

Feature ID	Read.Count.All	Read.Count.S_aureus_29213_control	Read.Count.S_aureus_29213_Agent_S109	FC	LCF5(107930 vs control)	p.Value	FDR	Gene.Name	Description
GSAN29213_1614	2127.722315	334.1952733	3921.249356	11.73340759	3.552250153	2.60E-14	6.78E-11	NA	putative protein vrxX
GSAN29213_1615	787.6888863	150.454254	1264.919347	4.07400807	2.0265084	0.02244441	0.83461558	A	replication-associated protein A
GSAN29213_1630	1074.939048	155.2273127	604.5327972	1.95438161	1.894093155	0.00924858	0.00924858	H	minor outer protein H
GSAN29213_1631	721.0386647	485.7701786	1664.107917	3.42510326	1.77603164	0.003008726	0.07103043	grpE	protein grpE
GSAN29213_1630	721.0386647	329.9341313	1112.143198	3.37803723	1.75302624	0.00927292	0.99608458	F	casid protein F
GSAN29213_1480	692.0569825	368.8931432	1055.220052	2.75027899	1.46053886	0.030549605	0.99608458	NA	putative membrane protein
GSAN29213_1000	598.9020919	159.2416941	1034.416941	1.512914804	1.35132324	0.00375617	0.99608458	NA	putative membrane protein
GSAN29213_1630	1267.105951	1325.619951	1808.670105	1.429614668	1.317659784	0.018135987	0.99608458	hrcA	heat-inducible transcription repressor HrcA
GSAN29213_937	349.3806872	207.5784848	491.182886	2.366251444	1.242603387	0.05997934	0.99608458	NA	transcriptional activator RnII family protein
GSAN29213_1433	683.8264995	423.070519	944.58248	2.23683294	1.15877862	0.084475881	0.99608458	NA	ABC transporter family protein
GSAN29213_439	311.5640422	196.021282	427.1155562	2.179021719	1.123680576	0.13516129	0.99608458	NA	transcriptional regulator Y family protein
GSAN29213_2381	1031.3715113	352.427371	2027.389025	2.165366265	1.112781009	0.015366265	0.99608458	NA	conserved hypothetical protein
GSAN29213_242	1245.589054	752.579967	1698.605712	2.143155274	1.099736379	0.08798906	0.99608458	NA	bacterial regulatory vShZ tetr family protein
GSAN29213_1506	829.9979951	515.425706	1128.57072	2.12366777	1.086558087	0.088250051	0.99608458	perR	peroxide operon regulator
GSAN29213_952	935.2953617	598.386021	1268.204051	2.119375284	1.068399072	0.078342956	0.99608458	NA	conserved hypothetical protein
GSAN29213_1480	446.447585	286.739876	606.3755393	2.114218608	1.080123395	0.135165164	0.99608458	NA	conserved hypothetical protein
GSAN29213_238	730.5656772	470.551846	990.5795399	2.105144448	1.073919229	0.103418513	0.99608458	NA	conserved hypothetical protein
GSAN29213_244	199.8402733	130.2691958	269.4113508	2.06811249	1.04831466	0.179302319	0.99608458	NA	fea domain protein
GSAN29213_1269	205.7533751	132.0959994	269.4113508	2.039521072	1.028230414	0.187366794	0.99608458	zapA	cell division protein ZapA
GSAN29213_247	201.4851361	174.7068186	348.2643555	1.999416492	0.995243169	0.19310301	0.99608458	NA	putative peptide export ATP-binding protein Yydl
GSAN29213_1942	508.1759476	342.1088225	670.2428727	1.959151091	0.970278663	0.170399233	0.99608458	NA	phase Conserved Open Reading Frame S1 family protein
GSAN29213_2240	534.0759999	363.4145321	704.7406677	1.939219831	0.955476358	0.173042274	0.99608458	NA	addition module toxinX2 TxeY/ToeB family
GSAN29213_737	677.0219711	462.029308	892.0144115	1.930643719	0.949081954	0.156076406	0.99608458	NA	nuclease-related domain protein
GSAN29213_2586	439.4818127	300.7349725	578.2487229	1.923913716	0.943294028	0.191804021	0.99608458	NA	metal-sensitive transcriptional repressor family protein
GSAN29213_1211	351.1341329	271.1341329	471.2614668	1.8027602	0.853092628	0.22904262	0.99608458	NA	YH-type transcriptional regulator sarT
GSAN29213_370	359.300476	247.1462312	471.4669639	1.907655585	0.93180051	0.20668455	0.99608458	NA	YHt DNA-binding domain protein
GSAN29213_877	435.3749324	300.7349725	570.0349923	1.89559601	0.922654262	0.20234631	0.99608458	mrpF	nal ^r (YH-c) antipporter subunit F
GSAN29213_2238	790.4843738	546.0349	1034.933848	1.895362087	0.922473485	0.151449722	0.99608458	NA	YH-type protein
GSAN29213_2534	232.7036278	163.140862	302.266396	1.852793988	0.889702407	0.24895554	0.99608458	NA	conserved hypothetical protein
GSAN29213_720	352.8029751	239.2328185	478.6418211	1.8343235	0.882912002	0.17382332	0.99608458	NA	putative crosslink endonuclease/RusA
GSAN29213_2504	455.082361	292.627269	535.5173793	1.817675365	0.862604588	0.232486135	0.99608458	NA	negative regulator of genetic competence family protein
GSAN29213_827	1542.547524	1095.722027	1988.37284	1.815581383	0.8604316	0.090717055	0.99608458	NA	ahcX/75A family protein
GSAN29213_1504	284.2168004	202.0999738	366.333727	1.812637089	0.85890011	0.254220357	0.99608458	NA	ahcX/75A family protein
GSAN29213_1552	352.8029751	200.8402407	503.0482227	1.802761027	0.850916287	0.180737319	0.99608458	NA	YH-type transcriptional regulator sarT
GSAN29213_1785	302.7165128	126.1007687	389.332227	1.804236566	0.849297676	0.25628407	0.99608458	scn	staphylococcal complement inhibitor
GSAN29213_734	409.5453711	293.4100578	525.6860485	1.791624624	0.8412684	0.246217182	0.99608458	NA	bacterial regulatory vShZ luxR family protein
GSAN29213_1998	299.64365	214.882396	384.4040005	1.78886584	0.839069888	0.262347726	0.99608458	NA	conserved hypothetical protein
GSAN29213_1480	691.6941364	497.9448698	885.444303	1.778195053	0.830414071	0.210620782	0.99608458	NA	conserved hypothetical family protein
GSAN29213_1748	152.7921745	104.6541028	218.641028	1.754029188	0.829028002	0.283983703	0.99608458	NA	conserved hypothetical protein
GSAN29213_794	287.777482	207.5784848	367.9764791	1.772710112	0.825956634	0.271433955	0.99608458	NA	conserved hypothetical protein
GSAN29213_905	245.4537077	177.1417569	313.7656586	1.771268752	0.824781326	0.278885593	0.99608458	NA	putative membrane protein
GSAN29213_420	1534.864928	1111.549306	1958.16055	1.761649744	0.816917211	0.108593071	0.99608458	NA	helic-tumor-like domainX2C rpfII family protein
GSAN29213_1424	255.6085151	255.6085151	355.6085151	1.765376924	0.816917211	0.307921477	0.99608458	chp	chemotaxis inhibition protein
GSAN29213_799	392.9635802	284.8877379	501.0940244	1.758252534	0.814530354	0.263585411	0.99608458	mscL	large conductance mechanosensitive channel protein
GSAN29213_124	12675.49292	1121.58826	16138.30701	1.751776544	0.808818757	0.004644342	0.92994093	lip	lipase
GSAN29213_539	942.0177206	684.826796	1199.209062	1.751114001	0.808273009	0.18435585	0.99608458	NA	lactose-specific phosphotransferase enzyme LI component
GSAN29213_1854	871.2751852	633.692676	1188.857904	1.748851209	0.80721888	0.19513512	0.99608458	secG	prepeptide translocaseX2C SecG subunit
GSAN29213_2506	365.8494704	265.8494704	437.3817931	1.742131245	0.802912002	0.255829054	0.99608458	NA	conserved hypothetical protein
GSAN29213_1400	234.1962742	151.054113	297.3318172	1.738266409	0.797649028	0.296638902	0.99608458	NA	conserved hypothetical protein
GSAN29213_1745	718.2283138	524.7291904	911.7274372	1.737519951	0.797029544	0.224845417	0.99608458	NA	cysteine-rich secretary family protein
GSAN29213_1434	285.4050796	209.404885	361.4054706	1.725870959	0.7873246	0.294262009	0.99608458	NA	ABC-2 transporter family protein
GSAN29213_2051	1065.800897	1224.165109	1848.478313	1.721704714	0.78383773	0.110012344	0.99608458	NA	ABC-binding protein HU
GSAN29213_1494	631.8664729	431.8664729	1085.891844	1.718494647	0.781145375	0.116280462	0.99608458	reck	regulatory protein Reck
GSAN29213_2573	1190.399044	801.5305136	1401.267755	1.714042799	0.779649028	0.296638902	0.99608458	NA	conserved hypothetical protein
GSAN29213_2549	278.8004283	278.8004283	476.3981203	1.708742426	0.772394943	0.28997934	0.99608458	NA	putative replication protein
GSAN29213_1674	551.0637876	407.2432044	694.8841528	1.706311557	0.770881094	0.266206709	0.99608458	NA	shikimate kinase family protein
GSAN29213_2308	465.4929789	271.8889879	619.9705899	1.698021727	0.765916287	0.297184126	0.99608458	NA	conserved hypothetical protein
GSAN29213_725	711.323748	528.990323	893.6571636	1.68993886	0.756480116	0.249778874	0.99608458	NA	phase head morphogenesis S2C SPP3 opf7 domain protein
GSAN29213_981	559.7361772	416.374388	703.0979155	1.688619305	0.755844113	0.274064099	0.99608458	NA	thioredoxin family protein
GSAN29213_349	314.0079291	234.7507029	394.2605134	1.686646619	0.754157736	0.310318338	0.99608458	NA	conserved hypothetical protein
GSAN29213_262	651.6717304	486.9674677	848.478313	1.676526739	0.749837983	0.266114667	0.99608458	NA	putative ofF073
GSAN29213_2475	548.0059184	360.0993658	680.0993658	1.679345793	0.744172548	0.479381629	0.99608458	NA	CAX protease self-immunity family protein
GSAN29213_2157	468.54681	350.631064	586.4251636	1.67259123	0.742084904	0.296320437	0.99608458	NA	putative membrane protein
GSAN29213_1846	366.4335666	274.5932864	485.3278468	1.669443571	0.73936733	0.31238941	0.99608458	NA	conserved hypothetical protein
GSAN29213_1768	332.294363	248.972439	415.6162912	1.669126531	0.739261683	0.317132511	0.99608458	NA	colicin V production family protein
GSAN29213_1584	285.4050796	168.0107385	379.1678636	1.623204565	0.732918017	0.328106216	0.99608458	NA	staphylococcal tandem five-TM family protein
GSAN29213_955	877.4876024	605.295281	1095.715677	1.662039955	0.732950055	0.237506161	0.99608458	cspD	coli shock protein CspD
GSAN29213_2139	505.3359393	379.8503652	630.8168214	1.660698209	0.731789923	0.297461208	0.99608458	glcT	glcA/glcB gene antiterminal
GSAN29213_229	273.722363	205.752812	341.6924449	1.660698209	0.731789923	0.30586052	0.99608458	NA	glycosyl-4N2C ⁺ -disponoreporepore acyltransferase
GSAN29213_1241	467.2084251	351.2394049	583.1770994	1.660384349	0.731477347	0.302386088	0.99608458	NA	ABC transporter family protein
GSAN29213_1424	350.3020516	654.3806516	1026.801516	1.65829112	0.728410407	0.456193212	0.99608458	NA	bacterial Ig-like domain protein
GSAN29213_759	292.8013232	192.8013232	484.611881	1.656087743	0.726907702	0.276833662	0.99608458	NA	acetyltransferase family protein
GSAN29213_1151	678.1601821	511.945747	804.7435995	1.649343852	0.7218922	0.276833662	0.99608458	NA	ABC-2 type transporter family protein
GSAN29213_344	861.614554	551.9547134	1071.074395	1.646286249	0.716215011	0.250654431	0.99608458	NA	mer/R regulatory family protein
GSAN29213_1489	986.1490866	696.1490866	1452.7530959	1.645429269	0.715570509	0.187115284	0.99608458	NA	ribosomal protein L16
GSAN29213_1509	645.5428149	483.425286	801.6634039	1.637977214	0.711915288	0.288639948	0.99608458		

GS429213_828	1505.368704	1200.424552	1810.312857	1.508600506	0.592694314	0.245032756	0.999608458	spA	regulatory protein spA
GS429213_128	666.3315157	564.327497	800.0202917	1.501982909	0.586889397	0.375996822	0.999608458	icaR	biofilm operon icaA/BC/IC/TH-type negative transcriptional regulator icaR
GS429213_1505	1059.501574	1269.820295	849.3028559	0.668837049	0.580273351	0.238840129	0.999608458	U	U-dimer specific 2-hydroxyacyl dehydrogenase/2Ca catalytic domain protein
GS429213_1617	826.7029928	825.4449269	851.9647187	0.668808217	0.580284259	0.237272256	0.999608458	broE	shikimate dehydrogenase
GS429213_181	2240.632483	2683.738877	1795.520808	0.668542069	0.580909749	0.1666627	0.999608458	NA	putative regulatory protein
GS429213_1068	1694.434614	2031.95596	1356.913267	0.66778675	0.582540627	0.233505416	0.999608458	tyrS	tyrosine-tRNA ligase
GS429213_133	1199.207874	1439.044849	959.3072492	0.666667767	0.584890112	0.302710598	0.999608458	NA	peptide methionine sulfidoxyl reductase family protein
GS429213_1922	936.9816803	1761.219963	1438.239916	0.667734195	0.585894502	0.155894464	0.999608458	NA	ketonore recombination family protein
GS429213_859	576.3552369	679.939289	495.9790989	0.663987421	0.590772184	0.402776782	0.999608458	lepB	signal peptidase 1
GS429213_1940	539.650505	648.910406	400.410604	0.663266663	0.59233908	0.407519137	0.999608458	NA	yywF-like family protein
GS429213_1813	768.4028047	924.059616	612.7465479	0.661301229	0.592904614	0.368058288	0.999608458	NA	conserved hypothetical protein
GS429213_1308	1711.933654	2054.740281	1365.137028	0.664395511	0.592726638	0.233062677	0.999608458	NA	cation diffusion facilitator transporter family protein
GS429213_1007	956.961803	1126.158935	745.8094711	0.662295916	0.594514127	0.232789098	0.999608458	NA	membrane ABC-dispensation domain protein
GS429213_1080	6724.857707	8094.34344	5355.317973	0.661619069	0.595927276	0.382656983	0.999608458	NA	ftsK/SpoIIIE family protein
GS429213_1733	868.702312	1045.805973	691.5986505	0.661306847	0.596608257	0.374090021	0.999608458	NA	conserved hypothetical protein
GS429213_1143	1158.473417	1443.309641	954.4389928	0.661284984	0.596655953	0.29301451	0.999608458	NA	conserved hypothetical protein
GS429213_1215	328.1331597	395.087292	261.1979501	0.661144684	0.596920201	0.35132636	0.999608458	NA	conserved hypothetical protein
GS429213_1693	2550.024098	3072.850257	2027.15614	0.659689993	0.600139874	0.123211687	0.999608458	lpdA	dihydrolipoyl dehydrogenase
GS429213_2369	448.5167516	540.556289	356.4772142	0.659463633	0.600634993	0.415230122	0.999608458	NA	initiation-contraction protein yabA
GS429213_573	519.3593244	626.387619	412.3307669	0.658267524	0.603254072	0.401955797	0.999608458	NA	degV domain-containing protein SA1258
GS429213_593	364.7781828	729.872737	479.5862246	0.657215453	0.605561743	0.389974081	0.999608458	NA	terminase small subunit
GS429213_954	420.3657688	518.643488	340.9496208	0.655654179	0.608993021	0.411496609	0.999608458	NA	single-stranded DNA-binding protein sbp
GS429213_1052	887.8441048	1072.590294	703.0979155	0.655513964	0.609301581	0.333634703	0.999608458	NA	N-6 DNA Methylase family protein
GS429213_39	3939.824369	4763.347929	3116.300088	0.654224897	0.612141432	0.054024528	0.999608458	NA	ycyf family protein
GS429213_1197	3047.385565	3686.496493	2408.274636	0.653269206	0.61425046	0.0821482	0.999608458	pdpA	penicillin binding protein 4
GS429213_1144	495.5099136	605.5099136	323.4221741	0.653125161	0.615232714	0.410537343	0.999608458	NA	putative transcription factor
GS429213_308	1871.789111	2265.101296	1478.4276325	0.652720003	0.615438363	0.185306646	0.999608458	NA	CAIX protease self-immunity family protein
GS429213_1667	551.2511971	667.137074	435.2931919	0.652488327	0.615953892	0.386594468	0.999608458	NA	metallo-beta-lactamase superfamily protein
GS429213_927	1306.570365	1581.492386	1031.648343	0.652352836	0.616335325	0.260791501	0.999608458	NA	phage major capsid protein2c/IK97 family
GS429213_1649	853.3754624	1033.022548	673.528377	0.65199775	0.617061129	0.333101174	0.999608458	NA	putative phosphotransferase vofL
GS429213_2048	1079.4056085	1295.191935	720.1875065	0.651898289	0.617609178	0.37456078	0.999608458	NA	3S ribosomal protein S1
GS429213_1011	3096.288659	3749.804888	2442.774231	0.651439876	0.618226002	0.077780482	0.999608458	pyrG	CTP synthase
GS429213_687	864.9915427	1048.249912	681.742137	0.650367802	0.62067226	0.328167363	0.999608458	NA	bacterial regulatory t2c2 gntR family protein
GS429213_689	1071.402708	1298.439816	843.747595	0.650303882	0.62081406	0.29355101	0.999608458	NA	peptidase M16 inactive domain protein
GS429213_1620	550.729356	650.729356	320.1857651	0.649387657	0.622058575	0.402412381	0.999608458	NA	DEAD-box ATP-dependent RNA helicase CshB
GS429213_1894	1258.034173	1525.488807	990.5795399	0.649352128	0.622926866	0.262877743	0.999608458	NA	thf family protein
GS429213_2027	1081.079925	1311.214242	850.945608	0.648975264	0.623764605	0.289662818	0.999608458	higA	gamma-hemolysin component A
GS429213_527	729.514604	885.7087843	573.3204965	0.647301355	0.62749057	0.346814564	0.999608458	NA	peptidase M23 family protein
GS429213_1459	382.5440552	464.464469	300.623614	0.647247877	0.627609707	0.403951598	0.999608458	NA	putative hypothetical protein
GS429213_1164	481.4211138	583.4211138	2140.837149	0.646398977	0.628584514	0.28494381	0.999608458	cnbB	DEAD-box ATP-dependent RNA helicase CshB
GS429213_715	748.777349	909.4494321	588.1052658	0.646660765	0.628919014	0.342266855	0.999608458	NA	conserved hypothetical protein
GS429213_1866	1648.917061	2004.345436	1294.488686	0.646163494	0.63002885	0.20862243	0.999608458	NA	sporulation Regulator WHA C terminal domain protein
GS429213_1604	1988.341	2416.067467	1560.614363	0.645931896	0.630546502	0.160614997	0.999608458	NA	ftsX-like permease family protein
GS429213_56	926.9582214	1129.3811343	645.6457533	0.645758533	0.631064049	0.308644089	0.999608458	NA	putative orf13
GS429213_871	802.1834169	959.1927466	629.1740063	0.645179181	0.632228209	0.330111407	0.999608458	NA	lysine-associated B family protein
GS429213_1500	1019.489286	1240.610333	798.3775396	0.643540928	0.635896191	0.290136519	0.999608458	NA	conserved hypothetical protein
GS429213_642	1202.347429	1463.397881	941.2699757	0.643226964	0.636602011	0.260743803	0.999608458	rnc	ribonuclease III
GS429213_177	4959.219196	6036.820268	3881.823305	0.643024467	0.637054485	0.033766995	0.999608458	rfdD	aneroBil ribonucleoside triphosphate reductase
GS429213_1176	467.4195914	547.4195914	285.1975183	0.642919645	0.637819687	0.398023133	0.999608458	NA	ribD/327 protein
GS429213_1780	398.9465425	485.7701786	312.1229064	0.642512045	0.638159687	0.393369858	0.999608458	NA	fibronogen-binding protein
GS429213_795	1035.891773	1261.900742	809.8768046	0.641788159	0.639830923	0.284411992	0.999608458	lplI	lipase-protein lipase LplI
GS429213_1063	2986.774719	3640.841401	2332.708037	0.640705755	0.642266147	0.071861723	0.999608458	serA	phosphoglycerate dehydrogenase
GS429213_1396	1009.292498	1267.994888	811.153567	0.640480354	0.642180034	0.28072995	0.999608458	NA	MDC3 domain protein
GS429213_833	860.0790905	1026.326548	620.1535468	0.637044027	0.640534509	0.309251321	0.999608458	NA	oligoneuridin/depeside/ABC transporter/2Ca ATP-binding 2Ca C-terminal domain protein
GS429213_631	637.6456912	794.1182364	496.1112436	0.637090999	0.641259714	0.344489011	0.999608458	rpe	ribulose-phosphate 3-epimerase
GS429213_2165	2637.915551	3225.684432	2050.15467	0.63571989	0.638752552	0.086584872	0.999608458	pepF	oligoendopeptidase F
GS429213_1877	621.6392969	760.309465	482.8691289	0.635227037	0.636455775	0.344689706	0.999608458	urk	uridine kinase
GS429213_1529	1074.805768	1301.071739	739.1551251	0.634838467	0.636654603	0.346656463	0.999608458	atpA	ATP synthase F1F2 alpha subunit
GS429213_1784	816.517869	998.9334124	634.1023257	0.634797373	0.635672845	0.309517546	0.999608458	fib	fibronogen-binding protein
GS429213_1100	780.944399	955.7132587	606.1755393	0.634265073	0.636482196	0.314994829	0.999608458	NA	methyltransferase domain protein
GS429213_165	1847.785753	2246.448899	1344.122617	0.634160968	0.63707901	0.159788857	0.999608458	NA	putative oligopeptidase family protein
GS429213_1948	916.7804943	1163.9067498	737.5097104	0.633727474	0.638065532	0.28420224	0.999608458	NA	prolyl 4-hydroxylase 2
GS429213_477	1071.852057	1317.852057	1121.99971	0.633261429	0.638681372	0.257029127	0.999608458	NA	acetyltransferase family protein
GS429213_1713	532.1427501	651.9547134	412.3307669	0.632453111	0.639699569	0.355028765	0.999608458	nudF	ADP-ribose pyrophosphatase
GS429213_328	2419.854841	2966.972244	1872.737439	0.631194795	0.63842785	0.097774509	0.999608458	NA	vodA lipocalin-like domain protein
GS429213_1291	1242.136302	1523.662093	961.010013	0.63072926	0.64492012	0.33802311	0.999608458	NA	PHF domain protein
GS429213_304	415.221138	502.234556	302.444873	0.630216011	0.645181473	0.252173782	0.999608458	NA	putative like family protein
GS429213_809	1331.924575	1633.843558	1000.005591	0.629187376	0.645391876	0.220326138	0.999608458	NA	major Facilitator Superfamily protein
GS429213_267	1096.48174	1345.303377	847.6601038	0.630088438	0.646373757	0.25492862	0.999608458	NA	ABC-2 transporter family protein
GS429213_1573	1044.293141	1281.994983	806.5913003	0.629168843	0.646880805	0.261651218	0.999608458	NA	NAD(P)-dependent FMN reductase family protein
GS429213_1257	976.6540024	1201.642021	755.666294	0.628861151	0.6469186582	0.17376144	0.999608458	pyrH	pyruvate reductase
GS429213_2142	420.804921	508.819387	307.8865249	0.628519645	0.647084825	0.399608458	0.999608458	NA	peptide methionine sulfidoxyl reductase MsrA 1
GS429213_308	2780.521954	3415.969614	2145.432924	0.628126131	0.647087375	0.07105480	0.999608458	bioA	adenylnucleoside-5'-sulfonate-2'-oxonucleoside transferase
GS429213_1736	494.119722	594.119722	28						

GS429213_2207	418.517742	526.555941	310.4801543	0.588643858	-0.762084257	0.302566574	0.999608458	quef	7-cyano-7-deazaquinine reductase
GS429213_2158	1509.287384	1899.866561	1118.714207	0.588840165	-0.764052013	0.137017006	0.999608458	re	putative NAD(P)H-dependent FMN-containing oxidoreductase ywqN
GS429213_1608	858.4288279	1081.112578	635.7430778	0.588047064	-0.763998469	0.22654892	0.999608458	na	type IV secretion system family protein
GS429213_2078	714.3103599	874.3103599	455.0423245	0.587824527	-0.763761148	0.078765824	0.999608458	re	recombination protein
GS429213_2347	608.5598156	677.005542	450.1140861	0.58845935	-0.768946294	0.067380488	0.999608458	na	S1 RNA binding domain protein
GS429213_1352	2961.061819	3733.977789	2188.145849	0.586093337	-0.771004443	0.031231803	0.999608458	na	bacterial extracellular solute-binding family protein
GS429213_1248	1020.748413	1287.473594	754.023218	0.58661124	-0.773801363	0.197322814	0.999608458	na	conserved hypothetical protein
GS429213_1838	2344.236789	3011.026239	1371.088626	0.581362289	-0.773219269	0.060509291	0.999608458	na	binding-dependent transport system inner membrane component family protein
GS429213_2593	2289.206077	2880.69255	1249.62319	0.58441004	-0.774964464	0.060695928	0.999608458	na	conserved hypothetical protein
GS429213_2277	670.9134505	847.358507	494.4683939	0.583540957	-0.777004178	0.251692717	0.999608458	na	NUDIX domain protein
GS429213_42	827.024774	1044.588504	609.4610436	0.583446057	-0.77732882	0.22485772	0.999608458	na	putative membrane protein
GS429213_2498	423.9040595	535.086425	312.1229504	0.582639741	-0.779274464	0.29062751	0.999608458	na	conserved hypothetical protein
GS429213_136	150.3842924	170.3842924	93.8359321	0.581701708	-0.781641124	0.083958274	0.999608458	na	conserved hypothetical protein
GS429213_1127	849.3311553	1074.416498	624.2458128	0.581009147	-0.783367218	0.217502347	0.999608458	hxlA	3-hexulose-6-phosphate synthase
GS429213_810	961.1048935	1217.469119	704.7406677	0.5785712	-0.788720806	0.195558971	0.999608458	na	conserved hypothetical protein
GS429213_702	1320.496157	1673.411305	967.5810209	0.578208721	-0.790337726	0.145569641	0.999608458	miab	RNA-16(A37) histonase enzyme Miab
GS429213_1915	765.200838	970.322881	560.784794	0.577311415	-0.792573878	0.263176975	0.999608458	na	helix-helix-turn-helix family protein
GS429213_2473	711.4885227	902.1446174	520.7524281	0.577238303	-0.792761061	0.232506355	0.999608458	na	nitroreductase family protein
GS429213_986	2602.86299	3301.776252	1903.949729	0.57664408	-0.794246971	0.038541955	0.999608458	secDF	protein translocase subunit SecDF
GS429213_1064	199.168062	199.168062	112.642463	0.576472848	-0.794675436	0.118842046	0.999608458	na	HAD-hydrolase-like family protein
GS429213_1492	1539.01612	1522.445134	875.5686801	0.575118847	-0.798067978	0.157474295	0.999608458	yhbO	protein yhbO
GS429213_1137	1247.000695	1583.927324	910.084685	0.574747774	-0.799433499	0.150523767	0.999608458	mgf	uracil DNA glycosylase
GS429213_1400	2506.520258	3187.942889	1825.097626	0.572500101	-0.804652147	0.040212693	0.999608458	na	phage Terminase family protein
GS429213_1753	913.9988126	1163.688009	665.3146163	0.572223565	-0.805349184	0.194367707	0.999608458	na	conserved hypothetical protein
GS429213_461	555.087125	703.697151	402.4742741	0.571942462	-0.8060058102	0.236315798	0.999608458	mgbB	molybdopterin-guanine dinucleotide biosynthesis protein B
GS429213_593	495.2804929	614.2079881	311.1264964	0.569145492	-0.811264964	0.256155492	0.999608458	na	transcription factor family protein
GS429213_1241	546.421682	690.0107008	395.0302318	0.568555051	-0.816312905	0.248751334	0.999608458	rcuA	HTH-type transcriptional regulator rcuA
GS429213_635	2726.144305	3477.70539	1974.588071	0.56778538	-0.816581993	0.028989042	0.999608458	na	DAK2 domain fusion YbV family protein
GS429213_2349	260.9471501	332.979041	188.916496	0.567354621	-0.81767733	0.292691885	0.999608458	na	S4 domain protein
GS429213_1627	431.5138415	550.9047765	312.1229504	0.566408158	-0.819688712	0.246463842	0.999608458	pstI	ribosomal protein S20
GS429213_2230	930.239239	1273.927198	542.821278	0.56621632	-0.82031932	0.232104212	0.999608458	na	nickel ABC transporter-like Ni ²⁺ nickel/metallophore periplasmic binding protein
GS429213_1757	667.9031235	867.931181	482.969128	0.565307578	-0.82032924	0.232627954	0.999608458	idcC	heme uptake protein IdcC
GS429213_170	972.4582086	1241.818502	703.0979155	0.56461842	-0.820656809	0.17708485	0.999608458	na	histidine kinase-%2C DNA gyrase B-%2C and HSP90-like ATPase family protein
GS429213_411	1000.059749	1279.95131	717.168189	0.563874624	-0.822653676	0.16992829	0.999608458	na	helix-turn-helix domain%2C rpiR family protein
GS429213_991	565.280938	723.1765659	402.4025305	0.563501809	-0.82309192	0.23875959	0.999608458	hcrA	holliday junction DNA-helicase RuvA
GS429213_1881	442.712895	566.731875	318.639315	0.562316316	-0.830494874	0.256568232	0.999608458	na	conserved hypothetical protein
GS429213_1873	216.8222062	277.582992	156.0614532	0.56221554	-0.830804764	0.293875603	0.999608458	na	rnC Barrel sandwich hybrid domain protein
GS429213_1325	306.728356	388.590367	218.840365	0.561863495	-0.831708426	0.0185437	0.999608458	brnQ	branched-chain amino acid transport system II carrier protein
GS429213_2152	427.8322441	548.4098383	307.193405	0.560309372	-0.832629195	0.25474031	0.999608458	na	N-(5'-phosphoribosyl)anthranilate (PRA) isomerase family protein
GS429213_2265	1271.4716399	1723.644284	723.644284	0.558605729	-0.833886262	0.165514928	0.999608458	na	conserved hypothetical protein
GS429213_1720	1117.312099	1432.961513	801.6630439	0.558445064	-0.837931626	0.147976305	0.999608458	sraA	transcriptional regulatory protein sraA
GS429213_323	2348.620274	3165.062274	1682.178189	0.557924858	-0.841857264	0.038691079	0.999608458	femA	aminoacyltransferase femA
GS429213_1004	1699.796366	2182.313396	1217.279335	0.557793901	-0.84219803	0.03807468	0.999608458	folC	bifunctional FolC family protein
GS429213_2302	2049.805613	2634.031074	1455.343494	0.55618029	-0.842669522	0.05609522	0.999608458	na	multifunctional transfer domain protein
GS429213_2134	824.651698	1095.198134	588.1058134	0.555236312	-0.848482612	0.18492876	0.999608458	na	conserved hypothetical protein
GS429213_1485	218.6484099	281.235366	156.0614532	0.554914039	-0.849663792	0.282349875	0.999608458	na	conserved hypothetical protein
GS429213_1390	2196.344768	2828.789499	1563.900036	0.55285133	-0.850536525	0.034319273	0.999608458	na	zinc-binding dehydrogenase family protein
GS429213_975	976.2648775	1257.456	694.8841548	0.552572799	-0.858581044	0.158410565	0.999608458	suFC	fes assembly ATPase SuFC
GS429213_790	900.800838	1184.474126	518.274126	0.552164949	-0.861061527	0.236224064	0.999608458	na	bacteriocin export ABC transporter-%2C lactococcin 972 group family protein
GS429213_1236	348.650839	449.246105	248.055773	0.551259652	-0.856842625	0.254508993	0.999608458	na	conserved hypothetical protein
GS429213_1616	1574.93899	2029.51022	1120.356959	0.550203201	-0.857180819	0.088642687	0.999608458	yeqH	ribosome biogenesis GTPase YeqH
GS429213_118	1420.747786	1832.899759	1008.649613	0.550207629	-0.861720566	0.10187701	0.999608458	na	imidazoleglycerol-phosphate dehydratase family protein
GS429213_1739	395.8194557	510.7287956	280.5106158	0.549288864	-0.862444884	0.165317794	0.999608458	na	conserved hypothetical protein
GS429213_252	319.8602713	3020.540895	1659.179661	0.548028989	-0.864318081	0.014142921	0.999608458	na	bacterial histone-like turn-helix-%2C yhrA family protein
GS429213_1803	2006.68819	2590.774286	1422.62352	0.548111268	-0.864829579	0.0523337	0.999608458	bshC	bacillithiol biosynthesis cysteine-adding enzyme BshC
GS429213_1406	257.3572785	332.369096	182.3454874	0.548623296	-0.866111633	0.265013479	0.999608458	na	phage head-tail joining family protein
GS429213_1421	1428.508848	1845.07445	1001.955813	0.548242926	-0.866651955	0.099158233	0.999608458	prmc	protein-(glutamine-N5) methyltransferase-%2C release factor-specific factor
GS429213_154	1796.309261	2321.322345	1271.490156	0.547502904	-0.868267984	0.165514928	0.999608458	na	conserved hypothetical protein
GS429213_131	929.371432	1201.64021	657.1008556	0.546835783	-0.870820443	0.157812779	0.999608458	yweE	tyrosine-protein phosphatase YweE
GS429213_1125	718.5740418	929.537676	507.610411	0.546089121	-0.872701678	0.189343712	0.999608458	na	conserved hypothetical protein
GS429213_2413	695.7906517	900.318437	491.1828896	0.545655749	-0.874175022	0.192281604	0.999608458	na	putative membrane protein
GS429213_1772	345.879697	395.677468	209.2405302	0.545078664	-0.87664265	0.24982925	0.999608458	na	putative autolytic transcriptional regulator
GS429213_1949	317.1550571	410.089678	223.4424678	0.543774895	-0.87951309	0.24777008	0.999608458	na	conserved hypothetical protein
GS429213_1499	1729.319992	2241.366649	1127.279335	0.543098379	-0.880714538	0.067521866	0.999608458	mutY	A/G-specific adenine glycosylase
GS429213_384	484.1318792	628.2140656	340.0496928	0.541259892	-0.885510657	0.219550623	0.999608458	na	conserved hypothetical protein
GS429213_2608	655.795124	851.616946	459.970589	0.540112713	-0.888667809	0.19124003	0.999608458	na	CDP-Glycerol-3-epimerase family protein
GS429213_1804	794.3980604	1044.3980604	545.2384883	0.539720518	-0.890948614	0.197632028	0.999608458	na	cyclic lactone-ATPase synthase family protein
GS429213_868	636.2280481	827.070666	445.3852097	0.538138318	-0.893951058	0.191606646	0.999608458	na	S1 RNA binding domain protein
GS429213_971	2467.586181	3208.63864	1726.532048	0.538088589	-0.894084381	0.02739923	0.999608458	suFB	fes assembly protein SuFB
GS429213_107	853.3254316	1106.331837	596.310265	0.537063792	-0.89683635	0.15651354	0.999608458	na	conserved hypothetical protein
GS429213_1929	514.159373	2008.824047	1074.339809	0.53480201	-0.902873842	0.075578031	0.999608458	atpB	ATP synthase F0Nc2-A subunit
GS429213_2502	690.490028	791.144085	478.921495	0.534651632	-0.901381662	0.202115528	0.999608458	na	transposase IS66 family protein
GS429213_2101	667.9900513	891.091549	464.988554	0.533692236	-0.905920073	0.180695251	0.999608458	dsps	DNA replication during starvation protein 1
GS429213_675	522.110975	681.179723	363.482227	0.53297191	-0.90786212	0.202206436	0.999608458	rimP	ribosome maturation factor rimP
GS429213_275	1198.02842	1563.266287	832.872345	0.53291715	-0.908357909	0.10717443	0.999608458	na	penicillinase repressor factor rimP
GS429213_1528	619.23111	852.631345	462.753145	0.53252373	-0.91036918	0.165163307	0.999608458	na	conserved hypothetical protein
GS429213_1804	515.6901946	673.260423	358.1199663	0.531918934	-0.910721704	0.201734108	0.999608458	na	mzA family protein
GS429213_1624	532.3970492	695.1748671	369.619213	0.531692454	-0.911361603	0.198897902	0.999608458	na	comE operon protein 2
GS429213_15	1027.302699	1506.009391	712.9544428	0.531400822	-0.912127635	0.12590643	0.999608458	na	conserved hypothetical protein
GS429213_2407	1153.014796	1506.009391							

GSA29213_1615	364.0568104	499.7710735	228.3425473	0.456894285	-1.130067698	0.130061033	0.999608458	NA	HAD hydrolase%2C IA%2C variant 1 family protein
GSA29213_1518	603.4647311	829.0964703	377.832992	0.455716561	-1.133791296	0.100556747	0.999608458	NA	conserved hypothetical protein
GSA29213_1255	2456.099285	3377.868072	1534.330498	0.454230439	-1.138503707	0.004081601	0.985367223	NA	UDP-N-acetylglucosamine 2-epimerase
GSA29213_2218	607.8985145	826.401285	379.1972441	0.453700375	-1.140187666	0.09811542	0.999608458	NA	conserved hypothetical protein
GSA29213_743	1063.017864	1464.006616	662.029112	0.452203634	-1.144955509	0.051476019	0.999608458	NA	cof-1ike hydrolase family protein
GSA29213_314	1674.091777	2308.32145	1039.862104	0.450484097	-1.150451918	0.018557382	0.999608458	HlgC	gamma-hemolysin component C
GSA29213_920	434.2030788	598.9948067	269.4113508	0.449772432	-1.152732859	0.114460242	0.999608458	NA	putative gp49
GSA29213_1025	1570.42325	2167.890323	974.1520185	0.449519751	-1.153145459	0.021895502	0.999608458	dnaI	primosomal protein DnaI
GSA29213_900	1849.715952	2556.076416	1143.355489	0.447308806	-1.160656936	0.012607876	0.999608458	NA	5'-nucleotidase%2C C-terminal domain protein
GSA29213_1975	654.2273752	907.623285	400.8315219	0.441627659	-1.179097563	0.082068161	0.999608458	NA	spT-like family protein
GSA29213_2267	1201.638459	1667.323959	735.9529583	0.441397699	-1.179848987	0.035866322	0.999608458	NA	PAP2 superfamily protein
GSA29213_2339	716.3391795	994.063359	438.6348211	0.441234192	-1.180383503	0.075142923	0.999608458	foiR	2-amino-4-hydroxy-6-hydroxymethylidihydropteridine diphosphokinase
GSA29213_1410	395.8693959	540.6878074	241.8485644	0.439311608	-1.186680191	0.108318626	0.999608458	NA	putative 7206234
GSA29213_1354	1605.350585	2231.620896	979.0802749	0.438730555	-1.18852909	0.01705822	0.999608458	NA	binding-dependent transport system inner membrane component family protein
GSA29213_1973	1218.103482	1695.325749	740.8812147	0.437014075	-1.194248348	0.032752662	0.999608458	sigB	RNA polymerase sigma-8 factor
GSA29213_928	798.0805935	1111.549306	484.611881	0.435978754	-1.197670264	0.062898863	0.999608458	NA	conserved hypothetical protein
GSA29213_1800	381.5266611	531.4252706	231.6280516	0.435861944	-1.19805685	0.106463465	0.999608458	NA	conserved hypothetical protein
GSA29213_1876	453.1030401	631.8664729	274.3396072	0.434173388	-1.203656795	0.097187547	0.999608458	greA	transcription elongation factor greA
GSA29213_624	542.90811	757.2657922	328.5504278	0.433864082	-1.204684939	0.087304878	0.999608458	defA	peptide deformylase
GSA29213_2510	315.6415347	440.7238212	190.5592481	0.432377918	-1.209635251	0.110272947	0.999608458	NA	N-6 DNA Methylase family protein
GSA29213_2259	1150.15032	1607.059238	693.2414027	0.43137265	-1.212993884	0.033792792	0.999608458	NA	bacterial regulatory %2C gtrR family protein
GSA29213_1409	264.4244176	369.5019777	159.3469795	0.431248032	-1.213410223	0.115518066	0.999608458	NA	bacterial Ig-like domain family protein
GSA29213_493	373.9800149	522.902867	225.0570431	0.43039923	-1.216252597	0.102010623	0.999608458	rlpX	ribosomal protein L24
GSA29213_1840	1334.113328	1868.200364	800.0202917	0.42822908	-1.223545327	0.023377712	0.999608458	nuc	thermonuclease
GSA29213_1544	390.870321	548.4698383	233.2708037	0.425312	-1.233406535	0.095517865	0.999608458	pprR	ribosomal protein S18
GSA29213_1683	622.489764	875.3602968	369.6192133	0.42224811	-1.243837128	0.06956222	0.999608458	eIF	translation elongation factor P
GSA29213_514	882.502934	1244.22344	520.7524281	0.41852601	-1.256610809	0.044301875	0.999608458	rlpM	ribosomal protein L13
GSA29213_714	263.2684843	373.7630196	152.7759489	0.408750842	-1.290706393	0.094164045	0.999608458	hfg	RNA chaperone Hfg
GSA29213_442	727.509291	1033.631282	422.1872997	0.408450583	-1.291766553	0.050451303	0.999608458	NA	uref family protein
GSA29213_1709	1237.564047	1758.025408	717.8826848	0.408346024	-1.292139316	0.020105633	0.999608458	proC	pyrroline 5-carboxylate reductase
GSA29213_1027	809.4300645	1152.336521	466.5416075	0.408086468	-1.304481925	0.0419510064	0.999608458	ncfR	transcriptional regulator NcfR
GSA29213_391	1136.220273	1618.62194	653.8153513	0.403932519	-1.3078138	0.022717324	0.999608458	NA	ABC transporter family protein
GSA29213_1965	603.9900516	861.3594019	346.6207013	0.402411236	-1.313257508	0.056958822	0.999608458	NA	bacterial PH domain protein
GSA29213_1486	660.0770452	942.3210984	377.832992	0.40095992	-1.318470064	0.05129943	0.999608458	vfrA	low molecular weight protein-tyrosine-phosphatase vfrA
GSA29213_923	261.1223649	373.1542851	140.4004447	0.400612965	-1.319738982	0.087219128	0.999608458	NA	conserved hypothetical protein
GSA29213_2541	842.8851194	1207.728366	478.0489725	0.395817876	-1.337091326	0.034832	0.999608458	hrcC	protein hrcC
GSA29213_1621	330.4054257	478.4653639	182.3454874	0.381104885	-1.391739995	0.064809252	0.999608458	NA	BH1328 protein
GSA29213_1777	659.7768337	958.1481969	361.4054706	0.37719162	-1.406630471	0.037636212	0.999608458	rdgB	non-canonical purine NTP pyrophosphatase%2C RdgB/HAM1 family
GSA29213_462	667.2025642	969.7141535	364.6097949	0.376089093	-1.410850044	0.036571203	0.999608458	moHfE	molybdopterin synthase catalytic subunit
GSA29213_514	698.5482382	1015.971798	381.1184963	0.375121476	-1.414517603	0.034051632	0.999608458	pyrE	orotate phosphoribosyltransferase
GSA29213_2276	465.9531575	680.5652377	251.3410733	0.369312247	-1.437086989	0.04672415	0.999608458	NA	conserved hypothetical protein
GSA29213_335	343.4932187	504.64095	182.3454874	0.36133708	-1.468582784	0.050458806	0.999608458	nirD	nitrite reductase [NAD(P)H%2C small subunit
GSA29213_1160	2192.245902	3221.423239	1163.068514	0.361041816	-1.469762155	0.000529397	0.459339873	NA	HD domain protein
GSA29213_2446	732.5748377	1077.460171	387.6895048	0.3558017945	-1.474669954	0.025351652	0.999608458	lecD	3-isopropylmalate dehydratase%2C small subunit
GSA29213_9	1520.356913	2245.621791	795.0920353	0.354063189	-1.497921195	0.003391029	0.882684797	NA	glycosyl transferases group 1 family protein
GSA29213_1141	649.6201095	973.9752955	325.2649235	0.333566031	-1.582269928	0.019918781	0.999608458	NA	conserved hypothetical protein
GSA29213_2231	1647.640816	2490.333084	804.9485481	0.323229271	-1.629370242	0.000963717	0.583709995	NA	binding-dependent transport system inner membrane component family protein
GSA29213_1771	444.6265697	675.0953612	213.5577781	0.316056303	-1.661746507	0.022569551	0.999608458	trxA	thioredoxin
GSA29213_1411	359.5630346	546.6436346	172.4899746	0.315541906	-1.664096476	0.026135835	0.999608458	acpP	acyl carrier protein
GSA29213_1826	641.8649776	983.1063139	300.6236414	0.305789554	-1.70938997	0.012241105	0.999608458	NA	thioredoxin family protein
GSA29213_2340	266.4131946	414.5482351	118.278154	0.285318195	-1.809356345	0.019281914	0.999608458	folB	dihydropteridin aldolase
GSA29213_1943	203.9344882	320.8031129	87.0686337	0.271399684	-1.881590956	0.018050784	0.999608458	NA	hypothetical protein
GSA29213_1724	378.4704218	595.9511339	160.9891996	0.270139111	-1.888225564	0.011377448	0.999608458	NA	conserved hypothetical protein
GSA29213_677	201.5012757	317.7904401	85.42311123	0.268294899	-1.895236637	0.017396062	0.999608458	NA	conserved hypothetical protein
GSA29213_497	548.9328209	882.665115	215.2005302	0.248807677	-2.036184542	0.004023019	0.885367223	rlpF	ribosomal protein L6
GSA29213_1379	227.2831988	382.2853035	72.28109412	0.189076309	-2.402959489	0.002572069	0.836886972	NA	conserved hypothetical protein