	-1.00101	-1.41935	-3.00345	-2.0014	-2.67464
RSp1250		hypothetical protein	443.162	101.139	37.8573	137.94	OK	623.758	144.274	51.6368	200.165	OK	330.114	67.3489	32.1951	87.4275	OK	272.882	59.6935	26.6146	72.1169	OK	0.512472	-0.58661	-0.76069	1.426492	-1.50172	-1.69431
RSp1251		signal peptide protein	593.249	51.1452	23.6633	78.5706	OK	538.198	46.6363	21.6087	71.6275	OK	383.466	31.3783	18.0321	44.5909	OK	417.03	35.0728	19.5697	50.6016	OK	-0.13315	-0.70483	-0.54425	-1.09668	-1.62995	-1.45826
RSp1252	***hipB***	putative transcription regulator protein	267.722	157.714	38.8336	144.239	OK	432.398	261.963	61.5066	223.836	OK	267.87	126.301	43.5441	117.783	OK	196.729	108.711	32.1227	90.6574	OK	0.732052	-0.32044	-0.53681	1.661	-1.24872	-1.45076
RSp1253		putative hipa protein related(fragment	636.855	61.8608	27.9461	95.7038	OK	1055.24	103.091	44.4172	161.12	OK	602.43	55.2761	30.8032	79.2412	OK	533.979	50.527	27.4148	73.0806	OK	0.736821	-0.16237	-0.29197	1.6665	-1.11912	-1.22431
RSp1254		hypothetical hipa protein related(fragment	174.425	34.6618	14.0463	49.2946	OK	239.199	48.0945	19.0818	70.4966	OK	208.961	37.5651	18.5627	50.9821	OK	191.29	36.5594	17.1248	47.3219	OK	0.472525	0.116046	0.076896	1.387536	1.083761	1.054746
RSp1255		hypothetical protein	512.121	44.8718	20.9644	68.7805	OK	605.358	53.3167	24.4106	82.2064	OK	476.831	39.6307	22.3813	56.5197	OK	484.117	41.3722	22.877	59.8486	OK	0.248778	-0.17919	-0.11715	1.188201	-1.13225	-1.08459
RSp1256		integral membrane transmembrane protein	421.866	19.3922	9.64161	29.0896	OK	491.278	22.6443	11.0837	34.1165	OK	268.982	11.9469	7.27585	16.5841	OK	248.405	11.1972	6.74744	15.6085	OK	0.223671	-0.69884	-0.79234	1.167701	-1.6232	-1.73188
RSp1257		transcription regulator protein	993.818	77.2976	34.4773	119.955	OK	1517.99	118.611	51.4557	185.072	OK	2309.69	171.142	94.5273	247.773	OK	1475.92	112.107	60.0662	163.514	OK	0.617742	1.146698	0.536381	1.534472	2.214066	1.45033
RSp1258	***acpD***	putative [Acyl-carrier-protein] phosphodiesterase	360.006	49.8589	21.9806	77.2401	OK	511.518	71.4259	30.5057	111.957	OK	496.838	63.8445	33.6403	93.2202	OK	452.386	60.7096	31.0059	85.5194	OK	0.518596	0.356711	0.284074	1.432561	1.280504	1.217628
RSp1259		hypothetical protein	890.38	1114.19	158.599	642.408	OK	1099.4	1433.08	192.562	799.085	OK	1932.89	1733.41	398.574	1274.42	OK	1193.07	1393.58	244.96	782.924	OK	0.363124	0.637618	0.322801	1.286208	1.555758	1.250756
RSp1260		lipoprotein transmembrane	24.3384	236.123	6.98925	26.4593	OK	16.5599	173.529	4.49309	18.9708	OK	21.1184	100.58	5.90992	25.1171	OK	21.7581	185.998	5.90992	25.1171	OK	-0.44436	-1.2312	-0.34425	-1.36071	-2.34761	-1.26949
RSp1261		signal peptide protein	2024.14	146.797	65.0143	228.102	OK	3207.11	233.588	103.716	362.608	OK	2759.84	191.123	106.068	275.364	OK	2602.81	184.469	100.743	267.196	OK	0.670144	0.380679	0.329556	1.591231	1.301954	1.256626
RSp1262		hypothetical protein	63.8883	22.7031	7.15567	25.2331	OK	115	41.6766	12.9932	44.6288	OK	160.055	48.5539	20.2484	56.101	OK	98.8179	33.2758	12.2605	35.8526	OK	0.876348	1.096698	0.551584	1.835723	2.138646	1.465694
RSp1263	***nadB2***	L-aspartate oxidase (quinolinate synthetase B) oxidoreductase	3968.17	176.365	78.6723	273.994	OK	1959.59	87.3228	38.9764	135.678	OK	440.152	18.9147	11.3182	26.5011	OK	977.3	42.6024	24.3715	60.8105	OK	-1.01413	-3.22098	-2.04956	-2.01969	-9.32423	-4.13979
RSp1264		integral membrane transmembrane protein	475.613	46.4086	21.5453	70.9821	OK	374.439	36.7478	17.2363	55.7045	OK	151.163	13.9304	7.88348	19.8633	OK	232.993	22.1455	12.289	31.6885	OK	-0.33673	-1.73616	-1.06738	-1.26289	-3.33146	-2.09562
RSp1265		acetyl-coenzyme A synthetase	2817.17	118.813	53.5722	183.937	OK	2007.43	84.8739	38.0534	131.585	OK	1210.42	49.4086	28.136	70.716	OK	1996.3	82.602	46.4544	118.637	OK	-0.4853	-1.26586	-0.52444	-1.39988	-2.4047	-1.43838
RSp1266		hypothetical protein	469.528	87.6336	34.9315	128.167	OK	410.318	77.4324	30.8667	119.656	OK	305.661	51.8669	26.1896	75.06	OK	398.898	71.7078	33.8334	93.1045	OK	-0.17855	-0.75667	-0.28935	-1.13174	-1.68959	-1.22209
RSp1267		transcription regulator protein	578.037	51.488	23.6501	79.3187	OK	732.317	65.5748	29.2533	101.804	OK	659.116	55.6546	31.0838	80.258	OK	913.839	79.3772	42.7133	114.429	OK	0.348905	0.112265	0.624488	1.273594	1.080924	1.541664
RSp1268		integral membrane transmembrane protein	2148.88	231.807	97.9167	365.448	OK	1037.76	112.663	47.8553	177.251	OK	1934	196.152	103.961	287.357	OK	1208.48	126.817	65.6242	188.084	OK	-1.04091	-0.24095	-0.87018	-2.05753	-1.18177	-1.82789
RSp1269		signal peptide protein	184.566	34.7496	1.78892	67.4677	OK	169.279	32.2281	1.78892	62.6121	OK	165.613	28.3294	6.80696	49.7916	OK	135.988	24.6551	4.28586	45.0015	OK	-0.10868	-0.2947	-0.49511	-1.07824	-1.22663	-1.40943
RSp1270		putative signal peptide protein	385.358	22.7265	3.80038	41.6501	OK	320.159	18.9472	2.25968	35.59	OK	313.442	17.7576	6.83953	28.6753	OK	347.222	20.0466	7.65014	32.2724	OK	-0.26239	-0.35594	-0.18102	-1.19946	-1.27982	-1.13368
RSp1271		putative ferrisiderophore receptor protein	477.641	14.1233	1.56715	26.9372	OK	485.758	14.3884	2.07343	26.7472	OK	333.448	9.59703	3.16593	16.0311	OK	407.057	11.828	4.06804	19.6138	OK	0.026829	-0.55742	-0.25587	1.01877	-1.47163	-1.19406
RSp1272		hypothetical protein	267.722	56.324	22.155	82.2901	OK	229.999	48.991	19.1276	70.4558	OK	180.062	34.1071	16.6974	46.1554	OK	145.054	29.3095	13.4394	38.1461	OK	-0.20123	-0.72368	-0.94238	-1.14968	-1.65139	-1.9217
RSp1273		hypothetical protein	1017.14	64.2202	28.659	99.7071	OK	1346.88	85.3565	37.2131	133.488	OK	1975.13	119.576	66.8103	172.105	OK	1649.99	101.93	56.2217	147.38	OK	0.410474	0.896829	0.66648	1.329122	1.861969	1.587195
RSp1274		hypothetical protein	5559.3	274.979	120.268	429.34	OK	1136.2	56.3639	25.1181	87.4516	OK	1261.55	60.1982	34.1092	86.2277	OK	996.338	48.3045	27.3394	69.2165	OK	-2.28648	-2.19153	-2.50909	-4.87864	-4.56789	-5.69262
RSp1275		hypothetical protein	624.686	233.305	68.8491	267.274	OK	275.999	105.206	31.717	115.844	OK	290.1	91.9508	37.9663	101.879	OK	181.317	64.092	23.6574	65.4395	OK	-1.149	-1.34328	-1.864	-2.2176	-2.53728	-3.64016
RSp1276		ATP-dependent DNA helicase II protein	1821.32	59.5102	26.2072	92.8727	OK	2378.19	77.8554	34.7518	120.771	OK	1307.12	41.5133	23.8876	59.1234	OK	2257.4	72.4538	41.2821	103.563	OK	0.38766	-0.51956	0.283924	1.30827	-1.43352	1.217502

RSp1277	***ripQ***	Type III effector protein	749.42	34.5973	16.1726	52.985	OK	2850.15	131.937	59.8511	204.123	OK	3416.73	152.394	86.3001	218.26	OK	2789.56	126.282	71.2435	181.047	OK	1.931118	2.139075	1.867918	3.813506	4.404795	3.650054
RSp1278		transporter transmembrane protein	721.025	36.5914	17.1016	56.0302	OK	879.517	44.7687	20.4769	68.9464	OK	833.621	40.7895	23.5302	58.0708	OK	856.724	42.6087	24.1962	60.779	OK	0.290986	0.156693	0.219643	1.223476	1.114729	1.164446
RSp1279	***fumC***	fumarate hydratase	5675.92	298.638	129.917	467.395	OK	2972.51	156.885	71.1385	242.642	OK	7400.33	375.103	205.63	543.777	OK	3727.88	192.174	106.849	277.229	OK	-0.92869	0.328889	-0.63598	-1.90355	1.256046	-1.554
RSp1280		sugar kinase protein	1022.21	86.3924	38.0551	134.587	OK	838.117	71.1882	31.852	110.471	OK	1011.46	81.1971	44.4859	117.85	OK	733.428	60.4815	33.2097	86.9778	OK	-0.27927	-0.08948	-0.51441	-1.21358	-1.06398	-1.42841
RSp1281	***ripR***	Type III effector protein	1368.02	17.3874	7.31577	27.4649	OK	449.878	5.72218	2.75881	8.68286	OK	540.186	6.73395	4.0216	9.44044	OK	506.782	6.34365	3.81505	8.86939	OK	-1.60341	-1.36852	-1.45466	-3.0386	-2.58205	-2.74091
RSp1282		multifunctional phosphocarrier protein HPr/phosphoenolpyruvate-protein phosphotransferase	813.308	21.9062	9.93889	33.8275	OK	591.558	15.9588	7.56768	24.3427	OK	1007.01	26.4325	15.3541	37.452	OK	707.137	18.7235	11.049	26.3533	OK	-0.45699	0.270974	-0.22649	-1.37267	1.206622	-1.16998
RSp1283		porin transmembrane protein	221.074	13.1462	6.67287	19.6565	OK	195.039	11.6388	5.89696	17.3805	OK	245.64	14.029	8.41985	19.5443	OK	213.048	12.4016	7.2972	17.5031	OK	-0.1757	0.093766	-0.08412	-1.12952	1.067152	-1.06004
RSp1284	***scrB***	putative sucrose-6-phosphate hydrolase (Sucrase invertase)	260.624	13.3209	3.53254	23.0974	OK	355.119	18.2056	4.9365	31.4759	OK	447.932	22.0706	10.2312	33.8656	OK	329.997	16.5287	7.63988	25.4216	OK	0.450691	0.728434	0.311282	1.366694	1.65684	1.24081
RSp1285	***scrA***	PTS system, sucrose-specific (IIBC component) transmembrane protein	329.583	17.1726	4.79358	29.6993	OK	405.719	21.2047	4.49476	37.8396	OK	381.243	19.1409	7.33016	31.0277	OK	341.783	17.4492	7.14747	27.773	OK	0.304276	0.15655	0.023052	1.234798	1.114619	1.016107
RSp1286	***scrR***	putative DNA-binding sucrose operon transcriptional repressor transcription regulator protein	1347.74	99.4217	43.1829	155.62	OK	1430.59	105.995	46.294	165.638	OK	1213.75	85.4514	47.1423	123.442	OK	1207.57	87.0407	47.0809	126.879	OK	0.092364	-0.21846	-0.19187	1.066115	-1.16349	-1.14224
RSp1287	***pilE1***	type 4 fimbrial biogenesis signal peptide protein	49.6909	10.4541	4.12827	13.7609	OK	40.4799	8.62242	3.30261	11.6968	OK	66.6897	12.6323	5.97306	17.5119	OK	72.5269	14.6548	6.38031	19.5482	OK	-0.2779	0.273048	0.487304	-1.21243	1.208358	1.401823
RSp1288		putative type-4 fimbrial biogenesis pily1- related protein	649.024	13.1688	4.20846	22.1813	OK	632.038	12.8395	3.89958	21.7952	OK	766.931	15.2102	7.19872	23.253	OK	846.751	16.904	8.13189	25.6907	OK	-0.03653	0.207915	0.360241	-1.02565	1.155018	1.28364
RSp1289		putative type-4 fimbrial biogenesis transmembrane protein	91.269	13.9944	0	31.5366	OK	94.7597	14.6622	0	33.5283	OK	107.815	15.2417	0.327482	30.1284	OK	122.389	18.1496	0.873287	35.3681	OK	0.067252	0.123174	0.375088	1.047719	1.089129	1.296919
RSp1290	***pilW***	putative type 4 fimbrial biogenesis transmembrane protein	80.1139	8.72989	0	21.638	OK	93.8397	10.2917	0	24.6315	OK	147.829	15.1382	1.09683	29.1925	OK	113.323	12.0111	0	24.3833	OK	0.237446	0.794158	0.460333	1.178904	1.734065	1.375859
RSp1291	***pilV***	putative type-4 fimbrial biogenesis PILV transmembrane protein	92.2831	15.7215	0	33.5124	OK	101.2	17.4153	0	35.7783	OK	114.484	17.8529	0.705907	34.9424	OK	126.922	20.8676	1.29416	40.3543	OK	0.147616	0.18342	0.408526	1.107738	1.135572	1.327329
RSp1292		putative type-4 fimbrial pilin related signal peptide protein	43.6063	7.31281	0	28.3414	OK	61.6398	10.4402	0	35.9074	OK	56.6862	8.71151	0	26.4329	OK	77.0598	12.4759	0	37.8844	OK	0.513652	0.252497	0.770646	1.427659	1.191267	1.706034
RSp1293		putative transmembrane protein	123.72	30.495	0	60.8993	OK	241.039	60.2721	0	121.646	OK	115.595	25.2889	1.65212	48.8127	OK	91.5652	21.5902	0.150193	42.9552	OK	0.982918	-0.27007	-0.4982	1.976458	-1.20587	-1.41245
RSp1294		serin-rich transmembrane protein	28.3948	45.9098	0	91.7541	OK	54.2798	91.8065	0	179.007	OK	26.6759	29.6769	0	58.7496	OK	18.1317	27.3569	0	54.6508	OK	0.999794	-0.62946	-0.7469	1.999715	-1.54699	-1.67818
RSp1295		hypothetical protein	1160.13	58.0522	19.7656	96.526	OK	2725.95	136.808	48.7822	226.094	OK	1093.71	52.7841	27.9434	77.6045	OK	1326.34	65.048	34.4775	95.7328	OK	1.23673	-0.13725	0.164154	2.356638	-1.0998	1.120509
RSp1296		putative transmembrane protein	2644.77	195.776	87.1785	303.471	OK	5003.86	372.028	161.502	581.356	OK	2808.75	198.403	109.703	287.123	OK	3850.27	278.472	150.272	405.999	OK	0.926207	0.01923	0.508328	1.900274	1.013418	1.422401
RSp1297		hypothetical protein	606.432	147.787	52.4581	202.576	OK	913.557	225.823	76.7974	311.423	OK	673.566	145.85	66.5143	203.57	OK	795.982	185.62	78.7434	241.45	OK	0.611673	-0.01903	0.328833	1.52803	-1.01328	1.255997
RSp1298		hypothetical protein	1285.88	81.668	35.8696	127.433	OK	674.358	42.9904	19.8789	66.0439	OK	723.583	44.0581	25.1749	62.9373	OK	941.036	58.4748	32.6302	83.9525	OK	-0.92576	-0.89036	-0.48196	-1.89968	-1.85364	-1.39664
RSp1344		hypothetical protein	137.918	48.2282	15.4936	53.3875	OK	107.64	38.3776	12.1335	43.1207	OK	67.8012	20.2778	8.10258	24.3077	OK	106.071	35.1624	13.0746	38.119	OK	-0.32961	-1.24998	-0.45584	-1.25668	-2.37837	-1.37158
RSp1363		methyl-accepting chemotaxis transducer transmembrane protein	120.678	5.2869	2.72284	7.81335	OK	6558.66	288.079	122.764	453.175	OK	4257.03	180.375	101.487	259.148	OK	1132.33	48.6592	27.5615	69.7213	OK	5.767899	5.092434	3.202219	54.48921	34.11735	9.20373
RSp1364	***kgd***	alpha-ketoglutarate decarboxylase	338.709	8.78147	4.4297	13.1187	OK	6005.74	155.945	65.5693	245.605	OK	4042.51	102.183	57.8891	146.368	OK	1198.51	30.5499	17.5756	43.4829	OK	4.150431	3.540549	1.798633	17.75842	11.63621	3.478905
RSp1365		hypothetical protein	4220.68	366.821	158.97	572.905	OK	3069.11	268.111	117.106	418.285	OK	1999.58	164.896	89.3523	239.281	OK	3503.05	296.971	157.738	435.856	OK	-0.45225	-1.15352	-0.30475	-1.36817	-2.22456	-1.23521
RSp1366	***abpE***	thiamine biosynthesis APBE transmembrane protein	1228.08	91.8568	40.4788	142.652	OK	304.519	22.8781	11.2686	34.3724	OK	178.951	12.7684	7.51449	18.0099	OK	291.921	21.3318	12.3585	29.9338	OK	-2.00542	-2.84681	-2.10638	-4.01505	-7.19407	-4.3061
RSp1367		lipoprotein	811.28	212.067	71.504	287.279	OK	160.999	42.7276	15.311	53.9832	OK	76.6931	17.692	7.78573	24.1358	OK	149.587	37.3481	15.7272	43.7558	OK	-2.31128	-3.58335	-2.50541	-4.96323	-11.9866	-5.67812
RSp1368	***nosZ***	nitrous-oxide reductase	8977.83	325.002	133.115	517.099	OK	2372.67	86.0757	38.6539	133.48	OK	1135.95	39.9073	22.9447	56.8871	OK	2842.15	101.021	57.1162	144.804	OK	-1.91677	-3.02572	-1.68579	-3.77577	-8.14392	-3.21717
RSp1369	***nosR***	transmembrane regulatory nosR transcription regulator protein	1111.45	29.1325	5.80322	52.4503	OK	493.118	12.9452	1.52457	24.3686	OK	197.846	5.05528	1.94064	8.15067	OK	475.051	12.2417	4.77882	19.7217	OK	-1.17021	-2.52677	-1.25083	-2.25045	-5.76279	-2.37978
RSp1370	***nosD***	copper-binding periplasmic NOSD signal peptide protein	374.203	21.7107	0.05063	49.9209	OK	229.079	13.3365	0.101259	28.1501	OK	114.484	6.38347	1.59828	11.188	OK	208.515	11.8447	2.34747	21.377	OK	-0.70303	-1.76599	-0.87416	-1.62792	-3.40108	-1.83295
RSp1371	***nosF***	copper ATP-binding ABC transporter protein	406.654	33.4467	0.068149	70.0574	OK	251.159	20.7581	0.068149	41.8436	OK	85.5851	6.69293	1.21013	12.1685	OK	165.905	13.3182	1.88242	24.8076	OK	-0.68819	-2.32115	-1.32846	-1.61126	-4.99732	-2.51135
RSp1372	***nosY***	NosY transmembrane protein	158.2	15.3667	0	43.7927	OK	118.68	11.5943	0	28.5706	OK	37.7908	3.4675	0	7.54678	OK	79.7796	7.54902	0	15.8636	OK	-0.40639	-2.14784	-1.02545	-1.32537	-4.43164	-2.03559
RSp1373	***nosL***	NosL lipoprotein	205.862	35.9258	0	111.514	OK	166.519	29.3616	0	80.7571	OK	73.3587	11.6982	0.159466	24.2388	OK	77.9664	13.1244	0	35.3501	OK	-0.29109	-1.61873	-1.45277	-1.22356	-3.07105	-2.73733
RSp1374	***ripS2, skwp2***	Type III effector protein, SKWP family	539.501	4.76603	2.23831	7.31122	OK	3050.71	26.9645	11.5545	42.4068	OK	1167.07	10.13	5.78878	14.4677	OK	2411.52	20.9919	11.9612	30.0266	OK	2.500201	1.087774	2.138973	5.657644	2.125459	4.404483
RSp1375		hypothetical protein	23.3243	10.4756	1.70036	18.4914	OK	40.4799	18.6115	3.40071	28.6935	OK	32.2333	12.0102	3.3548	19.4998	OK	18.1317	7.67562	1.46773	12.9999	OK	0.829161	0.197227	-0.44868	1.776652	1.146493	-1.36479
RSp1376		hypothetical protein	55.7755	6.07777	2.39731	9.80716	OK	74.5197	8.1728	3.18052	13.2704	OK	62.2437	6.37399	3.07211	9.62595	OK	63.461	6.72619	3.39166	9.963	OK	0.427288	0.068655	0.146247	1.344704	1.048738	1.106687
RSp1377		transcription regulator protein	450.26	97.5886	37.0411	145.218	OK	594.318	130.464	47.8447	193.203	OK	712.468	138.676	64.9157	200.422	OK	622.825	129.555	57.4414	173.155	OK	0.418867	0.506934	0.40878	1.336877	1.421027	1.327563
RSp1378		hypothetical protein	29.4089	36.8011	5.44685	24.9914	OK	32.1999	41.9729	5.76725	22.4282	OK	21.1184	18.9389	3.79293	16.12	OK	32.6371	38.1221	6.32155	20.8611	OK	0.189709	-0.9584	0.050879	1.140534	-1.94315	1.035896
RSp1379		signal peptide protein	2223.92	433.916	158.646	655.529	OK	3477.59	686.387	248.965	1018.9	OK	4566.02	807.134	379.64	1147.31	OK	2950.94	553.986	248.186	799.31	OK	0.661606	0.895392	0.352434	1.581843	1.860116	1.276713
RSp1380		mercuric reductase	1630.67	86.2204	38.1739	134.029	OK	1302.72	69.0953	30.5205	107.195	OK	1189.3	60.5723	34.2518	86.8726	OK	1853.97	96.0406	53.6796	138.02	OK	-0.31944	-0.50937	0.155615	-1.24785	-1.42343	1.113896
RSp1381	***phnA***	PHNA protein alkylphosphonate uptake	651.052	231.355	69.8619	271.35	OK	896.077	324.744	93.7769	380.38	OK	410.142	124.419	51.6426	151.77	OK	694.445	233.846	85.2661	261.743	OK	0.489195	-0.8949	0.01545	1.403661	-1.85948	1.010767
RSp1382		putative signal peptide protein	364.062	59.2042	25.0448	92.3312	OK	215.279	35.3478	14.8884	55.2833	OK	187.843	28.0532	14.6874	40.4188	OK	230.273	36.1747	17.8754	48.7303	OK	-0.74408	-1.07753	-0.71072	-1.6749	-2.11043	-1.63662
RSp1383	***ssuA2***	putative alkanesulfonates binding protein precursor	119.664	9.14165	4.54972	13.7132	OK	187.679	14.4025	7.17703	21.5952	OK	97.8115	7.12299	4.04579	10.1777	OK	126.015	9.40313	5.3101	13.4649	OK	0.655793	-0.35997	0.040686	1.575481	-1.2834	1.028603
RSp1384	***ripAS***	Type III effector protein	441.134	11.4785	5.69034	17.2908	OK	884.117	23.0405	10.2817	35.8272	OK	671.343	17.0306	10.1188	23.9237	OK	749.747	19.1803	11.2752	27.0798	OK	1.005238	0.569195	0.740691	2.007274	1.483696	1.670976
RSp1385		hypothetical protein	1042.49	172.139	66.851	275.454	OK	1173	195.591	74.4345	310.921	OK	1099.27	166.518	82.522	243.077	OK	846.751	135.024	64.1071	199.457	OK	0.184266	-0.0479	-0.35036	1.136239	-1.03376	-1.27488
RSp1386		putative lipoprotein	32.4512	55.5704	6.68644	24.9862	OK	30.3599	54.4369	5.98261	22.5227	OK	27.7874	32.4365	5.90184	21.1772	OK	13.5988	21.7285	2.43017	11.1094	OK	-0.02973	-0.7767	-1.35473	-1.02082	-1.71321	-2.55749
RSp1387		putative transcription regulator protein	42.5922	27.9185	6.31382	22.7298	OK	54.2798	36.6578	8.08169	28.2859	OK	34.4563	17.812	5.23201	18.1875	OK	39.8898	24.4926	6.22859	21.6755	OK	0.392899	-0.64837	-0.18888	1.313029	-1.5674	-1.13987
RSp1388	***ripAT***	Type III effector protein	374.203	19.6887	9.85066	29.5055	OK	433.318	22.87	11.2911	34.4308	OK	329.002	16.6762	10.0385	23.3316	OK	292.827	15.0954	9.07594	21.1314	OK	0.216089	-0.23958	-0.38326	1.16158	-1.18065	-1.30428
RSp1389		hypothetical protein	806.21	56.009	25.4884	86.5185	OK	1253.96	87.4731	38.4395	136.549	OK	898.088	59.6578	33.6618	85.7006	OK	1288.26	87.4961	47.78	127.18	OK	0.643181	0.091052	0.64356	1.561769	1.065147	1.562179
RSp1390	***fliA***	flagellar biosynthesis sigma factor	305.244	32.7631	15.3819	49.9488	OK	2872.23	310.251	131.506	485.289	OK	1447.17	146.076	77.3718	213.606	OK	2476.79	258.63	134.65	380.939	OK	3.243292	2.156575	2.980746	9.469525	4.458552	7.893942
RSp1391		hypothetical protein	286.99	30.4988	14.2554	46.7075	OK	2587.95	276.759	117.23	434.539	OK	860.297	86.0179	46.4906	123.92	OK	1865.75	192.922	100.509	284.238	OK	3.181806	1.495884	2.661193	9.074423	2.82037	6.32556
RSp1392	***flhF***	flagellar biosynthesis regulator FlhF	1030.33	39.3557	10.9077	67.7813	OK	12558.9	480.799	127.199	834.146	OK	3902.46	144.531	68.0696	221.123	OK	9680.52	362.968	152.125	572.541	OK	3.610789	1.876734	3.205198	12.21676	3.672429	9.222756
RSp1393	***flhA***	flagellar biosynthesis FlhA transmembrane protein	782.885	26.1371	2.37038	50.913	OK	5288.14	176.896	1.73947	405.364	OK	2150.74	69.7712	16.8366	123.144	OK	5926.35	194.337	43.3837	348.25	OK	2.75873	1.416533	2.89439	6.768004	2.669432	7.435293
RSp1394	***flhB***	flagellar biosynthetic FlhB transmembrane protein	177.468	11.4062	5.75404	17.0408	OK	770.037	49.6801	22.7949	76.5177	OK	362.347	22.3196	13.263	31.3837	OK	756.999	47.5976	26.6898	67.9526	OK	2.12285	0.968493	2.061071	4.355535	1.956795	4.172959
RSp1395		putative transcription regulator transcription regulator protein	306.258	38.4466	17.5552	59.3443	OK	399.279	50.4978	22.4211	78.5215	OK	218.964	25.6473	14.024	36.8954	OK	303.706	37.005	19.5771	52.8018	OK	0.393365	-0.58405	-0.05514	1.313453	-1.49905	-1.03896
RSp1396		putative transporter transmembrane protein	283.948	15.71	7.96513	23.4097	OK	272.319	15.1159	7.57659	22.5841	OK	243.417	12.9585	7.80969	18.0629	OK	237.526	12.8712	7.66595	18.0629	OK	-0.05562	-0.27778	-0.28754	-1.0393	-1.21233	-1.22055
RSp1397	***aroQ2***	3-dehydroquinate dehydratase	29.4089	6.24819	2.35444	8.5868	OK	22.9999	4.94805	1.80046	7.06333	OK	25.5644	4.88607	2.04941	7.24124	OK	41.703	8.50765	3.5523	12.5697	OK	-0.33658	-0.35476	0.445322	-1.26276	-1.27878	1.361618
RSp1398	***aroE***	shikimate 5-dehydrogenase	91.269	7.47808	3.73634	11.277	OK	117.76	9.6954	4.75535	14.6057	OK	92.2541	7.18791	4.02099	10.3205	OK	68.9005	5.51017	2.94872	8.04197	OK	0.374633	-0.0571	-0.44057	1.296509	-1.04037	-1.35714
RSp1399		porin signal peptide protein	84.1703	6.14582	3.08434	9.19133	OK	84.6397	6.20681	3.08434	9.3147	OK	108.926	7.59299	4.38149	10.7712	OK	93.3783	6.6626	3.77295	9.55408	OK	0.014246	0.305063	0.11648	1.009924	1.235472	1.084086
RSp1400		hypothetical protein	260.624	9.76403	5.06717	14.4825	OK	485.758	18.2388	8.97026	27.4928	OK	284.543	10.3394	6.34978	14.3208	OK	252.937	9.30264	5.67427	12.8684	OK	0.901462	0.082604	-0.06984	1.867958	1.058928	-1.0496
RSp1401	***cheZ1***	chemotaxis regulator CheZ	227.158	29.1997	11.8506	46.528	OK	3994.63	517.404	174.747	859.457	OK	1986.24	237.912	113.36	361.354	OK	992.712	123.806	55.674	191.649	OK	4.147266	3.026403	2.084056	17.7195	8.147755	4.239975
RSp1402	***che***	chemotaxis response regulator transcription regulator protein	93.2972	24.9918	1.60724	49.5566	OK	1934.75	526.359	13.3307	1097.47	OK	953.663	224.895	46.9287	403.493	OK	617.385	157.863	47.5595	268.226	OK	4.39652	3.169725	2.659146	21.06127	8.998752	6.316592
RSp1403	***cheB***	chemotaxis-specific methylesterase	107.495	7.03528	3.54037	10.5087	OK	2634.87	173.114	77.6633	268.337	OK	1379.37	86.4742	48.1754	124.846	OK	570.243	36.5053	20.7337	52.2223	OK	4.620971	3.61959	2.375426	24.60655	12.29151	5.188891
RSp1404		chemotaxis protein	72.0011	8.58684	2.29348	14.8618	OK	967.836	116.241	23.8522	208.707	OK	350.121	39.065	13.6656	64.4366	OK	249.311	28.8817	7.96407	49.685	OK	3.758848	2.185677	1.749956	13.53711	4.549404	3.363484
RSp1405	***cheR***	chemotaxis protein methyltransferase	140.96	12.6609	4.67061	20.6584	OK	1679.91	151.692	38.557	264.933	OK	699.13	59.5079	28.2588	90.7347	OK	740.681	64.8686	32.4045	97.3886	OK	3.582693	2.232701	2.35714	11.98114	4.700132	5.123538
RSp1406	***cheD3***	methyl-accepting chemotaxis I	103.438	4.0009	2.04448	5.95718	OK	2611.87	101.256	45.6835	156.825	OK	955.886	35.8409	20.6904	50.9783	OK	427.909	16.2457	9.73664	22.742	OK	4.661539	3.16321	2.021661	25.30831	8.958209	4.060511
RSp1407	***cheW***	chemotaxis protein CheW	185.58	36.2092	14.7913	51.704	OK	4482.22	884.677	317.293	1320.22	OK	2181.86	385.687	184.526	585.472	OK	721.642	135.476	61.4655	189.303	OK	4.610723	3.413002	1.903609	24.43238	10.65163	3.74148
RSp1408	***cheA***	chemotaxis sensor histidine kinase transcription regulator protein	511.106	16.303	7.8545	24.7446	OK	11863.4	379.123	148.409	610.348	OK	5184.01	160.783	89.8065	231.289	OK	2134.1	66.8748	38.0432	95.6033	OK	4.539457	3.301906	2.036325	23.2548	9.862173	4.101993
RSp1409	***cheY***	putative chemotaxis response regulator transcription regulator	41.5781	10.6117	3.73339	13.5335	OK	1176.68	304.803	99.4015	415.806	OK	663.562	149.811	67.675	205.02	OK	291.014	70.9871	30.6916	87.0107	OK	4.844149	3.819416	2.741901	28.7233	14.11753	6.689513
RSp1410	***motB***	flagellar motor protein MotB	160.228	13.1785	6.47417	19.8314	OK	4174.94	345.056	150.542	539.06	OK	1558.32	121.863	66.4225	177.014	OK	955.542	76.707	41.6821	111.6	OK	4.710572	3.209002	2.541172	26.18325	9.247107	5.820617
RSp1411	***motA***	flagellar motor protein MotA	142.988	13.1738	6.43262	19.8962	OK	2844.63	263.513	114.216	412.585	OK	1314.9	114.686	61.8345	167.425	OK	797.796	71.6485	38.665	103.894	OK	4.322131	3.121946	2.443265	20.00281	8.705613	5.438712
RSp1412	***flhC***	transcriptional activator FlhC	8393.71	1354.74	494.659	2208.35	OK	11986.6	1953.21	682.926	3218.33	OK	13779.2	2043.44	974.038	3100.36	OK	17129.9	2671.21	1186.83	3990.49	OK	0.527831	0.592984	0.979477	1.44176	1.508363	1.971751
RSp1413	***flhD***	transcriptional activator FlhD	4654.72	1898.98	509.537	2121.38	OK	5301.02	2210.41	574.748	2639.83	OK	10199.1	3493.72	1283.82	4066.42	OK	8438.5	3251.63	1072.45	3331.01	OK	0.219089	0.879539	0.775938	1.163999	1.839788	1.712303
RSp1414		hypothetical protein	53.7473	17.403	5.72453	20.3936	OK	110.4	36.404	11.9857	42.3973	OK	55.5747	15.5256	6.35316	18.883	OK	75.2466	23.1421	8.64736	26.648	OK	1.064761	-0.16469	0.411184	2.091823	-1.12092	1.329776
RSp1415		hypothetical protein	114.593	25.8786	9.94109	34.0014	OK	3982.67	911.404	312.496	1286.29	OK	1806.18	364.975	167.996	533.552	OK	1009.03	218.471	93.805	296.197	OK	5.138259	3.817966	3.07761	35.21844	14.10335	8.442149
RSp1416		hypothetical protein	1375.12	60.9908	27.133	94.8857	OK	1245.68	55.3944	24.6591	86.0675	OK	532.406	22.8328	13.5802	32.0807	OK	519.474	22.5984	13.3834	31.8445	OK	-0.13885	-1.41748	-1.43237	-1.10103	-2.67119	-2.6989
RSp1417		transmembrane efflux transmembrane protein	4434.66	229.948	101.922	357.462	OK	605.358	31.4855	15.0911	47.7503	OK	570.197	28.4925	16.6522	40.2729	OK	459.639	23.3535	13.7109	32.8971	OK	-2.86855	-3.01265	-3.2996	-7.3033	-8.07047	-9.8464
RSp1418		hydrolase protein	1969.38	187.064	80.1946	293.408	OK	206.079	19.6849	9.43014	29.9005	OK	262.313	23.5582	13.4626	33.581	OK	216.674	20.0544	11.118	28.8161	OK	-3.24837	-2.98923	-3.22154	-9.50292	-7.9405	-9.32783
RSp1419	***ralA***	Ralfuranone biosynthesis protein	14588.8	354.274	131.708	576.382	OK	805.917	19.5989	8.83397	30.3696	OK	732.475	17.3548	10.3177	24.4057	OK	68.9005	1.64537	0.948233	2.348	OK	-4.17602	-4.35146	-7.75031	-18.0762	-20.4136	-215.316
RSp1420		hypothetical protein	16.2256	3.3481	1.2228	5.29882	OK	20.2399	4.22755	1.49454	6.92922	OK	11.1149	2.06838	0.804197	3.21679	OK	11.7856	2.33682	0.804197	3.75292	OK	0.336479	-0.69484	-0.5188	1.262671	-1.61871	-1.43276

RSp1421		hypothetical protein	1671.24	108.716	47.7417	169.332	OK	1570.43	102.552	44.9465	160.108	OK	1283.78	80.008	44.6707	115.151	OK	1048.01	66.6877	36.7292	96.2901	OK	-0.08421	-0.44235	-0.70507	-1.06011	-1.35881	-1.63023
RSp1422		putative peptide synthetase protein	7123.04	112.022	44.946	179.028	OK	428.718	6.74859	3.32822	10.1813	OK	410.142	6.31775	3.83548	8.80518	OK	305.519	4.73024	2.89526	6.55165	OK	-4.05305	-4.14823	-4.56572	-16.5993	-17.7313	-23.6821
RSp1423		putative transmembrane protein	3492.56	196.268	15.1155	377.346	OK	145.359	8.19578	1.72327	14.6232	OK	154.498	8.35074	2.81715	13.8429	OK	91.5652	5.03916	1.74858	8.30574	OK	-4.5818	-4.55478	-5.2835	-23.9474	-23.5031	-38.9486
RSp1424	***ralD***	Ralfuranone biosynthesis protein [aminotransferase	6753.91	380.539	68.6264	692.913	OK	302.679	17.1108	5.54007	28.7179	OK	370.128	20.0569	10.2959	29.8583	OK	229.366	12.6557	6.78677	18.5395	OK	-4.47507	-4.24587	-4.91019	-22.2397	-18.973	-30.0686
RSp1425	***pvdA***	L-ornithine 5-monooxygenase oxidoreductase protei	6897.91	377.747	161.291	594.049	OK	507.838	27.9006	13.5252	42.212	OK	586.869	30.9313	18.0908	43.7789	OK	400.711	21.494	12.6303	30.3888	OK	-3.75905	-3.61028	-4.13541	-13.539	-12.2125	-17.5745
RSp1426		hypothetical protein	874.154	223.105	0	479.43	OK	66.2398	17.1586	1.71114	32.5116	OK	70.0242	15.8092	2.45533	29.3105	OK	54.3952	13.2686	3.06916	23.3256	OK	-3.70072	-3.81889	-4.07163	-13.0025	-14.1124	-16.8145
RSp1427		hypothetical protein	5412.25	440.091	97.1415	782.938	OK	200.559	16.3868	5.80554	26.935	OK	222.299	17.1938	7.19226	27.1707	OK	140.521	11.1536	5.261	16.9817	OK	-4.7472	-4.67784	-5.30222	-26.8564	-25.5959	-39.4573
RSp1428		hypothetical protein	4103.05	1099.1	13.1258	2260.85	OK	123.28	33.5388	0.816164	66.3814	OK	254.532	60.0245	24.9972	95.2724	OK	94.2849	24.1083	7.67089	40.6557	OK	-5.03435	-4.19463	-5.51065	-32.771	-18.3109	-45.5901
RSp1429		esterase protein	1227.06	104.945	0	332.633	OK	114.08	9.80613	0	23.297	OK	66.6897	5.41524	0	11.1788	OK	66.1808	5.52205	0.347167	10.6927	OK	-3.41981	-4.27646	-4.24829	-10.702	-19.3796	-19.0047
RSp1430		hypothetical protein	1734.11	139.947	0	407.269	OK	94.7597	7.68389	0	19.1861	OK	33.3448	2.56036	0	6.88259	OK	43.5161	3.42832	0	7.54438	OK	-4.1869	-5.77239	-5.35123	-18.213	-54.6591	-40.8209
RSp1431		putative oxidoreductase signal peptide protei	3968.17	262.105	1.86916	602.209	OK	192.279	12.7501	0.056641	26.1116	OK	136.714	8.64757	1.73217	15.5895	OK	143.241	9.25378	2.73795	15.7572	OK	-4.36156	-4.92171	-4.82396	-20.5571	-30.3097	-28.3241
RSp1432		hypothetical protein	2332.43	624.796	1.92242	1247.33	OK	82.7997	22.526	0	45.0166	OK	98.923	23.3283	4.10901	42.5124	OK	61.6478	15.7631	1.73843	29.5533	OK	-4.79372	-4.74323	-5.30876	-27.7367	-26.7827	-39.6366
RSp1433		hypothetical protein	568.91	303.917	0	660.168	OK	37.7199	20.6883	0	41.3182	OK	32.2333	13.9656	0.227712	27.5531	OK	20.8515	10.4649	0	20.7218	OK	-3.87679	-4.44373	-4.86005	-14.6903	-21.7618	-29.0416
RSp1434		hypothetical protein	5880.77	253.498	5.48342	535.625	OK	259.439	11.2119	0.466674	21.9337	OK	172.282	7.18479	1.91822	12.4685	OK	152.306	6.44048	1.91822	10.9722	OK	-4.49887	-5.14088	-5.29866	-22.6097	-35.2826	-39.3601
RSp1435		putative transmembrane protein	2523.08	139.595	0	388.106	OK	122.36	6.79195	0	16.853	OK	101.146	5.38457	0.479122	10.3011	OK	67.0874	3.63537	0	7.28266	OK	-4.36128	-4.69627	-5.263	-20.553	-25.925	-38.3991
RSp1436		putative acetyltransferase protein	756.519	138.787	0	663.373	OK	48.7598	9.04282	0	34.8658	OK	23.3414	3.89827	0	13.3609	OK	19.9449	3.52554	0	12.3735	OK	-3.93996	-5.15389	-5.29888	-15.3478	-35.6022	-39.3662
RSp1437		hypothetical protein	964.409	189.892	0	382.718	OK	50.5998	10.0796	0.395098	19.7549	OK	17.7839	3.17012	0.389764	5.84647	OK	29.0107	5.49496	1.29921	9.61419	OK	-4.23567	-5.9045	-5.11093	-18.8392	-59.9006	-34.5575
RSp1438		methionyl-tRNA synthetase	6959.77	337.257	106.22	571.514	OK	368.919	17.9283	7.7269	28.1376	OK	146.717	6.86187	3.83508	9.86833	OK	111.51	5.29709	2.8502	7.74304	OK	-4.23354	-5.6191	-5.9925	-18.8114	-49.1494	-63.6684
RSp1439	***cysE1***	serine acetyltransferase protein	2281.73	224.685	95.9701	352.706	OK	123.28	12.2104	5.84029	18.5469	OK	44.4598	4.13314	2.18001	6.07287	OK	54.3952	5.21699	2.72501	7.70788	OK	-4.20172	-5.76452	-5.42854	-18.4011	-54.3618	-43.0679
RSp1440		hypothetical protein	5.0705	4.25633	0.557584	4.73947	OK	4.59998	3.9953	0.278792	4.46067	OK	2.22299	1.42041	0	2.75029	OK	0	0	0	0	OK	-0.09131	-1.5833	NA	-1.06533	-2.99655	NA
RSp1441		two-component sensor kinase transcription regulator protei	708.856	30.5561	10.5002	50.5563	OK	1231.88	53.2368	19.017	87.4625	OK	589.092	24.5673	11.8546	37.2519	OK	756.093	31.9724	16.3049	47.5336	OK	0.800963	-0.31472	0.065367	1.742264	-1.24377	1.046351
RSp1442		two-component response regulator transcription regulator protei	348.85	43.2872	0.744512	89.4655	OK	568.558	71.0696	4.24999	151.125	OK	383.466	44.4239	14.481	74.3746	OK	363.541	43.7916	10.9617	76.6116	OK	0.715292	0.037396	0.016714	1.641816	1.026259	1.011652
RSp1443		putative signal peptide protein	160.228	32.7483	12.9612	46.0393	OK	2536.43	524.697	187.802	768.356	OK	1630.56	300.788	141.581	451.647	OK	2233.83	438.809	194.724	618.268	OK	4.001993	3.199255	3.744101	16.02211	9.184843	13.39944
RSp1444		putative hemagglutinin-related protei	1358.89	22.133	9.34096	34.8917	OK	2987.23	48.7013	21.1071	76.261	OK	1208.19	19.2696	11.0825	27.4748	OK	2261.93	36.2668	20.8531	51.6619	OK	1.137761	-0.19987	0.71245	2.200393	-1.1486	1.638585
RSp1445		activation/secretion signal peptide protein	284.962	12.1615	6.205	18.114	OK	499.558	21.3738	10.3288	32.4125	OK	332.337	13.7246	8.36442	19.0861	OK	436.068	18.2574	10.8738	25.5495	OK	0.813522	0.174443	0.58616	1.757497	1.128529	1.501246
RSp1446	***cfa1***	cyclopropane fatty acyl phospholipid synthase	326.54	20.9248	10.43	31.3451	OK	1471.99	94.6834	41.3336	147.951	OK	1370.47	84.1725	46.9274	121.347	OK	926.531	58.0848	32.3919	83.5656	OK	2.177898	2.008135	1.472947	4.524937	4.022619	2.775883
RSp1447		putative Leu/Ile/Val-binding lipoprotein transmembran	740.293	47.723	21.9108	73.4426	OK	5648.78	365.538	159.477	570.623	OK	4283.7	264.634	146.544	382.612	OK	3625.44	228.635	125.203	330.572	OK	2.937265	2.471242	2.26029	7.659577	5.545209	4.790877
RSp1448	***pykA2***	pyruvate kinase	225.13	11.5342	5.90002	17.1101	OK	275.079	14.136	7.17079	21.0585	OK	230.079	11.3629	6.85013	15.7598	OK	213.048	10.6963	6.35764	14.9987	OK	0.293456	-0.02159	-0.10881	1.225573	-1.01508	-1.07834
RSp1449	***ttuD1***	hydroxypyruvate reductase oxidoreductase protei	124.734	6.81338	3.5058	10.1332	OK	154.559	8.4698	4.32221	12.5824	OK	135.602	7.12927	4.21649	9.9964	OK	137.801	7.37293	4.35862	10.3754	OK	0.313957	0.065384	0.113867	1.243113	1.046363	1.082125
RSp1450		transcription regulator protein	709.87	62.4535	28.1664	96.6735	OK	765.437	67.6934	30.1835	105.318	OK	601.319	50.1741	28.3547	71.7751	OK	554.831	47.6075	26.2938	68.8614	OK	0.116233	-0.31584	-0.39159	1.083901	-1.24474	-1.31184
RSp1451		hypothetical protein	6.0846	29.9369	0.894458	8.49735	OK	2.75999	14.4808	0	5.36675	OK	21.1184	58.7014	5.2943	22.5008	OK	11.7856	53.2014	2.64715	12.3534	OK	-1.04778	0.97147	0.829539	-2.06735	1.960838	1.777118
RSp1452		hypothetical protein	129.805	1259.32	0.499232	818.242	OK	32.1999	337.417	0	235.138	OK	28.8989	137.636	0.492493	151.195	OK	13.5988	116.249	0	75.3514	OK	-1.90004	-3.19372	-3.43735	-3.73224	-9.14964	-10.833
RSp1453		putative cytochrome C signal peptide protei	1931.86	133.777	48.1966	219.308	OK	469.198	32.6242	13.6282	51.8012	OK	679.123	44.9715	25.2298	64.8293	OK	461.452	31.2408	18.0762	44.4118	OK	-2.03582	-1.57275	-2.09833	-4.10054	-2.97471	-4.28212
RSp1454		two-component transmembrane sensor kinase transcription regulator protein	395.499	27.2119	13.3142	41.0571	OK	417.678	28.855	14.1354	43.5205	OK	362.347	23.8455	14.0603	33.5016	OK	581.122	39.0925	22.2187	55.8361	OK	0.084584	-0.19052	0.522654	1.060382	-1.14118	1.436596
RSp1455		two-component response regulator transcription regulator protei	971.508	108.058	46.1497	169.911	OK	1018.44	114.025	48.1486	179.471	OK	1185.96	123.843	65.5036	181.164	OK	1261.06	136.39	70.3049	201.312	OK	0.077544	0.196706	0.335932	1.05522	1.146079	1.262193
RSp1456		putative outer membrane lipoprotei	156.171	7.67166	1.53023	13.7721	OK	159.159	7.84115	1.13675	14.5154	OK	140.048	6.63792	1.55271	11.6884	OK	159.559	7.68299	2.84663	12.551	OK	0.031526	-0.20881	0.002129	1.022093	-1.15573	1.001477
RSp1457		putative cation-efflux system signal peptide protei	49.6909	3.31276	0	7.76466	OK	61.6398	4.12557	0	9.47745	OK	70.0242	4.46929	0	8.95525	OK	66.1808	4.31497	0.394256	8.27938	OK	0.31656	0.432012	0.381317	1.245357	1.349114	1.30253
RSp1458		transporter transmembrane protein	255.553	5.5922	1.53179	9.67216	OK	309.119	6.7731	1.81861	11.7224	OK	406.807	8.69502	4.21064	13.1876	OK	271.976	5.8545	2.54005	9.17	OK	0.2764	0.636773	0.06613	1.211169	1.554848	1.046905
RSp1459		signal peptide protein	144.002	5.93337	3.06138	8.77347	OK	129.72	5.35789	2.76271	7.95212	OK	151.163	6.03091	3.64616	8.39722	OK	113.323	4.58161	2.68858	6.44523	OK	-0.14719	0.023524	-0.373	-1.10741	1.016439	-1.29504
RSp1460	***ripAU***	Type III effector protein	106.481	10.343	4.99596	15.4562	OK	51.5198	5.03319	2.34185	7.57199	OK	43.3483	3.97743	2.07922	5.85261	OK	44.4227	4.20343	2.15622	6.23765	OK	-1.03911	-1.37875	-1.29902	-2.05496	-2.60042	-2.46061
RSp1461		signal peptide protein	456.345	186.174	54.275	198.468	OK	3623.87	1511.07	402	1642.43	OK	8813.04	3018.93	1115	3478.06	OK	3219.29	1240.5	418.549	1347.15	OK	3.020847	4.019314	2.736198	8.116439	16.21564	6.663122
RSp1462		hypothetical protein	214.989	9.53544	4.78818	14.2448	OK	2211.67	98.3517	44.0911	152.264	OK	1493.85	64.0653	36.1744	91.8728	OK	1403.39	61.0511	34.4818	87.4248	OK	3.366579	2.748172	2.678646	10.31433	6.718652	6.402547
RSp1463		ABC transporter ATP-binding protein	180.51	9.71174	3.88586	15.496	OK	1324.8	71.5031	26.0637	116.955	OK	880.304	45.6025	21.1304	70.0764	OK	917.465	48.3551	23.8419	72.8346	OK	2.880204	2.231311	2.315866	7.362543	4.695606	4.979036
RSp1464		ABC transporter ATP-binding protein	120.678	12.5148	2.3852	22.7112	OK	580.518	60.5726	2.7129	131.054	OK	645.778	63.0799	21.099	105.104	OK	500.435	50.5127	13.3238	87.7147	OK	2.27503	2.333545	2.013011	4.840077	5.040424	4.036237
RSp1465		hypothetical protein	114.593	6.70289	3.41636	9.94315	OK	445.278	26.1357	12.7476	39.5176	OK	451.267	25.3624	14.8894	35.7145	OK	348.129	19.9359	11.7204	28.0686	OK	1.963167	1.919836	1.572514	3.899169	3.783801	2.974225
RSp1466		putative Secreted Aspartic Protease	291.047	101.776	32.4805	122.269	OK	2091.15	745.574	212.243	880.707	OK	2340.81	700.082	282.301	896.44	OK	1280.1	424.353	153.765	487.812	OK	2.872954	2.782127	2.059867	7.325637	6.878655	4.16948
RSp1467		putative secreted aspartic protease	60.846	23.1164	7.02556	24.7846	OK	573.158	222.307	64.2058	246.48	OK	148.94	47.9247	19.4445	53.9056	OK	216.674	77.8791	28.493	77.7781	OK	3.265565	1.051853	1.752319	9.616852	2.07319	3.368998
RSp1468		putative signal peptide protein	84.1703	7.00337	3.44022	10.5271	OK	91.9997	7.69255	3.78425	11.5592	OK	70.0242	5.53738	3.0544	8.00933	OK	77.0598	6.25721	3.39378	9.02746	OK	0.135413	-0.33885	-0.16253	1.098407	-1.26474	-1.11925
RSp1469		putative tyrosine specific protein phosphatase	239.328	31.9104	14.3779	48.6252	OK	265.879	35.7315	15.9754	54.3165	OK	171.17	21.223	11.5243	30.4361	OK	248.405	32.1145	16.7448	45.2109	OK	0.16317	-0.5884	0.009198	1.119745	-1.50358	1.006396
RSp1470		putative transcription regulator protein	872.126	57.2533	25.8618	88.6852	OK	875.837	57.7203	25.9745	89.4176	OK	711.357	44.7283	25.4571	63.9207	OK	1249.28	80.2176	44.0775	115.947	OK	0.01172	-0.35617	0.48656	1.008157	-1.28002	1.4011
RSp1471		transcription regulator protein	502.994	44.2528	20.6026	67.8588	OK	540.958	47.841	22.0433	73.5497	OK	642.444	53.6056	29.9892	77.1049	OK	721.642	61.9208	33.6135	90.1097	OK	0.112479	0.276615	0.484655	1.081084	1.211349	1.399252
RSp1472		4-carboxymuconolactone decarboxylase protei	45.6345	17.6412	5.31751	18.7098	OK	32.1999	12.7116	3.54501	13.7861	OK	44.4598	14.5263	5.44001	19.6229	OK	49.8622	18.2286	6.21716	18.8458	OK	-0.4728	-0.28028	0.047255	-1.3878	-1.21443	1.033297
RSp1473		putative oxidoreductase protein	206.876	15.8042	7.88191	23.7098	OK	183.999	14.1201	6.98478	21.1466	OK	146.717	10.6845	6.19512	15.1717	OK	164.092	12.2444	7.01692	17.4475	OK	-0.16256	-0.56479	-0.36819	-1.11927	-1.47917	-1.29073
RSp1474		Acyl-CoA dehydrogenase/oxidase C-termina	398.541	31.9232	15.3336	48.3341	OK	586.958	47.2385	21.867	72.2011	OK	702.465	53.55	30.1216	76.8824	OK	360.821	28.2166	15.9816	39.5264	OK	0.565358	0.746281	-0.17806	1.479755	1.677463	-1.13136
RSp1475	***ripAW***	Type III effector protein	249.469	13.5578	6.88474	20.2239	OK	264.039	14.3957	7.31503	21.467	OK	264.536	13.8392	8.34825	19.2906	OK	242.058	12.886	7.68794	18.1115	OK	0.086515	0.029637	-0.07332	1.061802	1.020756	-1.05213
RSp1476		hypothetical protein	781.871	190.542	66.2151	264.709	OK	680.797	168.287	57.9004	229.939	OK	1008.13	218.293	98.2801	310.499	OK	1394.33	325.152	135.116	431.299	OK	-0.17919	0.196157	0.771005	-1.13224	1.145642	1.706458
RSp1477		signal peptide protein	743.335	177.148	62.3139	247.616	OK	515.198	124.502	44.7229	168.605	OK	553.524	117.455	54.5607	162.947	OK	689.005	157.213	66.9141	203.978	OK	-0.50879	-0.59285	-0.17223	-1.42285	-1.50822	-1.1268
RSp1478		transcription regulator protein	697.701	59.4342	26.939	91.9012	OK	804.997	68.9205	30.7974	106.633	OK	1169.29	94.5846	51.4897	137.306	OK	795.076	66.0799	36.0566	94.9514	OK	0.21364	0.670312	0.152918	1.15961	1.591417	1.111816
RSp1479		hypothetical protein	189.637	41.946	16.349	57.4349	OK	177.559	39.7884	15.3539	53.7386	OK	195.623	38.7894	18.793	51.3302	OK	157.746	33.4704	15.0064	41.6532	OK	-0.07619	-0.11287	-0.32565	-1.05423	-1.08138	-1.25323
RSp1480		hypothetical protein	292.061	32.485	15.1225	49.4523	OK	535.438	59.9482	26.7686	92.4732	OK	165.613	17.2939	9.60262	24.7782	OK	213.954	23.1401	12.5177	32.8375	OK	0.883943	-0.90951	-0.48938	1.845412	-1.87841	-1.40384
RSp1481		hypothetical protein	537.473	17.8882	5.71225	30.0968	OK	1140.8	38.0427	13.0522	63.019	OK	975.892	31.5617	15.3603	47.8078	OK	1012.66	33.1045	16.4207	49.7467	OK	1.088611	0.819167	0.888019	2.126692	1.764387	1.850633
RSp1482		hypothetical protein	110.537	14.6473	0	31.306	OK	206.079	27.5227	0	57.0466	OK	306.773	37.8146	7.94145	67.6494	OK	286.481	36.8124	7.64732	65.8846	OK	0.909987	1.368309	1.329557	1.879029	2.581677	2.513255
RSp1483		hypothetical protein	227.158	29.3756	0.905224	65.1761	OK	213.439	27.8135	0	80.5323	OK	228.968	27.5817	0.120461	59.6283	OK	195.823	24.5667	0.250907	55.0742	OK	-0.07883	-0.09091	-0.25791	-1.05616	-1.06504	-1.19575
RSp1484		putative esterase protein	781.871	86.9651	37.8062	136.102	OK	434.238	48.6178	22.1623	74.9172	OK	461.27	48.1675	26.4929	69.3618	OK	417.03	45.1036	24.0923	65.7608	OK	-0.83895	-0.85238	-0.94719	-1.78875	-1.80547	-1.92812
RSp1485		hypothetical protein	673.362	39.4945	18.2981	60.7209	OK	486.678	28.644	13.8002	43.3429	OK	380.131	21.4212	12.7063	30.1019	OK	487.743	28.0068	16.1854	39.5308	OK	-0.46342	-0.88261	-0.49587	-1.37881	-1.84371	-1.41018
RSp1486		hypothetical protein	1401.49	75.9736	33.5839	118.021	OK	515.198	28.0181	13.5004	42.4569	OK	420.145	21.9258	12.9887	30.7305	OK	472.331	25.0816	14.5887	35.5306	OK	-1.43914	-1.79287	-1.59887	-2.71159	-3.46503	-3.02906
RSp1487	***cmcH***	3'-hydroxymethylcephem-O-carbamoyltransferase protei	1751.35	79.9917	35.4369	124.459	OK	742.437	34.0018	15.8954	51.9878	OK	660.228	29.1408	17.0549	41.1824	OK	743.4	33.2973	19.1969	47.285	OK	-1.23424	-1.45681	-1.26445	-2.35257	-2.74501	-2.40235
RSp1488		hypothetical protein	7.0987	119.338	1.61002	9.66015	OK	0.919997	16.8793	0	2.68337	OK	1.11149	8.07679	0	4.76487	OK	0.906586	12.6898	0	2.64715	OK	-2.82173	-3.88513	-3.23331	-7.07008	-14.7754	-9.40425
RSp1489		hypothetical protein	589.192	40.5388	19.1209	61.9376	OK	270.479	18.6858	9.26717	28.0948	OK	272.316	17.9207	10.5886	25.1696	OK	294.64	19.8207	11.5722	28.0627	OK	-1.11736	-1.17768	-1.0323	-2.1695	-2.26212	-2.04528
RSp1490		hypothetical protein	25.3525	28.9861	4.35562	17.1114	OK	11.96	14.2225	1.8667	8.71124	OK	4.44598	3.69413	0.306916	4.91065	OK	7.25269	7.74115	0.920748	5.52449	OK	-1.02719	-2.97205	-1.90474	-2.03805	-7.84653	-3.74442
RSp1491		putative transferase protein	1085.09	41.5955	18.5651	64.6807	OK	236.439	9.08414	4.65002	13.4955	OK	178.951	6.65087	4.06989	9.20898	OK	240.245	9.03994	5.51849	12.5546	OK	-2.19501	-2.64481	-2.20204	-4.57891	-6.25414	-4.6013
RSp1492		hypothetical protein	6841.12	230.909	97.1926	364.472	OK	894.237	30.2434	13.658	46.8852	OK	256.755	8.41956	5.18688	11.6628	OK	427.909	14.1857	8.53226	19.8268	OK	-2.93263	-4.77744	-4.02482	-7.63502	-27.4253	-16.2776
RSp1493		hypothetical protein	1269.65	451.179	129.179	543.831	OK	127.88	46.3444	14.4996	49.713	OK	21.1184	6.40642	2.22918	9.47401	OK	38.9832	13.1271	4.45836	15.6043	OK	-3.28323	-6.13804	-5.10308	-9.73535	-70.4261	-34.37
RSp1494		hypothetical protein	63.8883	50.1688	10.3259	36.4124	OK	57.0398	46.2918	9.23896	32.0646	OK	92.2541	55.6812	16.352	47.9838	OK	68.9005	50.5916	12.063	36.1889	OK	-0.11603	0.1504	0.012107	-1.08375	1.109877	1.008428
RSp1495		hypothetical protein	4717.59	773.035	295.2	1232.9	OK	2807.83	464.583	178.35	730.69	OK	2473.08	371.963	185.1	546.486	OK	3209.31	507.936	238.787	769.591	OK	-0.7346	-1.05537	-0.60589	-1.66393	-2.07826	-1.52191
RSp1496		cation-efflux system transmembrane protei	2639.7	160.983	72.3321	249.514	OK	2449.95	149.95	67.4148	232.489	OK	1752.83	102.598	57.5853	147.458	OK	2535.72	151.349	83.7699	218.24	OK	-0.10243	-0.64991	-0.08903	-1.07358	-1.56907	-1.06365
RSp1497		lipoprotein signal peptide	58.8178	4.64203	0.921896	8.36291	OK	61.6398	4.88749	1.38284	8.42876	OK	45.5713	3.42466	1.16929	5.65158	OK	51.6754	3.98224	1.4941	6.43111	OK	0.074338	-0.4388	-0.22118	1.052878	-1.35547	-1.16568
RSp1498		signal peptide protein	165.298	4.84099	1.9329	7.79019	OK	113.16	3.31977	1.23216	5.45669	OK	110.038	3.13717	1.62507	4.67563	OK	108.79	3.13109	1.61174	4.66252	OK	-0.54422	-0.62584	-0.62864	-1.45823	-1.54311	-1.5461
RSp1499		putative pili assembly chaperone transmembrane protei	16.2256	1.85272	0.709653	2.92732	OK	8.27997	0.951856	0.354826	1.50801	OK	10.0035	1.071	0.437545	1.66267	OK	16.3185	1.81117	0.787582	2.80029	OK	-0.96083	-0.79069	-0.03272	-1.94643	-1.7299	-1.02294
RSp1500		signal peptide protein	47.6627	8.52557	3.45446	12.3374	OK	51.5198	9.31356	3.82458	13.0776	OK	42.2368	6.89098	3.16441	10.4669	OK	35.3568	6.09714	2.67758	9.1281	OK	0.127536	-0.30709	-0.48366	1.092427	-1.23721	-1.39829
RSp1501		Electron transport protein SCO1/SenC precursor	1949.1	296.739	70.5659	520.382	OK	303.599	46.6398	13.4306	79.8132	OK	112.261	15.765	7.05907	24.4352	OK	307.333	45.2588	17.5934	72.3283	OK	-2.66956	-4.2344	-2.71292	-6.36236	-18.8226	-6.55649
RSp1502		Sulphate-modifying factor-like protei	2518.01	257.398	47.8403	468.385	OK	344.079	35.386	8.4331	62.4255	OK	118.93	11.4586	5.1064	17.7279	OK	415.216	41.3201	18.9078	63.7889	OK	-2.86275	-4.4895	-2.63909	-7.27401	-22.4633	-6.22937
RSp1503		putative copper-containing nitrite reductase	19666.4	923.802	342.212	1503.99	OK	2092.99	98.5883	44.2783	152.622	OK	1432.72	64.9976	36.6353	93.3289	OK	4225.6	194.618	108.621	280.608	OK	-3.2281	-3.82913	-2.24694	-9.3703	-14.2129	-4.74674

RSp1504		hypothetical protein	1540.42	691.847	175.987	745.181	OK	22.9999	10.5747	2.76308	10.8398	OK	4.44598	1.65658	0.209675	2.93545	OK	22.6646	9.59453	2.72578	11.5321	OK	-6.03176	-8.7061	-6.1721	-65.4247	-417.636	-72.1085
RSp1505	***norB***	nitric oxide reductase subunit B	16099.9	491.628	181.775	802.871	OK	431.478	13.1995	6.55069	19.8222	OK	168.947	5.01939	3.07727	6.93784	OK	347.222	10.4182	6.35036	14.4632	OK	-5.21901	-6.61391	-5.56039	-37.246	-97.9458	-47.1893
RSp1506		transcription regulator protein	840.689	96.5074	41.5088	151.249	OK	699.197	80.8117	34.9173	126.486	OK	839.179	90.3016	48.5055	131.984	OK	1594.68	177.925	91.3871	262.562	OK	-0.25608	-0.09589	0.882558	-1.19423	-1.06872	1.843641
RSp1507		ABC transporter ATP-binding protein	1094.21	112.929	28.6773	197.054	OK	770.037	79.9588	21.3031	138.225	OK	753.593	73.2733	30.8767	115.585	OK	1399.77	140.619	63.9357	217.107	OK	-0.49809	-0.62406	0.316376	-1.41234	-1.5412	1.245198
RSp1508		transmembranee ABC transporter protein	1335.57	117.022	19.4516	214.844	OK	794.877	70.0085	8.27902	132.024	OK	829.175	68.915	27.9259	109.958	OK	1122.35	95.9154	33.0727	158.783	OK	-0.74118	-0.76389	-0.28695	-1.67154	-1.69806	-1.22005
RSp1509		putative periplasmic substrate-binding transmembrane protei	2270.57	166.355	73.6807	259.027	OK	1194.16	87.8702	38.6653	136.226	OK	1767.28	123.599	68.597	178.023	OK	1774.19	127.017	69.0853	184.919	OK	-0.92082	-0.4286	-0.38924	-1.89319	-1.34593	-1.30971
RSp1510		hypothetical protein	618.601	167.784	56.8149	232.586	OK	303.599	83.6451	29.3759	106.851	OK	444.598	106.027	47.9273	140.916	OK	368.074	95.2637	39.966	115.28	OK	-1.00425	-0.66217	-0.81661	-2.0059	-1.58246	-1.76126
RSp1511		hypothetical protein	438.091	425.2	75.5756	276.718	OK	71.7597	72.2423	12.6449	45.5806	OK	112.261	81.1743	21.7574	63.5316	OK	117.856	106.832	22.9178	67.0128	OK	-2.55723	-2.38905	-1.9928	-5.88575	-5.23811	-3.98008
RSp1512		putative transcription regulator protein	2595.08	311.218	129.631	491.622	OK	402.959	48.6693	21.8355	74.9042	OK	474.608	53.2353	28.8119	77.6194	OK	325.464	37.9111	20.2683	54.5336	OK	-2.67684	-2.54747	-3.03723	-6.39454	-5.84608	-8.20915
RSp1513		hypothetical protein	4408.29	1027.84	351.706	1456.52	OK	253.919	60.0179	22.3492	80.5747	OK	178.951	37.2263	17.696	49.0267	OK	117.856	26.3248	11.4589	33.5064	OK	-4.09808	-4.78715	-5.28705	-17.1256	-27.6106	-39.0446
RSp1514		putative transcription regulator protein	303.216	27.0086	13.0257	40.9692	OK	401.119	35.9178	17.0281	54.7954	OK	332.337	28.0619	16.1521	39.6265	OK	300.987	26.1441	14.7164	37.5447	OK	0.41128	0.055194	-0.04693	1.329865	1.038999	-1.03307
RSp1515		hypothetical protein	182.538	50.782	1.6387	99.9608	OK	226.319	63.9783	2.29418	125.361	OK	153.386	37.422	5.0114	69.3513	OK	187.663	49.7852	7.43627	91.9834	OK	0.333265	-0.44043	-0.0286	1.259862	-1.35701	-1.02002
RSp1516		serine/threonine dehydratase	750.434	59.6646	17.8892	101.372	OK	927.357	74.0784	21.9308	126.218	OK	613.545	46.4372	21.3733	71.4404	OK	727.988	56.512	25.6872	87.0618	OK	0.312178	-0.36159	-0.07832	1.24158	-1.28484	-1.05579
RSp1517		hypothetical protein	353.921	47.1896	0.266667	102.534	OK	436.078	58.6047	1.07512	128.611	OK	375.685	46.5803	10.167	83.0716	OK	398.898	51.5707	10.3426	92.8252	OK	0.312547	-0.01875	0.128083	1.241899	-1.01308	1.09284
RSp1518		alanin-rich signal peptide protei	2935.82	504.149	193.803	787.563	OK	2020.31	350.48	131.56	547.228	OK	1736.15	272.749	134.398	396.333	OK	793.263	131.443	62.4668	190.713	OK	-0.52452	-0.88628	-1.93941	-1.43845	-1.8484	-3.8355
RSp1519		putative sulfate transporter transmembrane protei	1506.95	62.937	27.9298	97.9621	OK	1197.84	50.1504	22.4874	77.8557	OK	519.068	20.9858	12.5274	29.3796	OK	566.616	23.2183	13.6086	32.8097	OK	-0.32765	-1.58449	-1.43865	-1.25497	-2.99903	-2.71066
RSp1520		hypothetical protein	983.677	117.969	49.844	185.556	OK	1008.32	121.784	50.7653	192.466	OK	864.743	96.9954	51.6251	142.242	OK	829.526	96.6258	49.6255	142.605	OK	0.045917	-0.28242	-0.28793	1.032339	-1.21623	-1.22089
RSp1521		ACVB-like protein	1429.88	55.7081	13.0576	98.2514	OK	2112.31	82.485	16.6059	148.459	OK	1638.34	61.8678	26.9528	96.785	OK	1885.7	72.1081	29.5781	114.672	OK	0.566245	0.151302	0.372274	1.480664	1.110571	1.294392
RSp1522		hypothetical protein	1677.32	43.3819	7.16427	79.8932	OK	2631.19	68.1565	12.0191	124.284	OK	1576.1	39.7444	14.651	65.0344	OK	1981.8	50.3946	19.0716	81.6518	OK	0.651758	-0.12634	0.216176	1.571081	-1.09152	1.16165
RSp1523		hypothetical protein	277.863	151.994	38.9673	140.935	OK	182.159	102.345	25.9004	90.5347	OK	238.971	105.683	37.5205	101.973	OK	250.218	128.537	39.362	106.577	OK	-0.57057	-0.52427	-0.24183	-1.48511	-1.43821	-1.18249
RSp1524		hypothetical protein	1528.25	72.5813	32.1581	112.935	OK	1545.59	73.6113	32.6672	114.378	OK	978.115	44.8543	25.6554	64.0338	OK	1416.09	65.9376	36.9555	94.8789	OK	0.020329	-0.69435	-0.1385	1.014191	-1.61816	-1.10076
RSp1525		hypothetical protein	1130.72	47.0409	21.1657	73.0254	OK	974.276	40.632	18.6047	62.6686	OK	385.689	15.534	9.3997	21.6602	OK	698.071	28.4947	16.5331	40.4224	OK	-0.2113	-1.59849	-0.72322	-1.15773	-3.02825	-1.65086
RSp1526		hypothetical protein	1870	103.462	46.0423	160.808	OK	154.559	8.5793	4.37111	12.7733	OK	106.703	5.68043	3.35385	8.00134	OK	132.362	7.1725	4.21627	10.1095	OK	-3.5921	-4.18696	-3.85048	-12.0595	-18.2138	-14.4248
RSp1527		hypothetical protein	562.826	33.284	15.9587	50.6045	OK	70.8397	4.20394	2.11066	6.28051	OK	68.9127	3.91463	2.23452	5.58631	OK	67.9939	3.93631	2.18374	5.68788	OK	-2.98501	-3.08788	-3.07991	-7.91733	-8.50246	-8.45563
RSp1528		hypothetical protein	25.3525	4.85841	1.81047	7.11256	OK	9.19997	1.78311	0.517277	2.97434	OK	13.3379	2.31903	0.893014	3.69963	OK	4.53293	0.836153	0.127573	1.53088	OK	-1.44609	-1.06696	-2.53865	-2.72468	-2.09502	-5.81043
RSp1529	***efe***	1-aminocyclopropane-1-carboxylate oxidase (Ethylene-forming enzyme)	1281.82	94.2353	41.3829	146.981	OK	220.799	16.3031	8.12768	24.4451	OK	190.066	13.3368	7.83434	18.7902	OK	223.927	16.0857	9.24207	22.7685	OK	-2.53112	-2.82086	-2.55049	-5.78021	-7.06581	-5.85833
RSp1530		putative L-ascorbate oxidase (ASCORBASE) oxidoreductase	10704.8	346.084	137.771	554.973	OK	629.278	20.3832	9.62726	31.1541	OK	542.409	17.0476	10.2347	23.7727	OK	430.628	13.6764	8.25852	19.0831	OK	-4.08567	-4.34348	-4.66136	-16.9789	-20.301	-25.3052
RSp1532		lipoprotein	37.5217	7.89389	0.825654	14.9994	OK	54.2798	11.5619	0.825654	22.2926	OK	147.829	28.0015	10.0456	45.7482	OK	94.2849	19.0512	5.5658	32.1731	OK	0.55057	1.826696	1.271074	1.464664	3.547237	2.413411
RSp1533		lipoprotein	196.735	50.8117	22.2116	79.5485	OK	318.319	83.4555	35.1316	132.399	OK	280.097	63.918	31.4916	96.3003	OK	269.256	66.4442	35.7816	97.2272	OK	0.715846	0.331062	0.386983	1.642447	1.257939	1.307656
RSp1534		signal peptide protein	518.205	48.5774	22.4531	74.5656	OK	742.437	69.984	31.0247	109.004	OK	910.314	80.7279	44.3	117.185	OK	704.417	64.354	34.7216	93.913	OK	0.52674	0.732782	0.405745	1.44067	1.661841	1.324772
RSp1535		activation/secretion signal peptide protein	145.016	5.87369	3.0142	8.71178	OK	284.279	11.5419	5.91813	17.1295	OK	194.512	7.63098	4.67784	10.5523	OK	270.163	10.7381	6.56348	14.9038	OK	0.974542	0.377601	0.8704	1.965017	1.29918	1.828169
RSp1536		hemagglutinin-like signal peptide protei	205.862	5.57281	2.83861	8.31307	OK	343.159	9.30434	4.71412	13.9143	OK	255.644	6.74366	4.15043	9.32597	OK	368.98	9.81895	6.02563	13.6014	OK	0.739499	0.275127	0.817164	1.669596	1.2101	1.761939
RSp1539		hemagglutinin-related protei	67.9447	0.543431	0.263938	0.823807	OK	89.2397	0.714087	0.344082	1.08826	OK	37.7908	0.297091	0.149368	0.448103	OK	64.3676	0.507341	0.275867	0.733019	OK	0.394003	-0.87119	-0.09914	1.314034	-1.82917	-1.07114
RSp1545		putative hemagglutinin-related protei	734.208	5.97469	2.50638	9.46402	OK	1072.72	8.73352	3.43571	14.0278	OK	975.892	7.80522	4.35893	11.2612	OK	986.365	7.90988	4.37048	11.4354	OK	0.547699	0.385575	0.404792	1.461753	1.306381	1.323898
RSp1546		hypothetical protein	77.0716	77.7822	13.715	47.4063	OK	94.7597	99.2609	16.9947	59.9287	OK	15.5609	11.6315	2.35302	9.70622	OK	44.4227	41.8655	8.23558	29.4128	OK	0.351785	-2.7414	-0.89368	1.276139	-6.6872	-1.85791
RSp1548		hypothetical protein	815.336	149.577	57.1198	229.609	OK	1022.12	189.558	70.5523	290.746	OK	384.577	64.2287	32.3231	93.997	OK	826.806	146.15	67.4946	206.694	OK	0.341751	-1.2196	-0.03344	1.267294	-2.32882	-1.02345
RSp1549		hypothetical protein	176.453	67.0376	20.8815	73.3781	OK	243.799	94.5606	28.4926	102.261	OK	135.602	43.633	17.7118	49.0926	OK	166.812	59.9571	21.9473	60.6438	OK	0.496269	-0.61955	-0.16104	1.410561	-1.5364	-1.11809
RSp1550		hypothetical protein	236.285	47.3926	18.9336	67.8677	OK	480.238	97.4699	37.3339	147.336	OK	297.881	54.0087	26.8332	76.5536	OK	317.305	61.1957	28.5432	81.815	OK	1.040295	0.18853	0.368768	2.056648	1.139602	1.29125
RSp1551		hypothetical protein	1770.62	564.925	168.897	770.328	OK	2622.91	852.055	255.475	1043.01	OK	3271.13	901.945	372.439	1198.87	OK	2975.41	902.04	338.31	1091.76	OK	0.592887	0.67498	0.675132	1.508262	1.596575	1.596743
RSp1552		protease signal peptide protein	2837.45	139.385	63.1768	215.369	OK	2668.91	131.487	59.2856	203.215	OK	3361.16	159.31	89.8845	227.946	OK	3005.33	144.711	80.7839	208.58	OK	-0.08416	0.192762	0.054099	-1.06007	1.142949	1.038211
RSp1553		transmembrane two-component sensor kinase transcription regulator protein	1001.93	55.8658	25.1834	86.2103	OK	1421.39	79.5157	35.0611	124.108	OK	1165.96	62.5422	35.3114	89.6775	OK	1271.94	69.4579	38.7847	99.9525	OK	0.509274	0.162865	0.314173	1.423334	1.119508	1.243299
RSp1554		two-component response regulator transcription regulator protei	981.649	109.186	46.6712	171.562	OK	1402.99	157.081	65.1832	248.826	OK	1204.86	125.816	66.5324	184.079	OK	997.244	107.857	55.9867	158.7	OK	0.524721	0.204528	-0.01767	1.438655	1.152309	-1.01232
RSp1555	***ripF1, popF1***	Type III secretion translocon protein PopF1	16493.3	526.094	194.473	857.971	OK	20688.9	661.164	238.972	1084.84	OK	65526	2032.3	738.842	3327.12	OK	29459.5	923.151	435.138	1409.17	OK	0.329688	1.949721	0.811246	1.256741	3.862998	1.754726
RSp1556	***hexR***	putative transcription regulation repressor HEXR transcription regulator protein	1231.12	117.983	50.5787	185.404	OK	1671.63	161.11	68.3392	253.666	OK	1010.35	91.5152	49.6674	133.31	OK	1020.82	95.3155	50.5053	140.089	OK	0.449467	-0.3665	-0.3078	1.365536	-1.28922	-1.23782
RSp1557	***glk***	glucokinase protein	3189.34	229.749	0.121972	571.376	OK	4941.3	357.472	0	950.037	OK	1741.71	119.833	0	316.334	OK	2495.83	175.711	1.62439	380.949	OK	0.637772	-0.93903	-0.38685	1.555924	-1.91724	-1.30754
RSp1558	***pgl***	6-phosphogluconolactonase oxidoreductase protei	3230.92	383.19	0.091349	867.632	OK	5830.94	696.424	0.274047	1599.43	OK	2309.69	256.354	0.360463	544.209	OK	2384.32	274.711	1.26162	548.625	OK	0.861906	-0.57992	-0.48015	1.817438	-1.49477	-1.39488
RSp1559	***zwf***	glucose-6-phosphate 1-dehydrogenase	14404.3	709.209	97.3396	1323.27	OK	27138.1	1340.06	176.087	2524.86	OK	16093.3	764.493	313.429	1214.76	OK	14217.1	686.132	271.903	1099.48	OK	0.918015	0.108292	-0.04772	1.889514	1.077952	-1.03363
RSp1560	***edd***	phosphogluconate dehydratase	23308.1	899.915	322.885	1476.86	OK	40915	1583.31	541.25	2619.68	OK	11903	445.514	240.76	649.793	OK	22184.2	840.72	420.211	1261.43	OK	0.815083	-1.01432	-0.09816	1.759399	-2.01995	-1.07041
RSp1561		hypothetical protein	26517.7	5805.85	1734.87	9855.33	OK	22421.2	4972.55	1486.87	8372.55	OK	6279.95	1233.68	562.589	1854.12	OK	17117.2	3595.91	1459.42	4905.17	OK	-0.22352	-2.23454	-0.69115	-1.16758	-4.70612	-1.61457
RSp1562		hypothetical protein	241.356	52.311	20.4848	72.6791	OK	323.839	71.0887	27.2196	99.3375	OK	287.877	56.0328	27.4058	77.6497	OK	237.526	49.4083	22.4229	63.8084	OK	0.442506	0.099157	-0.08236	1.358963	1.071148	-1.05875
RSp1563		hypothetical protein	1209.82	221.948	82.4785	345.229	OK	434.238	80.5323	32.0122	117.127	OK	517.957	86.5046	43.2213	127.93	OK	597.44	105.606	49.4135	149.107	OK	-1.46258	-1.35937	-1.07153	-2.75601	-2.56574	-2.10166
RSp1564	***coxM***	cytochrome C oxidase polypeptide II	1443.06	93.5894	40.9267	145.92	OK	788.437	51.33	23.4743	79.0097	OK	643.555	39.9902	22.9374	56.9309	OK	1023.54	64.935	35.8087	93.7847	OK	-0.86654	-1.2267	-0.52735	-1.82329	-2.34031	-1.44128
RSp1565	***coxN***	cytochrome C oxidase polypeptide I	720.011	28.9989	9.80095	48.1636	OK	505.078	20.3908	7.35071	33.389	OK	729.141	28.4472	14.8998	42.0297	OK	914.745	36.1545	18.9765	53.3218	OK	-0.50808	-0.02771	0.318177	-1.42216	-1.01939	1.246754
RSp1566	***coxO***	cytochrome-C oxidase oxidoreductase protein	135.889	19.5778	0	41.665	OK	88.3197	12.8333	0	26.9659	OK	63.3552	8.44885	0	18.5692	OK	105.164	14.6707	0.312964	29.0013	OK	-0.60933	-1.21239	-0.41628	-1.52555	-2.31721	-1.33448
RSp1567	***coxP***	cytochrome-C oxidase subunit III oxidoreductase protei	254.539	30.1886	0.355803	70.3303	OK	172.959	20.6576	0.238872	46.9384	OK	196.735	21.8358	1.77586	43.6195	OK	245.685	28.3067	1.38259	56.8013	OK	-0.54733	-0.46731	-0.09286	-1.46138	-1.38253	-1.06648
RSp1568	***coxQ***	cytochrome oxidase subunit	171.383	61.9041	19.7572	69.3403	OK	112.24	41.3563	12.9182	45.7836	OK	140.048	43.1014	17.8038	49.2885	OK	183.13	62.6567	23.4261	66.5301	OK	-0.58193	-0.5223	0.017434	-1.49685	-1.43624	1.012158
RSp1569		putative lipoprotein transmembrane	1215.91	92.5591	40.634	144.455	OK	1046.04	79.987	35.4589	124.266	OK	1549.42	112.448	61.7038	162.737	OK	1390.7	103.408	55.7792	150.825	OK	-0.21061	0.280811	0.159901	-1.15718	1.214878	1.117211
RSp1570		hypothetical protein	2448.04	137.931	62.0816	213.041	OK	1569.51	88.7267	39.0847	138.326	OK	1398.26	75.7706	42.5491	108.856	OK	2095.12	115.602	64.4079	166.448	OK	-0.63651	-0.86424	-0.25478	-1.55456	-1.82038	-1.19315
RSp1571		transcriptional regulator transcription regulator protei	2228.99	176.566	77.9417	274.844	OK	512.438	40.7824	19.0891	62.3534	OK	419.034	31.6023	18.1798	44.9608	OK	527.633	40.8093	22.8714	58.6445	OK	-2.11419	-2.48211	-2.11324	-4.32947	-5.58712	-4.32661
RSp1572		putative transport transmembrane protei	4446.83	251.209	110.995	390.907	OK	423.198	23.9871	11.8711	36.1081	OK	353.455	19.2026	11.4669	26.9351	OK	378.953	20.9641	12.394	29.4236	OK	-3.38856	-3.70951	-3.5829	-10.4727	-13.082	-11.9828
RSp1573		hypothetical protein	4045.25	196.914	87.9063	305.916	OK	1347.8	65.7965	28.8829	102.304	OK	834.733	39.2131	22.6746	55.7452	OK	966.421	46.115	26.1399	66.0985	OK	-1.58148	-2.32816	-2.09426	-2.99277	-5.02164	-4.27006
RSp1574		putative transcriptional regulator transcription regulator protei	4496.52	387.655	167.627	607.594	OK	6042.54	523.602	219.204	827.294	OK	3069.95	251.208	136.638	365.184	OK	3542.94	297.967	158.305	437.662	OK	0.433697	-0.62589	-0.37962	1.350691	-1.54316	-1.301
RSp1575		amino-acid-binding periplasmic (PBP) ABC transporter protei	2327.36	217.222	93.8803	340.524	OK	1644.95	154.38	65.686	243.015	OK	885.861	78.2318	42.9509	113.492	OK	1227.52	111.662	58.9084	164.198	OK	-0.49268	-1.47334	-0.96003	-1.40706	-2.77665	-1.94535
RSp1576		amino-acid transmembrane ABC transporter protei	866.041	107.463	19.1028	195.567	OK	655.958	81.9945	13.4287	150.269	OK	155.609	18.0271	3.3585	32.7454	OK	308.239	37.13	9.60904	64.5578	OK	-0.39024	-2.5756	-1.53318	-1.31061	-5.96119	-2.89424
RSp1577		amino-acid transmembrane ABC transporter protei	1691.52	213.597	55.6873	371.501	OK	1410.35	179.428	48.5989	310.422	OK	738.033	86.9264	45.5814	128.382	OK	980.926	120.212	60.5396	179.903	OK	-0.25149	-1.29703	-0.82931	-1.19043	-2.45722	-1.77684
RSp1578		arginase family protei	3576.73	289.74	128.062	448.384	OK	2696.51	219.484	95.8949	342.866	OK	882.527	68.0108	37.641	98.0524	OK	1479.55	116.998	62.8013	171.21	OK	-0.40064	-2.09092	-1.30828	-1.3201	-4.26021	-2.47645
RSp1579		putative transcription regulator protein	2697.51	290.989	122.862	458.783	OK	1944.87	211.143	88.4135	332.187	OK	716.914	72.7115	39.4247	105.802	OK	1255.62	131.764	68.3027	194.696	OK	-0.46274	-2.00071	-1.14301	-1.37816	-4.00197	-2.20841
RSp1580		hypothetical protein	1020.18	263.488	87.905	362.275	OK	120.52	31.5973	11.4386	38.86	OK	42.2368	9.63843	4.01903	14.3758	OK	59.8347	14.7654	6.02855	17.9311	OK	-3.05986	-4.7728	-4.15744	-8.33894	-27.3372	-17.845
RSp1581	***katE***	catalase hydroperoxidase HpiI oxidoreductase	12926.7	608.546	236.6	980.452	OK	6123.5	289.075	125.182	452.954	OK	1636.12	74.3846	42.1468	106.301	OK	4702.46	217.053	120.502	313.339	OK	-1.07392	-3.03229	-1.48732	-2.10515	-8.18108	-2.80367
RSp1582	***ripAZ1***	Type III effector protein	335.667	32.1683	15.3667	48.8799	OK	1182.2	113.938	48.7254	179.072	OK	795.83	72.0846	39.6882	103.448	OK	790.543	73.8145	39.7644	107.79	OK	1.824537	1.164051	1.198265	3.541934	2.240858	2.294635
RSp1583		O-acetylhomoserine sulfhydrylase	2899.31	168.214	75.9446	260.034	OK	5196.14	302.508	133.257	471.464	OK	3425.63	191.008	106.685	275.354	OK	3125.91	177.567	98.3941	256.274	OK	0.846676	0.183335	0.078066	1.798352	1.135506	1.055602
RSp1590		FAD dependent oxidoreductase	484.74	30.1619	14.5803	45.6779	OK	310.959	19.42	9.73816	29.0531	OK	295.658	17.6471	10.5621	24.6802	OK	283.761	17.2777	10.1375	24.3617	OK	-0.63518	-0.7733	-0.80382	-1.55314	-1.70917	-1.74571
RSp1591		putative transmembrane aldehyde dehydrogenase oxidoreductase protein	874.154	41.6084	19.0015	64.0609	OK	472.878	22.5716	11.0948	33.8796	OK	403.473	18.5425	11.1128	25.9578	OK	338.157	15.7804	9.43539	22.0578	OK	-0.88237	-1.16604	-1.39874	-1.8434	-2.24395	-2.63671
RSp1592	***livK***	Leu/Ile/Val-binding transmembrane protei	909.648	59.7165	26.9887	92.4602	OK	406.638	26.7987	13.1281	40.3422	OK	533.517	33.5462	19.4541	47.5236	OK	427.002	27.4183	15.73	39.075	OK	-1.15597	-0.83198	-1.12299	-2.22834	-1.78013	-2.17798
RSp1593		transcription regulator transcription regulator protei	740.293	65.3981	29.2732	101.408	OK	778.317	69.1172	30.7188	107.48	OK	704.688	59.0318	32.871	85.0653	OK	776.038	66.8591	36.5075	97.1156	OK	0.079796	-0.14776	0.031875	1.056869	-1.10785	1.02234
RSp1594		porin signal peptide protein	160.228	10.7152	5.38106	16.0287	OK	229.079	15.3803	7.78536	22.9554	OK	175.616	11.2426	6.66376	15.8123	OK	126.922	8.30084	4.80016	11.7463	OK	0.521425	0.069317	-0.36833	1.435372	1.04922	-1.29086
RSp1595		putative 3-hydroxyphenylpropionic transporter MhpT	74.0293	4.2835	2.22247	6.36433	OK	63.4798	3.68565	1.86889	5.50565	OK	52.2403	2.9052	1.59452	4.18561	OK	43.5161	2.46532	1.35967	3.6258	OK	-0.21687	-0.56015	-0.79702	-1.16221	-1.47443	-1.7375
RSp1596		hypothetical protein	2.0282	3.92496	0	17.4167	OK	2.75999	5.60389	0	20.304	OK	2.22299	2.8739	0	9.04966	OK	0	0	0	0.717871	OK	0.513751	-0.44967	NA	1.427757	-1.36573	NA
RSp1597		transport transmembrane protein	1738.17	36.9072	5.90594	67.868	OK	2039.63	43.3626	9.81636	77.0393	OK	1094.82	22.7128	8.51065	36.906	OK	1596.5	33.349	14.0386	52.6149	OK	0.232549	-0.7004	-0.14626	1.174909	-1.62495	-1.1067
RSp1598		putative transport transmembrane protei	582.093	33.9558	0.05087	79.5601	OK	603.518	35.3271	0.101739	80.5267	OK	401.25	22.4916	2.30841	42.7559	OK	435.161	24.8527	1.70622	47.9247	OK	0.057117	-0.59427	-0.45026	1.040385	-1.50971	-1.36628

RSp1599		putative outer membrane drug efflux lipoprotei	779.843	38.9321	0.221766	85.7793	OK	632.038	31.6464	0.044353	76.8199	OK	445.709	21.4617	2.4065	40.5605	OK	412.497	20.1835	1.13762	39.3791	OK	-0.29892	-0.8592	-0.94778	-1.23022	-1.81403	-1.92891
RSp1600		hypothetical protein	1002.94	84.1018	0.586984	193.034	OK	743.357	62.6438	0.168543	153.121	OK	492.392	39.2304	1.1951	78.3983	OK	404.337	33.0857	0.818269	72.8259	OK	-0.42496	-1.10016	-1.34593	-1.34254	-2.14379	-2.54194
RSp1601	***ripAD***	Type III effector protein	1506.95	126.365	54.7755	197.219	OK	3413.19	287.634	126.171	447.206	OK	4529.34	360.867	195.035	524.99	OK	3711.56	303.706	162.176	444.653	OK	1.186637	1.51387	1.265078	2.276216	2.855751	2.403403
RSp1602		hypothetical protein	296.117	2872.83	88.8634	332.988	OK	26.6799	279.574	7.48849	30.4532	OK	14.4494	68.8178	3.93994	16.7448	OK	6.3461	54.2493	0.984986	9.35737	OK	-3.36117	-5.38355	-5.72672	-10.2757	-41.7454	-52.9561
RSp1603		hypothetical protein	5999.42	406.273	175.497	636.951	OK	519.798	35.3412	16.7801	53.7543	OK	280.097	18.1507	10.7884	25.4583	OK	332.717	22.0322	12.7292	31.1664	OK	-3.52303	-4.48435	-4.20476	-11.4957	-22.3833	-18.44
RSp1604		hypothetical protein	3472.28	315.842	136.871	494.333	OK	260.359	23.8102	11.4737	35.5316	OK	106.703	9.19313	5.18476	13.1445	OK	128.735	11.4162	6.28013	16.4306	OK	-3.72955	-5.1025	-4.79005	-13.265	-34.3563	-27.6661
RSp1605		hemagglutinin-like protei	26704.3	220.146	69.3922	371.02	OK	2296.31	18.9396	7.98753	29.9068	OK	1613.89	13.0759	7.42556	18.7312	OK	1756.06	14.2659	8.19043	20.4123	OK	-3.53898	-4.07348	-3.94782	-11.6236	-16.836	-15.4316
RSp1606		hypothetical protein	4934.61	430.612	184.473	675.781	OK	311.879	27.3564	13.238	41.3597	OK	274.539	22.7285	13.1299	32.0482	OK	284.668	24.2297	13.7652	34.7306	OK	-3.97644	-4.24381	-4.15154	-15.7408	-18.9459	-17.7721
RSp1607		hypothetical protein	8565.09	536.052	223.051	848.136	OK	717.597	45.0776	20.764	69.4298	OK	691.35	41.4989	23.791	59.0508	OK	661.808	40.5293	22.9909	57.8239	OK	-3.57189	-3.69123	-3.72534	-11.8918	-12.9173	-13.2263
RSp1608		hypothetical protein	1916.65	585.767	179.7	750.652	OK	273.239	84.97	28.0456	103.007	OK	394.581	104.709	45.7701	125.355	OK	285.575	83.0228	33.4736	89.8323	OK	-2.7853	-2.48394	-2.81875	-6.89381	-5.59424	-7.0555
RSp1609		acid sphingomyelinase-like phosphodiesterase transmembran	5021.82	254.853	112.24	397.162	OK	1305.48	66.4506	29.4777	103.105	OK	1330.46	65.1001	36.7604	93.2773	OK	1025.35	50.9952	28.6802	73.2989	OK	-1.93931	-1.96893	-2.32123	-3.83522	-3.91479	-4.99759
RSp1610		hypothetical protein	5370.67	307.444	134.456	480.43	OK	2866.71	164.661	74.2588	255.002	OK	2457.51	135.247	76.1194	193.705	OK	2552.04	143.05	79.723	205.601	OK	-0.90082	-1.18473	-1.1038	-1.86713	-2.2732	-2.14921
RSp1611	***gabD2***	succinate-semialdehyde dehydrogenase oxidoreductase protei	338.709	16.5251	8.3869	24.6827	OK	456.318	22.3273	10.9942	33.6345	OK	258.978	12.193	7.41631	16.9761	OK	247.498	11.8366	7.11622	16.5474	OK	0.43415	-0.43861	-0.4814	1.351114	-1.35529	-1.3961
RSp1612	***ttuC***	tartrate dehydrogenase oxidoreductase protein	322.484	22.4763	11.2079	33.7423	OK	416.758	29.1669	14.2323	44.0607	OK	329.002	21.9236	12.8701	30.7713	OK	307.333	20.9406	12.1681	29.6013	OK	0.375927	-0.03592	-0.1021	1.297674	-1.02521	-1.07334
RSp1613	***hpaI2***	2,4-dihydroxyhept-2-ene-1,7-dioic acid aldolase protei	178.482	18.5093	4.85269	32.1594	OK	229.999	23.9986	6.41542	41.5358	OK	155.609	15.2	5.27401	25.153	OK	163.185	16.4715	5.35515	27.5872	OK	0.3747	-0.28418	-0.16828	1.29657	-1.21772	-1.12372
RSp1614		transport transmembrane protein	302.202	16.4236	5.05423	27.8254	OK	334.879	18.258	5.17952	31.3497	OK	376.797	19.7121	10.0968	29.3488	OK	426.095	22.6832	11.552	33.8575	OK	0.152758	0.263311	0.465854	1.111693	1.20023	1.381134
RSp1615	***uxaA***	putative altronate hydrolase (ALTRONIC acid hydratase) protei	203.834	9.38989	4.78879	13.9535	OK	218.959	10.1141	5.11905	15.0682	OK	143.383	6.38176	3.82819	8.91886	OK	408.87	18.4698	10.9551	25.8606	OK	0.107188	-0.55715	0.975988	1.077127	-1.47136	1.966988
RSp1616		transcription regulator transcription regulator protei	707.842	51.1621	23.4853	78.7123	OK	885.037	64.2433	28.9285	99.4454	OK	750.259	51.7872	29.2619	74.271	OK	541.232	38.2308	21.6599	54.7832	OK	0.328471	0.01752	-0.42034	1.255681	1.012218	-1.33824
RSp1617		hypothetical protein	89.2408	12.2802	3.16894	21.3648	OK	108.56	15.0608	3.57783	26.476	OK	94.4771	12.0672	4.43713	19.6645	OK	94.2849	12.5732	4.1346	20.9755	OK	0.294464	-0.02524	0.034018	1.22643	-1.01765	1.02386
RSp1618		hypothetical protein	36.5076	8.51214	0.588137	16.3208	OK	37.7199	8.9157	0.294068	17.4971	OK	44.4598	9.24876	1.88564	16.5356	OK	43.5161	9.71993	1.74059	17.696	OK	0.066826	0.119738	0.191424	1.04741	1.086538	1.14189
RSp1619		hypothetical protein	140.96	8.336	2.24722	14.3704	OK	195.959	11.6291	3.56066	19.643	OK	161.167	9.15518	4.09001	14.2582	OK	187.663	10.8642	5.15239	16.615	OK	0.480312	0.135233	0.382155	1.395046	1.09827	1.303287
RSp1620		putative hemagglutinin-related protei	237.299	4.05581	2.06476	6.0632	OK	349.599	5.9812	3.01521	8.93093	OK	235.637	3.94227	2.42487	5.44787	OK	262.91	4.423	2.71585	6.12684	OK	0.560445	-0.04096	0.125035	1.474724	-1.0288	1.090534
RSp1621	***rcsB***	capsular synthesis response regulator transcription regulato	704.8	91.1431	38.6406	141.975	OK	531.758	69.2941	30.0538	108.213	OK	463.493	55.8329	30.0331	80.5696	OK	487.743	61.1892	31.477	87.8854	OK	-0.3954	-0.70702	-0.57486	-1.31531	-1.63243	-1.48953
RSp1622	***rcsC***	capsular synthesis two-component sensor kinase and response regulator transcription regulator protei	3289.74	67.5796	29.124	105.968	OK	3924.71	80.7212	34.984	126.438	OK	2735.39	54.9183	31.5635	78.2728	OK	3501.23	70.7635	39.9457	101.473	OK	0.25636	-0.2993	0.066418	1.194461	-1.23055	1.047113
RSp1623		hypothetical protein	383.33	22.3611	11.0896	33.574	OK	499.558	29.2418	13.9892	44.4601	OK	345.675	19.3764	11.5421	27.1992	OK	381.673	21.7979	12.7465	30.8123	OK	0.387041	-0.20669	-0.0368	1.307708	-1.15404	-1.02584
RSp1625	***tISRSo16-***	remnant of ISRSO16-transposase ORFB protei	293.075	38.8356	0	118.466	OK	372.599	49.7621	0	139.635	OK	306.773	37.8146	0	89.9051	OK	252.937	32.5021	0	76.2771	OK	0.357668	-0.03844	-0.25685	1.281353	-1.027	-1.19486
RSp1626		hypothetical protein	1804.08	352.001	59.9505	641.13	OK	1953.15	385.503	66.7571	703.175	OK	1671.69	295.504	93.1022	497.019	OK	1478.64	277.589	86.0001	465.511	OK	0.131163	-0.2524	-0.34263	1.095176	-1.19119	-1.26807
RSp1627		hypothetical protein	3471.26	1158.33	229.245	2089.9	OK	3675.39	1249.57	218.268	2297.6	OK	3101.07	889.79	369.566	1411.98	OK	2833.08	897.257	380.049	1414.41	OK	0.109385	-0.38051	-0.36845	1.078769	-1.3018	-1.29097
RSp1628	***tISRso16b***	ISRSO16-transposase ORFB protein	256.567	25.4985	12.5622	38.1635	OK	313.719	31.3622	15.2654	47.3864	OK	276.762	25.9567	15.1378	36.6287	OK	364.448	35.2733	19.9223	50.2762	OK	0.298614	0.025695	0.468164	1.229963	1.01797	1.383348
RSp1630		cyanate hydratase	81.128	37.1832	10.5188	36.7086	OK	84.6397	39.7253	10.9482	38.2113	OK	53.3517	20.2337	7.20025	21.8125	OK	58.0215	25.0545	8.04734	24.3538	OK	0.095407	-0.87789	-0.56958	1.068367	-1.83769	-1.48409
RSp1632	***oprB***	putative porin B precursor outer (glucose porin) transmembrane protein	2529.17	134.723	61.0659	208.235	OK	906.197	48.4231	22.0307	74.6413	OK	1149.29	58.9598	33.4109	84.4771	OK	1292.79	67.4652	37.6741	96.9888	OK	-1.47623	-1.19219	-0.99778	-2.78221	-2.285	-1.99693
RSp1633	***xylF***	D-xylose-binding periplasmic ABC transporter protei	7118.98	534.343	225.656	841.001	OK	2193.27	165.356	72.7984	257.793	OK	2108.51	150.954	83.3385	218.499	OK	2426.02	177.893	96.8545	258.611	OK	-1.69219	-1.82366	-1.58676	-3.23147	-3.53977	-3.00373
RSp1634	***xylG***	xylose transporter ATP-binding subuni	5028.92	234.177	102.75	365.106	OK	1798.59	83.9838	37.5568	130.386	OK	1676.13	75.3945	42.6011	107.819	OK	1700.76	77.656	43.7114	111.067	OK	-1.47942	-1.63507	-1.59243	-2.78836	-3.10602	-3.01557
RSp1635	***xylH***	xylose transmembrane ABC transporter protei	2103.24	130.87	58.3214	203.372	OK	777.397	48.5499	22.2202	74.6772	OK	609.099	36.3556	21.071	51.4303	OK	622.825	37.9226	21.708	53.7657	OK	-1.43059	-1.84788	-1.787	-2.69558	-3.59972	-3.45098
RSp1636		putative oxidoreductase protein	625.7	53.3008	24.3433	82.0797	OK	398.359	34.1058	16.2055	51.9838	OK	263.424	21.3085	12.3188	30.2433	OK	254.751	21.1727	11.9727	29.9664	OK	-0.64414	-1.32273	-1.33195	-1.56281	-2.50139	-2.51743
RSp1637		transcription regulator transcription regulator protei	2885.11	205.081	92.0186	317.844	OK	4342.38	309.966	136.943	482.887	OK	3970.26	269.656	148.954	389.934	OK	4747.79	329.866	177.746	479.58	OK	0.595916	0.394926	0.685686	1.511432	1.314876	1.608467
RSp1638		hypothetical protein	83.1562	7.31598	3.60184	11.0216	OK	100.28	8.86848	4.39425	13.3268	OK	100.035	8.3469	4.69025	11.9388	OK	78.873	6.76773	3.69535	9.87795	OK	0.277636	0.190189	-0.11238	1.212207	1.140913	-1.08101
RSp1639		transcriptional regulator transcription regulator protei	1120.58	110.345	47.4326	173.235	OK	1460.95	144.703	61.0073	227.771	OK	1582.77	147.14	78.9474	215.042	OK	1523.06	146.076	76.3002	214.808	OK	0.391074	0.415168	0.404698	1.311369	1.333454	1.323812
RSp1640		lipoprotein transmembran	352.907	152.368	40.2246	202.165	OK	570.398	251.942	60.6495	342.43	OK	1753.94	631.376	228.426	804.734	OK	210.328	85.6635	28.3733	86.148	OK	0.725532	2.050939	-0.83081	1.65351	4.143757	-1.77868
RSp1641		hypothetical protein	117.636	69.2984	2.35638	144.917	OK	225.399	136.555	7.27004	291.407	OK	497.95	234.784	27.8186	456.414	OK	74.34	41.0798	9.94669	72.3898	OK	0.978588	1.76044	-0.75439	1.970536	3.388015	-1.68692
RSp1642		hypothetical protein	349.865	15.422	7.85668	22.9748	OK	712.997	31.5107	14.8404	48.2511	OK	1494.96	63.7259	35.9738	91.4417	OK	356.288	15.4045	9.23811	21.5686	OK	1.030852	2.04689	-0.00164	2.04323	4.132142	-1.00114
RSp1643		hypothetical protein	268.737	51.9624	20.9466	75.5898	OK	164.679	32.2079	13.0103	45.4059	OK	106.703	18.7058	9.24096	26.6961	OK	119.669	22.2684	10.2677	30.1615	OK	-0.69005	-1.47398	-1.22247	-1.61334	-2.77788	-2.33346
RSp1644		transcription regulator transcription regulator protei	550.656	138.899	48.8027	197.218	OK	487.598	124.812	44.0151	162.161	OK	577.977	129.112	58.8086	177.035	OK	623.731	150.416	63.2269	191.966	OK	-0.15428	-0.10541	0.114922	-1.11287	-1.0758	1.082916
RSp1645		4-Oxalocrotonate Tautomerase	257.581	63.4896	23.4462	84.65	OK	398.359	99.6101	35.7783	138.85	OK	222.299	48.6324	22.6791	62.0297	OK	288.294	67.977	29.588	79.7524	OK	0.649772	-0.3846	0.098526	1.56892	-1.3055	1.070679
RSp1646		putative transmembrane protein	16.2256	116.523	4.2934	18.6047	OK	9.19997	70.951	1.90818	11.4491	OK	12.2264	45.9722	2.82363	13.1769	OK	5.43952	35.1742	0.941209	8.00027	OK	-0.71572	-1.34178	-1.72803	-1.6423	-2.53464	-3.31274
RSp1647		putative methyltransferase protei	429.978	22.3494	11.0783	33.6485	OK	743.357	38.757	17.9734	59.2526	OK	300.104	15.0315	9.06946	20.9505	OK	500.435	25.4875	14.8286	36.0511	OK	0.794221	-0.57225	0.189554	1.734141	-1.48684	1.140411
RSp1649		putative transmembrane protein	96.3395	55.3386	26.423	84.4386	OK	126.96	74.9673	36.6099	113.373	OK	106.703	49.2262	28.1415	70.5845	OK	91.5652	49.3557	28.0292	71.151	OK	0.437975	-0.16886	-0.16507	1.354702	-1.12417	-1.12122
RSp1650		putative transmembrane protein	678.433	65.3085	18.0571	112.45	OK	443.438	42.9307	11.7797	74.0883	OK	406.807	37.006	16.743	57.2625	OK	591.094	55.436	22.8591	87.9962	OK	-0.60526	-0.81951	-0.23645	-1.52125	-1.76481	-1.17809
RSp1651		RNA polymerase sigma factor	675.391	93.5381	12.1875	178.104	OK	508.758	71.0405	13.2653	129.023	OK	433.483	55.7032	22.7448	88.6661	OK	679.033	91.1252	36.7704	145.74	OK	-0.39691	-0.74779	-0.0377	-1.31669	-1.67922	-1.02648
RSp1652		hypothetical protein	557.755	46.7704	21.744	71.6721	OK	137.079	11.5519	5.60912	17.4506	OK	272.316	21.6963	12.638	30.7411	OK	275.602	22.5517	12.8429	32.1074	OK	-2.01747	-1.10815	-1.05236	-4.04872	-2.15569	-2.07392
RSp1653		putative cytochrome C oxidase polypeptide II oxidoreductase	190.651	56.6731	19.7633	69.1714	OK	23.9199	7.23207	2.21485	8.85939	OK	46.6828	12.0853	5.04219	15.4627	OK	52.582	14.8794	5.71448	17.1434	OK	-2.97018	-2.22941	-1.92935	-7.83636	-4.68942	-3.80883
RSp1654		hypothetical protein	6935.43	787.732	314.849	1259.66	OK	191.359	21.8813	10.2476	33.0397	OK	168.947	17.997	10.0221	25.9704	OK	155.933	17.2166	9.23779	25.0118	OK	-5.16993	-5.45188	-5.51583	-36.0002	-43.7702	-45.7542
RSp1655		hypothetical protein	13.1833	20.1706	2.38522	10.2224	OK	NA	NA	NA	0	OK	1.11149	1.1806	0	2.35302	OK	1.81317	2.58899	0	3.02531	OK	NA	-4.09466	-2.96179	NA	-17.085	-7.79091
RSp1656		hypothetical protein	1179.4	115.081	49.2801	180.589	OK	162.839	15.9812	7.67798	24.2091	OK	61.1322	5.63361	3.01427	8.19264	OK	77.9664	7.41056	3.94174	10.8205	OK	-2.8482	-4.35245	-3.95692	-7.20102	-20.4276	-15.5293
RSp1657		putative cyclopropane-mycolic acid synthase (methyltransferase) protein	1116.52	101.132	38.434	163.179	OK	246.559	22.4526	8.70483	36.1472	OK	135.602	11.6356	5.89468	17.393	OK	142.334	12.5695	6.18578	18.9212	OK	-2.17129	-3.11962	-3.00824	-4.50424	-8.6916	-8.04583
RSp1658		thioesterase	349.865	83.3781	1.42989	195.18	OK	163.759	39.5739	6.76645	72.4977	OK	111.149	23.5853	9.76093	37.5584	OK	123.296	28.1329	11.6369	44.494	OK	-1.07512	-1.82178	-1.56741	-2.1069	-3.53517	-2.96372
RSp1659		acyl-carrier-protein	285.976	172.87	41.7143	151.733	OK	113.16	70.3789	16.5881	59.2782	OK	57.7977	27.8652	9.1447	26.7121	OK	78.873	44.7075	12.5138	37.782	OK	-1.29647	-2.63315	-1.9511	-2.45628	-6.2038	-3.86669
RSp1661		hypothetical protein	170.369	37.3009	14.5467	52.9613	OK	70.8397	15.7107	6.0729	21.6082	OK	76.6931	15.0661	6.96618	21.5952	OK	48.0491	10.0939	4.31903	13.5144	OK	-1.24746	-1.3079	-1.88573	-2.37424	-2.47582	-3.69539
RSp1662	***prfC***	peptide chain release factor 3	2094.12	93.6546	42.0496	145.284	OK	4480.38	200.905	89.2448	312.518	OK	2473.08	106.927	60.5573	152.88	OK	1743.36	76.4689	43.1872	109.574	OK	1.101092	0.191204	-0.29248	2.14517	1.141716	-1.22474
RSp1663		hypothetical protein	76.0575	83.304	14.1069	50.2941	OK	55.1998	62.8388	10.1202	35.8805	OK	88.9196	71.2446	17.8494	52.0354	OK	137.801	140.913	28.1354	80.7759	OK	-0.40673	-0.22561	0.758347	-1.32568	-1.16927	1.691551
RSp1664		putative ribonuclease RNase BN (RBN) transmembrane protein	640.911	50.7688	23.4486	78.0078	OK	560.278	44.5898	20.8065	68.0999	OK	341.229	25.7345	14.9869	36.4248	OK	486.837	37.6539	21.112	53.7575	OK	-0.18723	-0.98024	-0.43114	-1.13857	-1.97279	-1.3483
RSp1665		hypothetical protein	263.666	140.853	36.4708	131.572	OK	206.079	113.029	28.6227	101.795	OK	75.5816	32.7469	11.3856	34.6122	OK	125.109	62.7892	19.1278	53.5123	OK	-0.3175	-2.10476	-1.1656	-1.24617	-4.30126	-2.24327
RSp1666		hypothetical protein	73.0152	70.8667	12.939	45.8747	OK	106.72	107.437	18.8204	67.3417	OK	72.2472	52.2409	13.6346	41.4841	OK	67.0874	60.8123	12.7643	37.7128	OK	0.600311	-0.43993	-0.22074	1.516044	-1.35654	-1.16533
RSp1667		sigma-54 interacting response regulator transcription regulato	4457.98	218.491	97.1687	339.763	OK	4475.78	219.999	97.9541	341.814	OK	2946.57	139.348	78.3815	199.548	OK	3663.51	176.003	98.2243	253.782	OK	0.009923	-0.64888	-0.31197	1.006902	-1.56795	-1.2414
RSp1668		sigma-54 interacting transcription regulator protei	6459.82	418.949	179.877	656.221	OK	5920.18	385.424	167.108	603.697	OK	2788.74	173.291	96.9751	249.561	OK	3338.96	211.829	116.502	305.447	OK	-0.12033	-1.27358	-0.98387	-1.08698	-2.4176	-1.97777
RSp1669		hypothetical protein	102.424	262.21	24.1992	85.0874	OK	61.6398	166.346	14.4414	50.3499	OK	22.2299	36.2506	5.00552	20.4071	OK	13.5988	32.4146	2.69528	12.3213	OK	-0.65654	-2.85465	-3.01601	-1.57629	-7.23326	-8.08926
RSp1670		putative signal peptide protein	349.865	105.444	35.8928	136.702	OK	104.88	32.1561	10.8194	38.6406	OK	88.9196	23.3045	9.99564	29.1398	OK	57.1149	16.3804	6.26845	18.2971	OK	-1.71331	-2.1778	-2.68643	-3.27913	-4.52462	-6.43721
RSp1671	***rpoN2***	RNA polymerase factor sigma-54	3213.68	154.335	69.5428	238.751	OK	660.558	31.8129	14.9112	48.4614	OK	660.228	30.608	17.8379	43.3689	OK	512.221	24.1158	14.2027	33.9004	OK	-2.27838	-2.33408	-2.67801	-4.85133	-5.04231	-6.39975
RSp1672		hypothetical protein	582.093	60.0754	27.1205	92.5867	OK	235.519	24.4557	11.5528	37.1166	OK	92.2541	8.97003	4.93057	12.9326	OK	94.2849	9.47175	5.0114	13.9026	OK	-1.2966	-2.74359	-2.66507	-2.4565	-6.69735	-6.34259
RSp1673		lipoprotein transmembran	195.721	17.803	8.66082	26.9448	OK	294.399	26.9232	12.9542	40.5652	OK	68.9127	5.93723	3.21309	8.61693	OK	103.351	9.16514	5.03871	13.2175	OK	0.59673	-1.58426	-0.95789	1.512284	-2.99854	-1.94247
RSp1674		hypothetical protein	167.327	36.266	14.3113	49.809	OK	120.52	26.4563	10.2424	34.7962	OK	104.481	20.3362	9.68891	28.2363	OK	94.2849	19.6124	8.58161	25.3296	OK	-0.45501	-0.83457	-0.88685	-1.37079	-1.78332	-1.84914
RSp1676		composite two-component sensor kinase and response regulator hybrid transcription regulator protei	2506.86	72.4287	27.9677	117.1	OK	2567.71	74.3135	28.6811	120.223	OK	1583.88	44.5564	24.5304	64.533	OK	1483.17	42.1149	23.284	60.9643	OK	0.037063	-0.70093	-0.78223	1.026023	-1.62555	-1.71979
RSp1677		putative prolin-rich protei	947.169	53.6485	24.3425	82.9925	OK	1024.88	58.2444	26.2264	90.1812	OK	626.883	34.145	19.8078	48.4679	OK	691.725	38.3672	21.9597	54.6792	OK	0.118582	-0.65186	-0.48366	1.085667	-1.5712	-1.39829
RSp1678		hypothetical protein	1093.2	61.5947	27.5863	95.5405	OK	972.436	54.9731	24.8228	85.029	OK	609.099	33.0066	19.2786	46.6385	OK	696.258	38.4174	21.9074	54.7686	OK	-0.16408	-0.90005	-0.68105	-1.12045	-1.86613	-1.6033

Values highlighted in red and blue correspond to expression level fold changes of ≤ −2 or ≥ 2, respectively, in *R. solanacearum* strains Δ*phcB*, Δ*phcA*, and Δ*ralA*, relative to the expression levels of strai