

SUPPLEMENTARY FILE

RNA-Seq-based transcriptome analysis of methicillin-resistant *Staphylococcus aureus* biofilm inhibition by ursolic acid and resveratrol

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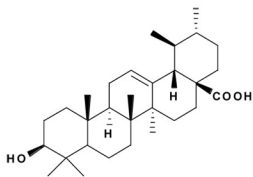
Supplementary materials

Procedures of using RNeasy Mini Kit to purify MRSA total RNA:

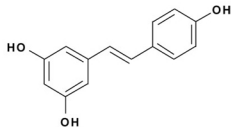
1. Prepare TE buffer (30 mM Tris·Cl, 1 mM EDTA, pH 8.0) containing 20 mg/mL lysozyme and 12.5 µg/mL lysostaphin.
2. Add 200µL Proteinase K and 200 µL TE buffer (step 1) to the pellet treated by RNA Protect solution.
3. Mix by vortexing for 10 s. Incubate in the bath at 37°C for 1 h. During incubation, vortex for 10 s at least every 5-10 min.
4. Add 700 µL Buffer RLT (Ensure that β-mercaptoethanol is added to Buffer RLT before use). Vortex vigorously for 5–10 s. Centrifuge for 2 min at maximum speed. Transfer supernatant into a new tube.
5. Add 500 µL ethanol (100%). Mix well by pipetting. Do not centrifuge.
6. Transfer up to 700 µL lysate, including any precipitate that may have formed, to an RNeasy Mini spin column placed in a 2 ml collection tube. Close the lid gently, and centrifuge for 15 s at 12,000 ×g. Discard the flow-through. Reuse the collection tube in step 7. If the lysate exceeds 700 µL, centrifuge successive aliquots through the spin column. Discard the flow-through after each centrifugation.
7. Add 350 µL Buffer RW1 to the RNeasy Mini spin column. Close the lid gently, and centrifuge for 15 s at 12,000 ×g to wash the spin column membrane. Discard the flow-through and collection tube.
8. Add 80µL DNase I solution to the RNeasy Mini spin column. Incubate at room temperature

- (15–25°C) for 15 min.
9. Add 350 μL Buffer RW1 to the RNeasy Mini spin column. Incubate at room temperature (15–25°C) for 5 min. Discard the flow-through and collection tube.
 10. Place the RNeasy Mini spin column in a new 2 ml collection tube. Add 500 μL Buffer RPE (Ensure that ethanol is added to RPE buffer before use) to the RNeasy Mini spin column. Close the lid gently, and centrifuge for 15 s at 12,000 $\times g$ to wash the spin column membrane. Discard the flow-through. Reuse the collection tube in step 11.
 11. Add 500 μL Buffer RPE to the RNeasy Mini spin column. Close the lid gently, and centrifuge for 15 s at 12,000 $\times g$ to wash the spin column membrane. Discard the flow-through. Reuse the collection tube.
 12. Centrifuge for 2 min at maximum speed, ensures that no ethanol is carried.
 13. Place the RNeasy Mini spin column in a new 1.5 mL collection tube. Open the lid and incubate at room temperature (15–25°C) for 2 min. Add 30 μL preheated RNA storage solution directly to the spin column membrane. Close the lid gently and incubate at room temperature (15–25°C) for 2 min. Centrifuge for 1 min at 12,000 $\times g$ to elute the RNA.
 14. Suction out the elutate and then add to the RNeasy Mini spin column. Close the lid gently and incubate at room temperature (15–25°C) for 2 min. Centrifuge for 1 min at 12,000 $\times g$. The collection solution is the total RNA.

Supplementary figures



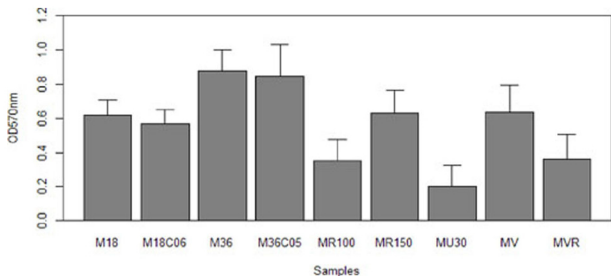
a



b

Supplementary Figure S1. Structures of ursolic acid (a) and resveratrol (b).

Ursolic acid is a relatively nontoxic active ingredient of many medicinal and edible plants and has a broad range of pharmacology effects, including protection against liver injury, anti-tumor activity, inhibition of mutagenesis in bacteria, anti-inflammation, and anti-ulcer activity²⁵. Resveratrol also has lots important pharmacology effects, such as anticancer, antioxidation, anti-aging, immunoregulation, anti-inflammation, and anti-bacterial activity³⁶. A few literatures reported that resveratrol is QSI, but its quorum sensing inhibitory rate was low³⁷. Recent studies showed that ursolic acid inhibited *E. coli* biofilm formation without interfering with quorum sensing²⁵.



Supplementary Figure S2. Inhibition the clinical MRSA isolate biofilm by the addition of

ursolic acid, resveratrol, and vancomycin. For M18C06, MU30, and MR100, data were

collected 18 h after the addition of ethanol (0.6% [v/v]), ursolic acid (30 µg/mL), and resveratrol

(100µg/mL) in TSB medium, respectively. For M18, data were collected 18 h without treatment

and as control in the inhibiting biofilm formation inhibitions. For M36C05, MV, MVR, and

MR150, data were collected 18 h after the addition of ethanol (0.5% [v/v]), vancomycin (8

µg/mL), the combination of vancomycin (8 µg/mL) and resveratrol (150 µg/mL), and resveratrol

(150 µg/mL) in the TSB medium when biofilms were cultured for 18 h, respectively. For M36,

data were collected 36 h and changed fresh TSB medium every 18 h and as control in the

removing established biofilm conditions. M18C06 and M36C05 were used to observe the effects

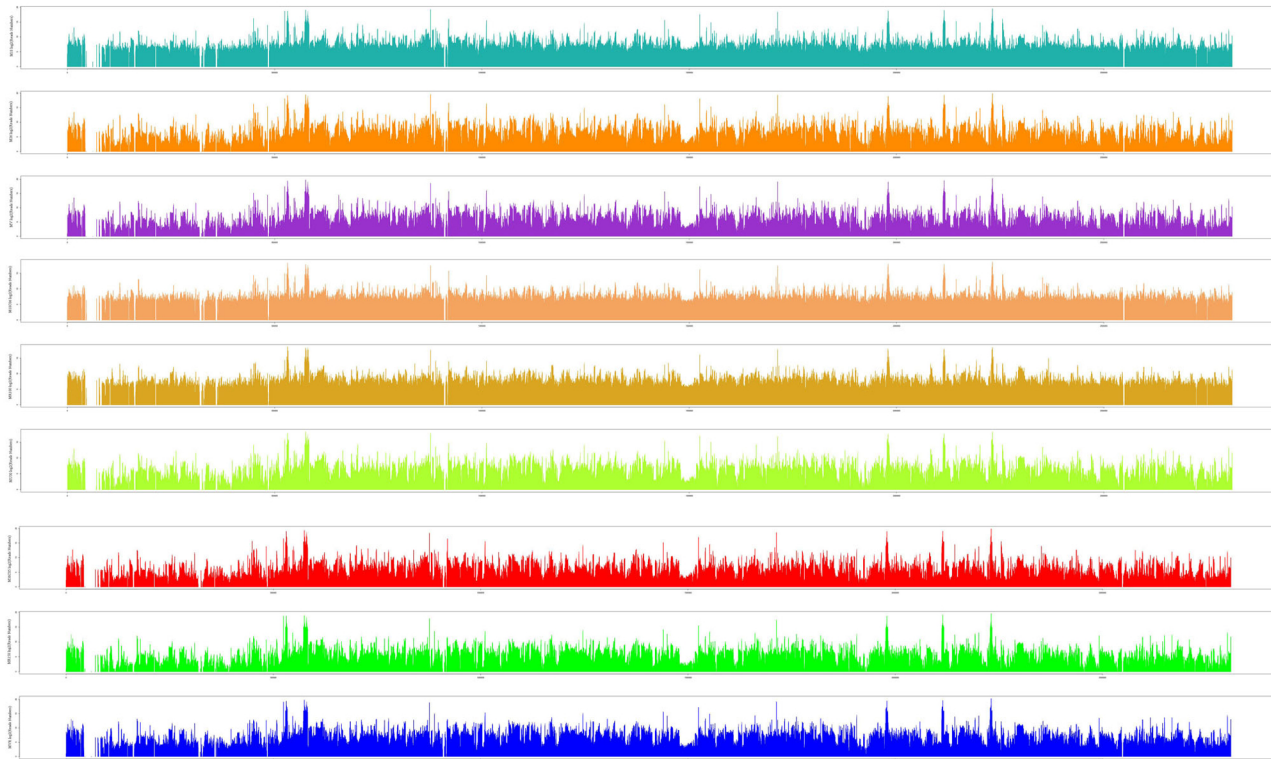
of solvent on biofilms. At least three independent experiments were conducted, and the error bars

indicate one standard deviation. Values treated with ursolic acid, resveratrol or vancomycin are

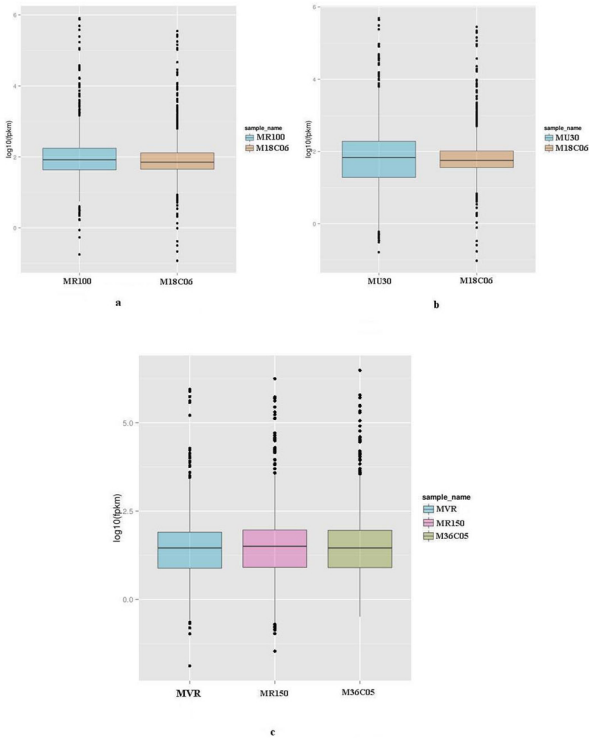
significantly different from the untreated control (P value < 0.05 assigned using Student's t-test).

However, values only treated with ethanol are not significantly different from the control without

ethanol (P value > 0.05 assigned using Student's t-test).



Supplementary Figure S3. The distribution of reads randomly mapped along the relative position in the genome (5' → 3') in each sample.



Supplementary Figure S4. Boxplots of the expression distribution for all methicillin-resistant

***Staphylococcus aureus* (MRSA) genes under the different conditions.** The 5th percentile

(bottom edge of the vertical line), 25th percentile (bottom edge of the box), median (black line),

75th percentile (top edge of the box), 95th percentile (top edge of the vertical line), and the number

of the outlier points (above and below the vertical lines) were described in [Supplementary Table](#)

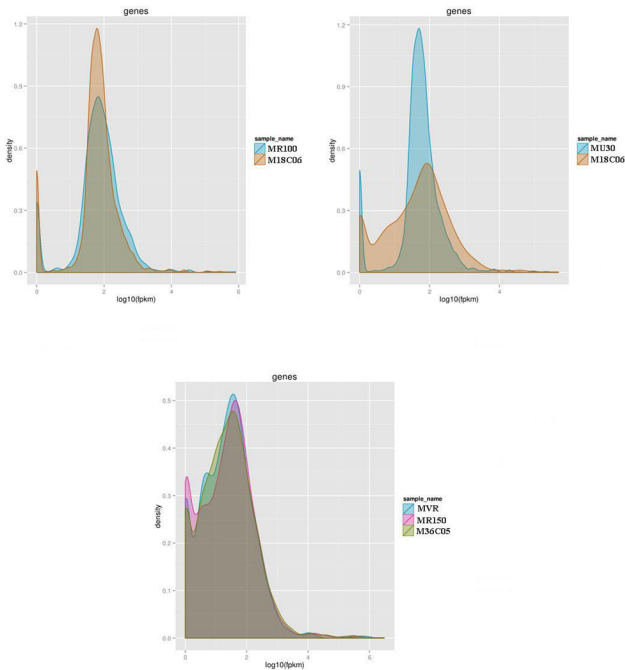
[S18](#). (a) Resveratrol inhibiting MRSA biofilm formation condition compared with control

(M18C06) condition; (b) ursolic acid inhibiting MRSA biofilm formation condition compared

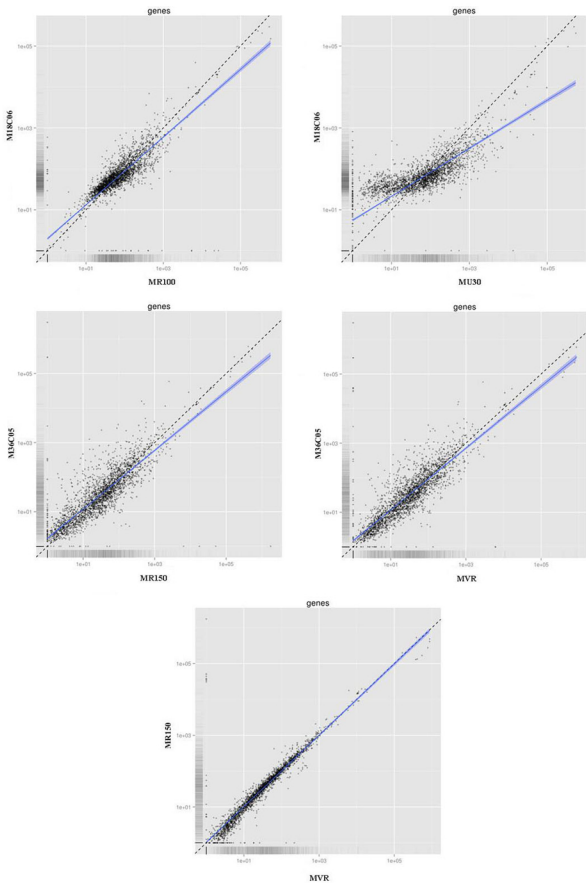
with the control (M18C06) condition; and (c) resveratrol and combination with vancomycin

inhibiting established MRSA biofilm conditions compared with the control (M36C05) condition.

Chemically, resveratrol had no correlation with ursolic acid, so we performed the differential expression analyses separately.

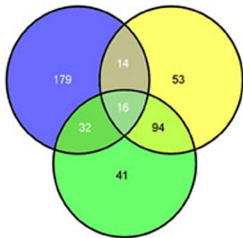


Supplementary Figure S5. Density plots of the expression level distribution for all methicillin-resistant *Staphylococcus aureus* (MRSA) genes in each condition. FPKM, fragments per kilobase of transcript per million fragments mapped. Chemically, resveratrol had no correlation with ursolic acid, so we performed the differential expression analyses separately.



Supplementary Figure S6. Scatter plots of the expression level distribution for all methicillin-resistant *Staphylococcus aureus* (MRSA) genes between two samples of each condition.

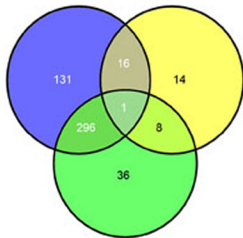
MR100 vs M18C06 MR100 vs MU30



MU30 vs M18C06

a

MR150 vs M36C05 MVR vs MR150

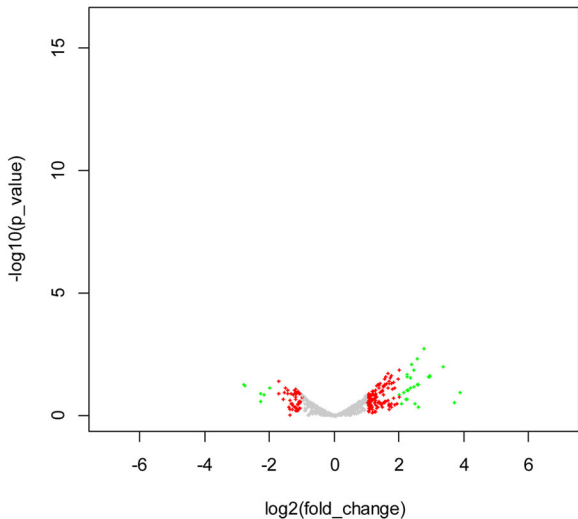


MVR vs M36C05

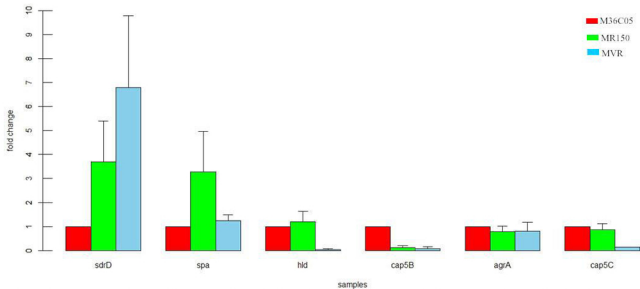
b

Supplementary Figure S7. Venn diagrams of the differentially expressed genes after methicillin-resistant *Staphylococcus aureus* (MRSA) was treated with different compounds under different conditions. (a) Inhibitory conditions; and (b) removed conditions.

MVR vs MR150



Supplementary Figure S8. Volcano plots of the expression level distribution for all methicillin-resistant *Staphylococcus aureus* (MRSA) genes in MVR compared with MR150.



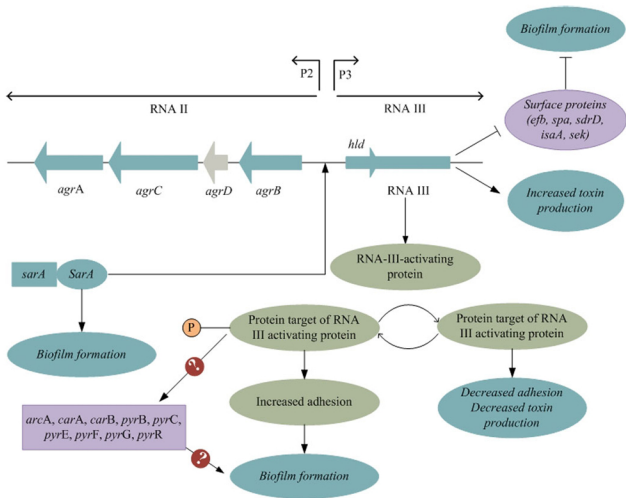
Supplementary Figure S9. Real-time PT-PCR quantification of the expression of indicated

genes in M36C05, MR150, and MVR samples. The values are an average of two to three

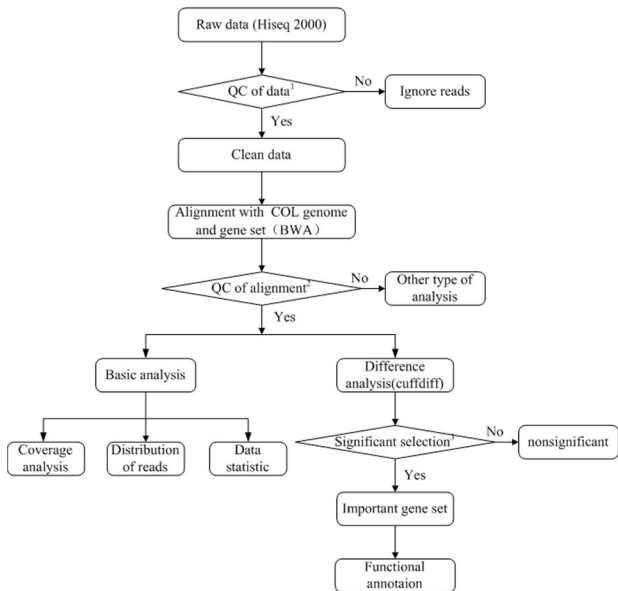
replications using the standard curve method, and the data are expressed as the ratio of the number

of gene copies of MR150/M36C05 or MVR/M36C05. Genes with a ratio of >1 are up-regulated in

the MR150 or MVR samples.



Supplementary Figure S10. The relationship between quorum sensing and biofilm in *Staphylococcus aureus*. Dark green and purple correspond to down-regulated and up-regulated genes, respectively. “?” indicates that the RNA-seq results are contradictory to the microarray results.



¹ QC of raw data:
 removed pair-end reads which satisfied $N > 2\%$ or low quality base (quality value < 20) $> 50\%$;
 cutoff the reads which terminal 20bp is N or low quality base.

² QC of alignment:
 unmapped reads and incorrect alignment:

³ Significant selection:
 $\text{fold} > 2$, $p \text{ value} < 0.05$ and $\text{FDR} < 0.001$

Supplementary Figure S11. RNA-seq data analysis workflow for intergenic expression analyses.

Supplementary Tables

Table S1. Effects of ursolic acid at different concentrations on the MRSA biofilm

Concentration ($\mu\text{g/mL}$)	Growth ¹	Biofilm formation ²	Condition
20	57.4 \pm 6.07	105.4 \pm 5.5	Inhibiting biofilm formation condition ³
25	37.3 \pm 5.36	65.5 \pm 16.3	
30	13.0 \pm 7.21	33.7 \pm 17.84	
30	— ⁵	102.4 \pm 4.88	Removing established biofilm condition ⁴
60	—	103.3 \pm 4.79	
90	—	98.7 \pm 4.20	
120	—	100.5 \pm 6.46	
150	—	97.3 \pm 2.48	

Values treated with ursolic acid are significantly different from the untreated control (P value < 0.05 assigned using Student's t-test).

¹ MRSA growth values were calculated as: (mean OD_{600nm} treated well)/ (mean OD_{600nm} untreated well) \times 100. Values are expressed as means \pm SD.

² Biofilm formation values were calculated as: (mean OD_{570nm} treated well)/ (mean OD_{570nm} untreated well) \times 100. Values are expressed as means \pm SD.

³ Each well contained 0.6% [v/v] ethanol.

⁴ Each well contained 3.0% [v/v] ethanol. the absorbance at OD_{570nm} was measured.

⁵ '—' expresses that the absorbance at OD_{600nm} was not measured.

Table S2. Effects of resveratrol at different concentrations on the MRSA biofilm

Concentration ($\mu\text{g/mL}$)	Growth ¹	Biofilm formation ²	Condition
75	83.8 \pm 7.09	75.43 \pm 1.85	Inhibiting biofilm formation condition ³
100	69.6 \pm 8.00	60.15 \pm 15.38	
150	22.1 \pm 2.29	36.86 \pm 4.37	
200	6.3 \pm 0.39	6.04 \pm 0.69	
100	— ⁴	72.59 \pm 9.21	Removing established biofilm condition ³
150	—	68.74 \pm 10.45	
200	—	69.74 \pm 12.87	

Values treated with resveratrol are significantly different from the untreated control (P value < 0.05 assigned using Student's t-test).

¹ MRSA growth values were calculated as: (mean OD_{600nm} treated well)/ (mean OD_{600nm} untreated well) \times 100. Values are expressed as means \pm SD.

² Biofilm formation values were calculated as: (mean OD_{570nm} treated well)/ (mean OD_{570nm} untreated well) \times 100. Values are expressed as means \pm SD.

³ Each well contained 0.67% [v/v] ethanol.

⁴ '—' expresses that the absorbance at OD_{600nm} was not measured.

Supplementary Table S3. Ursolic acid and resveratrol minimal inhibitory concentration (MICs) and minimal bactericidal concentration (MBCs) of MRSA isolate

	MIC ($\mu\text{g/mL}$)	MBC ($\mu\text{g/mL}$)
Ursolic acid	37	175
Resveratrol	350	>800

Supplementary Table S4. Results of Cuffdiff analysis of RNA-seq data for all annotated MRSA genes in MR100 and M18C06, related to Figure 2a

test_id	gene_id	gene	locus	MR100	M18C06	status	FPKM(MR100)	FPKM(M18C06)	log2(fold change)	test_stat	p_value	q_value
gene0	gene0	dnaA	gi 57650036 ref NC_002951.2 :543-1905	q1	q2	OK	243.243	67.5088	-1.84925	2.42054	0.0154975	0.288253
gene1	gene1	dnaN	gi 57650036 ref NC_002951.2 :2182-3316	q1	q2	OK	169.654	86.1904	-0.976998	1.46982	0.14161	0.771329
gene10	gene10	SACOL0011	gi 57650036 ref NC_002951.2 :14748-15770	q1	q2	OK	53.9205	54.7053	0.0208475	-0.01864	0.985125	0.998143
gene100	gene100	SACOL0104	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	22.1188	26.3766	0.253985	-0.10542	0.91604	0.996932
gene1000	gene1000	SACOL1014	gi 57650036 ref NC_002951.2 :1021518-1023363	q1	q2	OK	102.57	67.8628	-0.59591	0.8432	0.399118	0.939607
gene1001	gene1001	fabI	gi 57650036 ref NC_002951.2 :1023640-1024411	q1	q2	OK	331.158	115.766	-1.51631	2.20362	0.0275514	0.380118
gene1002	gene1002	SACOL1017	gi 57650036 ref NC_002951.2 :1024605-1025691	q1	q2	OK	87.5033	51.3876	-0.767916	1.45411	0.145915	0.783746
gene1003	gene1003	SACOL1018	gi 57650036 ref NC_002951.2 :1026032-1027601	q1	q2	OK	75.9721	80.9917	0.0923055	-0.14649	0.883539	0.996932
gene1004	gene1004	SACOL1019	gi 57650036 ref NC_002951.2 :1027742-1028501	q1	q2	OK	84.4742	86.7393	0.0381752	-0.07623	0.939237	0.996932
gene1005	gene1005	SACOL1020	gi 57650036 ref NC_002951.2 :1028694-1029204	q1	q2	OK	746.953	475.128	-0.652701	0.79969	0.423889	0.93986
gene1006	gene1006	SACOL1021	gi 57650036 ref NC_002951.2 :1029316-1031660	q1	q2	OK	71.4971	55.8734	-0.355722	0.24102	0.809537	0.991128
gene1007	gene1007	ypfP	gi 57650036 ref NC_002951.2 :1029316-1031660	q1	q2	OK	159.821	125.017	-0.354327	0.35636	0.721571	0.986963
gene1008	gene1008	murE	gi 57650036 ref NC_002951.2 :1032092-1035380	q1	q2	OK	114.202	64.5311	-0.823523	0.63045	0.528398	0.97289
gene1009	gene1009	SACOL1024	gi 57650036 ref NC_002951.2 :1032092-1035380	q1	q2	OK	172.2	89.5272	-0.943684	0.2123	0.831876	0.994686
gene101	gene101	SACOL0105	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	36.1182	44.1575	0.289932	-0.15685	0.87536	0.996932
gene1010	gene1010	prfC	gi 57650036 ref NC_002951.2 :1032092-1035380	q1	q2	OK	118.347	69.1757	-0.77468	0.62641	0.531044	0.97289
gene1011	gene1011	SACOL1026	gi 57650036 ref NC_002951.2 :1035681-1036485	q1	q2	OK	71.9299	45.1242	-0.67269	1.37655	0.168651	0.814226
gene1012	gene1012	SACOL1027	gi 57650036 ref NC_002951.2 :1036543-1036639	q1	q2	NOTEST	0	0	0	0	1	1
gene1013	gene1013	htrA	gi 57650036 ref NC_002951.2 :1036718-1039028	q1	q2	OK	45.9495	55.6402	0.276079	-0.43956	0.660257	0.986963
gene1014	gene1014	SACOL1030	gi 57650036 ref NC_002951.2 :1039044-1040403	q1	q2	OK	77.0431	55.9886	-0.460534	0.82569	0.408982	0.939607
gene1015	gene1015	SACOL1031	gi 57650036 ref NC_002951.2 :1040541-1042053	q1	q2	OK	123.616	70.1384	-0.817593	1.20428	0.22848	0.858851
gene1018	gene1018	SACOL1032	gi 57650036 ref NC_002951.2 :1042539-1043070	q1	q2	OK	25.8815	43.2817	0.741838	-1.44018	0.149815	0.788621
gene1019	gene1019	SACOL1033	gi 57650036 ref NC_002951.2 :1043318-1043537	q1	q2	OK	1962.31	2018.54	0.0407612	-0.06911	0.944904	0.996932
gene102	gene102	SACOL0106	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	66.3766	72.9864	0.136951	-0.05977	0.952338	0.996932
gene1020	gene1020	SACOL1034	gi 57650036 ref NC_002951.2 :1043617-1044604	q1	q2	OK	71.523	71.1952	-0.006626	0.0129	0.989706	0.998143
gene1021	gene1021	SACOL1035	gi 57650036 ref NC_002951.2 :1044802-1044979	q1	q2	OK	114.372	157.152	0.458425	-0.63922	0.522679	0.972546
gene1022	gene1022	SACOL1036	gi 57650036 ref NC_002951.2 :1044993-1045596	q1	q2	OK	146.301	182.801	0.321337	-0.59802	0.549826	0.979019
gene1023	gene1023	SACOL1037	gi 57650036 ref NC_002951.2 :1045867-1045975	q1	q2	OK	0	700.131	1.79769e+3	1.79769e+0	0.18455	0.819812
gene1024	gene1024	SACOL1038	gi 57650036 ref NC_002951.2 :1046940-1048905	q1	q2	OK	27.4208	40.885	0.576299	-1.10514	0.269098	0.875983

gene1025	gene1025	SACOL1039	gi 57650036 ref NC_002951.2 :1048907-1049866	q1	q2	OK	15.992	36.286	1.18207	-1.00472	0.315033	0.892668
gene1026	gene1026	SACOL1040	gi 57650036 ref NC_002951.2 :1048907-1049866	q1	q2	OK	29.8292	40.0206	0.424015	-0.78312	0.433559	0.940247
gene1027	gene1027	SACOL1041	gi 57650036 ref NC_002951.2 :1049953-1050244	q1	q2	OK	15.1786	26.7655	0.818334	-1.13777	0.255218	0.875983
gene1028	gene1028	SACOL1042	gi 57650036 ref NC_002951.2 :1050522-1050810	q1	q2	OK	57.3791	35.0189	-0.712394	1.19408	0.232446	0.863102
gene1029	gene1029	SACOL1043	gi 57650036 ref NC_002951.2 :1050815-1052297	q1	q2	OK	53.9753	35.9298	-0.587119	1.13426	0.256684	0.875983
gene103	gene103	SACOL0107	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	32.4264	43.1621	0.412595	-0.17299	0.862663	0.996923
gene1030	gene1030	SACOL1044	gi 57650036 ref NC_002951.2 :1052385-1052742	q1	q2	OK	30.1651	39.4327	0.386512	-0.68117	0.495761	0.964002
gene1031	gene1031	SACOL1045	gi 57650036 ref NC_002951.2 :1053218-1054178	q1	q2	OK	48.3843	59.0366	0.287071	-0.5845	0.558884	0.983432
gene1032	gene1032	SACOL1046	gi 57650036 ref NC_002951.2 :1054223-1054355	q1	q2	OK	201.068	181.145	-0.150541	0.12472	0.900743	0.996932
gene1033	gene1033	SACOL1047	gi 57650036 ref NC_002951.2 :1054418-1054709	q1	q2	OK	121.429	118.012	-0.041185	0.08161	0.93496	0.996932
gene1034	gene1034	SACOL1048	gi 57650036 ref NC_002951.2 :1054852-1055350	q1	q2	OK	81.5707	119.108	0.546152	-1.12743	0.259561	0.875983
gene1035	gene1035	menA	gi 57650036 ref NC_002951.2 :1055401-1056340	q1	q2	OK	67.8741	66.4461	-0.030678	0.06101	0.951349	0.996932
gene1036	gene1036	SACOL1050	gi 57650036 ref NC_002951.2 :1056490-1056595	q1	q2	NOTEST	0	0	0	0	1	1
gene1037	gene1037	SACOL1051	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	68.1728	71.3078	0.0648635	-0.0262	0.979098	0.998143
gene1038	gene1038	menD	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	97.6333	94.9764	-0.039805	0.02277	0.981833	0.998143
gene1039	gene1039	SACOL1053	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	81.3991	78.9673	-0.043757	0.01479	0.988196	0.998143
gene104	gene104	SACOL0108	gi 57650036 ref NC_002951.2 :124113-124878	q1	q2	OK	56.4604	78.124	0.468528	-0.9576	0.338267	0.905587
gene1040	gene1040	menB	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	302.275	191.343	-0.659698	0.39173	0.69526	0.986963
gene1041	gene1041	sspC	gi 57650036 ref NC_002951.2 :1061385-1061715	q1	q2	OK	34.5091	30.4915	-0.178571	0.30116	0.76329	0.986963
gene1042	gene1042	sspB1	gi 57650036 ref NC_002951.2 :1061752-1062934	q1	q2	OK	29.7889	36.3934	0.288901	-0.59697	0.550528	0.979019
gene1043	gene1043	sspA	gi 57650036 ref NC_002951.2 :1063015-1064026	q1	q2	OK	52.868	56.5194	0.0963497	-0.19464	0.845675	0.996923
gene1044	gene1044	SACOL1058	gi 57650036 ref NC_002951.2 :1064553-1065708	q1	q2	OK	108.231	63.3827	-0.771951	1.34442	0.178812	0.819812
gene1045	gene1045	SACOL1059	gi 57650036 ref NC_002951.2 :1065903-1066914	q1	q2	OK	37.4882	38.6375	0.0435649	-0.09022	0.928115	0.996932
gene1046	gene1046	SACOL1060	gi 57650036 ref NC_002951.2 :1067066-1067486	q1	q2	OK	58.0817	27.8608	-1.05985	1.99188	0.0463845	0.487329
gene1047	gene1047	atl	gi 57650036 ref NC_002951.2 :1067692-1071463	q1	q2	OK	185.206	336.091	0.85972	-0.78771	0.430869	0.940181
gene1048	gene1048	SACOL1063	gi 57650036 ref NC_002951.2 :1071690-1072125	q1	q2	OK	31.3162	36.6871	0.228362	-0.42666	0.669627	0.986963
gene1049	gene1049	SACOL1064	gi 57650036 ref NC_002951.2 :1072279-1072750	q1	q2	OK	376.546	263.275	-0.516253	0.86537	0.386838	0.938503
gene105	gene105	SACOL0109	gi 57650036 ref NC_002951.2 :125073-125481	q1	q2	NOTEST	0	0	0	0	1	1
gene1050	gene1050	SACOL1065	gi 57650036 ref NC_002951.2 :1072797-1074015	q1	q2	OK	305.408	237.082	-0.365355	0.39895	0.689934	0.986963
gene1051	gene1051	SACOL1066	gi 57650036 ref NC_002951.2 :1074465-1075659	q1	q2	OK	60.7977	41.9769	-0.53442	1.05511	0.291377	0.891156
gene1052	gene1052	qoxD	gi 57650036 ref NC_002951.2 :1076195-1076474	q1	q2	OK	562.719	253.866	-1.14835	2.28619	0.0222431	0.342403
gene1053	gene1053	qoxC	gi 57650036 ref NC_002951.2 :1076482-1080166	q1	q2	OK	683.34	314.589	-1.11914	0.35829	0.720124	0.986963
gene1054	gene1054	qoxA	gi 57650036 ref NC_002951.2 :1076482-1080166	q1	q2	OK	794.181	395.364	-1.00629	0.72915	0.465908	0.954237

gene1055	gene1055	qoxB	gi 57650036 ref NC_002951.2 :1076482-1080166	q1	q2	OK	754.382	397.762	-0.923392	0.47292	0.636272	0.986963
gene1056	gene1056	SACOL1071	gi 57650036 ref NC_002951.2 :1080737-1081055	q1	q2	OK	125.851	61.4854	-1.0334	2.00473	0.0449922	0.481552
gene1057	gene1057	folD	gi 57650036 ref NC_002951.2 :1081860-1082721	q1	q2	OK	256.492	268.076	0.0637269	-0.08145	0.935083	0.996932
gene1058	gene1058	purE	gi 57650036 ref NC_002951.2 :1082921-1084515	q1	q2	OK	40.1564	76.6194	0.932082	-0.61079	0.541336	0.979019
gene1059	gene1059	purK	gi 57650036 ref NC_002951.2 :1082921-1084515	q1	q2	OK	54.6651	129.819	1.24781	-1.80892	0.0704635	0.590463
gene106	gene106	SACOL0110	gi 57650036 ref NC_002951.2 :125530-126157	q1	q2	OK	27.019	36.6094	0.43824	-0.87037	0.3841	0.938206
gene1060	gene1060	purC	gi 57650036 ref NC_002951.2 :1084518-1085486	q1	q2	OK	45.5234	91.6554	1.00961	-1.85784	0.0631922	0.55727
gene1061	gene1061	purS	gi 57650036 ref NC_002951.2 :1084518-1085486	q1	q2	OK	55.9539	102.813	0.877716	-0.712	0.476468	0.960423
gene1062	gene1062	purQ	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	128.751	158.646	0.301233	-0.09082	0.927636	0.996932
gene1063	gene1063	purL	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	140.314	94.6098	-0.5686	0.32651	0.744042	0.986963
gene1064	gene1064	purF	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	186.682	70.6785	-1.40124	0.6552	0.512339	0.971029
gene1065	gene1065	purM	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	315.81	84.6949	-1.89871	0.84392	0.398715	0.939607
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	q1	q2	OK	301.067	54.7122	-2.46015	4.25977	2.05E-05	0.0057093
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	q1	q2	OK	259.904	59.9876	-2.11525	2.6839	0.007277	0.180916
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	q1	q2	OK	398.494	70.512	-2.49862	3.0552	0.0022491	0.09572
gene1069	gene1069	SACOL1084	gi 57650036 ref NC_002951.2 :1094420-1096620	q1	q2	OK	27.9116	30.0795	0.107912	-0.06941	0.944661	0.996932
gene107	gene107	SACOL0111	gi 57650036 ref NC_002951.2 :126368-127145	q1	q2	OK	1161.12	715.4	-0.69869	0.66327	0.507157	0.969895
gene1070	gene1070	SACOL1085	gi 57650036 ref NC_002951.2 :1094420-1096620	q1	q2	OK	88.4923	58.0748	-0.607639	0.88004	0.378836	0.932987
gene1071	gene1071	SACOL1086	gi 57650036 ref NC_002951.2 :1096634-1097210	q1	q2	OK	57.1191	30.2606	-0.916534	1.83698	0.0662123	0.57234
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	q1	q2	OK	113.287	656.979	2.53586	-2.43251	0.0149945	0.287414
gene1073	gene1073	SACOL1088	gi 57650036 ref NC_002951.2 :1098142-1099438	q1	q2	OK	356.282	150.268	-1.24548	1.39738	0.162299	0.806995
gene1074	gene1074	SACOL1089	gi 57650036 ref NC_002951.2 :1099862-1101035	q1	q2	OK	80.7251	65.7027	-0.297063	0.54638	0.584808	0.985265
gene1075	gene1075	SACOL1090	gi 57650036 ref NC_002951.2 :1101088-1101631	q1	q2	OK	281.741	326.648	0.213369	-0.33565	0.737132	0.986963
gene1076	gene1076	ptsH	gi 57650036 ref NC_002951.2 :1101784-1102051	q1	q2	OK	864.643	707.695	-0.288977	0.53123	0.595263	0.985953
gene1077	gene1077	ptsI	gi 57650036 ref NC_002951.2 :1102053-1103772	q1	q2	OK	700.806	604.73	-0.212724	0.19272	0.847179	0.996923
gene1078	gene1078	SACOL1093	gi 57650036 ref NC_002951.2 :1104008-1104242	q1	q2	OK	43.8615	31.6077	-0.472679	0.6487	0.516534	0.971416
gene1079	gene1079	cydA	gi 57650036 ref NC_002951.2 :1104439-1106817	q1	q2	OK	46.4197	44.4078	-0.063926	0.06586	0.947488	0.996932
gene108	gene108	SACOL0112	gi 57650036 ref NC_002951.2 :127288-127411	q1	q2	NOTEST	0	0	0	0	1	1
gene1080	gene1080	cydB	gi 57650036 ref NC_002951.2 :1104439-1106817	q1	q2	OK	70.2432	83.2361	0.24485	-0.27661	0.782078	0.986963
gene1081	gene1081	SACOL1096	gi 57650036 ref NC_002951.2 :1106949-1107612	q1	q2	OK	174.875	131.883	-0.407062	0.7419	0.458145	0.950591
gene1082	gene1082	SACOL1097	gi 57650036 ref NC_002951.2 :1107647-1107827	q1	q2	OK	121.18	219.952	0.860034	-1.2907	0.196808	0.819847
gene1083	gene1083	SACOL1098	gi 57650036 ref NC_002951.2 :1107960-1109876	q1	q2	OK	257.982	234.509	-0.137624	0.13217	0.894848	0.996932
gene1084	gene1084	SACOL1099	gi 57650036 ref NC_002951.2 :1107960-1109876	q1	q2	OK	715.588	439.368	-0.703701	0.1756	0.860612	0.996923

gene1085	gene1085	def	gi 57650036 ref NC_002951.2 :1110356-1110908	q1	q2	OK	63.7206	54.0696	-0.236942	0.48773	0.625741	0.986963
gene1086	gene1086	SACOL1101	gi 57650036 ref NC_002951.2 :1111272-1111899	q1	q2	OK	178.527	137.211	-0.379751	0.70214	0.482593	0.962503
gene1087	gene1087	pdhA	gi 57650036 ref NC_002951.2 :1112069-1113182	q1	q2	OK	480.36	363.774	-0.401074	0.40188	0.687776	0.986963
gene1088	gene1088	pdhB	gi 57650036 ref NC_002951.2 :1113185-1114163	q1	q2	OK	544.678	426.019	-0.354487	0.35609	0.721777	0.986963
gene1089	gene1089	pdhC	gi 57650036 ref NC_002951.2 :1114253-1115546	q1	q2	OK	737.506	523.368	-0.494831	0.45657	0.647978	0.986963
gene109	gene109	SACOL0113	gi 57650036 ref NC_002951.2 :127489-129116	q1	q2	OK	31.534	38.7035	0.295556	-0.47778	0.632805	0.986963
gene1090	gene1090	pdhD	gi 57650036 ref NC_002951.2 :1115549-1116956	q1	q2	OK	585.999	399.995	-0.550918	0.51648	0.605518	0.986963
gene1091	gene1091	SACOL1106	gi 57650036 ref NC_002951.2 :1117123-1117399	q1	q2	OK	124.332	108.378	-0.198127	0.38457	0.700556	0.986963
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	q1	q2	OK	115.666	44.4122	-1.38094	2.79288	0.005224	0.144433
gene1093	gene1093	SACOL1108	gi 57650036 ref NC_002951.2 :1118094-1119979	q1	q2	OK	132.102	63.4922	-1.057	1.35995	0.173846	0.819812
gene1094	gene1094	SACOL1109	gi 57650036 ref NC_002951.2 :1118094-1119979	q1	q2	OK	69.1233	36.1075	-0.936876	0.7282	0.466494	0.954346
gene1095	gene1095	SACOL1110	gi 57650036 ref NC_002951.2 :1119984-1121867	q1	q2	OK	44.197	24.6653	-0.841467	0.51679	0.605301	0.986963
gene1096	gene1096	SACOL1111	gi 57650036 ref NC_002951.2 :1119984-1121867	q1	q2	OK	138.617	94.9597	-0.545718	0.73759	0.460761	0.950591
gene1097	gene1097	SACOL1112	gi 57650036 ref NC_002951.2 :1121940-1122960	q1	q2	OK	476.485	509.525	0.0967206	-0.09552	0.923903	0.996932
gene1098	gene1098	SACOL1113	gi 57650036 ref NC_002951.2 :1123242-1123662	q1	q2	OK	239.241	188.339	-0.345134	0.68257	0.494879	0.964002
gene1099	gene1099	SACOL1114	gi 57650036 ref NC_002951.2 :1123743-1125096	q1	q2	OK	508.25	574.734	0.177358	-0.16455	0.869298	0.996923
gene11	gene11	SACOL0012	gi 57650036 ref NC_002951.2 :16111-17101	q1	q2	OK	92.2457	87.8033	-0.071205	0.13108	0.895716	0.996932
gene110	gene110	SACOL0114	gi 57650036 ref NC_002951.2 :127489-129116	q1	q2	OK	26.0419	36.0212	0.468013	-0.57109	0.56794	0.985265
gene1100	gene1100	SACOL1115	gi 57650036 ref NC_002951.2 :1125279-1125894	q1	q2	OK	129.915	243.495	0.906324	-1.59208	0.111366	0.717934
gene1101	gene1101	SACOL1116	gi 57650036 ref NC_002951.2 :1126050-1126878	q1	q2	OK	504.291	301.458	-0.742299	0.83615	0.40307	0.939607
gene1102	gene1102	SACOL1117	gi 57650036 ref NC_002951.2 :1127031-1127223	q1	q2	OK	90.0609	48.8712	-0.881918	1.08831	0.276458	0.879877
gene1103	gene1103	typA	gi 57650036 ref NC_002951.2 :1127324-1129172	q1	q2	OK	112.99	74.5702	-0.599522	0.81461	0.415294	0.939652
gene1104	gene1104	SACOL1119	gi 57650036 ref NC_002951.2 :1129311-1129479	q1	q2	OK	620.455	518.025	-0.260304	0.46941	0.638774	0.986963
gene1105	gene1105	SACOL1120	gi 57650036 ref NC_002951.2 :1129480-1129963	q1	q2	OK	99.4699	86.7473	-0.197441	0.40904	0.682508	0.986963
gene1106	gene1106	SACOL1121	gi 57650036 ref NC_002951.2 :1130103-1130379	q1	q2	OK	1057.36	474.329	-1.15651	2.02472	0.042896	0.472836
gene1107	gene1107	SACOL1122	gi 57650036 ref NC_002951.2 :1130692-1131919	q1	q2	OK	70.2658	95.1044	0.43669	-0.75824	0.448308	0.948742
gene1108	gene1108	pyc	gi 57650036 ref NC_002951.2 :1132472-1135925	q1	q2	OK	97.1882	184.729	0.926559	-0.91419	0.360619	0.923053
gene1109	gene1109	ctaA	gi 57650036 ref NC_002951.2 :1136064-1137135	q1	q2	OK	87.8052	63.7188	-0.462588	0.86604	0.386469	0.938503
gene111	gene111	SACOL0115	gi 57650036 ref NC_002951.2 :129325-133131	q1	q2	OK	23.4016	27.2743	0.220935	-0.2031	0.839054	0.996923
gene1110	gene1110	ctaB	gi 57650036 ref NC_002951.2 :1137415-1138327	q1	q2	OK	218.494	85.951	-1.34601	2.08214	0.0373297	0.444619
gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	q1	q2	OK	274.804	99.8969	-1.45989	2.79664	0.0051637	0.144433
gene1112	gene1112	SACOL1127	gi 57650036 ref NC_002951.2 :1139024-1139228	q1	q2	OK	41.5265	53.2467	0.358661	-0.45069	0.652213	0.986963
gene1113	gene1113	SACOL1128	gi 57650036 ref NC_002951.2 :1139277-1140177	q1	q2	OK	114.837	96.2384	-0.254908	0.46266	0.64361	0.986963

gene1114	gene1114	SACOL1129	gi 57650036 ref NC_002951.2 :1140192-1140627	q1	q2	OK	116.131	103.248	-0.16964	0.35148	0.725226	0.986963
gene1115	gene1115	SACOL1130	gi 57650036 ref NC_002951.2 :1140689-1141616	q1	q2	OK	79.932	78.7109	-0.022209	0.043	0.965703	0.996932
gene1116	gene1116	SACOL1131	gi 57650036 ref NC_002951.2 :1141854-1142109	q1	q2	OK	38.9002	34.0775	-0.19096	0.28333	0.776922	0.986963
gene1117	gene1117	SACOL1132	gi 57650036 ref NC_002951.2 :1142111-1142501	q1	q2	OK	140.851	167.1	0.246545	-0.50994	0.610093	0.986963
gene1118	gene1118	SACOL1133	gi 57650036 ref NC_002951.2 :1142570-1143113	q1	q2	OK	137.932	60.9254	-1.17885	2.38413	0.0171193	0.307047
gene1119	gene1119	coaD	gi 57650036 ref NC_002951.2 :1143114-1143597	q1	q2	OK	141.468	59.8865	-1.24018	2.51752	0.0118186	0.249708
gene112	gene112	SACOL0116	gi 57650036 ref NC_002951.2 :129325-133131	q1	q2	OK	21.3943	31.4248	0.554675	-0.53836	0.590332	0.985265
gene1120	gene1120	SACOL1135	gi 57650036 ref NC_002951.2 :1143658-1144798	q1	q2	OK	40.9607	48.9035	0.255698	-0.51926	0.603583	0.986963
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	q1	q2	OK	274.141	103.592	-1.40401	2.50935	0.0120953	0.249708
gene1122	gene1122	rpmF	gi 57650036 ref NC_002951.2 :1145561-1145735	q1	q2	OK	996.486	375.033	-1.40983	2.58534	0.0097283	0.226936
gene1123	gene1123	isdB	gi 57650036 ref NC_002951.2 :1145888-1147826	q1	q2	OK	32.61	45.5824	0.483161	-0.9014	0.367374	0.928011
gene1124	gene1124	isdA	gi 57650036 ref NC_002951.2 :1148028-1149081	q1	q2	OK	42.1155	48.6255	0.20736	-0.42444	0.671246	0.986963
gene1125	gene1125	isdC	gi 57650036 ref NC_002951.2 :1149289-1151924	q1	q2	OK	38.623	24.2694	-0.670325	0.55851	0.5765	0.985265
gene1126	gene1126	isdD	gi 57650036 ref NC_002951.2 :1149289-1151924	q1	q2	OK	36.6726	38.3001	0.0626443	-0.07754	0.938191	0.996932
gene1127	gene1127	SACOL1143	gi 57650036 ref NC_002951.2 :1149289-1151924	q1	q2	OK	32.8974	36.2756	0.141028	-0.1479	0.882422	0.996932
gene1128	gene1128	SACOL1144	gi 57650036 ref NC_002951.2 :1151936-1152902	q1	q2	OK	32.4969	37.987	0.225205	-0.46669	0.640719	0.986963
gene1129	gene1129	srtB	gi 57650036 ref NC_002951.2 :1152963-1153698	q1	q2	OK	15.3233	27.5356	0.845573	-1.63218	0.102641	0.686167
gene113	gene113	SACOL0117	gi 57650036 ref NC_002951.2 :129325-133131	q1	q2	OK	23.9102	32.2065	0.429724	-0.46813	0.639691	0.986963
gene1130	gene1130	SACOL1146	gi 57650036 ref NC_002951.2 :1153716-1154040	q1	q2	OK	41.0729	60.7567	0.564856	-1.02493	0.305394	0.892668
gene1131	gene1131	SACOL1147	gi 57650036 ref NC_002951.2 :1154423-1155164	q1	q2	OK	135.451	60.6379	-1.15948	2.2337	0.0255031	0.368182
gene1132	gene1132	pheS	gi 57650036 ref NC_002951.2 :1155544-1159005	q1	q2	OK	45.8588	50.8581	0.149279	-0.09829	0.9217	0.996932
gene1133	gene1133	pheT	gi 57650036 ref NC_002951.2 :1155544-1159005	q1	q2	OK	61.5786	51.1058	-0.26894	0.3049	0.760444	0.986963
gene1134	gene1134	rnhC	gi 57650036 ref NC_002951.2 :1159175-1160114	q1	q2	OK	43.8479	42.4905	-0.045366	0.09385	0.925229	0.996932
gene1135	gene1135	SACOL1151	gi 57650036 ref NC_002951.2 :1160483-1160750	q1	q2	OK	473.018	110.189	-2.10191	4.09642	4.20E-05	0.0084086
gene1136	gene1136	SACOL1152	gi 57650036 ref NC_002951.2 :1160750-1161272	q1	q2	OK	112.065	53.0038	-1.08017	2.20451	0.0274885	0.380118
gene1137	gene1137	SACOL1153	gi 57650036 ref NC_002951.2 :1161344-1163057	q1	q2	OK	125.791	82.4448	-0.609527	0.82141	0.411415	0.939607
gene1138	gene1138	SACOL1154	gi 57650036 ref NC_002951.2 :1163066-1165415	q1	q2	OK	173.881	86.9333	-1.00012	1.11071	0.266695	0.875983
gene1139	gene1139	trxA	gi 57650036 ref NC_002951.2 :1165587-1165902	q1	q2	OK	276.696	343.3	0.311171	-0.63266	0.526958	0.97289
gene114	gene114	sodA1	gi 57650036 ref NC_002951.2 :133398-133998	q1	q2	OK	181.667	83.6598	-1.11869	2.14993	0.0315608	0.419308
gene1140	gene1140	SACOL1156	gi 57650036 ref NC_002951.2 :1165964-1166060	q1	q2	NOTEST	0	0	0	0	1	1
gene1141	gene1141	uvrC	gi 57650036 ref NC_002951.2 :1166225-1168007	q1	q2	OK	84.143	77.9783	-0.10977	0.16119	0.871946	0.996923
gene1142	gene1142	sdhC	gi 57650036 ref NC_002951.2 :1168330-1168945	q1	q2	OK	511.363	143.772	-1.83056	2.58419	0.0097607	0.226936
gene1143	gene1143	sdhA	gi 57650036 ref NC_002951.2 :1168996-1171578	q1	q2	OK	1745.25	448.342	-1.96076	1.5331	0.12525	0.732386

gene1144	gene1144	sdhB	gi 57650036 ref NC_002951.2 :1168996-1171578	q1	q2	OK	2097.48	607.866	-1.78683	1.0044	0.315183	0.892668
gene1145	gene1145	murI	gi 57650036 ref NC_002951.2 :1171813-1172614	q1	q2	OK	210.593	149.504	-0.494277	0.77269	0.439709	0.944827
gene1146	gene1146	SACOL1162	gi 57650036 ref NC_002951.2 :1172625-1173709	q1	q2	OK	227.45	215.015	-0.081111	0.06634	0.947105	0.996932
gene1147	gene1147	SACOL1163	gi 57650036 ref NC_002951.2 :1172625-1173709	q1	q2	OK	353.238	327.194	-0.110494	0.10001	0.920339	0.996932
gene1148	gene1148	SACOL1164	gi 57650036 ref NC_002951.2 :1174197-1174527	q1	q2	OK	180.454	341.684	0.921033	-1.87205	0.061199	0.550791
gene1149	gene1149	SACOL1165	gi 57650036 ref NC_002951.2 :1174697-1174805	q1	q2	NOTEST	0	0	0	0	1	1
gene115	gene115	SACOL0119	gi 57650036 ref NC_002951.2 :134365-135091	q1	q2	OK	682.839	37.9713	-4.16856	5.32641	1.00E-07	0.0001258
gene1150	gene1150	SACOL1166	gi 57650036 ref NC_002951.2 :1174895-1175297	q1	q2	OK	25.824	27.7343	0.102961	-0.18052	0.856741	0.996923
gene1151	gene1151	SACOL1167	gi 57650036 ref NC_002951.2 :1175968-1176475	q1	q2	OK	72.2103	31.3974	-1.20156	2.38417	0.0171178	0.307047
gene1152	gene1152	efb	gi 57650036 ref NC_002951.2 :1176733-1177231	q1	q2	OK	75.2419	149.724	0.992699	-2.02513	0.0428536	0.472836
gene1153	gene1153	SACOL1169	gi 57650036 ref NC_002951.2 :1177384-1177735	q1	q2	OK	68.6801	129.571	0.915774	-1.83856	0.0659802	0.57234
gene1154	gene1154	SACOL1170	gi 57650036 ref NC_002951.2 :1178160-1178406	q1	q2	OK	86.6242	46.5782	-0.895116	1.45768	0.144928	0.780931
gene1155	gene1155	SACOL1171	gi 57650036 ref NC_002951.2 :1178556-1178742	q1	q2	OK	45.1842	14.3148	-1.65831	1.27412	0.202621	0.819847
gene1156	gene1156	SACOL1172	gi 57650036 ref NC_002951.2 :1179363-1179597	q1	q2	OK	110.531	48.6272	-1.18461	1.8986	0.0576173	0.540443
gene1157	gene1157	hly	gi 57650036 ref NC_002951.2 :1180073-1181033	q1	q2	OK	26.0193	26.3708	0.0193574	-0.03972	0.968312	0.996932
gene1158	gene1158	SACOL1174	gi 57650036 ref NC_002951.2 :1181705-1182033	q1	q2	OK	64.1394	27.7808	-1.20712	0.54096	0.588537	0.985265
gene1159	gene1159	SACOL1175	gi 57650036 ref NC_002951.2 :1181705-1182033	q1	q2	OK	47.4992	15.5474	-1.61123	1.37989	0.167622	0.814226
gene116	gene116	SACOL0120	gi 57650036 ref NC_002951.2 :135282-136038	q1	q2	OK	82.5421	49.3633	-0.741691	1.51194	0.130548	0.739969
gene1160	gene1160	SACOL1176	gi 57650036 ref NC_002951.2 :1182064-1182421	q1	q2	OK	74.8439	62.1485	-0.268164	0.40846	0.682937	0.986963
gene1161	gene1161	SACOL1177	gi 57650036 ref NC_002951.2 :1182064-1182421	q1	q2	OK	569.693	845.342	0.569351	-0.5332	0.593897	0.985953
gene1162	gene1162	SACOL1178	gi 57650036 ref NC_002951.2 :1182589-1183306	q1	q2	OK	37.7733	58.4113	0.628881	-1.29695	0.194648	0.819847
gene1163	gene1163	SACOL1179	gi 57650036 ref NC_002951.2 :1183413-1184139	q1	q2	OK	22.2146	27.5049	0.308181	-0.60961	0.54212	0.979019
gene1164	gene1164	SACOL1180	gi 57650036 ref NC_002951.2 :1184233-1184959	q1	q2	OK	29.6886	38.7015	0.38248	-0.77895	0.436011	0.943001
gene1165	gene1165	arcB1	gi 57650036 ref NC_002951.2 :1185396-1186398	q1	q2	OK	26.6503	34.0582	0.353848	-0.73142	0.464521	0.952374
gene1166	gene1166	arcC1	gi 57650036 ref NC_002951.2 :1186420-1187353	q1	q2	OK	42.5276	54.6395	0.361545	-0.74333	0.45728	0.950521
gene1167	gene1167	SACOL1183	gi 57650036 ref NC_002951.2 :1187524-1189081	q1	q2	OK	58.971	73.1345	0.310546	-0.53038	0.59585	0.986276
gene1168	gene1168	SACOL1184	gi 57650036 ref NC_002951.2 :1189920-1190868	q1	q2	OK	40.2241	56.3334	0.485929	-0.99711	0.31871	0.892668
gene1169	gene1169	SACOL1185	gi 57650036 ref NC_002951.2 :1191116-1191305	q1	q2	OK	12.6065	19.8283	0.653398	-0.47426	0.635318	0.986963
gene117	gene117	deoD1	gi 57650036 ref NC_002951.2 :136273-136981	q1	q2	OK	39.6916	31.4682	-0.334938	0.68244	0.494961	0.964002
gene1170	gene1170	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1191779-1191853	q1	q2	NOTEST	0	0	0	0	1	1
gene1171	gene1171	SACOL1186	gi 57650036 ref NC_002951.2 :1192216-1192351	q1	q2	OK	141.609	0	-1.79769e+	-1.79769e	0.0370172	0.444619
gene1172	gene1172	SACOL1187	gi 57650036 ref NC_002951.2 :1192407-1192542	q1	q2	OK	198.253	50.5369	-1.97193	1.12305	0.261418	0.875983
gene1173	gene1173	SACOL1188	gi 57650036 ref NC_002951.2 :1192665-1193361	q1	q2	OK	91.5052	116.449	0.347774	-0.68501	0.493337	0.964002

gene1174	gene1174	SACOL1189	gi 57650036 ref NC_002951.2 :1193469-1193910	q1	q2	OK	605.266	787.861	0.380372	-0.48237	0.629543	0.986963
gene1175	gene1175	SACOL1190	gi 57650036 ref NC_002951.2 :1194104-1195718	q1	q2	OK	200.576	161.696	-0.310867	0.34796	0.727872	0.986963
gene1176	gene1176	mraZ	gi 57650036 ref NC_002951.2 :1195861-1196293	q1	q2	OK	659.431	150.635	-2.13016	3.30418	0.0009525	0.0512318
gene1177	gene1177	mraW	gi 57650036 ref NC_002951.2 :1196308-1197244	q1	q2	OK	438.687	154.137	-1.50898	1.83696	0.0662161	0.57234
gene1178	gene1178	SACOL1193	gi 57650036 ref NC_002951.2 :1197272-1199874	q1	q2	OK	689.536	223.263	-1.62688	1.20571	0.227929	0.858851
gene1179	gene1179	pbp1	gi 57650036 ref NC_002951.2 :1197272-1199874	q1	q2	OK	91.9901	46.0099	-0.999533	0.91044	0.362593	0.925274
gene118	gene118	SACOL0122	gi 57650036 ref NC_002951.2 :136987-138340	q1	q2	OK	42.4762	35.257	-0.268745	0.54223	0.587661	0.985265
gene1180	gene1180	mraY	gi 57650036 ref NC_002951.2 :1200165-1201131	q1	q2	OK	36.1237	39.5065	0.129142	-0.26767	0.78895	0.986986
gene1181	gene1181	murD	gi 57650036 ref NC_002951.2 :1201132-1202482	q1	q2	OK	86.1472	54.9474	-0.648752	1.139	0.254702	0.875983
gene1182	gene1182	divIB	gi 57650036 ref NC_002951.2 :1202497-1203817	q1	q2	OK	141.027	88.258	-0.676172	0.99029	0.322034	0.89482
gene1183	gene1183	ftsA	gi 57650036 ref NC_002951.2 :1203922-1205335	q1	q2	OK	451.204	336.021	-0.425227	0.40995	0.681841	0.986963
gene1184	gene1184	ftsZ	gi 57650036 ref NC_002951.2 :1205367-1206540	q1	q2	OK	642.576	484.892	-0.406205	0.38346	0.701377	0.986963
gene1185	gene1185	SACOL1200	gi 57650036 ref NC_002951.2 :1206799-1207591	q1	q2	OK	74.0583	67.5	-0.133776	0.27154	0.785975	0.986986
gene1186	gene1186	SACOL1201	gi 57650036 ref NC_002951.2 :1207608-1208843	q1	q2	OK	294.599	343.027	0.219571	-0.16219	0.871154	0.996923
gene1187	gene1187	ylmF	gi 57650036 ref NC_002951.2 :1207608-1208843	q1	q2	OK	447.712	379.409	-0.238815	0.17727	0.859294	0.996923
gene1188	gene1188	ylmG	gi 57650036 ref NC_002951.2 :1208854-1209145	q1	q2	OK	290.291	237.24	-0.291155	0.60186	0.547266	0.979019
gene1189	gene1189	ylmH	gi 57650036 ref NC_002951.2 :1209254-1210034	q1	q2	OK	201.558	166.716	-0.273809	0.43082	0.666602	0.986963
gene119	gene119	deoC1	gi 57650036 ref NC_002951.2 :138420-139083	q1	q2	OK	212.565	79.2951	-1.4226	2.55431	0.0106398	0.23854
gene1190	gene1190	SACOL1205	gi 57650036 ref NC_002951.2 :1210057-1210675	q1	q2	OK	514.384	301.36	-0.771356	0.99356	0.320438	0.894022
gene1191	gene1191	ileS	gi 57650036 ref NC_002951.2 :1210895-1213649	q1	q2	OK	77.8122	62.7485	-0.310417	0.39609	0.692041	0.986963
gene1192	gene1192	SACOL1207	gi 57650036 ref NC_002951.2 :1213938-1214736	q1	q2	OK	109.384	80.1672	-0.448319	0.86682	0.386039	0.938503
gene1193	gene1193	lspA	gi 57650036 ref NC_002951.2 :1215559-1216968	q1	q2	OK	88.101	50.8761	-0.79217	0.73402	0.462939	0.952374
gene1194	gene1194	SACOL1209	gi 57650036 ref NC_002951.2 :1215559-1216968	q1	q2	OK	101.27	55.0346	-0.8798	1.32153	0.186326	0.819812
gene1195	gene1195	pyrR	gi 57650036 ref NC_002951.2 :1217367-1217895	q1	q2	OK	38.0192	68.5502	0.850435	-1.71934	0.0855526	0.638501
gene1196	gene1196	uraA	gi 57650036 ref NC_002951.2 :1218112-1219420	q1	q2	OK	43.2412	65.8123	0.605951	-1.15912	0.246408	0.869586
gene1197	gene1197	pyrB	gi 57650036 ref NC_002951.2 :1219447-1220329	q1	q2	OK	40.8675	58.435	0.515877	-1.06173	0.28836	0.887342
gene1198	gene1198	pyrC	gi 57650036 ref NC_002951.2 :1220346-1221621	q1	q2	OK	64.0796	71.1905	0.15182	-0.27832	0.780771	0.986963
gene1199	gene1199	carA	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	37.2167	34.8509	-0.094752	0.04923	0.960739	0.996932
gene12	gene12	SACOL0013	gi 57650036 ref NC_002951.2 :17406-18330	q1	q2	OK	105.825	74.748	-0.501581	0.93926	0.347598	0.912037
gene120	gene120	deoB	gi 57650036 ref NC_002951.2 :139110-140289	q1	q2	OK	225.969	110.305	-1.03462	1.3756	0.168946	0.814226
gene1200	gene1200	carB	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	59.7036	45.9359	-0.378196	0.42895	0.66796	0.986963
gene1201	gene1201	pyrF	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	67.3116	45.6096	-0.561519	0.88515	0.376079	0.932533
gene1202	gene1202	pyrE	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	47.2534	34.8081	-0.440998	0.54558	0.585358	0.985265

gene1203	gene1203	SACOL1218	gi 57650036 ref NC_002951.2 :1227331-1227544	q1	q2	OK	346.685	219.866	-0.656996	1.26392	0.206258	0.823389
gene1204	gene1204	SACOL1219	gi 57650036 ref NC_002951.2 :1227980-1228382	q1	q2	OK	142.032	130.231	-0.125145	0.25918	0.795497	0.987561
gene1205	gene1205	SACOL1220	gi 57650036 ref NC_002951.2 :1228644-1230342	q1	q2	OK	140.408	96.5268	-0.540625	0.69343	0.488039	0.964002
gene1206	gene1206	gmk	gi 57650036 ref NC_002951.2 :1230616-1231458	q1	q2	OK	451.677	180.096	-1.32653	1.51509	0.12975	0.739318
gene1207	gene1207	rpoZ	gi 57650036 ref NC_002951.2 :1230616-1231458	q1	q2	OK	1337.84	375.691	-1.83228	1.11192	0.266174	0.875983
gene1208	gene1208	coaBC	gi 57650036 ref NC_002951.2 :1231667-1235281	q1	q2	OK	100.677	80.3847	-0.32474	0.18612	0.852351	0.996923
gene1209	gene1209	priA	gi 57650036 ref NC_002951.2 :1231667-1235281	q1	q2	OK	94.7008	102.293	0.111254	-0.0984	0.921618	0.996932
gene121	gene121	SACOL0125	gi 57650036 ref NC_002951.2 :140419-142032	q1	q2	OK	35.2083	45.3133	0.36402	-0.51772	0.604651	0.986963
gene1210	gene1210	SACOL1225	gi 57650036 ref NC_002951.2 :1235786-1236740	q1	q2	OK	43.0098	68.4116	0.669577	-1.35389	0.175771	0.819812
gene1211	gene1211	SACOL1226	gi 57650036 ref NC_002951.2 :1236902-1237181	q1	q2	OK	1505.14	1849.4	0.297157	-0.38633	0.699253	0.986963
gene1212	gene1212	def2	gi 57650036 ref NC_002951.2 :1237404-1240125	q1	q2	OK	154.719	83.7531	-0.88544	0.38062	0.703483	0.986963
gene1213	gene1213	fnt	gi 57650036 ref NC_002951.2 :1237404-1240125	q1	q2	OK	175.776	79.7017	-1.14106	0.78855	0.430373	0.940181
gene1214	gene1214	sun	gi 57650036 ref NC_002951.2 :1237404-1240125	q1	q2	OK	161.901	68.1627	-1.24805	0.99602	0.319242	0.892668
gene1215	gene1215	SACOL1230	gi 57650036 ref NC_002951.2 :1240127-1241222	q1	q2	OK	180.048	63.3472	-1.50703	2.32603	0.0200168	0.32851
gene1216	gene1216	SACOL1231	gi 57650036 ref NC_002951.2 :1241228-1243963	q1	q2	OK	125.091	74.4499	-0.748637	0.46547	0.641597	0.986963
gene1217	gene1217	SACOL1232	gi 57650036 ref NC_002951.2 :1241228-1243963	q1	q2	OK	113.896	60.2028	-0.919808	0.95381	0.340183	0.905587
gene1218	gene1218	SACOL1234	gi 57650036 ref NC_002951.2 :1244190-1245066	q1	q2	OK	139.508	82.021	-0.766281	1.36992	0.170711	0.819609
gene1219	gene1219	rpe	gi 57650036 ref NC_002951.2 :1245066-1245711	q1	q2	OK	99.6136	55.2076	-0.851477	1.73727	0.0823395	0.630349
gene122	gene122	SACOL0126	gi 57650036 ref NC_002951.2 :140419-142032	q1	q2	OK	32.3849	46.8403	0.532428	-0.73982	0.459409	0.950591
gene1220	gene1220	SACOL1236	gi 57650036 ref NC_002951.2 :1245717-1246359	q1	q2	OK	155.259	104.514	-0.570976	1.09547	0.273311	0.879648
gene1221	gene1221	rpmB	gi 57650036 ref NC_002951.2 :1246739-1246928	q1	q2	OK	3441.56	1903.52	-0.854397	1.57434	0.115408	0.723345
gene1222	gene1222	SACOL1239	gi 57650036 ref NC_002951.2 :1247370-1247745	q1	q2	OK	284.819	164.993	-0.787644	1.57819	0.114522	0.722525
gene1223	gene1223	SACOL1240	gi 57650036 ref NC_002951.2 :1247759-1249406	q1	q2	OK	167.468	85.7994	-0.964847	1.23342	0.217421	0.839912
gene1224	gene1224	recG	gi 57650036 ref NC_002951.2 :1249595-1251656	q1	q2	OK	79.2489	85.1245	0.103184	-0.14029	0.888434	0.996932
gene1225	gene1225	SACOL1242	gi 57650036 ref NC_002951.2 :1251858-1252431	q1	q2	OK	151.445	142.301	-0.089849	0.17465	0.861358	0.996923
gene1226	gene1226	plsX	gi 57650036 ref NC_002951.2 :1252435-1255068	q1	q2	OK	160.291	104.738	-0.613911	0.43006	0.667155	0.986963
gene1227	gene1227	fabD	gi 57650036 ref NC_002951.2 :1252435-1255068	q1	q2	OK	117.61	86.3511	-0.445723	0.26419	0.791633	0.986986
gene1228	gene1228	fabG1	gi 57650036 ref NC_002951.2 :1252435-1255068	q1	q2	OK	172.846	131.931	-0.389703	0.24367	0.807489	0.9909
gene1229	gene1229	SACOL1246	gi 57650036 ref NC_002951.2 :1255190-1255289	q1	q2	OK	7316.17	0	-1.79769e+;	-1.79769e	0.117533	0.723345
gene123	gene123	SACOL0127	gi 57650036 ref NC_002951.2 :142033-142807	q1	q2	OK	28.6702	36.902	0.364148	-0.7439	0.456936	0.950521
gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	q1	q2	OK	343.874	184.783	-0.896045	1.77394	0.0760727	0.618185
gene1231	gene1231	rnc	gi 57650036 ref NC_002951.2 :1255659-1256391	q1	q2	OK	138.645	134.578	-0.04295	0.07824	0.937636	0.996932
gene1232	gene1232	SACOL1250	gi 57650036 ref NC_002951.2 :1256537-1261673	q1	q2	OK	56.5742	49.9413	-0.179911	0.16071	0.872319	0.996923

gene1233	gene1233	SACOL1251	gi 57650036 ref NC_002951.2 :1256537-1261673	q1	q2	OK	86.2309	66.724	-0.369999	0.22275	0.823734	0.992727
gene1234	gene1234	SACOL1252	gi 57650036 ref NC_002951.2 :1256537-1261673	q1	q2	OK	91.0458	51.8598	-0.811977	0.17656	0.859855	0.996923
gene1235	gene1235	ffh	gi 57650036 ref NC_002951.2 :1261698-1263066	q1	q2	OK	233.058	145.491	-0.679756	0.80388	0.421468	0.939652
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	q1	q2	OK	167.578	50.6701	-1.72562	3.15045	0.0016302	0.0730966
gene1237	gene1237	rimM	gi 57650036 ref NC_002951.2 :1263963-1265204	q1	q2	OK	39.709	37.8639	-0.068642	0.07236	0.942312	0.996932
gene1238	gene1238	trmD	gi 57650036 ref NC_002951.2 :1263963-1265204	q1	q2	OK	64.8312	55.2499	-0.230714	0.39588	0.692191	0.986963
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	q1	q2	OK	242.288	126.43	-0.938391	1.91648	0.0553041	0.538882
gene124	gene124	SACOL0128	gi 57650036 ref NC_002951.2 :143020-143977	q1	q2	OK	24.0642	38.2577	0.668864	-1.37589	0.168857	0.814226
gene1240	gene1240	SACOL1259	gi 57650036 ref NC_002951.2 :1265900-1268507	q1	q2	OK	60.4558	58.6978	-0.042576	0.05961	0.952466	0.996932
gene1241	gene1241	rbgA	gi 57650036 ref NC_002951.2 :1268907-1270543	q1	q2	OK	54.1002	38.2253	-0.501104	0.68604	0.492691	0.964002
gene1242	gene1242	rnhB	gi 57650036 ref NC_002951.2 :1268907-1270543	q1	q2	OK	59.6524	43.3806	-0.459528	0.60772	0.543373	0.979019
gene1243	gene1243	sucC	gi 57650036 ref NC_002951.2 :1270651-1271818	q1	q2	OK	1232.64	609.843	-1.01524	0.9357	0.349426	0.913467
gene1244	gene1244	sucD	gi 57650036 ref NC_002951.2 :1271839-1272748	q1	q2	OK	1568.79	788.954	-0.991637	0.91517	0.360102	0.923053
gene1245	gene1245	lytN	gi 57650036 ref NC_002951.2 :1272941-1274093	q1	q2	OK	41.9895	46.9337	0.160595	-0.3262	0.744273	0.986963
gene1246	gene1246	eprH	gi 57650036 ref NC_002951.2 :1274120-1275365	q1	q2	OK	29.871	31.7453	0.0877979	-0.18163	0.855873	0.996923
gene1247	gene1247	SACOL1266	gi 57650036 ref NC_002951.2 :1275537-1276410	q1	q2	OK	33.0136	56.1316	0.765753	-1.57613	0.114996	0.723345
gene1248	gene1248	topA	gi 57650036 ref NC_002951.2 :1276589-1278659	q1	q2	OK	152.031	82.0558	-0.889687	1.06488	0.28693	0.887342
gene1249	gene1249	gid	gi 57650036 ref NC_002951.2 :1278814-1280122	q1	q2	OK	207.273	100.246	-1.04799	1.37716	0.168463	0.814226
gene125	gene125	SACOL0129	gi 57650036 ref NC_002951.2 :144205-145750	q1	q2	OK	61.5018	86.6899	0.495235	-0.80957	0.418185	0.939652
gene1250	gene1250	xerC	gi 57650036 ref NC_002951.2 :1280538-1281977	q1	q2	OK	174.396	180.51	0.0497194	-0.04828	0.961496	0.996932
gene1251	gene1251	hslV	gi 57650036 ref NC_002951.2 :1280538-1281977	q1	q2	OK	211.387	189.639	-0.156633	0.11576	0.907845	0.996932
gene1252	gene1252	hslU	gi 57650036 ref NC_002951.2 :1282042-1283446	q1	q2	OK	234.782	196.536	-0.256526	0.28543	0.775317	0.986963
gene1253	gene1253	codY	gi 57650036 ref NC_002951.2 :1283470-1284244	q1	q2	OK	317.474	183.168	-0.793473	1.10106	0.270873	0.875983
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	q1	q2	OK	733.208	112.644	-2.70245	3.32283	0.0008911	0.0497224
gene1255	gene1255	SACOL1275	gi 57650036 ref NC_002951.2 :1285395-1285509	q1	q2	OK	135.445	270.736	0.999183	-0.42406	0.671521	0.986963
gene1256	gene1256	tsf	gi 57650036 ref NC_002951.2 :1285543-1286425	q1	q2	OK	745.67	363.658	-1.03595	1.06258	0.287971	0.887342
gene1257	gene1257	pyrH	gi 57650036 ref NC_002951.2 :1286561-1287284	q1	q2	OK	105.412	97.1687	-0.117483	0.23056	0.817659	0.991377
gene1258	gene1258	frr	gi 57650036 ref NC_002951.2 :1287302-1287857	q1	q2	OK	148.025	111.53	-0.408401	0.81472	0.415235	0.939652
gene1259	gene1259	uppS	gi 57650036 ref NC_002951.2 :1288229-1289000	q1	q2	OK	63.9651	57.3211	-0.158218	0.32591	0.744492	0.986963
gene126	gene126	SACOL0130	gi 57650036 ref NC_002951.2 :145800-147336	q1	q2	OK	58.7777	45.7343	-0.361993	0.67036	0.502626	0.965124
gene1260	gene1260	cdsA	gi 57650036 ref NC_002951.2 :1289006-1289789	q1	q2	OK	41.2446	70.9351	0.782294	-1.60587	0.108303	0.711606
gene1261	gene1261	SACOL1281	gi 57650036 ref NC_002951.2 :1290025-1291312	q1	q2	OK	104.653	87.3027	-0.261517	0.41913	0.675124	0.986963
gene1262	gene1262	proS	gi 57650036 ref NC_002951.2 :1291331-1293035	q1	q2	OK	92.5616	66.9371	-0.467607	0.70689	0.479638	0.960423

gene1263	gene1263	polC	gi 57650036 ref NC_002951.2 :1293298-1297609	q1	q2	OK	67.5939	63.7821	-0.083743	0.09232	0.926445	0.996932
gene1264	gene1264	SACOL1284	gi 57650036 ref NC_002951.2 :1297898-1298366	q1	q2	OK	218.988	97.7964	-1.163	2.30158	0.0213586	0.341601
gene1265	gene1265	nusA	gi 57650036 ref NC_002951.2 :1298386-1299562	q1	q2	OK	164.758	75.2235	-1.13109	1.71307	0.0866992	0.638501
gene1266	gene1266	SACOL1286	gi 57650036 ref NC_002951.2 :1299582-1300181	q1	q2	OK	184.558	73.338	-1.33144	1.45129	0.146699	0.783746
gene1267	gene1267	SACOL1287	gi 57650036 ref NC_002951.2 :1299582-1300181	q1	q2	OK	309.19	133.706	-1.20942	1.98366	0.0472935	0.493802
gene1268	gene1268	infB	gi 57650036 ref NC_002951.2 :1300185-1302303	q1	q2	OK	361.641	151.431	-1.25589	1.24137	0.214467	0.834927
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	q1	q2	OK	386.008	84.0246	-2.19975	4.22913	2.35E-05	0.0058907
gene127	gene127	SACOL0132	gi 57650036 ref NC_002951.2 :147862-148756	q1	q2	NOTEST	0	0	0	0	1	1
gene1270	gene1270	truB	gi 57650036 ref NC_002951.2 :1303207-1304125	q1	q2	OK	50.4808	83.0915	0.718966	-1.4289	0.153032	0.793468
gene1271	gene1271	ribF	gi 57650036 ref NC_002951.2 :1304139-1305111	q1	q2	OK	128.728	173.747	0.432663	-0.65817	0.510432	0.971029
gene1272	gene1272	rpsO	gi 57650036 ref NC_002951.2 :1305225-1305495	q1	q2	OK	723.576	504.275	-0.520933	1.00445	0.315159	0.892668
gene1273	gene1273	pnp	gi 57650036 ref NC_002951.2 :1305864-1307961	q1	q2	OK	175.984	141.831	-0.311271	0.33201	0.739882	0.986963
gene1274	gene1274	SACOL1294	gi 57650036 ref NC_002951.2 :1308298-1309870	q1	q2	OK	357.129	242.07	-0.561023	0.55771	0.577043	0.985265
gene1275	gene1275	SACOL1295	gi 57650036 ref NC_002951.2 :1310116-1312495	q1	q2	OK	70.7214	85.505	0.273863	-0.35667	0.721339	0.986963
gene1276	gene1276	SACOL1296	gi 57650036 ref NC_002951.2 :1312499-1313213	q1	q2	OK	31.4036	38.0822	0.278188	-0.56676	0.57088	0.985265
gene1277	gene1277	SACOL1297	gi 57650036 ref NC_002951.2 :1313243-1316499	q1	q2	OK	22.8701	36.0131	0.655057	-0.57055	0.568303	0.985265
gene1278	gene1278	SACOL1298	gi 57650036 ref NC_002951.2 :1313243-1316499	q1	q2	OK	34.6431	40.4778	0.224563	-0.22517	0.821849	0.992727
gene1279	gene1279	SACOL1299	gi 57650036 ref NC_002951.2 :1313243-1316499	q1	q2	OK	61.7047	62.5384	0.0193613	-0.01716	0.986307	0.998143
gene128	gene128	SACOL0134	gi 57650036 ref NC_002951.2 :149516-150001	q1	q2	OK	4.02681	7.43629	0.884946	-1.11634	0.264278	0.875983
gene1280	gene1280	SACOL1300	gi 57650036 ref NC_002951.2 :1316603-1317431	q1	q2	OK	150.199	118.452	-0.342577	0.5931	0.553115	0.981439
gene1281	gene1281	SACOL1301	gi 57650036 ref NC_002951.2 :1317449-1317842	q1	q2	OK	132.763	80.4732	-0.722275	1.47887	0.139176	0.763035
gene1282	gene1282	pgsA	gi 57650036 ref NC_002951.2 :1317875-1318454	q1	q2	OK	203.39	155.83	-0.384273	0.70701	0.479561	0.960423
gene1283	gene1283	SACOL1303	gi 57650036 ref NC_002951.2 :1318680-1319832	q1	q2	OK	84.6848	96.7326	0.191899	-0.33178	0.740056	0.986963
gene1284	gene1284	recA	gi 57650036 ref NC_002951.2 :1319996-1321040	q1	q2	OK	425.488	387.848	-0.133628	0.13689	0.891118	0.996932
gene1285	gene1285	SACOL1305	gi 57650036 ref NC_002951.2 :1321393-1322953	q1	q2	OK	637.807	1152.34	0.853369	-0.78238	0.433989	0.940247
gene1286	gene1286	SACOL1306	gi 57650036 ref NC_002951.2 :1323249-1323465	q1	q2	OK	374.934	954.071	1.34746	-2.75854	0.005806	0.153462
gene1287	gene1287	SACOL1307	gi 57650036 ref NC_002951.2 :1323638-1324436	q1	q2	OK	193.398	107.463	-0.847739	1.41715	0.156439	0.797219
gene1288	gene1288	SACOL1308	gi 57650036 ref NC_002951.2 :1324575-1326336	q1	q2	OK	120.981	59.1571	-1.03216	1.46372	0.143269	0.776996
gene1289	gene1289	SACOL1309	gi 57650036 ref NC_002951.2 :1326336-1327203	q1	q2	OK	185.704	84.2592	-1.1401	1.89345	0.0582985	0.540443
gene129	gene129	SACOL0135	gi 57650036 ref NC_002951.2 :150450-153060	q1	q2	OK	34.2872	45.8214	0.418349	-0.69532	0.486854	0.964002
gene1290	gene1290	SACOL1310	gi 57650036 ref NC_002951.2 :1327296-1327590	q1	q2	OK	14.815	18.949	0.35507	-0.47444	0.63519	0.986963
gene1291	gene1291	miaB	gi 57650036 ref NC_002951.2 :1327723-1329268	q1	q2	OK	79.5659	56.8872	-0.484045	0.81675	0.414071	0.939652
gene1292	gene1292	SACOL1313	gi 57650036 ref NC_002951.2 :1329268-1329634	q1	q2	OK	162.727	110.339	-0.56051	1.15483	0.24816	0.869586

gene1293	gene1293	SACOL1314	gi 57650036 ref NC_002951.2 :1329660-1330152	q1	q2	OK	121.766	84.2234	-0.531812	1.09585	0.273144	0.879648
gene1294	gene1294	hexA	gi 57650036 ref NC_002951.2 :1330454-1333073	q1	q2	OK	50.6757	59.2772	0.226183	-0.32763	0.743195	0.986963
gene1295	gene1295	mutL	gi 57650036 ref NC_002951.2 :1333085-1335095	q1	q2	OK	35.2278	43.4969	0.304198	-0.5616	0.574387	0.985265
gene1296	gene1296	glpP	gi 57650036 ref NC_002951.2 :1335100-1335643	q1	q2	OK	59.379	52.1169	-0.1882	0.38586	0.6996	0.986963
gene1297	gene1297	glpF	gi 57650036 ref NC_002951.2 :1336107-1336926	q1	q2	OK	779.9	98.3048	-2.98796	3.6113	0.0003047	0.0268229
gene1298	gene1298	glpK	gi 57650036 ref NC_002951.2 :1337054-1338551	q1	q2	OK	426.75	70.4357	-2.59901	3.02393	0.0024952	0.0994497
gene1299	gene1299	glpD	gi 57650036 ref NC_002951.2 :1338708-1340382	q1	q2	OK	975.565	175.853	-2.47187	2.48132	0.0130897	0.265066
gene13	gene13	SACOL0014	gi 57650036 ref NC_002951.2 :18344-20755	q1	q2	OK	183.914	115.708	-0.668548	0.61286	0.539971	0.978583
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	q1	q2	OK	44.6394	326.32	2.8699	-4.57236	4.82E-06	0.0030274
gene1300	gene1300	SACOL1322	gi 57650036 ref NC_002951.2 :1340531-1341446	q1	q2	OK	40.4541	27.8106	-0.54065	1.11475	0.264958	0.875983
gene1301	gene1301	miaA	gi 57650036 ref NC_002951.2 :1341463-1342399	q1	q2	OK	114.873	65.6573	-0.807007	1.4945	0.135044	0.753545
gene1302	gene1302	SACOL1324	gi 57650036 ref NC_002951.2 :1342413-1342647	q1	q2	OK	214.044	85.0976	-1.33072	2.39863	0.0164565	0.299437
gene1303	gene1303	gpxA1	gi 57650036 ref NC_002951.2 :1342868-1343345	q1	q2	OK	343.289	167.146	-1.03831	1.84225	0.0654392	0.57234
gene1304	gene1304	SACOL1326	gi 57650036 ref NC_002951.2 :1343456-1344695	q1	q2	OK	61.1576	40.6895	-0.587875	1.15307	0.24888	0.869891
gene1305	gene1305	SACOL1327	gi 57650036 ref NC_002951.2 :1344713-1345952	q1	q2	OK	79.6345	48.8274	-0.705703	1.3124	0.189384	0.819847
gene1306	gene1306	glnR	gi 57650036 ref NC_002951.2 :1346194-1346563	q1	q2	OK	162.599	212.164	0.383861	-0.7904	0.429297	0.940178
gene1307	gene1307	femC	gi 57650036 ref NC_002951.2 :1346581-1347922	q1	q2	OK	181.213	242.277	0.418967	-0.47815	0.632541	0.986963
gene1308	gene1308	SACOL1331	gi 57650036 ref NC_002951.2 :1348414-1348612	q1	q2	OK	3.3928	31.0949	3.19613	-1.71286	0.086738	0.638501
gene1309	gene1309	SACOL1332	gi 57650036 ref NC_002951.2 :1349300-1349525	q1	q2	OK	4.02188	8.52032	1.08304	-0.70372	0.481609	0.961304
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	q1	q2	OK	33.9342	234.956	2.79158	-4.8264	1.39E-06	0.0011636
gene1310	gene1310	SACOL1333	gi 57650036 ref NC_002951.2 :1349818-1350025	q1	q2	OK	5.57116	16.5075	1.56708	-1.06208	0.288199	0.887342
gene1311	gene1311	SACOL1334	gi 57650036 ref NC_002951.2 :1350725-1350836	q1	q2	NOTEST	0	0	0	0	1	1
gene1312	gene1312	SACOL1335	gi 57650036 ref NC_002951.2 :1351263-1351449	q1	q2	OK	40.6658	28.6296	-0.506307	0.4772	0.63322	0.986963
gene1313	gene1313	SACOL1336	gi 57650036 ref NC_002951.2 :1351960-1352065	q1	q2	OK	546.116	0	-1.79769e+3	-1.79769e+3	0.201324	0.819847
gene1314	gene1314	SACOL1337	gi 57650036 ref NC_002951.2 :1352097-1352193	q1	q2	NOTEST	0	0	0	0	1	1
gene1315	gene1315	SACOL1338	gi 57650036 ref NC_002951.2 :1352193-1352445	q1	q2	OK	30.5516	16.7864	-0.863957	1.08865	0.27631	0.879877
gene1316	gene1316	SACOL1339	gi 57650036 ref NC_002951.2 :1352649-1353075	q1	q2	OK	18.0078	36.4133	1.01585	-1.78461	0.0743247	0.6119
gene1317	gene1317	SACOL1340	gi 57650036 ref NC_002951.2 :1353195-1353444	q1	q2	OK	18.711	56.3221	1.58982	-2.19098	0.0284536	0.39042
gene1318	gene1318	SACOL1341	gi 57650036 ref NC_002951.2 :1353573-1353675	q1	q2	NOTEST	0	0	0	0	1	1
gene1319	gene1319	SACOL1342	gi 57650036 ref NC_002951.2 :1353720-1353987	q1	q2	OK	10.6164	10.8637	0.0332321	-0.03538	0.971775	0.99793
gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	q1	q2	OK	34.1478	156.021	2.19187	-4.07498	4.60E-05	0.0084086
gene1320	gene1320	SACOL1344	gi 57650036 ref NC_002951.2 :1354323-1354458	q1	q2	OK	0	101.074	1.79769e+3	1.79769e+3	0.102747	0.686167
gene1321	gene1321	SACOL1345	gi 57650036 ref NC_002951.2 :1354548-1354839	q1	q2	OK	33.2032	32.8486	-0.015493	0.02462	0.980359	0.998143

gene1322	gene1322	SACOL1346	gi 57650036 ref NC_002951.2 :1354849-1355044	q1	q2	OK	43.7207	28.1222	-0.636603	0.65945	0.509606	0.971029
gene1323	gene1323	SACOL1347	gi 57650036 ref NC_002951.2 :1355093-1355435	q1	q2	OK	24.7545	27.3734	0.145085	-0.23741	0.812335	0.991128
gene1324	gene1324	SACOL1348	gi 57650036 ref NC_002951.2 :1355441-1355633	q1	q2	OK	11.7471	18.3267	0.641644	-0.46572	0.641413	0.986963
gene1325	gene1325	SACOL1349	gi 57650036 ref NC_002951.2 :1356181-1357207	q1	q2	OK	63.9499	81.5461	0.350674	-0.67275	0.501109	0.965124
gene1326	gene1326	SACOL1350	gi 57650036 ref NC_002951.2 :1357476-1357674	q1	q2	OK	98.3913	77.7371	-0.339926	0.48595	0.627001	0.986963
gene1327	gene1327	cls1	gi 57650036 ref NC_002951.2 :1357731-1359213	q1	q2	OK	125.825	69.0096	-0.866548	1.28527	0.198699	0.819847
gene1328	gene1328	SACOL1352	gi 57650036 ref NC_002951.2 :1359387-1360996	q1	q2	OK	21.2505	27.8583	0.390609	-0.53207	0.594677	0.985953
gene1329	gene1329	SACOL1353	gi 57650036 ref NC_002951.2 :1359387-1360996	q1	q2	OK	31.2207	49.8347	0.674648	-1.02069	0.307403	0.892668
gene133	gene133	cap5D	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	51.2022	205.79	2.0069	-1.86117	0.0627198	0.55727
gene1330	gene1330	SACOL1354	gi 57650036 ref NC_002951.2 :1360999-1362690	q1	q2	OK	45.7219	47.7035	0.0612087	-0.08494	0.93231	0.996932
gene1331	gene1331	SACOL1355	gi 57650036 ref NC_002951.2 :1360999-1362690	q1	q2	OK	78.8798	69.5335	-0.181946	0.21716	0.828088	0.993943
gene1332	gene1332	SACOL1356	gi 57650036 ref NC_002951.2 :1362962-1363070	q1	q2	NOTEST	0	0	0	0	1	1
gene1333	gene1333	SACOL1357	gi 57650036 ref NC_002951.2 :1363129-1363663	q1	q2	OK	35.1755	40.2772	0.195392	-0.38627	0.699295	0.986963
gene1334	gene1334	SACOL1358	gi 57650036 ref NC_002951.2 :1363805-1364660	q1	q2	OK	158.276	126.284	-0.325768	0.54339	0.586858	0.985265
gene1335	gene1335	SACOL1359	gi 57650036 ref NC_002951.2 :1364975-1365566	q1	q2	OK	123.331	92.629	-0.412995	0.83375	0.404421	0.939607
gene1336	gene1336	SACOL1360	gi 57650036 ref NC_002951.2 :1365619-1367002	q1	q2	OK	44.7595	68.5313	0.61457	-1.14642	0.251622	0.87389
gene1337	gene1337	SACOL1361	gi 57650036 ref NC_002951.2 :1367007-1367115	q1	q2	NOTEST	0	0	0	0	1	1
gene1338	gene1338	hom	gi 57650036 ref NC_002951.2 :1367192-1368473	q1	q2	OK	389.369	758.589	0.962182	-0.90674	0.364543	0.926565
gene1339	gene1339	thrC	gi 57650036 ref NC_002951.2 :1368478-1369540	q1	q2	OK	240.435	470.449	0.968391	-1.0429	0.296994	0.892668
gene134	gene134	cap5E	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	56.4667	181.422	1.68388	-1.08956	0.275908	0.879877
gene1340	gene1340	thrB	gi 57650036 ref NC_002951.2 :1369541-1370456	q1	q2	OK	101.368	246.323	1.28095	-1.8943	0.0581845	0.540443
gene1341	gene1341	SACOL1365	gi 57650036 ref NC_002951.2 :1370513-1371317	q1	q2	OK	129.656	283.729	1.12983	-1.66558	0.0957979	0.664499
gene1342	gene1342	SACOL1366	gi 57650036 ref NC_002951.2 :1371609-1371924	q1	q2	OK	147.465	58.88	-1.32453	2.56458	0.0103301	0.237971
gene1343	gene1343	SACOL1367	gi 57650036 ref NC_002951.2 :1372141-1373596	q1	q2	OK	77.4039	103.112	0.41374	-0.64086	0.521616	0.972546
gene1344	gene1344	kataA	gi 57650036 ref NC_002951.2 :1373895-1375317	q1	q2	OK	965.771	1313.3	0.443445	-0.40761	0.683558	0.986963
gene1345	gene1345	rpmG	gi 57650036 ref NC_002951.2 :1375407-1375557	q1	q2	OK	99.2507	341.63	1.78329	-2.00069	0.0454255	0.481552
gene1346	gene1346	rpsN	gi 57650036 ref NC_002951.2 :1376010-1376280	q1	q2	OK	28.6225	39.0213	0.447114	-0.67878	0.497279	0.964002
gene1347	gene1347	guaC	gi 57650036 ref NC_002951.2 :1376436-1377515	q1	q2	OK	47.1645	41.9035	-0.17063	0.35166	0.725093	0.986963
gene1348	gene1348	SACOL1372	gi 57650036 ref NC_002951.2 :1376436-1377515	q1	q2	NOTEST	0	0	0	0	1	1
gene1349	gene1349	SACOL1373	gi 57650036 ref NC_002951.2 :1377588-1378452	q1	q2	OK	62.3904	42.8974	-0.540433	1.10912	0.267377	0.875983
gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	q1	q2	OK	37.5979	123.932	1.72083	-3.01893	0.0025367	0.099524
gene1350	gene1350	lexA	gi 57650036 ref NC_002951.2 :1378831-1379455	q1	q2	OK	688.573	504.928	-0.447532	0.49787	0.618576	0.986963
gene1351	gene1351	SACOL1375	gi 57650036 ref NC_002951.2 :1379597-1379831	q1	q2	OK	80.7051	51.0585	-0.660507	1.04154	0.297624	0.892668

gene1352	gene1352	SACOL1376	gi 57650036 ref NC_002951.2 :1379966-1380206	q1	q2	OK	79.0994	53.0829	-0.575419	0.92993	0.352407	0.914147
gene1353	gene1353	tkt	gi 57650036 ref NC_002951.2 :1380326-1382315	q1	q2	OK	339.447	300.257	-0.176988	0.166	0.868156	0.996923
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	q1	q2	OK	215.687	71.9024	-1.58483	2.85756	0.0042692	0.131239
gene1355	gene1355	SACOL1379	gi 57650036 ref NC_002951.2 :1382592-1382920	q1	q2	NOTEST	0	0	0	0	1	1
gene1356	gene1356	SACOL1380	gi 57650036 ref NC_002951.2 :1383013-1383481	q1	q2	OK	25.1488	29.1999	0.215474	-0.39604	0.692079	0.986963
gene1357	gene1357	sbcD	gi 57650036 ref NC_002951.2 :1383604-1384726	q1	q2	OK	45.4955	65.7502	0.531271	-1.04892	0.294213	0.891156
gene1358	gene1358	sbcC	gi 57650036 ref NC_002951.2 :1384729-1387759	q1	q2	OK	30.7888	33.1171	0.105174	-0.17985	0.857272	0.996923
gene1359	gene1359	mscL	gi 57650036 ref NC_002951.2 :1387829-1388192	q1	q2	OK	186.722	245.605	0.395445	-0.80816	0.419	0.939652
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	q1	q2	OK	32.6539	93.8904	1.52372	-2.8614	0.0042178	0.131239
gene1360	gene1360	opuD1	gi 57650036 ref NC_002951.2 :1388395-1390042	q1	q2	OK	91.0476	83.1803	-0.13038	0.19281	0.84711	0.996923
gene1361	gene1361	acnA	gi 57650036 ref NC_002951.2 :1390933-1393639	q1	q2	OK	595.591	571.233	-0.060242	0.05548	0.955759	0.996932
gene1362	gene1362	SACOL1386	gi 57650036 ref NC_002951.2 :1393818-1394286	q1	q2	OK	119.166	104.285	-0.192444	0.39791	0.690697	0.986963
gene1363	gene1363	SACOL1387	gi 57650036 ref NC_002951.2 :1394492-1394789	q1	q2	OK	133.831	235.343	0.814356	-1.66803	0.09531	0.664499
gene1364	gene1364	SACOL1388	gi 57650036 ref NC_002951.2 :1395164-1395773	q1	q2	OK	166.647	123.771	-0.429117	0.81822	0.413231	0.939652
gene1365	gene1365	parE	gi 57650036 ref NC_002951.2 :1395972-1400372	q1	q2	OK	110.738	88.0787	-0.330285	0.24389	0.807313	0.9909
gene1366	gene1366	parC	gi 57650036 ref NC_002951.2 :1395972-1400372	q1	q2	OK	103.804	52.1184	-0.993995	0.70898	0.478335	0.960423
gene1367	gene1367	SACOL1392	gi 57650036 ref NC_002951.2 :1400621-1402097	q1	q2	OK	145.597	62.9899	-1.20879	1.74901	0.0802897	0.628579
gene1368	gene1368	SACOL1393	gi 57650036 ref NC_002951.2 :1402581-1404776	q1	q2	OK	53.3291	45.8399	-0.218317	0.09148	0.927114	0.996932
gene1369	gene1369	SACOL1394	gi 57650036 ref NC_002951.2 :1402581-1404776	q1	q2	OK	52.3275	49.3357	-0.084937	0.00489	0.996099	0.998434
gene137	gene137	cap5H	gi 57650036 ref NC_002951.2 :160655-161282	q1	q2	NOTEST	0	0	0	0	1	1
gene1370	gene1370	SACOL1395	gi 57650036 ref NC_002951.2 :1402581-1404776	q1	q2	OK	178.539	227.434	0.349213	-0.36945	0.711796	0.986963
gene1371	gene1371	fmtC	gi 57650036 ref NC_002951.2 :1405256-1407779	q1	q2	OK	126.307	180.944	0.51861	-0.53177	0.594888	0.985953
gene1372	gene1372	msrA	gi 57650036 ref NC_002951.2 :1407981-1408491	q1	q2	OK	153.326	90.9047	-0.754172	1.52833	0.12643	0.732386
gene1373	gene1373	SACOL1398	gi 57650036 ref NC_002951.2 :1408627-1409611	q1	q2	OK	72.6375	41.9198	-0.793082	1.58617	0.112701	0.720082
gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	q1	q2	OK	135.553	35.787	-1.92134	2.15909	0.030843	0.418631
gene1375	gene1375	SACOL1400	gi 57650036 ref NC_002951.2 :1410031-1411294	q1	q2	OK	40.1589	62.9224	0.647855	-1.26301	0.206585	0.823389
gene1376	gene1376	tyrA	gi 57650036 ref NC_002951.2 :1411430-1412522	q1	q2	OK	64.5118	84.7901	0.394333	-0.73824	0.460371	0.950591
gene1377	gene1377	SACOL1402	gi 57650036 ref NC_002951.2 :1412686-1413718	q1	q2	OK	76.7689	80.3472	0.0657261	-0.12381	0.901462	0.996932
gene1378	gene1378	trpE	gi 57650036 ref NC_002951.2 :1414209-1416179	q1	q2	OK	18.117	27.3288	0.593084	-1.0072	0.313838	0.892668
gene1379	gene1379	trpG	gi 57650036 ref NC_002951.2 :1414209-1416179	q1	q2	OK	27.8981	34.4102	0.302672	-0.34091	0.733172	0.986963
gene138	gene138	cap5I	gi 57650036 ref NC_002951.2 :161286-162396	q1	q2	NOTEST	0	0	0	0	1	1
gene1380	gene1380	trpD	gi 57650036 ref NC_002951.2 :1416184-1417183	q1	q2	OK	46.2494	59.9423	0.374139	-0.75849	0.448158	0.948742
gene1381	gene1381	trpC	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	26.9314	38.1111	0.500921	-0.41141	0.68077	0.986963

gene1382	gene1382	trpF	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	25.0121	32.3819	0.372558	-0.25082	0.80195	0.989625
gene1383	gene1383	trpB	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	34.486	42.1479	0.28945	-0.33874	0.734805	0.986963
gene1384	gene1384	trpA	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	25.606	27.838	0.120571	-0.08583	0.931602	0.996932
gene1385	gene1385	femA	gi 57650036 ref NC_002951.2 :1420809-1422111	q1	q2	OK	170.718	241.148	0.498308	-0.5816	0.560839	0.984802
gene1386	gene1386	SACOL1411	gi 57650036 ref NC_002951.2 :1422129-1423389	q1	q2	OK	252.107	262.702	0.0593905	-0.06492	0.948238	0.996932
gene1387	gene1387	SACOL1412	gi 57650036 ref NC_002951.2 :1424071-1424839	q1	q2	OK	42.2779	53.0961	0.328702	-0.6808	0.495999	0.964002
gene1388	gene1388	SACOL1413	gi 57650036 ref NC_002951.2 :1424886-1425360	q1	q2	OK	126.302	118.933	-0.086729	0.17855	0.858288	0.996923
gene1389	gene1389	SACOL1414	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	41.2235	45.0738	0.128824	-0.10282	0.918106	0.996932
gene139	gene139	cap5J	gi 57650036 ref NC_002951.2 :162409-164774	q1	q2	NOTEST	0	0	0	0	1	1
gene1390	gene1390	SACOL1415	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	27.1411	39.3621	0.536329	-0.40305	0.686914	0.986963
gene1391	gene1391	SACOL1416	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	35.9822	56.3001	0.645852	-0.59733	0.55029	0.979019
gene1392	gene1392	SACOL1417	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	22.8987	37.4885	0.711185	-0.59108	0.554469	0.981439
gene1393	gene1393	SACOL1418	gi 57650036 ref NC_002951.2 :1429050-1429395	q1	q2	OK	55.8982	56.995	0.0280347	-0.05304	0.957703	0.996932
gene1394	gene1394	SACOL1419	gi 57650036 ref NC_002951.2 :1429599-1431414	q1	q2	OK	65.2482	122.259	0.905932	-1.2473	0.212286	0.831197
gene1395	gene1395	SACOL1420	gi 57650036 ref NC_002951.2 :1431553-1432195	q1	q2	OK	20.7827	22.1697	0.093207	-0.17753	0.859089	0.996923
gene1396	gene1396	SACOL1421	gi 57650036 ref NC_002951.2 :1432201-1433053	q1	q2	OK	34.3676	41.8882	0.285495	-0.59085	0.554624	0.981439
gene1397	gene1397	SACOL1422	gi 57650036 ref NC_002951.2 :1433099-1434017	q1	q2	OK	46.467	57.013	0.295083	-0.60533	0.54496	0.979019
gene1398	gene1398	SACOL1423	gi 57650036 ref NC_002951.2 :1434018-1434945	q1	q2	OK	32.1864	35.3577	0.135577	-0.28068	0.778955	0.986963
gene1399	gene1399	SACOL1424	gi 57650036 ref NC_002951.2 :1435135-1436119	q1	q2	OK	74.34	69.4813	-0.097513	0.1897	0.849546	0.996923
gene14	gene14	rplI	gi 57650036 ref NC_002951.2 :18344-20755	q1	q2	OK	375.373	202.626	-0.889507	0.4382	0.661241	0.986963
gene140	gene140	cap5K	gi 57650036 ref NC_002951.2 :162409-164774	q1	q2	NOTEST	0	0	0	0	1	1
gene1400	gene1400	SACOL1425	gi 57650036 ref NC_002951.2 :1436658-1436955	q1	q2	OK	20.798	21.9192	0.0757498	-0.10928	0.912984	0.996932
gene1401	gene1401	SACOL1426	gi 57650036 ref NC_002951.2 :1437090-1437993	q1	q2	OK	231.414	147.612	-0.648665	0.93019	0.352274	0.914147
gene1402	gene1402	SACOL1427	gi 57650036 ref NC_002951.2 :1438139-1439741	q1	q2	OK	101.975	43.7008	-1.22248	1.95073	0.0510893	0.51709
gene1403	gene1403	lysC	gi 57650036 ref NC_002951.2 :1440600-1441806	q1	q2	OK	42.1438	42.777	0.021516	-0.04368	0.965162	0.996932
gene1404	gene1404	asd	gi 57650036 ref NC_002951.2 :1441869-1442859	q1	q2	OK	105.343	98.4511	-0.097617	0.17278	0.862825	0.996923
gene1405	gene1405	dapA	gi 57650036 ref NC_002951.2 :1442860-1444467	q1	q2	OK	77.5148	109.313	0.495925	-0.62047	0.53495	0.975497
gene1406	gene1406	dapB	gi 57650036 ref NC_002951.2 :1442860-1444467	q1	q2	OK	69.0921	82.2385	0.251292	-0.24807	0.80408	0.989625
gene1407	gene1407	dapD	gi 57650036 ref NC_002951.2 :1444493-1445213	q1	q2	OK	87.098	126.508	0.538514	-1.04474	0.296144	0.892668
gene1408	gene1408	SACOL1433	gi 57650036 ref NC_002951.2 :1445355-1446507	q1	q2	OK	36.2263	57.1664	0.65813	-1.32346	0.185681	0.819812
gene1409	gene1409	SACOL1434	gi 57650036 ref NC_002951.2 :1446511-1448852	q1	q2	OK	28.7475	50.07	0.800511	-0.66691	0.504831	0.96692
gene141	gene141	cap5L	gi 57650036 ref NC_002951.2 :164774-165980	q1	q2	OK	37.3497	58.5438	0.648421	-1.29053	0.196866	0.819847
gene1410	gene1410	lysA	gi 57650036 ref NC_002951.2 :1446511-1448852	q1	q2	OK	75.4608	73.8573	-0.030988	0.03961	0.9684	0.996932

gene1411	gene1411	SACOL1436	gi 57650036 ref NC_002951.2 :1449091-1449493	q1	q2	OK	11.9187	27.7343	1.21844	-1.94242	0.0520867	0.521074
gene1412	gene1412	SACOL1437	gi 57650036 ref NC_002951.2 :1449689-1449890	q1	q2	OK	5730.5	2164.15	-1.40486	2.03323	0.0420291	0.472836
gene1413	gene1413	SACOL1438	gi 57650036 ref NC_002951.2 :1450060-1450369	q1	q2	OK	195.125	196.472	0.009924	-0.02056	0.9836	0.998143
gene1414	gene1414	SACOL1439	gi 57650036 ref NC_002951.2 :1450531-1450801	q1	q2	OK	1067.05	1106.1	0.0518654	-0.08455	0.932616	0.996932
gene1415	gene1415	SACOL1440	gi 57650036 ref NC_002951.2 :1450819-1451449	q1	q2	OK	315.594	345.605	0.131052	-0.18068	0.856617	0.996923
gene1416	gene1416	SACOL1441	gi 57650036 ref NC_002951.2 :1451480-1452617	q1	q2	OK	275.311	274.804	-0.002662	0.00296	0.997639	0.998434
gene1417	gene1417	SACOL1442	gi 57650036 ref NC_002951.2 :1452884-1453277	q1	q2	OK	16.5308	28.9201	0.806911	-1.33994	0.180265	0.819812
gene1418	gene1418	brnQ3	gi 57650036 ref NC_002951.2 :1453629-1454973	q1	q2	OK	24.8938	32.5694	0.387729	-0.80034	0.423515	0.93986
gene1419	gene1419	SACOL1444	gi 57650036 ref NC_002951.2 :1455197-1457084	q1	q2	OK	44.5466	37.4795	-0.249215	0.46378	0.642807	0.986963
gene142	gene142	cap5M	gi 57650036 ref NC_002951.2 :165990-167435	q1	q2	OK	41.3292	69.7659	0.75536	-1.00783	0.313536	0.892668
gene1420	gene1420	SACOL1445	gi 57650036 ref NC_002951.2 :1457097-1457889	q1	q2	OK	82.4108	53.6093	-0.62035	1.25789	0.20843	0.828112
gene1421	gene1421	SACOL1446	gi 57650036 ref NC_002951.2 :1458069-1458273	q1	q2	OK	83.0529	93.1817	0.166015	-0.24883	0.80349	0.989625
gene1422	gene1422	SACOL1447	gi 57650036 ref NC_002951.2 :1458301-1459111	q1	q2	OK	303.606	167.176	-0.860836	1.19696	0.231321	0.863102
gene1423	gene1423	sucB	gi 57650036 ref NC_002951.2 :1459690-1460959	q1	q2	OK	627.685	337.344	-0.895819	0.86363	0.387794	0.939006
gene1424	gene1424	sucA	gi 57650036 ref NC_002951.2 :1460972-1463771	q1	q2	OK	485.609	333.57	-0.541806	0.49287	0.622107	0.986963
gene1425	gene1425	arlS	gi 57650036 ref NC_002951.2 :1464054-1466066	q1	q2	OK	71.5887	73.2643	0.0333781	-0.02931	0.976614	0.998143
gene1426	gene1426	arlR	gi 57650036 ref NC_002951.2 :1464054-1466066	q1	q2	OK	204.444	187.293	-0.126405	0.11695	0.906897	0.996932
gene1427	gene1427	SACOL1452	gi 57650036 ref NC_002951.2 :1466853-1467468	q1	q2	OK	82.9798	53.2263	-0.640619	1.32034	0.186723	0.819812
gene1428	gene1428	murG	gi 57650036 ref NC_002951.2 :1467484-1468555	q1	q2	OK	82.9343	62.8255	-0.400618	0.75808	0.448402	0.948742
gene1429	gene1429	SACOL1454	gi 57650036 ref NC_002951.2 :1468566-1469077	q1	q2	OK	43.2926	30.6121	-0.50002	0.97504	0.329541	0.900771
gene143	gene143	cap5N	gi 57650036 ref NC_002951.2 :165990-167435	q1	q2	OK	27.0176	47.0628	0.800689	-1.18951	0.234238	0.863102
gene1430	gene1430	SACOL1455	gi 57650036 ref NC_002951.2 :1469476-1470967	q1	q2	OK	60.6913	68.3327	0.171086	-0.30044	0.763841	0.986963
gene1431	gene1431	SACOL1456	gi 57650036 ref NC_002951.2 :1471158-1471880	q1	q2	OK	196.412	135.162	-0.539192	0.26047	0.794505	0.987561
gene1432	gene1432	SACOL1457	gi 57650036 ref NC_002951.2 :1471158-1471880	q1	q2	OK	324.726	221.016	-0.555073	0.87967	0.37904	0.932987
gene1433	gene1433	SACOL1459	gi 57650036 ref NC_002951.2 :1471891-1473771	q1	q2	OK	329.193	226.929	-0.536694	0.5119	0.608719	0.986963
gene1434	gene1434	SACOL1460	gi 57650036 ref NC_002951.2 :1471891-1473771	q1	q2	OK	85.4744	94.7619	0.148814	-0.06887	0.945095	0.996932
gene1435	gene1435	folA	gi 57650036 ref NC_002951.2 :1473785-1474265	q1	q2	OK	239.916	226.395	-0.083689	0.15543	0.876483	0.996932
gene1436	gene1436	thyA	gi 57650036 ref NC_002951.2 :1474464-1475421	q1	q2	OK	93.0286	101.793	0.129891	-0.23652	0.813032	0.991128
gene1437	gene1437	SACOL1464	gi 57650036 ref NC_002951.2 :1475844-1476282	q1	q2	OK	122.146	103.589	-0.237741	0.49228	0.622519	0.986963
gene1438	gene1438	SACOL1465	gi 57650036 ref NC_002951.2 :1476297-1477422	q1	q2	OK	169.196	164.764	-0.038289	0.05154	0.958894	0.996932
gene1439	gene1439	SACOL1466	gi 57650036 ref NC_002951.2 :1477459-1477711	q1	q2	OK	90.266	83.9318	-0.104965	0.18727	0.851449	0.996923
gene144	gene144	cap5O	gi 57650036 ref NC_002951.2 :167488-168751	q1	q2	OK	46.6055	70.0226	0.587322	-1.1171	0.263951	0.875983
gene1440	gene1440	SACOL1467	gi 57650036 ref NC_002951.2 :1477722-1477917	q1	q2	OK	273.254	191.231	-0.514925	0.90023	0.367998	0.928011

gene1441	gene1441	SACOL1468	gi 57650036 ref NC_002951.2 :1478161-1478866	q1	q2	OK	41.8556	37.9788	-0.140229	0.28813	0.773248	0.986963
gene1442	gene1442	SACOL1469	gi 57650036 ref NC_002951.2 :1478930-1479062	q1	q2	OK	100.534	362.289	1.84946	-1.50214	0.133062	0.751714
gene1443	gene1443	SACOL1471	gi 57650036 ref NC_002951.2 :1479406-1479808	q1	q2	OK	32.2799	33.7635	0.0648259	-0.11801	0.906057	0.996932
gene1444	gene1444	ebh	gi 57650036 ref NC_002951.2 :1479866-1511363	q1	q2	OK	26.6432	32.6425	0.292983	-0.26577	0.790417	0.986986
gene1445	gene1445	SACOL1475	gi 57650036 ref NC_002951.2 :1511760-1513152	q1	q2	OK	49.8183	62.8814	0.335956	-0.62894	0.529386	0.97289
gene1446	gene1446	SACOL1476	gi 57650036 ref NC_002951.2 :1513308-1514631	q1	q2	OK	66.6233	101.711	0.610377	-1.01614	0.309561	0.892668
gene1447	gene1447	ilvA1	gi 57650036 ref NC_002951.2 :1514661-1515702	q1	q2	OK	31.027	51.1542	0.72133	-1.47921	0.139085	0.763035
gene1448	gene1448	ald1	gi 57650036 ref NC_002951.2 :1515796-1516915	q1	q2	OK	30.4261	44.633	0.552801	-1.13658	0.255713	0.875983
gene1449	gene1449	SACOL1479	gi 57650036 ref NC_002951.2 :1517389-1518268	q1	q2	OK	137.452	122.691	-0.163898	0.27977	0.779651	0.986963
gene145	gene145	cap5P	gi 57650036 ref NC_002951.2 :168797-169973	q1	q2	OK	44.7774	52.3236	0.22469	-0.4502	0.652568	0.986963
gene1450	gene1450	SACOL1480	gi 57650036 ref NC_002951.2 :1518287-1521728	q1	q2	OK	69.2105	77.1187	0.156091	-0.17957	0.857489	0.996923
gene1451	gene1451	SACOL1481	gi 57650036 ref NC_002951.2 :1522031-1523372	q1	q2	OK	18.9401	26.4883	0.483912	-1.00001	0.317308	0.892668
gene1452	gene1452	SACOL1482	gi 57650036 ref NC_002951.2 :1523577-1523910	q1	q2	OK	51.5221	45.7069	-0.172777	0.31538	0.752473	0.986963
gene1453	gene1453	SACOL1483	gi 57650036 ref NC_002951.2 :1523993-1525139	q1	q2	OK	31.8335	38.1652	0.261712	-0.5405	0.588856	0.985265
gene1454	gene1454	SACOL1484	gi 57650036 ref NC_002951.2 :1525789-1526134	q1	q2	OK	381.423	475.502	0.318058	-0.58775	0.556698	0.981874
gene1455	gene1455	SACOL1485	gi 57650036 ref NC_002951.2 :1526147-1527054	q1	q2	OK	225.173	227.16	0.012672	-0.01281	0.989779	0.998143
gene1456	gene1456	SACOL1486	gi 57650036 ref NC_002951.2 :1526147-1527054	q1	q2	OK	434.974	350.233	-0.312613	0.2798	0.779633	0.986963
gene1457	gene1457	SACOL1488	gi 57650036 ref NC_002951.2 :1527487-1530400	q1	q2	OK	48.8389	0	-1.79769e+	-1.79769e+	0.49084	0.964002
gene1458	gene1458	recU	gi 57650036 ref NC_002951.2 :1527487-1530400	q1	q2	OK	237.868	108.042	-1.13856	0.41051	0.681434	0.986963
gene1459	gene1459	pbp2	gi 57650036 ref NC_002951.2 :1527487-1530400	q1	q2	OK	323.804	152.252	-1.08866	0.97327	0.330418	0.900771
gene146	gene146	SACOL0152	gi 57650036 ref NC_002951.2 :170037-170364	q1	q2	OK	73.9922	15.5613	-2.24941	3.59513	0.0003242	0.0271377
gene1460	gene1460	SACOL1491	gi 57650036 ref NC_002951.2 :1530965-1531307	q1	q2	OK	91.6585	58.0648	-0.658604	1.28038	0.200411	0.819847
gene1461	gene1461	nth	gi 57650036 ref NC_002951.2 :1531311-1532647	q1	q2	OK	153.804	70.0964	-1.13368	0.92387	0.355553	0.914747
gene1462	gene1462	SACOL1493	gi 57650036 ref NC_002951.2 :1531311-1532647	q1	q2	OK	250.934	138.194	-0.860613	0.9527	0.340744	0.905587
gene1463	gene1463	asnC	gi 57650036 ref NC_002951.2 :1532974-1534267	q1	q2	OK	133.924	66.9396	-1.00048	1.5577	0.119304	0.725355
gene1464	gene1464	SACOL1495	gi 57650036 ref NC_002951.2 :1534588-1537282	q1	q2	OK	50.8185	43.4461	-0.226126	0.34603	0.729324	0.986963
gene1465	gene1465	birA	gi 57650036 ref NC_002951.2 :1537305-1539466	q1	q2	OK	60.9082	80.758	0.40697	-0.4437	0.657261	0.986963
gene1466	gene1466	papS	gi 57650036 ref NC_002951.2 :1537305-1539466	q1	q2	OK	67.76	41.3474	-0.712635	0.77375	0.439079	0.944754
gene1467	gene1467	SACOL1498	gi 57650036 ref NC_002951.2 :1539470-1540625	q1	q2	OK	89.7038	62.4306	-0.522916	0.95247	0.340861	0.905587
gene1468	gene1468	SACOL1499	gi 57650036 ref NC_002951.2 :1540853-1541171	q1	q2	OK	169.355	87.8363	-0.947164	1.90071	0.05734	0.540443
gene1469	gene1469	SACOL1500	gi 57650036 ref NC_002951.2 :1541507-1542215	q1	q2	OK	1585.73	2170.55	0.452912	-0.41112	0.680984	0.986963
gene147	gene147	SACOL0153	gi 57650036 ref NC_002951.2 :170370-170754	q1	q2	OK	55.9765	18.3896	-1.60593	2.78871	0.0052919	0.144433
gene1470	gene1470	SACOL1501	gi 57650036 ref NC_002951.2 :1542259-1543412	q1	q2	OK	38.9204	41.4369	0.0903882	-0.13295	0.894237	0.996932

gene1471	gene1471	SACOL1502	gi 57650036 ref NC_002951.2 :1542259-1543412	q1	q2	OK	45.7521	34.6315	-0.401752	0.57974	0.562088	0.98493
gene1472	gene1472	SACOL1503	gi 57650036 ref NC_002951.2 :1543425-1544670	q1	q2	OK	56.5185	39.0903	-0.531913	1.05412	0.291829	0.891156
gene1473	gene1473	aroA	gi 57650036 ref NC_002951.2 :1544676-1545975	q1	q2	OK	72.7451	71.2001	-0.03097	0.05532	0.955884	0.996932
gene1474	gene1474	aroB	gi 57650036 ref NC_002951.2 :1545984-1547049	q1	q2	OK	42.0675	65.0514	0.628874	-1.25837	0.208258	0.828112
gene1475	gene1475	aroC	gi 57650036 ref NC_002951.2 :1547074-1548241	q1	q2	OK	52.364	56.4296	0.107877	-0.2128	0.831485	0.994686
gene1476	gene1476	SACOL1507	gi 57650036 ref NC_002951.2 :1548626-1548827	q1	q2	OK	0	14.3639	1.79769e+3	1.79769e+0	0.0633551	0.55727
gene1477	gene1477	SACOL1508	gi 57650036 ref NC_002951.2 :1548855-1548981	q1	q2	NOTEST	0	0	0	0	1	1
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	q1	q2	OK	139.158	73.7098	-0.916795	1.8782	0.060354	0.54909
gene1479	gene1479	SACOL1510	gi 57650036 ref NC_002951.2 :1549576-1550536	q1	q2	OK	102.031	117.563	0.204425	-0.3571	0.721021	0.986963
gene148	gene148	aldA1	gi 57650036 ref NC_002951.2 :171180-172668	q1	q2	OK	1349.29	2384.58	0.821534	-0.8035	0.421686	0.939652
gene1480	gene1480	ubiE	gi 57650036 ref NC_002951.2 :1550537-1551263	q1	q2	OK	195.987	168.924	-0.214383	0.35244	0.72451	0.986963
gene1481	gene1481	SACOL1512	gi 57650036 ref NC_002951.2 :1551265-1551838	q1	q2	OK	64.1281	93.5123	0.544199	-1.12406	0.260989	0.875983
gene1482	gene1482	hup	gi 57650036 ref NC_002951.2 :1552268-1552541	q1	q2	OK	2748.07	2485.65	-0.1448	0.16306	0.870475	0.996923
gene1483	gene1483	gpsA	gi 57650036 ref NC_002951.2 :1552711-1553710	q1	q2	OK	160.759	90.2375	-0.833097	1.34282	0.17933	0.819812
gene1484	gene1484	engA	gi 57650036 ref NC_002951.2 :1553726-1555037	q1	q2	OK	163.905	107.012	-0.615083	0.84267	0.399416	0.939607
gene1485	gene1485	rpsA	gi 57650036 ref NC_002951.2 :1555258-1556434	q1	q2	OK	576.71	420.453	-0.455903	0.43812	0.661299	0.986963
gene1486	gene1486	cmk	gi 57650036 ref NC_002951.2 :1557145-1557805	q1	q2	OK	78.6684	58.4598	-0.428338	0.88355	0.376937	0.932987
gene1487	gene1487	ansA	gi 57650036 ref NC_002951.2 :1557881-1558850	q1	q2	OK	35.8437	33.301	-0.106153	0.22003	0.82585	0.992769
gene1488	gene1488	SACOL1520	gi 57650036 ref NC_002951.2 :1558964-1559951	q1	q2	OK	109.97	92.8991	-0.243375	0.4314	0.666178	0.986963
gene1489	gene1489	SACOL1521	gi 57650036 ref NC_002951.2 :1560111-1560228	q1	q2	OK	0	386.917	1.79769e+3	1.79769e+0	0.102747	0.686167
gene149	gene149	SACOL0155	gi 57650036 ref NC_002951.2 :173313-174273	q1	q2	OK	61.2478	109.226	0.83459	-1.55936	0.118912	0.725355
gene1490	gene1490	SACOL1522	gi 57650036 ref NC_002951.2 :1560352-1561813	q1	q2	OK	615.192	700.502	0.187352	-0.1703	0.864777	0.996923
gene1491	gene1491	recQ2	gi 57650036 ref NC_002951.2 :1561965-1564288	q1	q2	OK	79.7165	99.6304	0.321707	-0.36076	0.718276	0.986963
gene1492	gene1492	SACOL1524	gi 57650036 ref NC_002951.2 :1561965-1564288	q1	q2	OK	54.2041	72.5266	0.420109	-0.31811	0.750402	0.986963
gene1493	gene1493	fer	gi 57650036 ref NC_002951.2 :1564395-1564644	q1	q2	OK	430.352	163.14	-1.39941	2.79206	0.0052374	0.144433
gene1494	gene1494	SACOL1526	gi 57650036 ref NC_002951.2 :1564749-1565295	q1	q2	OK	264.157	105.921	-1.31841	2.39914	0.0164335	0.299437
gene1495	gene1495	SACOL1528	gi 57650036 ref NC_002951.2 :1565891-1566806	q1	q2	OK	33.1693	39.0071	0.23389	-0.48448	0.628049	0.986963
gene1496	gene1496	SACOL1529	gi 57650036 ref NC_002951.2 :1566820-1567898	q1	q2	OK	16.7135	45.3957	1.44154	-0.62459	0.53224	0.97289
gene1497	gene1497	SACOL1530	gi 57650036 ref NC_002951.2 :1566820-1567898	q1	q2	OK	24.2659	36.4655	0.587605	-1.17749	0.238999	0.863492
gene1498	gene1498	SACOL1531	gi 57650036 ref NC_002951.2 :1568015-1568933	q1	q2	OK	24.3913	37.0495	0.603083	-1.23878	0.215426	0.836273
gene1499	gene1499	SACOL1532	gi 57650036 ref NC_002951.2 :1569023-1572048	q1	q2	OK	35.6551	57.9005	0.699467	-0.85835	0.3907	0.939607
gene15	gene15	dnaB	gi 57650036 ref NC_002951.2 :20786-22187	q1	q2	OK	175.389	88.5777	-0.985545	1.33073	0.183278	0.819812
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	q1	q2	OK	41.5265	208.549	2.32829	-3.37528	0.0007374	0.0420824

gene1500	gene1500	SACOL1533	gi 57650036 ref NC_002951.2 :1569023-1572048	q1	q2	OK	40.9076	71.7695	0.811003	-0.64446	0.519278	0.971416
gene1501	gene1501	srrB	gi 57650036 ref NC_002951.2 :1572352-1574810	q1	q2	OK	76.3169	46.5184	-0.714201	0.53941	0.589605	0.985265
gene1502	gene1502	srrA	gi 57650036 ref NC_002951.2 :1572352-1574810	q1	q2	OK	372.665	131.683	-1.50081	1.34695	0.177998	0.819812
gene1503	gene1503	rluB	gi 57650036 ref NC_002951.2 :1574942-1576939	q1	q2	OK	134.743	92.4008	-0.544235	0.52016	0.60295	0.986963
gene1504	gene1504	scpB	gi 57650036 ref NC_002951.2 :1574942-1576939	q1	q2	OK	124.943	71.569	-0.803866	0.57604	0.564592	0.985191
gene1505	gene1505	scpA	gi 57650036 ref NC_002951.2 :1574942-1576939	q1	q2	OK	86.0623	61.1498	-0.493033	0.3772	0.706025	0.986963
gene1506	gene1506	SACOL1539	gi 57650036 ref NC_002951.2 :1577030-1577537	q1	q2	OK	30.1161	52.193	0.793319	-1.55774	0.119294	0.725355
gene1507	gene1507	xerD	gi 57650036 ref NC_002951.2 :1577614-1578502	q1	q2	OK	189.606	55.3129	-1.77731	2.96019	0.0030745	0.107223
gene1508	gene1508	SACOL1541	gi 57650036 ref NC_002951.2 :1578550-1579000	q1	q2	OK	247.438	135.052	-0.873548	1.70991	0.0872817	0.638963
gene1509	gene1509	SACOL1542	gi 57650036 ref NC_002951.2 :1579104-1579647	q1	q2	OK	56.5956	58.7233	0.0532433	-0.10945	0.912843	0.996932
gene151	gene151	SACOL0157	gi 57650036 ref NC_002951.2 :174716-175229	q1	q2	OK	87.4264	91.6805	0.0685459	-0.14208	0.887017	0.996932
gene1510	gene1510	SACOL1543	gi 57650036 ref NC_002951.2 :1579728-1580637	q1	q2	OK	83.752	104.514	0.319502	-0.59727	0.550325	0.979019
gene1511	gene1511	SACOL1544	gi 57650036 ref NC_002951.2 :1580852-1581101	q1	q2	OK	60.4509	73.8014	0.287885	-0.48488	0.627764	0.986963
gene1512	gene1512	SACOL1545	gi 57650036 ref NC_002951.2 :1581116-1581872	q1	q2	OK	42.1575	60.6661	0.525101	-1.08534	0.277772	0.879877
gene1513	gene1513	proC	gi 57650036 ref NC_002951.2 :1582013-1582829	q1	q2	OK	99.1908	63.898	-0.634436	1.25068	0.211051	0.830641
gene1514	gene1514	SACOL1548	gi 57650036 ref NC_002951.2 :1582933-1583854	q1	q2	OK	39.6699	46.5714	0.231399	-0.47883	0.632056	0.986963
gene1515	gene1515	zwf	gi 57650036 ref NC_002951.2 :1584166-1585651	q1	q2	OK	292.454	219.753	-0.412322	0.42952	0.667545	0.986963
gene1516	gene1516	SACOL1550	gi 57650036 ref NC_002951.2 :1585853-1586747	q1	q2	OK	177.191	97.7938	-0.857489	1.40514	0.159979	0.802655
gene1517	gene1517	malA	gi 57650036 ref NC_002951.2 :1586829-1588479	q1	q2	OK	69.7086	75.259	0.110527	-0.17715	0.859392	0.996923
gene1518	gene1518	malR	gi 57650036 ref NC_002951.2 :1588494-1589514	q1	q2	OK	31.7929	37.7484	0.247714	-0.51327	0.607766	0.986963
gene1519	gene1519	SACOL1553	gi 57650036 ref NC_002951.2 :1589707-1590079	q1	q2	OK	388.227	400.852	0.0461697	-0.08366	0.933324	0.996932
gene152	gene152	SACOL0158	gi 57650036 ref NC_002951.2 :175570-178057	q1	q2	OK	55.9511	65.855	0.235125	-0.28477	0.775824	0.986963
gene1520	gene1520	gnd	gi 57650036 ref NC_002951.2 :1590297-1591704	q1	q2	OK	450.029	306.774	-0.55284	0.53838	0.590313	0.985265
gene1521	gene1521	SACOL1555	gi 57650036 ref NC_002951.2 :1591771-1592905	q1	q2	OK	200.566	173.354	-0.210355	0.26939	0.787633	0.986986
gene1522	gene1522	SACOL1556	gi 57650036 ref NC_002951.2 :1593167-1593347	q1	q2	OK	57.9557	33.8387	-0.776275	0.75043	0.452997	0.949479
gene1523	gene1523	SACOL1557	gi 57650036 ref NC_002951.2 :1593473-1594454	q1	q2	OK	96.6859	83.1608	-0.217402	0.40115	0.688312	0.986963
gene1524	gene1524	SACOL1558	gi 57650036 ref NC_002951.2 :1594467-1594905	q1	q2	OK	132.038	117.055	-0.173766	0.35931	0.719362	0.986963
gene1525	gene1525	SACOL1559	gi 57650036 ref NC_002951.2 :1594977-1595076	q1	q2	NOTEST	0	0	0	0	1	1
gene1526	gene1526	SACOL1560	gi 57650036 ref NC_002951.2 :1595255-1596530	q1	q2	OK	201.333	101.459	-0.988694	1.32025	0.186751	0.819812
gene1527	gene1527	SACOL1561	gi 57650036 ref NC_002951.2 :1596542-1598518	q1	q2	OK	139.175	69.6464	-0.998777	0.81775	0.413501	0.939652
gene1528	gene1528	SACOL1562	gi 57650036 ref NC_002951.2 :1596542-1598518	q1	q2	OK	191.116	86.9887	-1.13555	1.07735	0.281323	0.880646
gene1529	gene1529	lpdA	gi 57650036 ref NC_002951.2 :1598533-1599955	q1	q2	OK	193.855	104.898	-0.885999	1.13069	0.258184	0.875983
gene153	gene153	SACOL0159	gi 57650036 ref NC_002951.2 :175570-178057	q1	q2	OK	64.5463	72.8216	0.174032	-0.13747	0.890661	0.996932

gene1530	gene1530	recN	gi 57650036 ref NC_002951.2 :1600105-1601785	q1	q2	OK	212.089	120.74	-0.812765	0.93157	0.35156	0.914147
gene1531	gene1531	argR	gi 57650036 ref NC_002951.2 :1601800-1602253	q1	q2	OK	63.5477	89.0356	0.486544	-0.99759	0.318478	0.892668
gene1532	gene1532	ispA	gi 57650036 ref NC_002951.2 :1602684-1605104	q1	q2	OK	94.5467	138.239	0.548069	-0.44948	0.653084	0.986963
gene1533	gene1533	xseB	gi 57650036 ref NC_002951.2 :1602684-1605104	q1	q2	OK	42.1611	81.7842	0.95591	-0.16049	0.872495	0.996923
gene1534	gene1534	xseA	gi 57650036 ref NC_002951.2 :1602684-1605104	q1	q2	OK	70.4165	112.753	0.679183	-0.63345	0.526442	0.97289
gene1535	gene1535	nusB	gi 57650036 ref NC_002951.2 :1605120-1605510	q1	q2	OK	185.357	272.972	0.558445	-1.11569	0.264554	0.875983
gene1536	gene1536	SACOL1570	gi 57650036 ref NC_002951.2 :1605569-1605932	q1	q2	OK	201.04	270.532	0.428319	-0.86805	0.385369	0.938503
gene1537	gene1537	accC	gi 57650036 ref NC_002951.2 :1605946-1607766	q1	q2	OK	129.444	94.0037	-0.461539	0.56893	0.569405	0.985265
gene1538	gene1538	accB	gi 57650036 ref NC_002951.2 :1605946-1607766	q1	q2	OK	113.34	60.4255	-0.907432	0.48772	0.625751	0.986963
gene1539	gene1539	SACOL1573	gi 57650036 ref NC_002951.2 :1608120-1609141	q1	q2	OK	78.5746	58.0538	-0.436673	0.84815	0.396357	0.939607
gene154	gene154	SACOL0160	gi 57650036 ref NC_002951.2 :178069-179101	q1	q2	OK	41.265	43.1321	0.0638458	-0.13157	0.895326	0.996932
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	q1	q2	OK	2.67616	0	-1.79769e+	-1.79769e	0.051424	0.51709
gene1541	gene1541	SACOL1575	gi 57650036 ref NC_002951.2 :1609646-1610237	q1	q2	OK	40.288	32.3878	-0.314901	0.62909	0.529288	0.97289
gene1542	gene1542	SACOL1576	gi 57650036 ref NC_002951.2 :1610243-1613127	q1	q2	OK	77.4323	79.1059	0.030849	-0.02833	0.977397	0.998143
gene1543	gene1543	SACOL1577	gi 57650036 ref NC_002951.2 :1610243-1613127	q1	q2	OK	37.8698	61.3874	0.696893	-0.70606	0.480154	0.960691
gene1544	gene1544	SACOL1578	gi 57650036 ref NC_002951.2 :1613131-1614490	q1	q2	OK	20.4023	29.7931	0.546244	-1.12853	0.259096	0.875983
gene1545	gene1545	SACOL1579	gi 57650036 ref NC_002951.2 :1614543-1617039	q1	q2	OK	28.6147	40.3044	0.494178	-0.88172	0.37793	0.932987
gene1546	gene1546	SACOL1580	gi 57650036 ref NC_002951.2 :1617073-1617457	q1	q2	OK	40.9059	70.9315	0.794119	-1.52985	0.126055	0.732386
gene1547	gene1547	SACOL1581	gi 57650036 ref NC_002951.2 :1617468-1617729	q1	q2	OK	163.211	199.755	0.291492	-0.58463	0.558796	0.983432
gene1548	gene1548	SACOL1582	gi 57650036 ref NC_002951.2 :1617733-1618789	q1	q2	OK	21.1169	34.6781	0.715627	-1.47124	0.141227	0.770917
gene1549	gene1549	SACOL1583	gi 57650036 ref NC_002951.2 :1618849-1619941	q1	q2	OK	38.7071	54.8299	0.502367	-1.01918	0.308119	0.892668
gene155	gene155	SACOL0161	gi 57650036 ref NC_002951.2 :179317-179677	q1	q2	OK	1268.83	538.268	-1.2371	1.65491	0.097942	0.673787
gene1550	gene1550	SACOL1584	gi 57650036 ref NC_002951.2 :1620115-1620418	q1	q2	OK	30.2333	33.9987	0.169343	-0.27351	0.784462	0.986986
gene1551	gene1551	SACOL1585	gi 57650036 ref NC_002951.2 :1620431-1620752	q1	q2	OK	26.6533	41.0605	0.623437	-1.04085	0.297944	0.892668
gene1552	gene1552	SACOL1586	gi 57650036 ref NC_002951.2 :1620902-1621187	q1	q2	OK	21.9474	25.7326	0.229549	-0.33145	0.740307	0.986963
gene1553	gene1553	efp	gi 57650036 ref NC_002951.2 :1621581-1622139	q1	q2	OK	167.993	187.804	0.160829	-0.30218	0.762517	0.986963
gene1554	gene1554	SACOL1588	gi 57650036 ref NC_002951.2 :1622164-1623226	q1	q2	OK	88.3019	141.075	0.675941	-1.10209	0.270424	0.875983
gene1555	gene1555	SACOL1589	gi 57650036 ref NC_002951.2 :1623330-1623912	q1	q2	OK	89.0539	55.9689	-0.670054	1.38037	0.167472	0.814226
gene1556	gene1556	SACOL1590	gi 57650036 ref NC_002951.2 :1623925-1624144	q1	q2	OK	64.4473	38.2059	-0.754327	1.03747	0.299519	0.892668
gene1557	gene1557	SACOL1591	gi 57650036 ref NC_002951.2 :1624207-1625038	q1	q2	OK	165.588	114.64	-0.530489	0.89976	0.368248	0.928011
gene1558	gene1558	SACOL1592	gi 57650036 ref NC_002951.2 :1625195-1625582	q1	q2	OK	216.044	118.427	-0.867332	1.76923	0.0768555	0.618539
gene1559	gene1559	SACOL1593	gi 57650036 ref NC_002951.2 :1625946-1628758	q1	q2	OK	374.584	58.5241	-2.67819	2.14567	0.031899	0.419363
gene156	gene156	SACOL0162	gi 57650036 ref NC_002951.2 :179849-180875	q1	q2	OK	44.7919	38.4208	-0.221352	0.4563	0.648175	0.986963

gene1560	gene1560	SACOL1594	gi 57650036 ref NC_002951.2 :1625946-1628758	q1	q2	OK	317.594	59.1781	-2.42405	1.74393	0.0811721	0.629918
gene1561	gene1561	gcvT	gi 57650036 ref NC_002951.2 :1628777-1629869	q1	q2	OK	152.072	49.8851	-1.60808	2.64253	0.0082288	0.198678
gene1562	gene1562	aroK	gi 57650036 ref NC_002951.2 :1630027-1630552	q1	q2	OK	158.883	90.0121	-0.819769	1.64908	0.0991303	0.680099
gene1563	gene1563	SACOL1597	gi 57650036 ref NC_002951.2 :1630784-1631282	q1	q2	OK	9.49314	19.7116	1.05409	-1.71259	0.0867876	0.638501
gene1564	gene1564	SACOL1598	gi 57650036 ref NC_002951.2 :1631485-1632221	q1	q2	OK	12.9009	18.5115	0.520955	-0.67835	0.497549	0.964002
gene1565	gene1565	comGC	gi 57650036 ref NC_002951.2 :1631485-1632221	q1	q2	OK	27.5216	35.7343	0.376747	-0.49611	0.619814	0.986963
gene1566	gene1566	SACOL1600	gi 57650036 ref NC_002951.2 :1632234-1634251	q1	q2	OK	16.9201	31.2639	0.885756	-1.26827	0.2047	0.822403
gene1567	gene1567	SACOL1601	gi 57650036 ref NC_002951.2 :1632234-1634251	q1	q2	OK	21.3748	30.879	0.530716	-0.75684	0.449144	0.948742
gene1568	gene1568	SACOL1602	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	98.1134	66.8243	-0.554077	0.17852	0.858315	0.996923
gene1569	gene1569	SACOL1603	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	229.342	148.87	-0.623444	0.17769	0.858967	0.996923
gene157	gene157	SACOL0163	gi 57650036 ref NC_002951.2 :181260-182511	q1	q2	OK	75.0112	47.5362	-0.65808	1.23674	0.216182	0.836415
gene1570	gene1570	glk	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	178.383	155.709	-0.196131	0.1216	0.903212	0.996932
gene1571	gene1571	SACOL1605	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	91.9514	75.4328	-0.285681	0.02574	0.979468	0.998143
gene1572	gene1572	SACOL1606	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	140.43	109.613	-0.357428	0.24151	0.809158	0.991128
gene1573	gene1573	SACOL1607	gi 57650036 ref NC_002951.2 :1637893-1638433	q1	q2	OK	137.178	66.9884	-1.03406	2.09723	0.0359735	0.441533
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	q1	q2	OK	751.47	414.836	-0.857172	1.32108	0.186474	0.819812
gene1575	gene1575	pbp3	gi 57650036 ref NC_002951.2 :1638903-1640979	q1	q2	OK	222.358	166.316	-0.418958	0.4263	0.669889	0.986963
gene1576	gene1576	sodA2	gi 57650036 ref NC_002951.2 :1641099-1641699	q1	q2	OK	283.905	217.706	-0.383032	0.6136	0.539482	0.978583
gene1577	gene1577	SACOL1611	gi 57650036 ref NC_002951.2 :1641974-1643235	q1	q2	OK	40.6408	26.0626	-0.640946	0.50901	0.610745	0.986963
gene1578	gene1578	SACOL1612	gi 57650036 ref NC_002951.2 :1641974-1643235	q1	q2	OK	65.0524	53.5732	-0.28009	0.51323	0.607789	0.986963
gene1579	gene1579	SACOL1613	gi 57650036 ref NC_002951.2 :1643276-1644062	q1	q2	OK	55.6624	54.8	-0.022527	0.04657	0.962858	0.996932
gene158	gene158	SACOL0164	gi 57650036 ref NC_002951.2 :182957-190133	q1	q2	OK	108.186	53.9535	-1.00373	0.96096	0.336571	0.905587
gene1580	gene1580	nfo	gi 57650036 ref NC_002951.2 :1644187-1645078	q1	q2	OK	185.294	82.1512	-1.17346	1.93001	0.0536053	0.529932
gene1581	gene1581	SACOL1615	gi 57650036 ref NC_002951.2 :1645087-1646434	q1	q2	OK	130.531	61.6769	-1.08159	1.67973	0.0930096	0.659737
gene1582	gene1582	SACOL1616	gi 57650036 ref NC_002951.2 :1646547-1647648	q1	q2	OK	118.101	96.4882	-0.291597	0.48139	0.63024	0.986963
gene1583	gene1583	SACOL1617	gi 57650036 ref NC_002951.2 :1647650-1648328	q1	q2	OK	104.512	106.263	0.0239677	-0.04743	0.96217	0.996932
gene1584	gene1584	rpoD	gi 57650036 ref NC_002951.2 :1648458-1649565	q1	q2	OK	351.42	194.871	-0.850672	0.97118	0.331457	0.900927
gene1585	gene1585	dnaG	gi 57650036 ref NC_002951.2 :1649788-1651588	q1	q2	OK	309.821	115.707	-1.42096	1.52876	0.126324	0.732386
gene1586	gene1586	SACOL1620	gi 57650036 ref NC_002951.2 :1651648-1652467	q1	q2	OK	144.097	110.775	-0.379407	0.6719	0.501647	0.965124
gene1587	gene1587	SACOL1621	gi 57650036 ref NC_002951.2 :1652477-1653017	q1	q2	OK	63.9124	41.0813	-0.637615	1.29438	0.195533	0.819847
gene1588	gene1588	glyS	gi 57650036 ref NC_002951.2 :1653435-1654827	q1	q2	OK	127.051	375.867	1.56481	-1.74862	0.080356	0.628579
gene1589	gene1589	SACOL1623	gi 57650036 ref NC_002951.2 :1654976-1655729	q1	q2	OK	181.971	99.2459	-0.874632	1.5356	0.124636	0.732386
gene159	gene159	SACOL0165	gi 57650036 ref NC_002951.2 :190145-190790	q1	q2	OK	110.061	39.1888	-1.48979	2.99119	0.0027789	0.101128

gene1590	gene1590	era	gi 57650036 ref NC_002951.2 :1655750-1656650	q1	q2	OK	208.004	102.691	-1.0183	1.5825	0.113537	0.720767
gene1591	gene1591	cdd	gi 57650036 ref NC_002951.2 :1656650-1657055	q1	q2	OK	137.283	88.0289	-0.641101	1.31925	0.187086	0.819847
gene1592	gene1592	dgkA	gi 57650036 ref NC_002951.2 :1657065-1657410	q1	q2	OK	96.671	74.0936	-0.383735	0.76226	0.445908	0.948742
gene1593	gene1593	SACOL1627	gi 57650036 ref NC_002951.2 :1657412-1657880	q1	q2	OK	422.499	205.789	-1.03778	1.73416	0.0828892	0.632629
gene1594	gene1594	SACOL1628	gi 57650036 ref NC_002951.2 :1657880-1658801	q1	q2	OK	339.501	189.51	-0.841142	1.04919	0.294092	0.891156
gene1595	gene1595	SACOL1629	gi 57650036 ref NC_002951.2 :1659131-1659830	q1	q2	OK	675.748	670.302	-0.011672	0.01196	0.990458	0.998143
gene1596	gene1596	SACOL1630	gi 57650036 ref NC_002951.2 :1659846-1660836	q1	q2	OK	541.785	538.451	-0.008906	0.0087	0.993055	0.998143
gene1597	gene1597	SACOL1631	gi 57650036 ref NC_002951.2 :1660853-1661561	q1	q2	OK	412.578	487.128	0.239634	-0.27569	0.78279	0.986963
gene1598	gene1598	rpsU	gi 57650036 ref NC_002951.2 :1661780-1661957	q1	q2	OK	1532.59	813.493	-0.913767	1.83159	0.0670123	0.57234
gene1599	gene1599	SACOL1633	gi 57650036 ref NC_002951.2 :1662249-1663596	q1	q2	OK	106.486	63.9486	-0.73568	1.20449	0.2284	0.858851
gene16	gene16	SACOL0017	gi 57650036 ref NC_002951.2 :22262-22355	q1	q2	NOTEST	0	0	0	0	1	1
gene160	gene160	SACOL0166	gi 57650036 ref NC_002951.2 :191117-191612	q1	q2	OK	108.225	85.1082	-0.346663	0.71685	0.473469	0.95963
gene1600	gene1600	SACOL1634	gi 57650036 ref NC_002951.2 :1663602-1664355	q1	q2	OK	77.224	58.6664	-0.396515	0.81093	0.417409	0.939652
gene1601	gene1601	prmA	gi 57650036 ref NC_002951.2 :1664356-1665295	q1	q2	OK	138.902	79.5604	-0.803941	1.40226	0.160837	0.802655
gene1602	gene1602	dnaJ	gi 57650036 ref NC_002951.2 :1665298-1666438	q1	q2	OK	155.389	114.108	-0.445479	0.65484	0.512569	0.971029
gene1603	gene1603	dnaK	gi 57650036 ref NC_002951.2 :1666573-1668406	q1	q2	OK	496.191	268.857	-0.884054	0.83156	0.405659	0.939607
gene1604	gene1604	grpE	gi 57650036 ref NC_002951.2 :1668474-1669101	q1	q2	OK	258.574	267.576	0.04937	-0.07558	0.939753	0.996932
gene1605	gene1605	hrcA	gi 57650036 ref NC_002951.2 :1669132-1670110	q1	q2	OK	74.7486	90.2921	0.272554	-0.51507	0.606507	0.986963
gene1606	gene1606	SACOL1640	gi 57650036 ref NC_002951.2 :1670209-1671367	q1	q2	OK	32.85	37.8313	0.203684	-0.42039	0.674197	0.986963
gene1607	gene1607	lepA	gi 57650036 ref NC_002951.2 :1671896-1673720	q1	q2	OK	71.25	50.8433	-0.486832	0.79785	0.424956	0.940178
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	q1	q2	OK	424.944	149.212	-1.50991	3.00071	0.0026935	0.101128
gene1609	gene1609	hoIA	gi 57650036 ref NC_002951.2 :1674361-1675336	q1	q2	OK	36.2941	36.7209	0.0168692	-0.03498	0.972099	0.99793
gene161	gene161	argB	gi 57650036 ref NC_002951.2 :191866-192631	q1	q2	OK	15.5217	19.0768	0.297528	-0.56744	0.570416	0.985265
gene1610	gene1610	SACOL1644	gi 57650036 ref NC_002951.2 :1675392-1677540	q1	q2	OK	36.9768	55.3142	0.581029	-0.98932	0.322506	0.89482
gene1611	gene1611	SACOL1645	gi 57650036 ref NC_002951.2 :1677598-1678030	q1	q2	OK	117.017	84.3346	-0.472522	0.97507	0.329527	0.900771
gene1612	gene1612	comEA	gi 57650036 ref NC_002951.2 :1678151-1678838	q1	q2	OK	35.0505	38.5475	0.137206	-0.27987	0.779579	0.986963
gene1613	gene1613	SACOL1647	gi 57650036 ref NC_002951.2 :1678877-1679594	q1	q2	OK	67.1056	64.104	-0.066021	0.13616	0.891698	0.996932
gene1614	gene1614	SACOL1648	gi 57650036 ref NC_002951.2 :1679596-1679950	q1	q2	OK	273.39	234.555	-0.22103	0.44628	0.655393	0.986963
gene1615	gene1615	SACOL1649	gi 57650036 ref NC_002951.2 :1679950-1681094	q1	q2	OK	150.132	97.9548	-0.616048	0.73791	0.460572	0.950591
gene1616	gene1616	nadD	gi 57650036 ref NC_002951.2 :1679950-1681094	q1	q2	OK	152.868	80.2377	-0.929931	1.05665	0.290671	0.891156
gene1617	gene1617	SACOL1651	gi 57650036 ref NC_002951.2 :1681096-1681387	q1	q2	OK	28.4599	30.4153	0.0958679	-0.14821	0.882174	0.996932
gene1618	gene1618	aroE	gi 57650036 ref NC_002951.2 :1681390-1682197	q1	q2	OK	82.4662	44.06	-0.904331	1.83167	0.0670009	0.57234
gene1619	gene1619	SACOL1653	gi 57650036 ref NC_002951.2 :1682210-1683311	q1	q2	OK	88.4517	62.3573	-0.504331	0.9364	0.349065	0.913467

gene162	gene162	argJ	gi 57650036 ref NC_002951.2 :192646-193888	q1	q2	OK	19.1795	25.4682	0.409128	-0.84385	0.398754	0.939607
gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	q1	q2	OK	129.201	38.6792	-1.73998	3.47234	0.0005159	0.0332187
gene1621	gene1621	mtn	gi 57650036 ref NC_002951.2 :1683858-1684545	q1	q2	OK	95.1051	35.9253	-1.40452	2.83335	0.0046063	0.137671
gene1622	gene1622	SACOL1656	gi 57650036 ref NC_002951.2 :1684858-1685128	q1	q2	OK	61.8245	25.5139	-1.27689	1.97059	0.0487708	0.499851
gene1623	gene1623	SACOL1657	gi 57650036 ref NC_002951.2 :1685329-1686034	q1	q2	OK	33.6571	40.0043	0.249244	-0.50941	0.610463	0.986963
gene1624	gene1624	SACOL1658	gi 57650036 ref NC_002951.2 :1686495-1687716	q1	q2	OK	100.12	36.1727	-1.46876	2.6358	0.0083938	0.200732
gene1625	gene1625	SACOL1659	gi 57650036 ref NC_002951.2 :1688004-1689234	q1	q2	OK	160.293	56.4446	-1.50581	2.30778	0.0210113	0.340384
gene1626	gene1626	SACOL1660	gi 57650036 ref NC_002951.2 :1689246-1691360	q1	q2	OK	124.548	62.1446	-1.003	0.66227	0.5078	0.970385
gene1627	gene1627	SACOL1661	gi 57650036 ref NC_002951.2 :1689246-1691360	q1	q2	OK	153.311	83.7692	-0.87197	0.93115	0.351774	0.914147
gene1628	gene1628	SACOL1662	gi 57650036 ref NC_002951.2 :1691373-1691823	q1	q2	OK	58.8745	34.6288	-0.765672	1.49129	0.135884	0.754931
gene1629	gene1629	SACOL1663	gi 57650036 ref NC_002951.2 :1691824-1693559	q1	q2	OK	101.067	58.2756	-0.794351	1.08468	0.278062	0.879877
gene163	gene163	argC	gi 57650036 ref NC_002951.2 :193899-194931	q1	q2	OK	32.9584	34.568	0.0687916	-0.14263	0.886581	0.996932
gene1630	gene1630	SACOL1664	gi 57650036 ref NC_002951.2 :1691824-1693559	q1	q2	OK	66.1965	43.8175	-0.595248	0.5533	0.580055	0.985265
gene1631	gene1631	greA	gi 57650036 ref NC_002951.2 :1693884-1694361	q1	q2	OK	186.668	139.288	-0.422398	0.84259	0.399459	0.939607
gene1632	gene1632	udk	gi 57650036 ref NC_002951.2 :1694388-1696280	q1	q2	OK	154.287	94.3931	-0.708865	0.57604	0.564591	0.985191
gene1633	gene1633	SACOL1667	gi 57650036 ref NC_002951.2 :1694388-1696280	q1	q2	OK	119.819	65.2532	-0.876741	0.95848	0.337819	0.905587
gene1634	gene1634	SACOL1668	gi 57650036 ref NC_002951.2 :1696291-1697215	q1	q2	OK	129.104	81.3486	-0.666344	1.1887	0.234559	0.863102
gene1635	gene1635	SACOL1669	gi 57650036 ref NC_002951.2 :1697217-1697856	q1	q2	OK	62.9922	39.9939	-0.655395	1.34624	0.178225	0.819812
gene1636	gene1636	SACOL1670	gi 57650036 ref NC_002951.2 :1698140-1698449	q1	q2	OK	313.358	428.476	0.451404	-0.9026	0.366738	0.928011
gene1637	gene1637	SACOL1671	gi 57650036 ref NC_002951.2 :1698463-1698892	q1	q2	OK	548.678	747.852	0.446793	-0.59511	0.551772	0.980537
gene1638	gene1638	SACOL1672	gi 57650036 ref NC_002951.2 :1698895-1699156	q1	q2	OK	995.589	1178.56	0.243398	-0.41371	0.679086	0.986963
gene1639	gene1639	alaS	gi 57650036 ref NC_002951.2 :1699218-1701849	q1	q2	OK	74.657	68.6017	-0.122033	0.15735	0.874967	0.996932
gene164	gene164	rocD1	gi 57650036 ref NC_002951.2 :194969-196154	q1	q2	OK	52.9154	56.4718	0.0938421	-0.18436	0.853728	0.996923
gene1640	gene1640	SACOL1674	gi 57650036 ref NC_002951.2 :1702191-1704669	q1	q2	OK	53.9708	55.313	0.0354381	-0.05285	0.957852	0.996932
gene1641	gene1641	SACOL1675	gi 57650036 ref NC_002951.2 :1704670-1705339	q1	q2	OK	36.3129	42.1497	0.215041	-0.43938	0.660389	0.986963
gene1642	gene1642	mnmA	gi 57650036 ref NC_002951.2 :1705800-1706919	q1	q2	OK	195.214	121.328	-0.68614	0.95233	0.340928	0.905587
gene1643	gene1643	SACOL1677	gi 57650036 ref NC_002951.2 :1706919-1708062	q1	q2	OK	170.698	91.1666	-0.904865	1.34429	0.178853	0.819812
gene1644	gene1644	SACOL1678	gi 57650036 ref NC_002951.2 :1708373-1709387	q1	q2	OK	168.577	206.649	0.293775	-0.39737	0.691092	0.986963
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	q1	q2	OK	801.742	2750.3	1.77838	-3.27863	0.0010431	0.0545675
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	q1	q2	OK	73.0734	279.704	1.93648	-2.78906	0.0052862	0.144433
gene1647	gene1647	SACOL1681	gi 57650036 ref NC_002951.2 :1710091-1710514	q1	q2	OK	335.716	373.079	0.152241	-0.26452	0.791382	0.986986
gene1648	gene1648	SACOL1682	gi 57650036 ref NC_002951.2 :1710598-1711873	q1	q2	OK	139.972	97.9475	-0.515053	0.75511	0.450182	0.948742
gene1649	gene1649	SACOL1683	gi 57650036 ref NC_002951.2 :1712033-1712807	q1	q2	OK	94.9938	51.6627	-0.878709	1.76489	0.0775817	0.620406

gene165	gene165	brnQ1	gi 57650036 ref NC_002951.2 :196406-197762	q1	q2	OK	48.6998	33.3634	-0.545648	1.0897	0.275845	0.879877
gene1650	gene1650	aspS	gi 57650036 ref NC_002951.2 :1713267-1715034	q1	q2	OK	58.7441	48.3318	-0.28147	0.49284	0.622127	0.986963
gene1651	gene1651	hisS	gi 57650036 ref NC_002951.2 :1715049-1716312	q1	q2	OK	41.6384	45.5392	0.129193	-0.25978	0.795031	0.987561
gene1652	gene1652	SACOL1687	gi 57650036 ref NC_002951.2 :1716772-1718097	q1	q2	OK	93.3868	123.222	0.399972	-0.51852	0.604092	0.986963
gene1653	gene1653	SACOL1688	gi 57650036 ref NC_002951.2 :1716772-1718097	q1	q2	OK	117.726	140.402	0.254132	-0.2261	0.821128	0.992727
gene1654	gene1654	relA2	gi 57650036 ref NC_002951.2 :1718108-1720298	q1	q2	OK	139.914	133.218	-0.07075	0.07769	0.938077	0.996932
gene1655	gene1655	apt	gi 57650036 ref NC_002951.2 :1720725-1721244	q1	q2	OK	121.619	58.9815	-1.04404	2.13158	0.0330411	0.42162
gene1656	gene1656	recJ	gi 57650036 ref NC_002951.2 :1721265-1723539	q1	q2	OK	39.1567	34.275	-0.192103	0.34816	0.727718	0.986963
gene1657	gene1657	SACOL1692	gi 57650036 ref NC_002951.2 :1723741-1726021	q1	q2	OK	92.1647	89.6041	-0.040649	0.0507	0.959563	0.996932
gene1658	gene1658	yajC	gi 57650036 ref NC_002951.2 :1726295-1726556	q1	q2	OK	256.116	111.53	-1.19937	2.35254	0.0186457	0.315668
gene1659	gene1659	tgt	gi 57650036 ref NC_002951.2 :1726574-1727714	q1	q2	OK	108.832	84.1306	-0.371395	0.62859	0.529615	0.97289
gene166	gene166	entB	gi 57650036 ref NC_002951.2 :198037-198535	q1	q2	OK	54.1461	31.4547	-0.783582	1.53884	0.123843	0.732386
gene1660	gene1660	queA	gi 57650036 ref NC_002951.2 :1727736-1728762	q1	q2	OK	97.274	55.9846	-0.797025	1.49689	0.134422	0.751793
gene1661	gene1661	ruvB	gi 57650036 ref NC_002951.2 :1728763-1729768	q1	q2	OK	146.189	84.2719	-0.79471	1.32066	0.186614	0.819812
gene1662	gene1662	ruvA	gi 57650036 ref NC_002951.2 :1729799-1730402	q1	q2	OK	91.4046	51.2849	-0.833732	1.71163	0.0869642	0.638501
gene1663	gene1663	SACOL1698	gi 57650036 ref NC_002951.2 :1730415-1730874	q1	q2	OK	46.2749	35.8939	-0.366493	0.71036	0.47748	0.960423
gene1664	gene1664	obgE	gi 57650036 ref NC_002951.2 :1730883-1732176	q1	q2	OK	180.108	97.0743	-0.8917	1.22288	0.221375	0.849926
gene1665	gene1665	rpmA	gi 57650036 ref NC_002951.2 :1732530-1732815	q1	q2	OK	1951.32	508.22	-1.94093	2.76983	0.0056085	0.151098
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	q1	q2	OK	506.413	164.242	-1.62449	3.13114	0.0017413	0.0767082
gene1667	gene1667	rplU	gi 57650036 ref NC_002951.2 :1733152-1733461	q1	q2	OK	2020.7	674.066	-1.58389	2.07201	0.0382645	0.45109
gene1668	gene1668	SACOL1703	gi 57650036 ref NC_002951.2 :1733627-1735000	q1	q2	OK	41.5382	41.763	0.0077896	-0.00686	0.994526	0.998143
gene1669	gene1669	mreC	gi 57650036 ref NC_002951.2 :1733627-1735000	q1	q2	OK	101.907	48.6678	-1.06621	1.74228	0.0814602	0.629918
gene167	gene167	ipdC	gi 57650036 ref NC_002951.2 :198661-200302	q1	q2	OK	59.061	43.439	-0.443215	0.80672	0.419826	0.939652
gene1670	gene1670	SACOL1705	gi 57650036 ref NC_002951.2 :1735392-1735866	q1	q2	OK	92.1667	45.3944	-1.02173	2.06528	0.0388962	0.454271
gene1671	gene1671	SACOL1706	gi 57650036 ref NC_002951.2 :1736339-1736624	q1	q2	OK	147.646	93.9242	-0.652577	1.2769	0.201638	0.819847
gene1672	gene1672	radC	gi 57650036 ref NC_002951.2 :1736691-1738082	q1	q2	OK	41.9712	68.4416	0.705471	-1.07354	0.283027	0.880646
gene1673	gene1673	SACOL1708	gi 57650036 ref NC_002951.2 :1736691-1738082	q1	q2	OK	35.6152	39.0206	0.131744	-0.16968	0.86526	0.996923
gene1674	gene1674	folC	gi 57650036 ref NC_002951.2 :1738351-1739623	q1	q2	OK	122.848	86.3195	-0.509112	0.78992	0.429576	0.940178
gene1675	gene1675	valS	gi 57650036 ref NC_002951.2 :1739635-1742266	q1	q2	OK	112.314	104.415	-0.105211	0.11676	0.90705	0.996932
gene1676	gene1676	SACOL1711	gi 57650036 ref NC_002951.2 :1742668-1743229	q1	q2	OK	229.848	91.934	-1.32201	2.46942	0.0135331	0.270921
gene1677	gene1677	SACOL1712	gi 57650036 ref NC_002951.2 :1743451-1744525	q1	q2	OK	71.5443	89.6182	0.324955	-0.59952	0.548824	0.979019
gene1678	gene1678	hemL1	gi 57650036 ref NC_002951.2 :1744720-1746007	q1	q2	OK	117.89	65.986	-0.837208	1.3556	0.175227	0.819812
gene1679	gene1679	hemB	gi 57650036 ref NC_002951.2 :1746054-1747029	q1	q2	OK	88.7985	64.5955	-0.459103	0.88049	0.378595	0.932987

gene168	gene168	SACOL0174	gi 57650036 ref NC_002951.2 :200495-202621	q1	q2	NOTEST	0	0	0	0	1	1
gene1680	gene1680	hemD	gi 57650036 ref NC_002951.2 :1747031-1747700	q1	q2	OK	41.17	40.79	-0.013378	0.02743	0.97812	0.998143
gene1681	gene1681	hemC	gi 57650036 ref NC_002951.2 :1747721-1748648	q1	q2	OK	104.644	55.9683	-0.902806	1.72189	0.0850889	0.638501
gene1682	gene1682	SACOL1718	gi 57650036 ref NC_002951.2 :1748689-1749505	q1	q2	OK	58.7996	34.6636	-0.762384	1.56825	0.116822	0.723345
gene1683	gene1683	hemA	gi 57650036 ref NC_002951.2 :1749526-1750873	q1	q2	OK	578.951	374.037	-0.630259	0.59801	0.549834	0.979019
gene1684	gene1684	engB	gi 57650036 ref NC_002951.2 :1751089-1751680	q1	q2	OK	86.8795	61.2129	-0.505181	1.04293	0.29698	0.892668
gene1685	gene1685	clpX	gi 57650036 ref NC_002951.2 :1751833-1753096	q1	q2	OK	336.067	296.25	-0.181934	0.18769	0.851118	0.996923
gene1686	gene1686	tig	gi 57650036 ref NC_002951.2 :1753246-1754548	q1	q2	OK	574.093	241.621	-1.24854	1.25215	0.210516	0.830641
gene1687	gene1687	SACOL1723	gi 57650036 ref NC_002951.2 :1754710-1755640	q1	q2	OK	75.8183	59.8138	-0.342068	0.67928	0.496959	0.964002
gene1688	gene1688	SACOL1724	gi 57650036 ref NC_002951.2 :1755658-1756267	q1	q2	OK	141.15	118.188	-0.256154	0.50095	0.616408	0.986963
gene1689	gene1689	rpIT	gi 57650036 ref NC_002951.2 :1756408-1756765	q1	q2	OK	154.519	70.5238	-1.1316	2.27716	0.0227766	0.342468
gene169	gene169	SACOL0175	gi 57650036 ref NC_002951.2 :200495-202621	q1	q2	OK	58.3258	56.7097	-0.040538	0.06478	0.948347	0.996932
gene1690	gene1690	rpmI	gi 57650036 ref NC_002951.2 :1756811-1757012	q1	q2	OK	88.6976	57.4554	-0.626452	0.85849	0.39062	0.939607
gene1691	gene1691	infC	gi 57650036 ref NC_002951.2 :1757040-1757568	q1	q2	OK	235.203	116.421	-1.01456	1.91447	0.0555605	0.538882
gene1692	gene1692	SACOL1728	gi 57650036 ref NC_002951.2 :1757796-1759290	q1	q2	OK	111.946	135.445	0.274904	-0.36612	0.714279	0.986963
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	q1	q2	OK	299.764	64.8701	-2.2082	2.53061	0.0113865	0.247006
gene1694	gene1694	dnaI	gi 57650036 ref NC_002951.2 :1762065-1764386	q1	q2	OK	228.487	114.1	-1.00181	0.75745	0.448782	0.948742
gene1695	gene1695	SACOL1732	gi 57650036 ref NC_002951.2 :1762065-1764386	q1	q2	OK	170.791	77.7226	-1.13583	0.935	0.349788	0.913467
gene1696	gene1696	nrdR	gi 57650036 ref NC_002951.2 :1764386-1764857	q1	q2	OK	307.595	114.208	-1.42937	2.65368	0.0079619	0.196004
gene1697	gene1697	gapA2	gi 57650036 ref NC_002951.2 :1765066-1766092	q1	q2	OK	855.768	379.66	-1.17251	1.14454	0.252401	0.875384
gene1698	gene1698	coaE	gi 57650036 ref NC_002951.2 :1766261-1766885	q1	q2	OK	230.033	133.349	-0.786632	1.38225	0.166896	0.814226
gene1699	gene1699	fpg	gi 57650036 ref NC_002951.2 :1766900-1767773	q1	q2	OK	136.653	81.4195	-0.747073	1.34469	0.178726	0.819812
gene17	gene17	purA	gi 57650036 ref NC_002951.2 :22464-23748	q1	q2	OK	67.2951	64.6046	-0.058864	0.10846	0.913635	0.996932
gene170	gene170	SACOL0176	gi 57650036 ref NC_002951.2 :203206-205158	q1	q2	OK	193.18	47.0955	-2.03629	1.95276	0.0508483	0.516924
gene1700	gene1700	polA	gi 57650036 ref NC_002951.2 :1767788-1770419	q1	q2	OK	149.877	87.6157	-0.774522	0.84633	0.397368	0.939607
gene1701	gene1701	SACOL1738	gi 57650036 ref NC_002951.2 :1770712-1772200	q1	q2	OK	28.3987	32.1173	0.177522	-0.36346	0.716263	0.986963
gene1702	gene1702	SACOL1739	gi 57650036 ref NC_002951.2 :1772698-1775064	q1	q2	OK	154.325	79.5829	-0.95544	0.84883	0.395975	0.939607
gene1703	gene1703	phoP	gi 57650036 ref NC_002951.2 :1772698-1775064	q1	q2	OK	199.785	164.828	-0.277489	0.18406	0.85397	0.996923
gene1704	gene1704	icd	gi 57650036 ref NC_002951.2 :1775453-1776722	q1	q2	OK	1633.96	1384.8	-0.238689	0.22214	0.824207	0.992727
gene1705	gene1705	gltA	gi 57650036 ref NC_002951.2 :1776770-1777892	q1	q2	OK	906.391	782.525	-0.211996	0.19328	0.84674	0.996923
gene1706	gene1706	SACOL1743	gi 57650036 ref NC_002951.2 :1778239-1779601	q1	q2	OK	257.973	211.385	-0.287346	0.31489	0.752846	0.986963
gene1707	gene1707	SACOL1744	gi 57650036 ref NC_002951.2 :1779633-1781285	q1	q2	OK	11.2256	19.8017	0.818828	-1.67543	0.0938492	0.661953
gene1708	gene1708	pyk	gi 57650036 ref NC_002951.2 :1781925-1783683	q1	q2	OK	163.844	96.964	-0.756799	0.92611	0.354392	0.914747

gene1709	gene1709	pfkA	gi 57650036 ref NC_002951.2 :1783704-1784673	q1	q2	OK	321.582	126.477	-1.34631	1.76692	0.0772413	0.619658
gene171	gene171	murQ	gi 57650036 ref NC_002951.2 :203206-205158	q1	q2	OK	146.473	75.2208	-0.961431	0.81315	0.416131	0.939652
gene1710	gene1710	accA	gi 57650036 ref NC_002951.2 :1784941-1786743	q1	q2	OK	96.4046	65.9231	-0.548318	0.64442	0.519301	0.971416
gene1711	gene1711	accD	gi 57650036 ref NC_002951.2 :1784941-1786743	q1	q2	OK	84.751	58.7491	-0.528663	0.55023	0.582164	0.985265
gene1712	gene1712	SACOL1749	gi 57650036 ref NC_002951.2 :1786937-1788167	q1	q2	OK	110.168	94.3269	-0.22396	0.35738	0.720811	0.986963
gene1713	gene1713	dnaE	gi 57650036 ref NC_002951.2 :1788616-1791814	q1	q2	OK	122.621	74.1669	-0.725358	0.78691	0.431337	0.940181
gene1714	gene1714	SACOL1751	gi 57650036 ref NC_002951.2 :1791834-1792776	q1	q2	OK	116.524	78.8978	-0.562566	1.02203	0.306766	0.892668
gene1715	gene1715	SACOL1752	gi 57650036 ref NC_002951.2 :1793036-1794335	q1	q2	OK	108.248	73.3326	-0.561813	0.9147	0.36035	0.923053
gene1716	gene1716	SACOL1753	gi 57650036 ref NC_002951.2 :1794539-1794953	q1	q2	OK	490.685	98.3259	-2.31915	4.0179	5.87E-05	0.0086731
gene1717	gene1717	SACOL1754	gi 57650036 ref NC_002951.2 :1795257-1795946	q1	q2	OK	296.449	278.431	-0.090463	0.12565	0.90001	0.996932
gene1718	gene1718	pepQ	gi 57650036 ref NC_002951.2 :1796120-1797176	q1	q2	OK	71.0413	46.0355	-0.625911	1.23692	0.216116	0.836415
gene1719	gene1719	SACOL1757	gi 57650036 ref NC_002951.2 :1797269-1797368	q1	q2	NOTEST	0	0	0	0	1	1
gene172	gene172	SACOL0178	gi 57650036 ref NC_002951.2 :205169-206624	q1	q2	OK	131.074	74.6318	-0.812522	1.18885	0.234499	0.863102
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	q1	q2	OK	580.652	153.249	-1.92179	2.12903	0.0332518	0.421693
gene1721	gene1721	SACOL1759	gi 57650036 ref NC_002951.2 :1798750-1799251	q1	q2	OK	1424.68	782.695	-0.864119	0.89814	0.369109	0.928011
gene1722	gene1722	ackA	gi 57650036 ref NC_002951.2 :1799496-1800699	q1	q2	OK	258.74	213.607	-0.276547	0.31681	0.751391	0.986963
gene1723	gene1723	SACOL1761	gi 57650036 ref NC_002951.2 :1800786-1801734	q1	q2	OK	138.039	448.075	1.69867	-2.08179	0.0373615	0.444619
gene1724	gene1724	tpx	gi 57650036 ref NC_002951.2 :1801856-1802351	q1	q2	OK	519.125	814.667	0.65013	-0.78492	0.432502	0.940247
gene1725	gene1725	SACOL1763	gi 57650036 ref NC_002951.2 :1802448-1803219	q1	q2	OK	139.84	160.949	0.202829	-0.34932	0.726853	0.986963
gene1726	gene1726	thiI	gi 57650036 ref NC_002951.2 :1803262-1805625	q1	q2	OK	76.7122	64.009	-0.261183	0.29547	0.767633	0.986963
gene1727	gene1727	SACOL1765	gi 57650036 ref NC_002951.2 :1803262-1805625	q1	q2	OK	55.4874	54.8437	-0.016834	0.01616	0.987104	0.998143
gene1728	gene1728	SACOL1766	gi 57650036 ref NC_002951.2 :1805782-1805923	q1	q2	OK	0	110.339	1.79769e+3	1.79769e+0	0.0633551	0.55727
gene1729	gene1729	SACOL1767	gi 57650036 ref NC_002951.2 :1805996-1807691	q1	q2	OK	243.943	132.747	-0.877866	0.96787	0.333108	0.902303
gene173	gene173	SACOL0179	gi 57650036 ref NC_002951.2 :206626-207502	q1	q2	OK	86.1906	41.0105	-1.07154	2.13915	0.0324234	0.420136
gene1730	gene1730	SACOL1768	gi 57650036 ref NC_002951.2 :1807827-1808292	q1	q2	OK	40.2554	36.5363	-0.139849	0.26999	0.787168	0.986986
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	q1	q2	OK	166.82	78.0286	-1.09622	2.13664	0.0326271	0.420136
gene1732	gene1732	SACOL1770	gi 57650036 ref NC_002951.2 :1809353-1810097	q1	q2	OK	32.9822	43.5862	0.402183	-0.82642	0.408568	0.939607
gene1733	gene1733	SACOL1771	gi 57650036 ref NC_002951.2 :1810176-1810623	q1	q2	OK	60.7588	76.5475	0.333261	-0.67859	0.4974	0.964002
gene1734	gene1734	SACOL1772	gi 57650036 ref NC_002951.2 :1810736-1813488	q1	q2	OK	40.3264	48.8	0.275156	-0.24656	0.805252	0.989715
gene1735	gene1735	serA	gi 57650036 ref NC_002951.2 :1810736-1813488	q1	q2	OK	50.2368	61.2752	0.286557	-0.34597	0.729369	0.986963
gene1736	gene1736	SACOL1774	gi 57650036 ref NC_002951.2 :1813637-1814768	q1	q2	OK	83.8898	69.5888	-0.269641	0.49553	0.620228	0.986963
gene1737	gene1737	SACOL1775	gi 57650036 ref NC_002951.2 :1814874-1816341	q1	q2	OK	76.1538	46.5437	-0.710329	1.26395	0.206247	0.823389
gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	q1	q2	OK	61.8188	27.9487	-1.14526	2.30308	0.0212745	0.341601

gene1739	gene1739	SACOL1777	gi 57650036 ref NC_002951.2 :1817257-1818532	q1	q2	OK	75.1602	90.0778	0.261202	-0.44711	0.654798	0.986963
gene174	gene174	SACOL0180	gi 57650036 ref NC_002951.2 :208189-210979	q1	q2	OK	44.1495	41.6436	-0.084302	0.1323	0.894747	0.996932
gene1740	gene1740	tyrS	gi 57650036 ref NC_002951.2 :1818625-1819888	q1	q2	OK	44.4918	57.9033	0.380106	-0.74446	0.456598	0.950521
gene1741	gene1741	SACOL1779	gi 57650036 ref NC_002951.2 :1820269-1821175	q1	q2	OK	47.2239	49.7312	0.0746356	-0.15396	0.877639	0.996932
gene1742	gene1742	SACOL1781	gi 57650036 ref NC_002951.2 :1821377-1824065	q1	q2	OK	100.869	43.2862	-1.22051	1.58718	0.112473	0.720082
gene1743	gene1743	fhs	gi 57650036 ref NC_002951.2 :1824398-1826066	q1	q2	OK	380.142	278.957	-0.446497	0.42993	0.667248	0.986963
gene1744	gene1744	acs	gi 57650036 ref NC_002951.2 :1826505-1828212	q1	q2	OK	386.512	787.436	1.02665	-0.94623	0.34403	0.906464
gene1745	gene1745	acuA	gi 57650036 ref NC_002951.2 :1828380-1829013	q1	q2	OK	157.026	66.0762	-1.2488	2.43369	0.0149458	0.287414
gene1746	gene1746	acuC	gi 57650036 ref NC_002951.2 :1829037-1830207	q1	q2	OK	186.652	117.874	-0.6631	0.91485	0.360269	0.923053
gene1747	gene1747	ccpA	gi 57650036 ref NC_002951.2 :1830304-1831294	q1	q2	OK	361.096	213.447	-0.758502	0.88776	0.37467	0.932404
gene1748	gene1748	SACOL1787	gi 57650036 ref NC_002951.2 :1831833-1832925	q1	q2	OK	167.23	97.734	-0.774897	1.17181	0.241274	0.865486
gene1749	gene1749	SACOL1788	gi 57650036 ref NC_002951.2 :1833624-1835142	q1	q2	OK	506.235	664.757	0.39302	-0.35922	0.719432	0.986963
gene175	gene175	SACOL0181	gi 57650036 ref NC_002951.2 :211183-212026	q1	q2	OK	167.786	59.0823	-1.50582	2.64822	0.0080918	0.197267
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	q1	q2	OK	796.848	1271.47	0.674126	-0.71115	0.476993	0.960423
gene1751	gene1751	murC	gi 57650036 ref NC_002951.2 :1835780-1837094	q1	q2	OK	163.072	114.678	-0.507921	0.68699	0.492087	0.964002
gene1752	gene1752	SACOL1791	gi 57650036 ref NC_002951.2 :1837117-1840942	q1	q2	OK	104.056	84.2384	-0.304816	0.31494	0.752805	0.986963
gene1753	gene1753	SACOL1792	gi 57650036 ref NC_002951.2 :1840962-1841559	q1	q2	OK	79.9862	72.1364	-0.149024	0.3084	0.757776	0.986963
gene1754	gene1754	SACOL1793	gi 57650036 ref NC_002951.2 :1841587-1842445	q1	q2	OK	68.6399	46.9993	-0.546408	1.11502	0.264841	0.875983
gene1755	gene1755	SACOL1794	gi 57650036 ref NC_002951.2 :1842544-1842856	q1	q2	OK	191.032	189.902	-0.008558	0.01772	0.98586	0.998143
gene1756	gene1756	pepA1	gi 57650036 ref NC_002951.2 :1842920-1843997	q1	q2	OK	242.192	190.022	-0.349988	0.43433	0.664047	0.986963
gene1757	gene1757	SACOL1796	gi 57650036 ref NC_002951.2 :1844083-1844395	q1	q2	OK	84.1836	67.3846	-0.321119	0.61259	0.54015	0.978583
gene1758	gene1758	SACOL1797	gi 57650036 ref NC_002951.2 :1844519-1845296	q1	q2	OK	79.8802	50.9569	-0.648559	1.32162	0.186294	0.819812
gene1759	gene1759	trmB	gi 57650036 ref NC_002951.2 :1845831-1846476	q1	q2	OK	477.903	153.323	-1.64015	2.29637	0.0216549	0.342403
gene176	gene176	SACOL0182	gi 57650036 ref NC_002951.2 :212027-214050	q1	q2	NOTEST	0	0	0	0	1	1
gene1760	gene1760	SACOL1799	gi 57650036 ref NC_002951.2 :1846490-1847282	q1	q2	OK	457.157	136.519	-1.74359	2.2826	0.0224538	0.342403
gene1761	gene1761	dat	gi 57650036 ref NC_002951.2 :1847831-1848680	q1	q2	OK	178.208	268.934	0.593692	-0.82105	0.411616	0.939607
gene1762	gene1762	SACOL1801	gi 57650036 ref NC_002951.2 :1848683-1850093	q1	q2	OK	120.922	161.956	0.42152	-0.54684	0.58449	0.985265
gene1763	gene1763	SACOL1802	gi 57650036 ref NC_002951.2 :1851012-1851435	q1	q2	OK	532.499	563.47	0.0815607	-0.11772	0.906287	0.996932
gene1764	gene1764	SACOL1803	gi 57650036 ref NC_002951.2 :1851451-1853805	q1	q2	OK	87.5553	60.5432	-0.532229	0.39119	0.695658	0.986963
gene1765	gene1765	SACOL1804	gi 57650036 ref NC_002951.2 :1851451-1853805	q1	q2	OK	88.5066	51.5835	-0.778877	0.94074	0.346839	0.91195
gene1766	gene1766	SACOL1805	gi 57650036 ref NC_002951.2 :1854211-1855480	q1	q2	OK	89.2339	78.8882	-0.177783	0.30293	0.761942	0.986963
gene1767	gene1767	SACOL1806	gi 57650036 ref NC_002951.2 :1855596-1862157	q1	q2	OK	36.1321	43.2108	0.258112	-0.29138	0.770763	0.986963
gene1768	gene1768	SACOL1807	gi 57650036 ref NC_002951.2 :1862482-1862794	q1	q2	OK	102.801	59.2168	-0.795777	1.51741	0.129162	0.738783

gene1769	gene1769	leuS	gi 57650036 ref NC_002951.2 :1862815-1865233	q1	q2	OK	59.8828	52.5378	-0.188784	0.28128	0.778497	0.986963
gene177	gene177	SACOL0183	gi 57650036 ref NC_002951.2 :212027-214050	q1	q2	NOTEST	0	0	0	0	1	1
gene1770	gene1770	SACOL1809	gi 57650036 ref NC_002951.2 :1865520-1866702	q1	q2	OK	93.4755	68.2872	-0.452973	0.8033	0.421804	0.939652
gene1771	gene1771	SACOL1810	gi 57650036 ref NC_002951.2 :1866811-1868325	q1	q2	OK	66.8713	69.9547	0.0650337	-0.10646	0.915219	0.996932
gene1772	gene1772	SACOL1811	gi 57650036 ref NC_002951.2 :1866811-1868325	q1	q2	OK	37.1873	46.1256	0.310758	-0.27949	0.779869	0.986963
gene1773	gene1773	rot	gi 57650036 ref NC_002951.2 :1868444-1868945	q1	q2	OK	267.585	542.569	1.01981	-1.49703	0.134385	0.751793
gene1774	gene1774	SACOL1813	gi 57650036 ref NC_002951.2 :1869365-1870078	q1	q2	OK	26.9972	41.8946	0.633953	-1.28528	0.198695	0.819847
gene1775	gene1775	SACOL1814	gi 57650036 ref NC_002951.2 :1870424-1871252	q1	q2	OK	296.538	155.135	-0.934694	1.30766	0.190989	0.819847
gene1776	gene1776	SACOL1815	gi 57650036 ref NC_002951.2 :1871254-1871374	q1	q2	OK	76.5944	580.797	2.92272	-1.52513	0.127226	0.732663
gene1777	gene1777	putA	gi 57650036 ref NC_002951.2 :1871485-1872487	q1	q2	OK	304.813	91.5212	-1.73575	2.35467	0.018539	0.315668
gene1778	gene1778	ribH	gi 57650036 ref NC_002951.2 :1872608-1873073	q1	q2	OK	37.9104	47.3099	0.319548	-0.62452	0.532287	0.97289
gene1779	gene1779	ribBA	gi 57650036 ref NC_002951.2 :1873085-1874267	q1	q2	OK	37.2076	48.1716	0.372586	-0.75665	0.449258	0.948742
gene178	gene178	SACOL0184	gi 57650036 ref NC_002951.2 :214314-215907	q1	q2	OK	38.5635	37.4155	-0.043599	0.08602	0.931447	0.996932
gene1780	gene1780	ribE	gi 57650036 ref NC_002951.2 :1874277-1874910	q1	q2	OK	33.8976	43.1698	0.348839	-0.70705	0.479538	0.960423
gene1781	gene1781	ribD	gi 57650036 ref NC_002951.2 :1874916-1875960	q1	q2	OK	55.2342	59.2673	0.101676	-0.20314	0.839022	0.996923
gene1782	gene1782	SACOL1821	gi 57650036 ref NC_002951.2 :1876440-1877943	q1	q2	OK	28.686	56.6935	0.982837	-1.89901	0.0575632	0.540443
gene1783	gene1783	arsR	gi 57650036 ref NC_002951.2 :1878465-1880072	q1	q2	OK	50.7407	49.8983	-0.024154	0.01896	0.984872	0.998143
gene1784	gene1784	arsB	gi 57650036 ref NC_002951.2 :1878465-1880072	q1	q2	OK	32.8123	37.0431	0.174966	-0.32498	0.745199	0.986963
gene1785	gene1785	arsC	gi 57650036 ref NC_002951.2 :1880089-1880485	q1	q2	OK	29.5658	34.7123	0.231522	-0.4173	0.676462	0.986963
gene1786	gene1786	SACOL1825	gi 57650036 ref NC_002951.2 :1880779-1881634	q1	q2	OK	262.95	316.3	0.266505	-0.32926	0.74196	0.986963
gene1787	gene1787	SACOL1826	gi 57650036 ref NC_002951.2 :1881909-1882134	q1	q2	OK	335.827	224.368	-0.581849	1.15029	0.250024	0.870749
gene1788	gene1788	SACOL1827	gi 57650036 ref NC_002951.2 :1882332-1882803	q1	q2	OK	27.5801	35.3174	0.356749	-0.67098	0.502236	0.965124
gene1789	gene1789	SACOL1828	gi 57650036 ref NC_002951.2 :1882915-1883789	q1	q2	OK	39.9665	30.8693	-0.372621	0.44512	0.656232	0.986963
gene179	gene179	SACOL0185	gi 57650036 ref NC_002951.2 :216034-217342	q1	q2	OK	29.4365	40.31	0.453534	-0.92717	0.353841	0.914747
gene1790	gene1790	SACOL1829	gi 57650036 ref NC_002951.2 :1882915-1883789	q1	q2	OK	82.4573	59.2083	-0.477848	0.8054	0.420591	0.939652
gene1791	gene1791	SACOL1830	gi 57650036 ref NC_002951.2 :1884084-1884720	q1	q2	OK	54.9772	71.4735	0.378575	-0.78383	0.433139	0.940247
gene1792	gene1792	tal	gi 57650036 ref NC_002951.2 :1885159-1885873	q1	q2	OK	509.247	1087.46	1.09452	-1.1025	0.270244	0.875983
gene1793	gene1793	crcB	gi 57650036 ref NC_002951.2 :1886612-1887406	q1	q2	OK	50.4841	76.9202	0.607534	-0.97261	0.330749	0.900771
gene1794	gene1794	SACOL1833	gi 57650036 ref NC_002951.2 :1886612-1887406	q1	q2	OK	59.4325	64.8113	0.124994	-0.16249	0.870922	0.996923
gene1795	gene1795	SACOL1834	gi 57650036 ref NC_002951.2 :1887816-1889426	q1	q2	OK	15.0027	25.1099	0.743032	-1.53052	0.125888	0.732386
gene1796	gene1796	SACOL1835	gi 57650036 ref NC_002951.2 :1889488-1890322	q1	q2	OK	119.11	103.96	-0.196267	0.36077	0.718271	0.986963
gene1797	gene1797	SACOL1836	gi 57650036 ref NC_002951.2 :1890533-1891442	q1	q2	OK	169.379	68.098	-1.31457	2.22485	0.0260916	0.37225
gene1798	gene1798	metK	gi 57650036 ref NC_002951.2 :1891566-1892760	q1	q2	OK	85.3874	49.8231	-0.77721	1.43966	0.149963	0.788621

gene1799	gene1799	pckA	gi 57650036 ref NC_002951.2 :1893130-1894723	q1	q2	OK	727.511	386.252	-0.913426	0.84464	0.39831	0.939607
gene18	gene18	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :24177-24252	q1	q2	NOTEST	0	0	0	0	1	1
gene180	gene180	SACOL0186	gi 57650036 ref NC_002951.2 :217347-218511	q1	q2	OK	31.9547	51.3462	0.684229	-1.38991	0.164557	0.811825
gene1800	gene1800	SACOL1839	gi 57650036 ref NC_002951.2 :1894858-1895344	q1	q2	OK	207.638	417.675	1.00831	-1.66746	0.0954222	0.664499
gene1801	gene1801	SACOL1840	gi 57650036 ref NC_002951.2 :1895718-1896949	q1	q2	OK	74.5299	95.76	0.361604	-0.48564	0.62722	0.986963
gene1802	gene1802	SACOL1841	gi 57650036 ref NC_002951.2 :1895718-1896949	q1	q2	OK	92.9909	137.883	0.568285	-0.63332	0.526525	0.97289
gene1803	gene1803	SACOL1842	gi 57650036 ref NC_002951.2 :1897008-1898264	q1	q2	OK	403.385	366.092	-0.139952	0.13622	0.891644	0.996932
gene1804	gene1804	SACOL1843	gi 57650036 ref NC_002951.2 :1897008-1898264	q1	q2	OK	64.5437	85.5489	0.406473	-0.55551	0.578547	0.985265
gene1805	gene1805	SACOL1844	gi 57650036 ref NC_002951.2 :1898268-1899747	q1	q2	OK	56.217	88.9611	0.662169	-1.1099	0.267042	0.875983
gene1806	gene1806	SACOL1845	gi 57650036 ref NC_002951.2 :1899905-1900388	q1	q2	OK	27.9989	37.429	0.418786	-0.79609	0.425978	0.940178
gene1807	gene1807	SACOL1846	gi 57650036 ref NC_002951.2 :1900663-1901314	q1	q2	OK	1024.52	437.979	-1.22601	1.3047	0.191996	0.819847
gene1808	gene1808	SACOL1847	gi 57650036 ref NC_002951.2 :1901394-1902390	q1	q2	OK	986.087	317.077	-1.63688	1.63489	0.102072	0.686167
gene1809	gene1809	SACOL1848	gi 57650036 ref NC_002951.2 :1902465-1903092	q1	q2	OK	55.5531	62.5038	0.170079	-0.35241	0.72453	0.986963
gene181	gene181	SACOL0187	gi 57650036 ref NC_002951.2 :218527-220303	q1	q2	OK	29.4953	43.1616	0.549265	-1.0647	0.287014	0.887342
gene1810	gene1810	SACOL1849	gi 57650036 ref NC_002951.2 :1903132-1903477	q1	q2	OK	28.2779	23.6122	-0.260141	0.42606	0.670067	0.986963
gene1811	gene1811	SACOL1850	gi 57650036 ref NC_002951.2 :1903574-1904126	q1	q2	OK	34.1253	31.5108	-0.114995	0.22499	0.821985	0.992727
gene1812	gene1812	SACOL1851	gi 57650036 ref NC_002951.2 :1904343-1904985	q1	q2	OK	41.8098	38.8689	-0.105225	0.21462	0.830067	0.994686
gene1813	gene1813	SACOL1853	gi 57650036 ref NC_002951.2 :1905285-1905462	q1	q2	OK	22.8744	18.4885	-0.30711	0.2129	0.831402	0.994686
gene1814	gene1814	SACOL1854	gi 57650036 ref NC_002951.2 :1905472-1905856	q1	q2	OK	166.853	174.702	0.0663166	-0.13678	0.891203	0.996932
gene1815	gene1815	SACOL1855	gi 57650036 ref NC_002951.2 :1905957-1906735	q1	q2	OK	60.1915	43.3184	-0.47458	0.98011	0.327032	0.900129
gene1816	gene1816	SACOL1857	gi 57650036 ref NC_002951.2 :1907605-1907983	q1	q2	OK	39.3129	27.7539	-0.502311	0.89363	0.371522	0.929271
gene1817	gene1817	SACOL1858	gi 57650036 ref NC_002951.2 :1908503-1909064	q1	q2	OK	27.4402	29.363	0.097708	-0.18835	0.850605	0.996923
gene1818	gene1818	SACOL1859	gi 57650036 ref NC_002951.2 :1909268-1912319	q1	q2	OK	16.4454	23.9298	0.541124	-1.04919	0.29409	0.891156
gene1819	gene1819	SACOL1860	gi 57650036 ref NC_002951.2 :1912385-1912616	q1	q2	OK	5.49928	12.7788	1.21644	-0.96439	0.33485	0.904095
gene182	gene182	ggt	gi 57650036 ref NC_002951.2 :220340-222347	q1	q2	OK	45.3488	63.5765	0.487429	-0.8023	0.422382	0.939652
gene1820	gene1820	hsdS	gi 57650036 ref NC_002951.2 :1913465-1916214	q1	q2	OK	34.2029	44.1993	0.369907	-0.3755	0.707288	0.986963
gene1821	gene1821	hsdM2	gi 57650036 ref NC_002951.2 :1913465-1916214	q1	q2	OK	45.8941	44.6505	-0.039632	0.05036	0.959835	0.996932
gene1822	gene1822	SACOL1863	gi 57650036 ref NC_002951.2 :1916377-1916512	q1	q2	OK	28.3219	0	-1.79769e+	-1.79769e+	0.201324	0.819847
gene1823	gene1823	SACOL1864	gi 57650036 ref NC_002951.2 :1916576-1917296	q1	q2	OK	52.8884	73.591	0.476578	-0.98218	0.326012	0.900129
gene1824	gene1824	SACOL1865	gi 57650036 ref NC_002951.2 :1917446-1918163	q1	q2	OK	13.5055	23.018	0.769213	-1.44868	0.147427	0.784907
gene1825	gene1825	SACOL1866	gi 57650036 ref NC_002951.2 :1918320-1919040	q1	q2	OK	26.0244	42.5794	0.710289	-1.43909	0.150124	0.788621
gene1826	gene1826	spIC	gi 57650036 ref NC_002951.2 :1919160-1919880	q1	q2	OK	31.2713	40.6104	0.37701	-0.76994	0.441338	0.946371
gene1827	gene1827	spIB	gi 57650036 ref NC_002951.2 :1919937-1920660	q1	q2	OK	51.1407	73.9167	0.531428	-1.09481	0.273598	0.879648

gene1828	gene1828	splA	gi 57650036 ref NC_002951.2 :1920784-1921501	q1	q2	OK	51.9119	67.3215	0.375002	-0.77525	0.438193	0.943657
gene1829	gene1829	SACOL1870	gi 57650036 ref NC_002951.2 :1922464-1923031	q1	q2	OK	19.4705	25.1194	0.367513	-0.68459	0.4936	0.964002
gene183	gene183	SACOL0189	gi 57650036 ref NC_002951.2 :222644-223418	q1	q2	NOTEST	0	0	0	0	1	1
gene1830	gene1830	epiG	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	63.9309	247.681	1.9539	-1.20077	0.229841	0.86139
gene1831	gene1831	epiE	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	60.0612	161.851	1.43016	-0.79561	0.426258	0.940178
gene1832	gene1832	epiF	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	120.278	401.416	1.73872	-1.38628	0.165662	0.814226
gene1833	gene1833	epiP	gi 57650036 ref NC_002951.2 :1925672-1927046	q1	q2	OK	38.4737	66.9398	0.798992	-1.51472	0.129844	0.739318
gene1834	gene1834	epiD	gi 57650036 ref NC_002951.2 :1927055-1927574	q1	q2	OK	18.8378	25.1654	0.417815	-0.75986	0.447341	0.948742
gene1835	gene1835	epiC	gi 57650036 ref NC_002951.2 :1927589-1931820	q1	q2	OK	17.2994	28.2595	0.708017	-0.78964	0.429737	0.940178
gene1836	gene1836	epiB	gi 57650036 ref NC_002951.2 :1927589-1931820	q1	q2	OK	13.2172	17.6879	0.420348	-0.63075	0.528205	0.97289
gene1837	gene1837	epiA	gi 57650036 ref NC_002951.2 :1931884-1932028	q1	q2	OK	18.2573	63.6852	1.80249	-0.87227	0.383063	0.936672
gene1838	gene1838	SACOL1879	gi 57650036 ref NC_002951.2 :1932919-1934239	q1	q2	OK	11.4509	11.6282	0.0221649	-0.04372	0.965125	0.996932
gene1839	gene1839	lukD	gi 57650036 ref NC_002951.2 :1934670-1935654	q1	q2	OK	57.0318	77.4032	0.440626	-0.86631	0.386318	0.938503
gene184	gene184	acpD	gi 57650036 ref NC_002951.2 :223607-224234	q1	q2	OK	119.692	78.8739	-0.601702	1.2117	0.225627	0.857109
gene1840	gene1840	lukE	gi 57650036 ref NC_002951.2 :1935655-1936591	q1	q2	OK	27.889	42.4842	0.607228	-1.25311	0.210165	0.830641
gene1841	gene1841	SACOL1882	gi 57650036 ref NC_002951.2 :1937390-1937930	q1	q2	OK	43.024	49.5936	0.205014	-0.4144	0.678578	0.986963
gene1842	gene1842	SACOL1883	gi 57650036 ref NC_002951.2 :1937942-1938731	q1	q2	OK	173.453	76.1223	-1.18815	2.10536	0.0352598	0.436145
gene1843	gene1843	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1939973-1940062	q1	q2	NOTEST	0	0	0	0	1	1
gene1844	gene1844	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940116-1940188	q1	q2	NOTEST	0	0	0	0	1	1
gene1845	gene1845	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940189-1940264	q1	q2	NOTEST	0	0	0	0	1	1
gene1846	gene1846	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940278-1940352	q1	q2	NOTEST	0	0	0	0	1	1
gene1847	gene1847	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940367-1940443	q1	q2	NOTEST	0	0	0	0	1	1
gene1849	gene1849	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940545-1940621	q1	q2	NOTEST	0	0	0	0	1	1
gene185	gene185	SACOL0191	gi 57650036 ref NC_002951.2 :224442-225021	q1	q2	OK	80.3968	68.7388	-0.226014	0.46806	0.639743	0.986963
gene1850	gene1850	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940642-1940716	q1	q2	OK	36437	0	-1.79769e+	-1.79769e	0.201324	0.819847
gene1851	gene1851	SACOL1885	gi 57650036 ref NC_002951.2 :1941187-1941742	q1	q2	OK	44.3474	63.5794	0.519708	-1.06288	0.287839	0.887342
gene1852	gene1852	SACOL1886	gi 57650036 ref NC_002951.2 :1941835-1942063	q1	q2	OK	214.848	150.719	-0.511451	0.96603	0.334027	0.903556
gene1853	gene1853	hemG	gi 57650036 ref NC_002951.2 :1942064-1943465	q1	q2	OK	117.677	73.272	-0.683498	1.05036	0.29355	0.891156
gene1854	gene1854	hemH	gi 57650036 ref NC_002951.2 :1943488-1944412	q1	q2	OK	93.2673	63.3306	-0.558469	1.07958	0.280327	0.879877
gene1855	gene1855	hemE	gi 57650036 ref NC_002951.2 :1944469-1945607	q1	q2	OK	116.021	63.2393	-0.875494	1.56167	0.118367	0.725355
gene1856	gene1856	SACOL1890	gi 57650036 ref NC_002951.2 :1944469-1945607	q1	q2	OK	194.705	0	-1.79769e+	-1.79769e	0.454875	0.950243
gene1857	gene1857	SACOL1891	gi 57650036 ref NC_002951.2 :1945769-1946273	q1	q2	OK	139.154	70.3776	-0.983498	2.00493	0.0449708	0.481552
gene1858	gene1858	SACOL1892	gi 57650036 ref NC_002951.2 :1946396-1948353	q1	q2	OK	57.0958	104.777	0.875859	-0.98128	0.326456	0.900129

gene1859	gene1859	SACOL1893	gi 57650036 ref NC_002951.2 :1946396-1948353	q1	q2	OK	64.6932	127.197	0.975385	-0.8722	0.383099	0.936672
gene186	gene186	SACOL0192	gi 57650036 ref NC_002951.2 :225403-226501	q1	q2	OK	27.5049	36.2655	0.398913	-0.8256	0.409032	0.939607
gene1860	gene1860	SACOL1894	gi 57650036 ref NC_002951.2 :1948486-1948909	q1	q2	OK	115.246	83.0898	-0.471969	0.97266	0.330721	0.900771
gene1861	gene1861	SACOL1895	gi 57650036 ref NC_002951.2 :1949050-1949416	q1	q2	OK	654.434	781.029	0.255128	-0.36742	0.713307	0.986963
gene1862	gene1862	SACOL1896	gi 57650036 ref NC_002951.2 :1950148-1950706	q1	q2	OK	26.4626	31.3594	0.244944	-0.47247	0.636595	0.986963
gene1863	gene1863	SACOL1897	gi 57650036 ref NC_002951.2 :1950910-1951873	q1	q2	OK	83.5879	71.0122	-0.235228	0.45296	0.650581	0.986963
gene1864	gene1864	cbf1	gi 57650036 ref NC_002951.2 :1951993-1957054	q1	q2	OK	227.363	111.467	-1.02838	0.47025	0.638179	0.986963
gene1865	gene1865	SACOL1899	gi 57650036 ref NC_002951.2 :1951993-1957054	q1	q2	OK	136.272	89.1175	-0.612711	0.44258	0.658069	0.986963
gene1866	gene1866	SACOL1900	gi 57650036 ref NC_002951.2 :1951993-1957054	q1	q2	OK	106.845	90.7462	-0.235604	0.09698	0.92274	0.996932
gene1867	gene1867	SACOL1902	gi 57650036 ref NC_002951.2 :1957825-1958170	q1	q2	OK	336.704	245.893	-0.453453	0.90269	0.366691	0.928011
gene1868	gene1868	SACOL1903	gi 57650036 ref NC_002951.2 :1958238-1959363	q1	q2	OK	50.5531	39.4368	-0.358258	0.72768	0.466809	0.954346
gene1869	gene1869	SACOL1904	gi 57650036 ref NC_002951.2 :1959541-1960006	q1	q2	OK	37.5196	66.5149	0.826034	-1.63847	0.101324	0.686047
gene187	gene187	SACOL0193	gi 57650036 ref NC_002951.2 :226513-227785	q1	q2	OK	29.6637	42.0064	0.50191	-1.02593	0.304924	0.892668
gene1870	gene1870	SACOL1905	gi 57650036 ref NC_002951.2 :1960361-1960985	q1	q2	OK	47.0232	34.7606	-0.43592	0.88499	0.376163	0.932533
gene1871	gene1871	SACOL1906	gi 57650036 ref NC_002951.2 :1961006-1962119	q1	q2	OK	49.7262	37.3867	-0.411481	0.83883	0.401564	0.939607
gene1872	gene1872	SACOL1907	gi 57650036 ref NC_002951.2 :1962281-1963103	q1	q2	OK	108.904	45.0949	-1.27202	2.48831	0.0128352	0.262026
gene1873	gene1873	fumC	gi 57650036 ref NC_002951.2 :1963565-1964951	q1	q2	OK	262.29	94.4077	-1.47418	1.81746	0.0691466	0.584603
gene1874	gene1874	SACOL1909	gi 57650036 ref NC_002951.2 :1965146-1965542	q1	q2	OK	37.7218	34.0925	-0.145946	0.26803	0.788679	0.986986
gene1875	gene1875	SACOL1910	gi 57650036 ref NC_002951.2 :1965660-1966023	q1	q2	OK	25.0554	27.1265	0.114583	-0.19245	0.847386	0.996923
gene1876	gene1876	SACOL1911	gi 57650036 ref NC_002951.2 :1966318-1966471	q1	q2	OK	2572.42	3599.49	0.484665	-0.99994	0.317338	0.892668
gene1877	gene1877	SACOL1912	gi 57650036 ref NC_002951.2 :1966495-1967095	q1	q2	OK	919.07	1163.95	0.34078	-0.33354	0.738726	0.986963
gene1878	gene1878	SACOL1913	gi 57650036 ref NC_002951.2 :1967253-1967724	q1	q2	OK	137.135	61.4614	-1.15784	2.35716	0.0184151	0.315668
gene1879	gene1879	SACOL1914	gi 57650036 ref NC_002951.2 :1967728-1968856	q1	q2	OK	104.286	71.2086	-0.550424	0.96551	0.334291	0.903556
gene188	gene188	SACOL0194	gi 57650036 ref NC_002951.2 :227787-229056	q1	q2	OK	26.4864	36.7658	0.473113	-0.97465	0.329734	0.900771
gene1880	gene1880	SACOL1915	gi 57650036 ref NC_002951.2 :1969006-1971179	q1	q2	OK	230.041	40.9097	-2.49138	1.68056	0.0928494	0.659737
gene1881	gene1881	SACOL1916	gi 57650036 ref NC_002951.2 :1969006-1971179	q1	q2	OK	222.523	44.2797	-2.32924	2.3799	0.0173174	0.308397
gene1882	gene1882	SACOL1917	gi 57650036 ref NC_002951.2 :1971436-1972498	q1	q2	OK	132.582	102.422	-0.372364	0.60228	0.546988	0.979019
gene1883	gene1883	SACOL1918	gi 57650036 ref NC_002951.2 :1972990-1974310	q1	q2	OK	10.6473	13.2561	0.316168	-0.62533	0.531758	0.97289
gene1884	gene1884	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974496-1974580	q1	q2	NOTEST	0	0	0	0	1	1
gene1885	gene1885	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974796-1974871	q1	q2	NOTEST	0	0	0	0	1	1
gene1886	gene1886	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974878-1974952	q1	q2	NOTEST	0	0	0	0	1	1
gene1887	gene1887	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974957-1975029	q1	q2	NOTEST	0	0	0	0	1	1
gene1888	gene1888	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975040-1975113	q1	q2	NOTEST	0	0	0	0	1	1

gene1889	gene1889	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975115-1975189	q1	q2	NOTEST	0	0	0	0	1	1
gene189	gene189	SACOL0195	gi 57650036 ref NC_002951.2 :229057-229897	q1	q2	OK	25.6768	35.41	0.463691	-0.9483	0.342976	0.905587
gene1890	gene1890	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975204-1975285	q1	q2	NOTEST	0	0	0	0	1	1
gene1891	gene1891	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975290-1975366	q1	q2	NOTEST	0	0	0	0	1	1
gene1892	gene1892	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975373-1975446	q1	q2	NOTEST	0	0	0	0	1	1
gene1893	gene1893	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975464-1975540	q1	q2	NOTEST	0	0	0	0	1	1
gene1894	gene1894	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975549-1975623	q1	q2	NOTEST	0	0	0	0	1	1
gene1896	gene1896	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975768-1975844	q1	q2	NOTEST	0	0	0	0	1	1
gene1898	gene1898	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975953-1976027	q1	q2	NOTEST	0	0	0	0	1	1
gene19	gene19	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :24259-24332	q1	q2	NOTEST	0	0	0	0	1	1
gene190	gene190	SACOL0196	gi 57650036 ref NC_002951.2 :229970-231047	q1	q2	OK	59.8477	75.8608	0.342059	-0.65787	0.510622	0.971029
gene1905	gene1905	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976595-1976677	q1	q2	NOTEST	0	0	0	0	1	1
gene1906	gene1906	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976680-1976756	q1	q2	NOTEST	0	0	0	0	1	1
gene1907	gene1907	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976761-1976837	q1	q2	NOTEST	0	0	0	0	1	1
gene1908	gene1908	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976853-1976929	q1	q2	NOTEST	0	0	0	0	1	1
gene1909	gene1909	rrfD	gi 57650036 ref NC_002951.2 :1976940-1977055	q1	q2	OK	746455	351538	-1.08637	1.1344	0.256626	0.875983
gene191	gene191	SACOL0197	gi 57650036 ref NC_002951.2 :231071-232112	q1	q2	OK	50.1205	71.8008	0.518599	-1.02376	0.305949	0.892668
gene1910	gene1910	rrlD	gi 57650036 ref NC_002951.2 :1977127-1980050	q1	q2	OK	31959.1	24270.3	-0.397032	0.97092	0.331587	0.900927
gene1913	gene1913	rrsD	gi 57650036 ref NC_002951.2 :1980523-1982078	q1	q2	OK	9970.64	7944.53	-0.327724	0.40798	0.68329	0.986963
gene1914	gene1914	SACOL1919	gi 57650036 ref NC_002951.2 :1982817-1983264	q1	q2	OK	1289.67	456.784	-1.49742	1.79348	0.0728966	0.602117
gene1915	gene1915	SACOL1920	gi 57650036 ref NC_002951.2 :1983360-1984311	q1	q2	OK	115.182	119.112	0.0484018	-0.08292	0.933914	0.996932
gene1916	gene1916	bcp	gi 57650036 ref NC_002951.2 :1984316-1984772	q1	q2	OK	221.702	219.178	-0.016518	0.03174	0.974681	0.998143
gene1917	gene1917	hemL2	gi 57650036 ref NC_002951.2 :1984852-1986142	q1	q2	OK	139.852	135.795	-0.042471	0.05796	0.953783	0.996932
gene1918	gene1918	SACOL1923	gi 57650036 ref NC_002951.2 :1986434-1987529	q1	q2	OK	187.165	61.1728	-1.61335	2.4678	0.0135946	0.270921
gene1919	gene1919	SACOL1924	gi 57650036 ref NC_002951.2 :1987719-1989456	q1	q2	OK	94.0785	57.0925	-0.720564	1.10316	0.269958	0.875983
gene192	gene192	SACOL0198	gi 57650036 ref NC_002951.2 :232166-233135	q1	q2	OK	27.1718	30.4418	0.163943	-0.3382	0.735215	0.986963
gene1920	gene1920	SACOL1925	gi 57650036 ref NC_002951.2 :1989746-1990289	q1	q2	OK	136.077	48.8137	-1.47906	2.97308	0.0029483	0.105384
gene1921	gene1921	mutY	gi 57650036 ref NC_002951.2 :1990590-1991628	q1	q2	OK	40.8469	38.6548	-0.079578	0.16438	0.869436	0.996923
gene1922	gene1922	SACOL1927	gi 57650036 ref NC_002951.2 :1991779-1992757	q1	q2	OK	246.685	227.144	-0.119063	0.1489	0.881636	0.996932
gene1923	gene1923	SACOL1928	gi 57650036 ref NC_002951.2 :1993017-1993854	q1	q2	OK	59.8932	66.9002	0.159619	-0.32534	0.744922	0.986963
gene1924	gene1924	SACOL1929	gi 57650036 ref NC_002951.2 :1993862-1995380	q1	q2	OK	51.3348	52.8874	0.0429865	-0.08017	0.936104	0.996932
gene1925	gene1925	SACOL1930	gi 57650036 ref NC_002951.2 :1995394-1996505	q1	q2	OK	132.402	114.766	-0.206224	0.20396	0.838388	0.996923
gene1926	gene1926	recX	gi 57650036 ref NC_002951.2 :1995394-1996505	q1	q2	OK	58.3502	82.9252	0.507072	-0.82192	0.411125	0.939607

gene1927	gene1927	SACOL1932	gi 57650036 ref NC_002951.2 :1996765-1997575	q1	q2	OK	175.705	57.9739	-1.59968	2.82116	0.0047851	0.139714
gene1928	gene1928	SACOL1933	gi 57650036 ref NC_002951.2 :1997915-1998431	q1	q2	OK	410.349	510.219	0.314263	-0.42611	0.67003	0.986963
gene1929	gene1929	SACOL1934	gi 57650036 ref NC_002951.2 :1998561-1998723	q1	q2	OK	72.857	30.4838	-1.25703	0.94857	0.342838	0.905587
gene193	gene193	SACOL0199	gi 57650036 ref NC_002951.2 :233495-234068	q1	q2	OK	27.4835	44.3845	0.69149	-1.36742	0.171493	0.819812
gene1930	gene1930	SACOL1935	gi 57650036 ref NC_002951.2 :1998946-2000098	q1	q2	OK	80.6858	50.2082	-0.684392	1.29516	0.195264	0.819847
gene1931	gene1931	SACOL1936	gi 57650036 ref NC_002951.2 :2000357-2000888	q1	q2	OK	175.099	130.225	-0.42717	0.83893	0.401508	0.939607
gene1932	gene1932	pepS	gi 57650036 ref NC_002951.2 :2000977-2002234	q1	q2	OK	105.627	72.5064	-0.542794	0.90423	0.365874	0.92799
gene1933	gene1933	SACOL1938	gi 57650036 ref NC_002951.2 :2002236-2002443	q1	q2	OK	47.3549	74.2839	0.649538	-0.89065	0.373116	0.930383
gene1934	gene1934	SACOL1939	gi 57650036 ref NC_002951.2 :2002583-2003048	q1	q2	OK	413.888	692.785	0.743169	-1.00537	0.31472	0.892668
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	q1	q2	OK	198.931	228.016	0.196865	-0.40489	0.685556	0.986963
gene1936	gene1936	SACOL1941	gi 57650036 ref NC_002951.2 :2003607-2004825	q1	q2	OK	97.2104	152.391	0.648598	-0.9543	0.33993	0.905587
gene1937	gene1937	vraR	gi 57650036 ref NC_002951.2 :2004940-2007301	q1	q2	OK	80.5292	79.8231	-0.012705	0.01211	0.990336	0.998143
gene1938	gene1938	vraS	gi 57650036 ref NC_002951.2 :2004940-2007301	q1	q2	OK	45.3238	50.2083	0.14766	-0.15039	0.880458	0.996932
gene1939	gene1939	SACOL1944	gi 57650036 ref NC_002951.2 :2004940-2007301	q1	q2	OK	45.5628	56.0239	0.298188	-0.24327	0.807794	0.9909
gene194	gene194	uhpT	gi 57650036 ref NC_002951.2 :234222-235602	q1	q2	OK	106.161	60.4189	-0.813188	1.32679	0.184578	0.819812
gene1940	gene1940	SACOL1945	gi 57650036 ref NC_002951.2 :2007315-2007702	q1	q2	OK	28.1335	25.2385	-0.156665	0.27068	0.786634	0.986986
gene1941	gene1941	SACOL1946	gi 57650036 ref NC_002951.2 :2007918-2008677	q1	q2	OK	127.593	120.012	-0.08837	0.16334	0.870249	0.996923
gene1942	gene1942	SACOL1947	gi 57650036 ref NC_002951.2 :2009204-2010191	q1	q2	OK	21.9092	27.9519	0.351411	-0.71938	0.471905	0.958312
gene1943	gene1943	SACOL1948	gi 57650036 ref NC_002951.2 :2010621-2011035	q1	q2	OK	10.8621	14.2916	0.395857	-0.59127	0.55434	0.981439
gene1944	gene1944	SACOL1949	gi 57650036 ref NC_002951.2 :2011063-2011174	q1	q2	OK	0	408.502	1.79769e+3	1.79769e+0	0.18455	0.819812
gene1945	gene1945	SACOL1950	gi 57650036 ref NC_002951.2 :2011259-2011991	q1	q2	OK	201.702	148.3	-0.443704	0.73677	0.461264	0.950591
gene1946	gene1946	SACOL1951	gi 57650036 ref NC_002951.2 :2011992-2013306	q1	q2	OK	93.4001	52.9551	-0.818654	1.42846	0.15316	0.793468
gene1947	gene1947	SACOL1952	gi 57650036 ref NC_002951.2 :2013597-2014098	q1	q2	OK	704.153	471.528	-0.578546	0.72569	0.468029	0.954346
gene1948	gene1948	SACOL1953	gi 57650036 ref NC_002951.2 :2014179-2014272	q1	q2	NOTEST	0	0	0	0	1	1
gene1949	gene1949	SACOL1954	gi 57650036 ref NC_002951.2 :2014486-2015041	q1	q2	OK	66.2215	47.2405	-0.487275	0.99887	0.317856	0.892668
gene195	gene195	SACOL0201	gi 57650036 ref NC_002951.2 :235960-239233	q1	q2	OK	25.2835	36.715	0.538178	-0.30204	0.76262	0.986963
gene1950	gene1950	dinP	gi 57650036 ref NC_002951.2 :2015108-2016179	q1	q2	OK	140.616	87.6877	-0.681319	1.1061	0.268683	0.875983
gene1951	gene1951	SACOL1956	gi 57650036 ref NC_002951.2 :2016425-2016956	q1	q2	OK	108.958	124.15	0.188317	-0.38429	0.700762	0.986963
gene1952	gene1952	SACOL1957	gi 57650036 ref NC_002951.2 :2017125-2018487	q1	q2	OK	41.768	44.632	0.0956802	-0.1903	0.849076	0.996923
gene1953	gene1953	SACOL1958	gi 57650036 ref NC_002951.2 :2018567-2019515	q1	q2	OK	92.7678	94.177	0.0217502	-0.04022	0.967917	0.996932
gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	q1	q2	OK	136.549	80.4978	-0.762395	1.10062	0.271063	0.875983
gene1955	gene1955	gatA	gi 57650036 ref NC_002951.2 :2021723-2023181	q1	q2	OK	48.7918	48.4277	-0.010806	0.02072	0.983466	0.998143
gene1956	gene1956	gatC	gi 57650036 ref NC_002951.2 :2023182-2023485	q1	q2	OK	68.2408	86.6419	0.34443	-0.65363	0.513349	0.971029

gene1957	gene1957	SACOL1963	gi 57650036 ref NC_002951.2 :2023852-2025391	q1	q2	OK	154.766	106.282	-0.542185	0.69917	0.484444	0.963899
gene1958	gene1958	camS	gi 57650036 ref NC_002951.2 :2025479-2026679	q1	q2	OK	221.253	126.618	-0.805216	1.04319	0.296859	0.892668
gene1959	gene1959	ligA	gi 57650036 ref NC_002951.2 :2026691-2028695	q1	q2	OK	118.566	61.4302	-0.948668	1.27165	0.203498	0.821516
gene196	gene196	SACOL0202	gi 57650036 ref NC_002951.2 :235960-239233	q1	q2	OK	44.3948	53.9848	0.282161	-0.30835	0.757816	0.986963
gene1960	gene1960	pcrA	gi 57650036 ref NC_002951.2 :2028698-2031580	q1	q2	OK	85.2747	60.5889	-0.493064	0.57211	0.56725	0.985265
gene1961	gene1961	SACOL1967	gi 57650036 ref NC_002951.2 :2028698-2031580	q1	q2	OK	73.0496	53.3839	-0.452472	0.24767	0.80439	0.989625
gene1962	gene1962	SACOL1968	gi 57650036 ref NC_002951.2 :2031751-2032054	q1	q2	OK	81.1979	98.706	0.281694	-0.54574	0.585245	0.985265
gene1963	gene1963	purB	gi 57650036 ref NC_002951.2 :2032162-2033458	q1	q2	OK	79.812	88.8539	0.154829	-0.26113	0.793989	0.987472
gene1964	gene1964	sspB2	gi 57650036 ref NC_002951.2 :2034318-2035485	q1	q2	OK	18.8835	30.4989	0.691631	-1.42231	0.154936	0.797219
gene1965	gene1965	SACOL1971	gi 57650036 ref NC_002951.2 :2035515-2035842	q1	q2	OK	29.3038	32.038	0.128695	-0.21378	0.830715	0.994686
gene1966	gene1966	SACOL1972	gi 57650036 ref NC_002951.2 :2036133-2036890	q1	q2	OK	49.8243	40.5441	-0.297357	0.09177	0.926878	0.996932
gene1967	gene1967	SACOL1973	gi 57650036 ref NC_002951.2 :2036133-2036890	q1	q2	OK	75.149	66.0726	-0.185701	0.37997	0.703966	0.986963
gene1968	gene1968	nadE	gi 57650036 ref NC_002951.2 :2037160-2039444	q1	q2	OK	114.747	107.152	-0.098802	0.06804	0.945752	0.996932
gene1969	gene1969	SACOL1975	gi 57650036 ref NC_002951.2 :2037160-2039444	q1	q2	OK	113.656	108.178	-0.071273	0.06946	0.944626	0.996932
gene197	gene197	SACOL0203	gi 57650036 ref NC_002951.2 :235960-239233	q1	q2	OK	46.9726	54.4926	0.21424	-0.18011	0.857067	0.996923
gene1970	gene1970	SACOL1976	gi 57650036 ref NC_002951.2 :2039627-2040704	q1	q2	OK	39.856	38.3001	-0.05745	0.11853	0.905646	0.996932
gene1971	gene1971	pheA	gi 57650036 ref NC_002951.2 :2040723-2041518	q1	q2	OK	45.9953	48.5951	0.0793256	-0.16446	0.869367	0.996923
gene1972	gene1972	SACOL1978	gi 57650036 ref NC_002951.2 :2041542-2041665	q1	q2	OK	0	112.732	1.79769e+3	1.79769e+0	0.18455	0.819812
gene1973	gene1973	SACOL1979	gi 57650036 ref NC_002951.2 :2041707-2043270	q1	q2	OK	118.181	96.6736	-0.289801	0.40103	0.6884	0.986963
gene1974	gene1974	SACOL1980	gi 57650036 ref NC_002951.2 :2043474-2044572	q1	q2	OK	59.8635	69.3524	0.212269	-0.41083	0.681198	0.986963
gene1975	gene1975	SACOL1981	gi 57650036 ref NC_002951.2 :2044943-2045504	q1	q2	OK	262.009	165.691	-0.661123	1.16073	0.245753	0.869586
gene1976	gene1976	ppaC	gi 57650036 ref NC_002951.2 :2045556-2046486	q1	q2	OK	289.143	111.487	-1.3749	1.91261	0.0557982	0.538882
gene1977	gene1977	SACOL1983	gi 57650036 ref NC_002951.2 :2046680-2046854	q1	q2	OK	24.9122	81.0882	1.70264	-1.55274	0.120485	0.725365
gene1978	gene1978	aldA2	gi 57650036 ref NC_002951.2 :2046905-2048285	q1	q2	OK	224.352	306.623	0.450702	-0.47572	0.634272	0.986963
gene1979	gene1979	SACOL1985	gi 57650036 ref NC_002951.2 :2048404-2049433	q1	q2	OK	87.5235	113.135	0.370302	-0.64717	0.517525	0.971416
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	q1	q2	OK	83.4386	60.7735	-0.457272	0.63266	0.526956	0.97289
gene1980	gene1980	SACOL1986	gi 57650036 ref NC_002951.2 :2049702-2050104	q1	q2	OK	37.7427	80.1883	1.08719	-2.11374	0.0345377	0.435799
gene1981	gene1981	SACOL1987	gi 57650036 ref NC_002951.2 :2050676-2050850	q1	q2	OK	62.2804	222.993	1.84015	-2.33492	0.0195478	0.325064
gene1982	gene1982	SACOL1988	gi 57650036 ref NC_002951.2 :2051300-2052341	q1	q2	OK	62.054	66.0999	0.0911241	-0.17889	0.858027	0.996923
gene1983	gene1983	SACOL1989	gi 57650036 ref NC_002951.2 :2052397-2053794	q1	q2	OK	79.6039	85.7194	0.106782	-0.15764	0.87474	0.996932
gene1984	gene1984	SACOL1990	gi 57650036 ref NC_002951.2 :2052397-2053794	q1	q2	OK	60.9532	73.2894	0.265904	-0.26733	0.789215	0.986986
gene1985	gene1985	SACOL1991	gi 57650036 ref NC_002951.2 :2053853-2054378	q1	q2	OK	45.4879	101.215	1.15388	-2.35317	0.0186144	0.315668
gene1986	gene1986	SACOL1992	gi 57650036 ref NC_002951.2 :2054498-2055062	q1	q2	OK	205.262	155.37	-0.401755	0.74601	0.455661	0.950521

gene1987	gene1987	SACOL1993	gi 57650036 ref NC_002951.2 :2055127-2057417	q1	q2	OK	35.5812	64.9015	0.867135	-0.8941	0.37127	0.929271
gene1988	gene1988	SACOL1994	gi 57650036 ref NC_002951.2 :2055127-2057417	q1	q2	OK	45.9891	67.6261	0.556289	-0.68091	0.49593	0.964002
gene1989	gene1989	SACOL1995	gi 57650036 ref NC_002951.2 :2055127-2057417	q1	q2	OK	20.3282	36.0924	0.828214	-0.60564	0.544753	0.979019
gene199	gene199	pflA	gi 57650036 ref NC_002951.2 :242092-242848	q1	q2	OK	90.028	89.9612	-0.001071	0.00212	0.998305	0.998702
gene1990	gene1990	SACOL1996	gi 57650036 ref NC_002951.2 :2057417-2058691	q1	q2	OK	36.8486	50.5429	0.455899	-0.76733	0.442885	0.947261
gene1991	gene1991	SACOL1997	gi 57650036 ref NC_002951.2 :2057417-2058691	q1	q2	OK	57.8611	76.6701	0.406071	-0.45232	0.651042	0.986963
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	q1	q2	OK	85.7791	46.2212	-0.892072	0.94648	0.343903	0.906464
gene1993	gene1993	SACOL1999	gi 57650036 ref NC_002951.2 :2059373-2059472	q1	q2	NOTEST	0	0	0	0	1	1
gene1994	gene1994	SACOL2000	gi 57650036 ref NC_002951.2 :2059671-2060958	q1	q2	OK	209.72	109.937	-0.93179	1.21203	0.225502	0.857109
gene1995	gene1995	map	gi 57650036 ref NC_002951.2 :2061281-2063337	q1	q2	OK	24.628	39.2519	0.672465	-1.29228	0.19626	0.819847
gene1996	gene1996	h1b	gi 57650036 ref NC_002951.2 :2063725-2064718	q1	q2	OK	70.0198	108.532	0.632284	-1.15827	0.246755	0.869586
gene1997	gene1997	SACOL2004	gi 57650036 ref NC_002951.2 :2064955-2065828	q1	q2	OK	29.0717	40.9971	0.495909	-1.02281	0.306396	0.892668
gene1998	gene1998	SACOL2006	gi 57650036 ref NC_002951.2 :2065993-2067049	q1	q2	OK	23.2025	40.2811	0.795823	-1.63775	0.101474	0.686047
gene1999	gene1999	SACOL2007	gi 57650036 ref NC_002951.2 :2067483-2068708	q1	q2	OK	67.0049	108.736	0.698494	-1.18145	0.237425	0.863102
gene2	gene2	SACOL0003	gi 57650036 ref NC_002951.2 :3696-5051	q1	q2	OK	1057.41	437.43	-1.27342	0.58033	0.561695	0.98493
gene20	gene20	yycF	gi 57650036 ref NC_002951.2 :24951-25653	q1	q2	OK	235.842	243.45	0.0458047	-0.06825	0.945589	0.996932
gene200	gene200	SACOL0206	gi 57650036 ref NC_002951.2 :242951-243146	q1	q2	OK	3.64339	5.62445	0.626431	-0.26586	0.790345	0.986986
gene2000	gene2000	SACOL2009	gi 57650036 ref NC_002951.2 :2069079-2069925	q1	q2	OK	20.8375	29.906	0.521248	-1.0512	0.293165	0.891156
gene2001	gene2001	SACOL2010	gi 57650036 ref NC_002951.2 :2069986-2070898	q1	q2	OK	33.7701	61.1086	0.85563	-1.75198	0.0797771	0.628579
gene2002	gene2002	SACOL2011	gi 57650036 ref NC_002951.2 :2071058-2072366	q1	q2	OK	36.8464	32.4361	-0.183923	0.37683	0.706297	0.986963
gene2003	gene2003	SACOL2012	gi 57650036 ref NC_002951.2 :2073218-2073662	q1	q2	OK	54.6911	36.9419	-0.566046	1.10132	0.270757	0.875983
gene2004	gene2004	SACOL2013	gi 57650036 ref NC_002951.2 :2073767-2074205	q1	q2	OK	47.3102	41.4356	-0.191282	0.37136	0.710372	0.986963
gene2005	gene2005	SACOL2014	gi 57650036 ref NC_002951.2 :2074522-2075113	q1	q2	OK	55.0876	61.5367	0.159719	-0.33022	0.741232	0.986963
gene2006	gene2006	SACOL2015	gi 57650036 ref NC_002951.2 :2075454-2075929	q1	q2	OK	18.9023	31.215	0.723678	-1.3061	0.19152	0.819847
gene2007	gene2007	groEL	gi 57650036 ref NC_002951.2 :2076023-2077640	q1	q2	OK	74.4912	107.049	0.523131	-0.76739	0.442848	0.947261
gene2008	gene2008	groES	gi 57650036 ref NC_002951.2 :2077715-2078000	q1	q2	OK	33.9187	61.7583	0.864552	-1.45202	0.146496	0.783746
gene2009	gene2009	SACOL2018	gi 57650036 ref NC_002951.2 :2078174-2078918	q1	q2	OK	44.4455	43.1149	-0.043849	0.09074	0.927697	0.996932
gene201	gene201	SACOL0207	gi 57650036 ref NC_002951.2 :243183-244947	q1	q2	OK	27.7602	34.9586	0.332627	-0.66358	0.506959	0.969895
gene2010	gene2010	SACOL2019	gi 57650036 ref NC_002951.2 :2078942-2080202	q1	q2	OK	153.235	194.572	0.34455	-0.43302	0.665002	0.986963
gene2011	gene2011	SACOL2020	gi 57650036 ref NC_002951.2 :2080398-2081025	q1	q2	OK	247.464	123.817	-0.999005	1.72811	0.0839694	0.638501
gene2012	gene2012	SACOL2021	gi 57650036 ref NC_002951.2 :2081385-2082171	q1	q2	OK	178.232	66.6368	-1.41937	2.51329	0.011961	0.249708
gene2013	gene2013	h1d	gi 57650036 ref NC_002951.2 :2082767-2082902	q1	q2	OK	2039.17	101.074	-4.3345	3.60698	0.0003098	0.0268229
gene2014	gene2014	agrB	gi 57650036 ref NC_002951.2 :2083137-2083844	q1	q2	OK	1175.06	659.656	-0.83295	0.82805	0.407642	0.939607

gene2015	gene2015	agrD	gi 57650036 ref NC_002951.2 :2083137-2083844	q1	q2	OK	607.359	331.018	-0.875641	0.06888	0.945083	0.996932
gene2016	gene2016	argC2	gi 57650036 ref NC_002951.2 :2083868-2085161	q1	q2	OK	590.108	277.168	-1.09022	1.07445	0.282621	0.880646
gene2017	gene2017	agrA	gi 57650036 ref NC_002951.2 :2085179-2085896	q1	q2	OK	1162.11	413.582	-1.4905	1.53793	0.124067	0.732386
gene2018	gene2018	SACOL2028	gi 57650036 ref NC_002951.2 :2086262-2088703	q1	q2	OK	133.605	92.0426	-0.537599	0.38523	0.700069	0.986963
gene2019	gene2019	cscA	gi 57650036 ref NC_002951.2 :2086262-2088703	q1	q2	OK	124.572	96.066	-0.374879	0.34369	0.731078	0.986963
gene202	gene202	SACOL0208	gi 57650036 ref NC_002951.2 :245110-245455	q1	q2	OK	34.8542	16.2843	-1.09785	1.73797	0.0822169	0.630349
gene2020	gene2020	scrR	gi 57650036 ref NC_002951.2 :2088851-2089802	q1	q2	OK	84.871	82.7931	-0.035761	0.06792	0.945846	0.996932
gene2021	gene2021	SACOL2031	gi 57650036 ref NC_002951.2 :2089984-2091235	q1	q2	OK	37.1851	51.8689	0.480147	-0.96187	0.336115	0.905562
gene2022	gene2022	SACOL2033	gi 57650036 ref NC_002951.2 :2091441-2091666	q1	q2	OK	58.3173	25.561	-1.18998	1.53937	0.123714	0.732386
gene2023	gene2023	SACOL2034	gi 57650036 ref NC_002951.2 :2091725-2092805	q1	q2	OK	74.7536	82.092	0.135099	-0.25101	0.801809	0.989625
gene2024	gene2024	SACOL2035	gi 57650036 ref NC_002951.2 :2093108-2093744	q1	q2	OK	223.623	156.658	-0.513451	0.88613	0.375546	0.932533
gene2025	gene2025	SACOL2036	gi 57650036 ref NC_002951.2 :2093996-2095925	q1	q2	OK	56.292	58.9945	0.0676499	-0.11102	0.911602	0.996932
gene2026	gene2026	SACOL2037	gi 57650036 ref NC_002951.2 :2096286-2097897	q1	q2	OK	25.6553	34.8144	0.440429	-0.89286	0.37193	0.929271
gene2027	gene2027	SACOL2038	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	64.6245	70.2551	0.120523	-0.13612	0.891727	0.996932
gene2028	gene2028	SACOL2039	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	70.74	71.199	0.0093313	-0.00631	0.994962	0.998143
gene2029	gene2029	SACOL2040	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	38.3929	40.1982	0.0662931	-0.0433	0.96546	0.996932
gene203	gene203	SACOL0209	gi 57650036 ref NC_002951.2 :245644-247555	q1	q2	OK	11.8791	6.81026	-0.802646	1.60319	0.108893	0.712055
gene2030	gene2030	SACOL2041	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	68.2868	40.8799	-0.740214	0.40307	0.686896	0.986963
gene2031	gene2031	ilvD	gi 57650036 ref NC_002951.2 :2101068-2102757	q1	q2	OK	49.7419	42.6693	-0.221261	0.41227	0.680142	0.986963
gene2032	gene2032	ilvB	gi 57650036 ref NC_002951.2 :2102784-2104808	q1	q2	OK	45.9251	51.5731	0.167336	-0.29674	0.766666	0.986963
gene2033	gene2033	SACOL2044	gi 57650036 ref NC_002951.2 :2102784-2104808	q1	q2	OK	17.438	30.4904	0.806117	-0.21943	0.826319	0.992769
gene2034	gene2034	ilvC	gi 57650036 ref NC_002951.2 :2104944-2105949	q1	q2	OK	67.6314	84.9152	0.32833	-0.62689	0.530734	0.97289
gene2035	gene2035	leuA	gi 57650036 ref NC_002951.2 :2105978-2107508	q1	q2	OK	45.1908	61.1524	0.436381	-0.80495	0.42085	0.939652
gene2036	gene2036	leuB	gi 57650036 ref NC_002951.2 :2107510-2108557	q1	q2	OK	28.7079	41.0065	0.514406	-1.06303	0.28777	0.887342
gene2037	gene2037	leuC	gi 57650036 ref NC_002951.2 :2108570-2109941	q1	q2	OK	32.7025	43.0698	0.397276	-0.80202	0.422543	0.939652
gene2038	gene2038	leuD	gi 57650036 ref NC_002951.2 :2109941-2110514	q1	q2	OK	30.3463	35.5753	0.229355	-0.4517	0.651482	0.986963
gene2039	gene2039	ilvA2	gi 57650036 ref NC_002951.2 :2110528-2111797	q1	q2	OK	28.063	33.844	0.270233	-0.55813	0.576755	0.985265
gene204	gene204	SACOL0210	gi 57650036 ref NC_002951.2 :248020-249342	q1	q2	NOTEST	0	0	0	0	1	1
gene2040	gene2040	rrfE	gi 57650036 ref NC_002951.2 :2112006-2112121	q1	q2	OK	493863	244297	-1.01547	1.15448	0.248305	0.869586
gene2041	gene2041	rrlE	gi 57650036 ref NC_002951.2 :2112193-2115116	q1	q2	OK	33281.4	23940.7	-0.475247	1.16796	0.242824	0.867572
gene2042	gene2042	rrsE	gi 57650036 ref NC_002951.2 :2115662-2117217	q1	q2	OK	11801.5	9749.73	-0.275541	0.35983	0.718975	0.986963
gene2043	gene2043	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117334-2117408	q1	q2	NOTEST	0	0	0	0	1	1
gene2044	gene2044	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117427-2117513	q1	q2	NOTEST	0	0	0	0	1	1

gene2045	gene2045	SACOL2052	gi 57650036 ref NC_002951.2 :2118159-2120758	q1	q2	OK	76.185	41.1262	-0.889449	0.45183	0.651395	0.986963
gene2046	gene2046	SACOL2053	gi 57650036 ref NC_002951.2 :2118159-2120758	q1	q2	OK	69.5255	48.511	-0.519233	0.70722	0.479432	0.960423
gene2047	gene2047	rpoF	gi 57650036 ref NC_002951.2 :2121191-2122416	q1	q2	OK	410.49	294.248	-0.480314	0.49048	0.623793	0.986963
gene2048	gene2048	rsbW	gi 57650036 ref NC_002951.2 :2121191-2122416	q1	q2	OK	173.707	130.767	-0.409662	0.19674	0.84403	0.996923
gene2049	gene2049	rsbV	gi 57650036 ref NC_002951.2 :2122417-2122744	q1	q2	OK	345.053	264.543	-0.383317	0.77055	0.440975	0.946371
gene205	gene205	SACOL0211	gi 57650036 ref NC_002951.2 :248020-249342	q1	q2	OK	414.789	108.062	-1.94052	2.28167	0.0225087	0.342403
gene2050	gene2050	rsbU	gi 57650036 ref NC_002951.2 :2122863-2123865	q1	q2	OK	128.671	57.6245	-1.15893	2.0531	0.040063	0.459353
gene2051	gene2051	SACOL2058	gi 57650036 ref NC_002951.2 :2124214-2124744	q1	q2	OK	346.599	116.571	-1.57206	3.04757	0.002307	0.0958946
gene2052	gene2052	SACOL2059	gi 57650036 ref NC_002951.2 :2124214-2124744	q1	q2	OK	102.134	22.3129	-2.19452	0.56236	0.573872	0.985265
gene2053	gene2053	alr	gi 57650036 ref NC_002951.2 :2124828-2125977	q1	q2	OK	115.382	80.1993	-0.524762	0.87839	0.379734	0.932987
gene2054	gene2054	acpS	gi 57650036 ref NC_002951.2 :2126042-2126402	q1	q2	OK	116.946	82.753	-0.498953	1.01167	0.311696	0.892668
gene2055	gene2055	SACOL2062	gi 57650036 ref NC_002951.2 :2126405-2128939	q1	q2	OK	95.096	63.5136	-0.58232	0.31398	0.75354	0.986963
gene2056	gene2056	SACOL2063	gi 57650036 ref NC_002951.2 :2126405-2128939	q1	q2	OK	88.4024	73.7073	-0.262279	0.30235	0.762383	0.986963
gene2057	gene2057	SACOL2064	gi 57650036 ref NC_002951.2 :2126405-2128939	q1	q2	OK	53.1908	62.7146	0.237625	-0.1063	0.915346	0.996932
gene2058	gene2058	SACOL2065	gi 57650036 ref NC_002951.2 :2129034-2129708	q1	q2	NOTEST	0	0	0	0	1	1
gene2059	gene2059	kdpC	gi 57650036 ref NC_002951.2 :2129034-2129708	q1	q2	OK	53.4051	44.394	-0.266612	0.54147	0.588181	0.985265
gene206	gene206	SACOL0212	gi 57650036 ref NC_002951.2 :249371-251633	q1	q2	OK	345.759	86.9452	-1.99159	2.0964	0.0360471	0.441533
gene2060	gene2060	kdpB	gi 57650036 ref NC_002951.2 :2129727-2131755	q1	q2	OK	53.8535	63.928	0.247408	-0.39292	0.694382	0.986963
gene2061	gene2061	kdpA	gi 57650036 ref NC_002951.2 :2131773-2133450	q1	q2	OK	36.1851	52.2162	0.529103	-0.99611	0.319196	0.892668
gene2062	gene2062	kdpF	gi 57650036 ref NC_002951.2 :2133473-2133584	q1	q2	OK	194.705	0	-1.79769e+01	-1.79769e+01	0.201324	0.819847
gene2063	gene2063	kdpD	gi 57650036 ref NC_002951.2 :2133721-2137074	q1	q2	OK	27.263	34.3541	0.333537	-0.48777	0.625712	0.986963
gene2064	gene2064	kdpE	gi 57650036 ref NC_002951.2 :2133721-2137074	q1	q2	OK	36.8654	47.1464	0.354881	-0.27722	0.781612	0.986963
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	q1	q2	OK	216.427	65.2199	-1.7305	2.24143	0.0249982	0.367079
gene2066	gene2066	murF	gi 57650036 ref NC_002951.2 :2139479-2140838	q1	q2	OK	180.998	110.853	-0.707327	0.92593	0.354485	0.914747
gene2067	gene2067	ddl	gi 57650036 ref NC_002951.2 :2140852-2141923	q1	q2	OK	164.843	104.213	-0.661559	1.00426	0.315252	0.892668
gene2068	gene2068	ftsW	gi 57650036 ref NC_002951.2 :2142240-2143443	q1	q2	OK	87.9985	92.8049	0.0767218	-0.1303	0.896328	0.996932
gene2069	gene2069	SACOL2076	gi 57650036 ref NC_002951.2 :2143706-2143844	q1	q2	OK	6057.05	11359.1	0.907165	-1.87658	0.0605754	0.549115
gene207	gene207	SACOL0213	gi 57650036 ref NC_002951.2 :251818-253030	q1	q2	OK	443.622	113.322	-1.96891	2.28437	0.0223498	0.342403
gene2070	gene2070	SACOL2077	gi 57650036 ref NC_002951.2 :2143971-2144181	q1	q2	OK	107.547	92.4205	-0.218677	0.34774	0.728033	0.986963
gene2071	gene2071	SACOL2078	gi 57650036 ref NC_002951.2 :2144192-2144486	q1	q2	OK	35.1855	18.949	-0.892857	1.32549	0.185009	0.819812
gene2072	gene2072	cls2	gi 57650036 ref NC_002951.2 :2144651-2146136	q1	q2	OK	58.8597	64.1794	0.12483	-0.22322	0.823363	0.992727
gene2073	gene2073	SACOL2080	gi 57650036 ref NC_002951.2 :2146163-2146811	q1	q2	OK	41.2858	49.4517	0.260374	-0.53523	0.592492	0.985916
gene2074	gene2074	SACOL2081	gi 57650036 ref NC_002951.2 :2146985-2147078	q1	q2	NOTEST	0	0	0	0	1	1

gene2075	gene2075	SACOL2082	gi 57650036 ref NC_002951.2 :2147623-2148496	q1	q2	OK	266.737	138.126	-0.949433	1.35101	0.176691	0.819812
gene2076	gene2076	thiE	gi 57650036 ref NC_002951.2 :2148581-2149223	q1	q2	OK	28.1177	31.383	0.158506	-0.3143	0.753295	0.986963
gene2077	gene2077	thiM	gi 57650036 ref NC_002951.2 :2149224-2151512	q1	q2	OK	29.512	30.8199	0.0625627	-0.04943	0.960576	0.996932
gene2078	gene2078	thiD2	gi 57650036 ref NC_002951.2 :2149224-2151512	q1	q2	OK	77.2046	81.7983	0.0833838	-0.11027	0.912195	0.996932
gene2079	gene2079	SACOL2086	gi 57650036 ref NC_002951.2 :2149224-2151512	q1	q2	OK	37.5121	33.1061	-0.180262	0.14046	0.888294	0.996932
gene208	gene208	SACOL0214	gi 57650036 ref NC_002951.2 :253141-254647	q1	q2	OK	439.614	103.236	-2.09029	2.31821	0.020438	0.333246
gene2080	gene2080	SACOL2088	gi 57650036 ref NC_002951.2 :2151897-2152593	q1	q2	OK	26.113	65.9535	1.33668	-2.70402	0.0068506	0.172504
gene2081	gene2081	SACOL2089	gi 57650036 ref NC_002951.2 :2152981-2153377	q1	q2	OK	27.017	40.911	0.598621	-1.08344	0.278613	0.879877
gene2082	gene2082	ywpF	gi 57650036 ref NC_002951.2 :2153570-2154011	q1	q2	OK	91.8745	47.6095	-0.948414	1.90695	0.0565265	0.540443
gene2083	gene2083	fabZ	gi 57650036 ref NC_002951.2 :2154069-2154510	q1	q2	OK	163.758	158.698	-0.045276	0.09211	0.926614	0.996932
gene2084	gene2084	murAA	gi 57650036 ref NC_002951.2 :2154543-2155809	q1	q2	OK	262.11	287.006	0.130905	-0.14016	0.888532	0.996932
gene2085	gene2085	SACOL2093	gi 57650036 ref NC_002951.2 :2155919-2156153	q1	q2	OK	207.026	289.332	0.482912	-0.96316	0.335467	0.904788
gene2086	gene2086	atpC	gi 57650036 ref NC_002951.2 :2156714-2157119	q1	q2	OK	361.348	137.991	-1.38881	2.62966	0.0085472	0.202471
gene2087	gene2087	atpD	gi 57650036 ref NC_002951.2 :2157138-2158551	q1	q2	OK	357.896	149.629	-1.25815	1.37457	0.169266	0.814226
gene2088	gene2088	atpG	gi 57650036 ref NC_002951.2 :2158572-2159439	q1	q2	OK	287.584	126.389	-1.18612	1.68128	0.0927089	0.659737
gene2089	gene2089	atpA	gi 57650036 ref NC_002951.2 :2159469-2160978	q1	q2	OK	323.365	152.161	-1.08757	1.17578	0.239681	0.863954
gene209	gene209	SACOL0215	gi 57650036 ref NC_002951.2 :254672-256244	q1	q2	OK	626.5	294.425	-1.08942	1.03085	0.302611	0.892668
gene2090	gene2090	atpH	gi 57650036 ref NC_002951.2 :2160999-2162060	q1	q2	OK	218.238	99.5574	-1.1323	1.20744	0.227261	0.858851
gene2091	gene2091	atpF	gi 57650036 ref NC_002951.2 :2160999-2162060	q1	q2	OK	224.131	122.376	-0.873016	0.94969	0.342272	0.905587
gene2092	gene2092	atpE	gi 57650036 ref NC_002951.2 :2162257-2162470	q1	q2	OK	529.932	183.823	-1.52749	2.92328	0.0034636	0.119139
gene2093	gene2093	atpB	gi 57650036 ref NC_002951.2 :2162512-2163241	q1	q2	OK	353.735	140.884	-1.32816	1.91325	0.0557158	0.538882
gene2094	gene2094	SACOL2102	gi 57650036 ref NC_002951.2 :2163261-2163615	q1	q2	OK	225.844	113.42	-0.993651	2.02919	0.0424386	0.472836
gene2095	gene2095	SACOL2103	gi 57650036 ref NC_002951.2 :2163781-2164909	q1	q2	OK	442.824	219.082	-1.01526	1.0959	0.273122	0.879648
gene2096	gene2096	upp	gi 57650036 ref NC_002951.2 :2164932-2165562	q1	q2	OK	268.682	129.491	-1.05305	1.77108	0.0765467	0.618539
gene2097	gene2097	glyA	gi 57650036 ref NC_002951.2 :2165589-2166828	q1	q2	OK	594.828	266.172	-1.16011	1.15912	0.246409	0.869586
gene2098	gene2098	SACOL2106	gi 57650036 ref NC_002951.2 :2166854-2167379	q1	q2	OK	449.355	193.545	-1.21518	1.87982	0.0601324	0.549064
gene2099	gene2099	SACOL2107	gi 57650036 ref NC_002951.2 :2167485-2168957	q1	q2	OK	29.0409	34.5474	0.250494	-0.17241	0.863119	0.996923
gene21	gene21	yycG	gi 57650036 ref NC_002951.2 :25665-28819	q1	q2	OK	162.393	156.675	-0.051713	0.0402	0.967937	0.996932
gene210	gene210	SACOL0216	gi 57650036 ref NC_002951.2 :256690-257833	q1	q2	OK	78.7013	55.9118	-0.493234	0.93258	0.351036	0.914147
gene2100	gene2100	SACOL2108	gi 57650036 ref NC_002951.2 :2167485-2168957	q1	q2	OK	55.7903	64.6617	0.212899	-0.38332	0.701485	0.986963
gene2101	gene2101	SACOL2109	gi 57650036 ref NC_002951.2 :2169031-2170931	q1	q2	OK	79.6267	56.1881	-0.502989	0.51731	0.604938	0.986963
gene2102	gene2102	prfA	gi 57650036 ref NC_002951.2 :2169031-2170931	q1	q2	OK	83.6594	55.6017	-0.5894	0.7163	0.473807	0.95963
gene2103	gene2103	tdk	gi 57650036 ref NC_002951.2 :2170931-2171531	q1	q2	OK	132.292	79.8571	-0.728239	1.4624	0.143631	0.777278

gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	q1	q2	OK	205.232	64.5679	-1.66837	3.04464	0.0023296	0.0958946
gene2105	gene2105	rho	gi 57650036 ref NC_002951.2 :2172249-2173566	q1	q2	OK	300.718	97.8186	-1.62023	1.97533	0.0482313	0.498616
gene2106	gene2106	SACOL2114	gi 57650036 ref NC_002951.2 :2173812-2175240	q1	q2	OK	339.765	499.66	0.556409	-0.53131	0.595205	0.985953
gene2107	gene2107	SACOL2115	gi 57650036 ref NC_002951.2 :2175477-2175813	q1	q2	OK	2677.43	1135.91	-1.237	1.3618	0.17326	0.819812
gene2108	gene2108	murAB	gi 57650036 ref NC_002951.2 :2175901-2177161	q1	q2	OK	289.727	123.372	-1.23168	1.48667	0.137102	0.75996
gene2109	gene2109	fbaA	gi 57650036 ref NC_002951.2 :2177626-2178487	q1	q2	OK	458.344	117.759	-1.9606	2.51767	0.0118135	0.249708
gene211	gene211	SACOL0217	gi 57650036 ref NC_002951.2 :258146-259622	q1	q2	OK	33.9668	36.1987	0.0918117	-0.1855	0.852838	0.996923
gene2110	gene2110	SACOL2118	gi 57650036 ref NC_002951.2 :2178704-2179226	q1	q2	OK	39.6489	40.922	0.0455982	-0.09049	0.927897	0.996932
gene2111	gene2111	pyrG	gi 57650036 ref NC_002951.2 :2179334-2180945	q1	q2	OK	109.997	60.0919	-0.872222	1.31569	0.188277	0.819847
gene2112	gene2112	rpoE	gi 57650036 ref NC_002951.2 :2181280-2181811	q1	q2	OK	308.66	122.252	-1.33616	2.35135	0.0187054	0.315668
gene2113	gene2113	SACOL2121	gi 57650036 ref NC_002951.2 :2181922-2182783	q1	q2	OK	43.612	42.5022	-0.037188	0.07709	0.938549	0.996932
gene2114	gene2114	SACOL2122	gi 57650036 ref NC_002951.2 :2183206-2184010	q1	q2	OK	77.2108	42.9957	-0.844611	1.71994	0.0854434	0.638501
gene2115	gene2115	SACOL2123	gi 57650036 ref NC_002951.2 :2184139-2184811	q1	q2	OK	133.119	56.7559	-1.22987	2.4266	0.0152412	0.288253
gene2116	gene2116	SACOL2124	gi 57650036 ref NC_002951.2 :2185209-2187587	q1	q2	OK	88.3202	79.3769	-0.154023	0.09924	0.920945	0.996932
gene2117	gene2117	SACOL2125	gi 57650036 ref NC_002951.2 :2185209-2187587	q1	q2	OK	199.372	143.95	-0.46989	0.43123	0.666302	0.986963
gene2118	gene2118	luxS	gi 57650036 ref NC_002951.2 :2187897-2188368	q1	q2	OK	175.823	129.344	-0.442912	0.89305	0.37183	0.929271
gene2119	gene2119	SACOL2127	gi 57650036 ref NC_002951.2 :2188519-2188870	q1	q2	OK	327.502	128	-1.35536	2.70308	0.00687	0.172504
gene212	gene212	SACOL0218	gi 57650036 ref NC_002951.2 :259819-260176	q1	q2	OK	33.2431	32.6078	-0.02784	0.04867	0.961183	0.996932
gene2120	gene2120	pdp	gi 57650036 ref NC_002951.2 :2188883-2190185	q1	q2	OK	358.578	150.526	-1.25228	1.40136	0.161106	0.802655
gene2121	gene2121	deoC2	gi 57650036 ref NC_002951.2 :2190463-2191126	q1	q2	OK	425.131	141.244	-1.58971	2.27952	0.0226359	0.342403
gene2122	gene2122	deoD	gi 57650036 ref NC_002951.2 :2191440-2192151	q1	q2	OK	106.681	65.0823	-0.712961	1.42888	0.15304	0.793468
gene2123	gene2123	SACOL2131	gi 57650036 ref NC_002951.2 :2192271-2192715	q1	q2	OK	2936.49	2525.21	-0.21769	0.19963	0.84177	0.996923
gene2124	gene2124	SACOL2132	gi 57650036 ref NC_002951.2 :2192914-2193328	q1	q2	OK	67.5341	60.0245	-0.170063	0.34029	0.733636	0.986963
gene2125	gene2125	SACOL2133	gi 57650036 ref NC_002951.2 :2193785-2195159	q1	q2	OK	110.624	62.3883	-0.826314	1.33089	0.183225	0.819812
gene2126	gene2126	SACOL2134	gi 57650036 ref NC_002951.2 :2195830-2196061	q1	q2	OK	60.492	58.7824	-0.04136	0.06397	0.948992	0.996932
gene2127	gene2127	manA1	gi 57650036 ref NC_002951.2 :2196091-2197030	q1	q2	OK	61.5672	77.4621	0.331329	-0.6547	0.512663	0.971029
gene2128	gene2128	SACOL2136	gi 57650036 ref NC_002951.2 :2197464-2198130	q1	q2	OK	341.588	404.686	0.244547	-0.31075	0.755992	0.986963
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	q1	q2	OK	1056.99	68.7525	-3.94241	6.09331	1.11E-09	2.78E-06
gene213	gene213	SACOL0219	gi 57650036 ref NC_002951.2 :260332-260506	q1	q2	NOTEST	0	0	0	0	1	1
gene2130	gene2130	SACOL2138	gi 57650036 ref NC_002951.2 :2198603-2199584	q1	q2	OK	453.384	51.5199	-3.13753	4.02882	5.61E-05	0.0086731
gene2131	gene2131	SACOL2139	gi 57650036 ref NC_002951.2 :2199793-2200941	q1	q2	NOTEST	0	0	0	0	1	1
gene2132	gene2132	SACOL2140	gi 57650036 ref NC_002951.2 :2199793-2200941	q1	q2	OK	127.487	181.763	0.511702	-0.70754	0.479233	0.960423
gene2133	gene2133	SACOL2141	gi 57650036 ref NC_002951.2 :2201903-2202107	q1	q2	OK	136.444	93.1817	-0.550192	0.86759	0.38562	0.938503

gene2134	gene2134	SACOL2142	gi 57650036 ref NC_002951.2 :2202165-2203302	q1	q2	OK	39.6544	47.2557	0.253009	-0.51563	0.606115	0.986963
gene2135	gene2135	SACOL2143	gi 57650036 ref NC_002951.2 :2204387-2205257	q1	q2	OK	150.929	107.366	-0.491339	0.84138	0.400136	0.939607
gene2136	gene2136	SACOL2144	gi 57650036 ref NC_002951.2 :2205312-2206095	q1	q2	OK	57.0645	55.2942	-0.045466	0.09394	0.925159	0.996932
gene2137	gene2137	glmS	gi 57650036 ref NC_002951.2 :2206326-2208132	q1	q2	OK	149.293	60.776	-1.29657	1.72334	0.0848275	0.638501
gene2138	gene2138	SACOL2146	gi 57650036 ref NC_002951.2 :2208812-2210351	q1	q2	OK	78.733	38.8076	-1.02063	1.79396	0.0728195	0.602117
gene2139	gene2139	SACOL2147	gi 57650036 ref NC_002951.2 :2210385-2212518	q1	q2	OK	63.5115	62.7919	-0.01644	0.02471	0.980286	0.998143
gene214	gene214	SACOL0220	gi 57650036 ref NC_002951.2 :260531-261677	q1	q2	OK	140.352	89.7844	-0.644508	1.01005	0.312471	0.892668
gene2140	gene2140	SACOL2148	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	111.782	247.9	1.14908	-0.92508	0.354924	0.914747
gene2141	gene2141	mtlD	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	57.1935	152.234	1.41237	-1.64747	0.0994608	0.680507
gene2142	gene2142	fmtB	gi 57650036 ref NC_002951.2 :2214388-2221825	q1	q2	OK	33.7333	43.4621	0.365587	-0.40021	0.689004	0.986963
gene2143	gene2143	glmM	gi 57650036 ref NC_002951.2 :2222101-2223457	q1	q2	OK	187.007	144.5	-0.372027	0.46102	0.644783	0.986963
gene2144	gene2144	SACOL2152	gi 57650036 ref NC_002951.2 :2223483-2224416	q1	q2	OK	82.6336	58.5171	-0.497871	0.97988	0.327146	0.900129
gene2145	gene2145	SACOL2153	gi 57650036 ref NC_002951.2 :2224417-2225227	q1	q2	OK	156.223	96.7637	-0.691066	1.22428	0.220848	0.849235
gene2146	gene2146	rocF	gi 57650036 ref NC_002951.2 :2225415-2226324	q1	q2	OK	287.194	316.273	0.139145	-0.16445	0.869374	0.996923
gene2147	gene2147	SACOL2155	gi 57650036 ref NC_002951.2 :2226549-2227752	q1	q2	OK	10.6224	11.5358	0.119004	-0.23056	0.817657	0.991377
gene2149	gene2149	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228058-2228133	q1	q2	NOTEST	0	0	0	0	1	1
gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	q1	q2	OK	313.588	51.7802	-2.5984	3.65575	0.0002564	0.0243066
gene2150	gene2150	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228142-2228226	q1	q2	NOTEST	0	0	0	0	1	1
gene2151	gene2151	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228255-2228331	q1	q2	NOTEST	0	0	0	0	1	1
gene2152	gene2152	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228338-2228410	q1	q2	NOTEST	0	0	0	0	1	1
gene2153	gene2153	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228411-2228486	q1	q2	NOTEST	0	0	0	0	1	1
gene2154	gene2154	rrfF	gi 57650036 ref NC_002951.2 :2228496-2228611	q1	q2	OK	381992	276758	-0.464917	0.53693	0.591316	0.985265
gene2155	gene2155	rrlF	gi 57650036 ref NC_002951.2 :2228683-2231606	q1	q2	OK	37757.4	28699.7	-0.395723	1.38989	0.164563	0.811825
gene2156	gene2156	rrsF	gi 57650036 ref NC_002951.2 :2232152-2233707	q1	q2	OK	10491.1	8369.72	-0.325909	0.4107	0.681293	0.986963
gene2157	gene2157	SACOL2156	gi 57650036 ref NC_002951.2 :2234162-2235227	q1	q2	OK	373.188	284.337	-0.392297	0.42429	0.671351	0.986963
gene2158	gene2158	SACOL2157	gi 57650036 ref NC_002951.2 :2235374-2236817	q1	q2	OK	68.6047	84.1568	0.294772	-0.492	0.622718	0.986963
gene2159	gene2159	SACOL2158	gi 57650036 ref NC_002951.2 :2237138-2237612	q1	q2	OK	85.3395	86.7034	0.0228745	-0.04737	0.962215	0.996932
gene216	gene216	SACOL0223	gi 57650036 ref NC_002951.2 :263370-263496	q1	q2	OK	0	89.8694	1.79769e+3	1.79769e+0	0.18455	0.819812
gene2160	gene2160	SACOL2159	gi 57650036 ref NC_002951.2 :2237710-2239054	q1	q2	OK	45.6551	45.6654	0.0003285	-0.00065	0.999482	0.999482
gene2161	gene2161	SACOL2160	gi 57650036 ref NC_002951.2 :2239230-2239914	q1	q2	OK	110.48	150.628	0.44721	-0.84358	0.398903	0.939607
gene2162	gene2162	SACOL2161	gi 57650036 ref NC_002951.2 :2239932-2241120	q1	q2	OK	215.35	210.085	-0.035711	0.04261	0.966016	0.996932
gene2163	gene2163	SACOL2162	gi 57650036 ref NC_002951.2 :2241163-2241679	q1	q2	OK	109.004	73.7952	-0.562785	1.16049	0.24585	0.869586
gene2164	gene2164	SACOL2163	gi 57650036 ref NC_002951.2 :2241856-2242117	q1	q2	OK	3964.78	1178.56	-1.75022	2.15566	0.0311101	0.418808

gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	q1	q2	OK	115.709	54.7554	-1.07943	1.74044	0.0817815	0.629918
gene2166	gene2166	SACOL2165	gi 57650036 ref NC_002951.2 :2243854-2245851	q1	q2	OK	55.6445	33.1328	-0.747977	0.92877	0.35301	0.914747
gene2167	gene2167	SACOL2166	gi 57650036 ref NC_002951.2 :2243854-2245851	q1	q2	OK	48.9017	43.1321	-0.18112	0.2396	0.810641	0.991128
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	q1	q2	OK	136.905	34.6581	-1.98191	3.51257	0.0004438	0.0321701
gene2169	gene2169	SACOL2168	gi 57650036 ref NC_002951.2 :2247237-2248308	q1	q2	OK	36.2757	50.0222	0.463564	-0.94917	0.342533	0.905587
gene217	gene217	SACOL0224	gi 57650036 ref NC_002951.2 :263522-265052	q1	q2	OK	50.967	70.4774	0.467596	-0.82713	0.408164	0.939607
gene2170	gene2170	SACOL2169	gi 57650036 ref NC_002951.2 :2248314-2251252	q1	q2	OK	66.3523	64.8945	-0.03205	0.03301	0.973665	0.998143
gene2171	gene2171	SACOL2170	gi 57650036 ref NC_002951.2 :2248314-2251252	q1	q2	OK	59.7825	67.0846	0.166259	-0.13496	0.892646	0.996932
gene2172	gene2172	SACOL2171	gi 57650036 ref NC_002951.2 :2251353-2253330	q1	q2	OK	48.4032	40.8327	-0.24538	0.43849	0.661032	0.986963
gene2173	gene2173	SACOL2172	gi 57650036 ref NC_002951.2 :2253785-2255410	q1	q2	OK	14.5305	28.1497	0.954033	-1.95573	0.0504966	0.515435
gene2174	gene2174	SACOL2173	gi 57650036 ref NC_002951.2 :2255445-2255955	q1	q2	OK	2196.76	6176.27	1.49136	-1.39195	0.163938	0.811825
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	q1	q2	OK	1656.24	5434.36	1.7142	-2.09371	0.0362858	0.442299
gene2176	gene2176	SACOL2175	gi 57650036 ref NC_002951.2 :2256269-2256818	q1	q2	OK	956.664	2521.29	1.39808	-1.33723	0.181147	0.819812
gene2177	gene2177	opuD2	gi 57650036 ref NC_002951.2 :2256980-2258543	q1	q2	OK	225.497	632.642	1.48828	-1.44827	0.147541	0.784907
gene2178	gene2178	SACOL2177	gi 57650036 ref NC_002951.2 :2258849-2259851	q1	q2	OK	110.488	95.8793	-0.204594	0.35838	0.720062	0.986963
gene2179	gene2179	SACOL2178	gi 57650036 ref NC_002951.2 :2260084-2261086	q1	q2	OK	353.255	333.479	-0.083114	0.09041	0.927963	0.996932
gene218	gene218	SACOL0225	gi 57650036 ref NC_002951.2 :265413-266349	q1	q2	OK	96.1795	127.628	0.408145	-0.71457	0.474874	0.960423
gene2180	gene2180	SACOL2179	gi 57650036 ref NC_002951.2 :2261368-2262238	q1	q2	OK	221.858	235.512	0.086165	-0.11593	0.907707	0.996932
gene2181	gene2181	lacG	gi 57650036 ref NC_002951.2 :2262503-2263916	q1	q2	OK	30.7618	31.8177	0.0486928	-0.09991	0.920415	0.996932
gene2182	gene2182	lacE	gi 57650036 ref NC_002951.2 :2263933-2265963	q1	q2	OK	34.1602	42.2666	0.3072	-0.53941	0.589603	0.985265
gene2183	gene2183	lacF	gi 57650036 ref NC_002951.2 :2263933-2265963	q1	q2	OK	59.8998	66.3636	0.147841	-0.09887	0.921242	0.996932
gene2184	gene2184	lacD	gi 57650036 ref NC_002951.2 :2265984-2266965	q1	q2	OK	31.3268	34.2914	0.13045	-0.27028	0.786942	0.986986
gene2185	gene2185	lacC	gi 57650036 ref NC_002951.2 :2266968-2267901	q1	q2	OK	66.4399	74.2039	0.159446	-0.31516	0.752643	0.986963
gene2186	gene2186	lacB	gi 57650036 ref NC_002951.2 :2267913-2268429	q1	q2	OK	30.6679	34.1204	0.153906	-0.29691	0.766533	0.986963
gene2187	gene2187	SACOL2186	gi 57650036 ref NC_002951.2 :2268444-2268873	q1	q2	OK	28.4797	29.5276	0.0521304	-0.09463	0.924607	0.996932
gene2188	gene2188	SACOL2187	gi 57650036 ref NC_002951.2 :2268887-2269004	q1	q2	OK	0	193.459	1.79769e+3	1.79769e+0	0.18455	0.819812
gene2189	gene2189	lacR	gi 57650036 ref NC_002951.2 :2269240-2269996	q1	q2	OK	103.03	64.1262	-0.684077	1.36228	0.173109	0.819812
gene219	gene219	SACOL0228	gi 57650036 ref NC_002951.2 :266687-269236	q1	q2	OK	20.9862	34.957	0.736139	-1.30552	0.191716	0.819847
gene2190	gene2190	SACOL2189	gi 57650036 ref NC_002951.2 :2270246-2270978	q1	q2	OK	71.6844	69.8167	-0.038085	0.07805	0.93779	0.996932
gene2191	gene2191	SACOL2190	gi 57650036 ref NC_002951.2 :2271268-2271877	q1	q2	OK	21.5537	31.0204	0.525281	-1.01393	0.310618	0.892668
gene2192	gene2192	SACOL2191	gi 57650036 ref NC_002951.2 :2272138-2272264	q1	q2	OK	0	89.8694	1.79769e+3	1.79769e+0	0.18455	0.819812
gene2193	gene2193	SACOL2192	gi 57650036 ref NC_002951.2 :2272483-2273332	q1	q2	OK	103.218	168.903	0.7105	-1.20502	0.228194	0.858851
gene2194	gene2194	SACOL2193	gi 57650036 ref NC_002951.2 :2273401-2273818	q1	q2	OK	53.653	57.5634	0.101493	-0.20053	0.841067	0.996923

gene2195	gene2195	hysA	gi 57650036 ref NC_002951.2 :2274225-2276649	q1	q2	OK	24.3508	36.4066	0.580234	-1.08311	0.27876	0.879877
gene2196	gene2196	SACOL2195	gi 57650036 ref NC_002951.2 :2276708-2277563	q1	q2	OK	88.9986	119.006	0.419181	-0.77792	0.436619	0.943503
gene2197	gene2197	SACOL2196	gi 57650036 ref NC_002951.2 :2277773-2278589	q1	q2	OK	51.472	45.5221	-0.17722	0.36698	0.713633	0.986963
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	q1	q2	OK	117.05	448.372	1.93757	-3.45464	0.000551	0.0345903
gene2199	gene2199	budA1	gi 57650036 ref NC_002951.2 :2279671-2280376	q1	q2	OK	36.8934	46.3341	0.328713	-0.67633	0.498835	0.964618
gene22	gene22	yycH	gi 57650036 ref NC_002951.2 :25665-28819	q1	q2	OK	154.284	120.966	-0.350987	0.21166	0.832376	0.99481
gene220	gene220	SACOL0229	gi 57650036 ref NC_002951.2 :266687-269236	q1	q2	OK	19.7321	37.5427	0.927986	-0.64445	0.519285	0.971416
gene2200	gene2200	budB	gi 57650036 ref NC_002951.2 :2280412-2282077	q1	q2	OK	48.4535	50.9438	0.0723044	-0.13276	0.894387	0.996932
gene2201	gene2201	SACOL2200	gi 57650036 ref NC_002951.2 :2282356-2282452	q1	q2	OK	7337.3	0	-1.79769e+	-1.79769e	0.201324	0.819847
gene2202	gene2202	SACOL2201	gi 57650036 ref NC_002951.2 :2283266-2283866	q1	q2	OK	52.8633	38.0272	-0.475236	0.96787	0.333108	0.902303
gene2203	gene2203	SACOL2202	gi 57650036 ref NC_002951.2 :2283898-2284672	q1	q2	OK	35.7421	29.9689	-0.254161	0.51958	0.603357	0.986963
gene2204	gene2204	SACOL2203	gi 57650036 ref NC_002951.2 :2284800-2285937	q1	q2	OK	58.2871	48.0872	-0.277525	0.55151	0.581283	0.985265
gene2205	gene2205	SACOL2204	gi 57650036 ref NC_002951.2 :2285937-2286729	q1	q2	OK	146.817	70.1045	-1.06644	1.97338	0.0484518	0.498616
gene2206	gene2206	SACOL2205	gi 57650036 ref NC_002951.2 :2286768-2288129	q1	q2	OK	25.5086	37.3746	0.551073	-1.12979	0.258564	0.875983
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	q1	q2	OK	707.357	120.421	-2.55435	4.04679	5.19E-05	0.0086731
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	q1	q2	OK	444.286	100.481	-2.14456	3.72675	0.000194	0.0202933
gene2209	gene2209	truA	gi 57650036 ref NC_002951.2 :2289762-2290566	q1	q2	OK	104.708	58.7466	-0.833795	1.64166	0.100661	0.684988
gene221	gene221	SACOL0230	gi 57650036 ref NC_002951.2 :269258-269537	q1	q2	OK	58.9015	95.541	0.697816	-1.27514	0.202259	0.819847
gene2210	gene2210	SACOL2209	gi 57650036 ref NC_002951.2 :2290570-2293033	q1	q2	OK	53.1046	41.7299	-0.347753	0.19746	0.843467	0.996923
gene2211	gene2211	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	q1	q2	OK	91.5686	70.3822	-0.379643	0.29353	0.769119	0.986963
gene2212	gene2212	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	q1	q2	OK	143.956	104.353	-0.464154	0.4274	0.669085	0.986963
gene2213	gene2213	rplQ	gi 57650036 ref NC_002951.2 :2293570-2293939	q1	q2	OK	845.398	188.038	-2.16861	3.3929	0.0006916	0.040697
gene2214	gene2214	rpoA	gi 57650036 ref NC_002951.2 :2293955-2294900	q1	q2	OK	898.634	223.098	-2.01006	2.13765	0.0325452	0.420136
gene2215	gene2215	rpsK	gi 57650036 ref NC_002951.2 :2294974-2295364	q1	q2	OK	692.733	174.753	-1.98698	3.20089	0.00137	0.0637061
gene2216	gene2216	rpsM	gi 57650036 ref NC_002951.2 :2295387-2295753	q1	q2	OK	1062.13	276.93	-1.93937	2.82962	0.0046603	0.137671
gene2217	gene2217	rpmJ	gi 57650036 ref NC_002951.2 :2295775-2295889	q1	q2	OK	3927.9	1082.94	-1.8588	1.94744	0.0514825	0.51709
gene2218	gene2218	infA	gi 57650036 ref NC_002951.2 :2295920-2296139	q1	q2	OK	728.922	267.441	-1.44654	2.87933	0.0039852	0.12949
gene2219	gene2219	adk	gi 57650036 ref NC_002951.2 :2296331-2296979	q1	q2	OK	484.807	150.629	-1.68641	2.35083	0.0187314	0.315668
gene222	gene222	SACOL0231	gi 57650036 ref NC_002951.2 :269601-269736	q1	q2	NOTEST	0	0	0	0	1	1
gene2220	gene2220	secY	gi 57650036 ref NC_002951.2 :2296995-2298728	q1	q2	OK	593.296	211.062	-1.49108	1.19724	0.231212	0.863102
gene2221	gene2221	rplO	gi 57650036 ref NC_002951.2 :2296995-2298728	q1	q2	OK	913.215	455.618	-1.00313	0.52367	0.600507	0.986963
gene2222	gene2222	rpmD	gi 57650036 ref NC_002951.2 :2298744-2298924	q1	q2	OK	879.873	203.032	-2.11559	3.65086	0.0002614	0.0243066
gene2223	gene2223	rpsE	gi 57650036 ref NC_002951.2 :2298940-2299441	q1	q2	OK	990.553	174.902	-2.50169	3.25762	0.0011235	0.0559091

gene2224	gene2224	rplR	gi 57650036 ref NC_002951.2 :2299461-2299821	q1	q2	OK	1774.18	307.901	-2.52661	3.27274	0.0010651	0.0545811
gene2225	gene2225	rplF	gi 57650036 ref NC_002951.2 :2299851-2300388	q1	q2	OK	739.26	141.456	-2.38573	3.25459	0.0011356	0.0559091
gene2226	gene2226	rpsH	gi 57650036 ref NC_002951.2 :2300412-2300811	q1	q2	OK	620.321	124.7	-2.31455	3.81636	0.0001354	0.0170042
gene2227	gene2227	rpsN	gi 57650036 ref NC_002951.2 :2300842-2301028	q1	q2	OK	343.4	93.0463	-1.88387	2.81548	0.0048705	0.140572
gene2228	gene2228	rplE	gi 57650036 ref NC_002951.2 :2301050-2301590	q1	q2	OK	730.472	125.465	-2.54155	3.48198	0.0004977	0.0332187
gene2229	gene2229	rplX	gi 57650036 ref NC_002951.2 :2301616-2301934	q1	q2	OK	1592.56	317.187	-2.32794	3.3023	0.0009589	0.0512318
gene223	gene223	SACOL0232	gi 57650036 ref NC_002951.2 :269763-271023	q1	q2	OK	34.8648	43.9474	0.334007	-0.67886	0.497224	0.964002
gene2230	gene2230	rplN	gi 57650036 ref NC_002951.2 :2301969-2302338	q1	q2	OK	710.574	151.14	-2.2331	3.68695	0.000227	0.0227959
gene2231	gene2231	rpsQ	gi 57650036 ref NC_002951.2 :2302369-2302633	q1	q2	OK	1488.86	298.801	-2.31695	3.82653	0.00013	0.0170042
gene2232	gene2232	rpmC	gi 57650036 ref NC_002951.2 :2302656-2303290	q1	q2	OK	655.772	142.482	-2.20242	0.93018	0.35228	0.914147
gene2233	gene2233	rplP	gi 57650036 ref NC_002951.2 :2302656-2303290	q1	q2	OK	956.45	200.207	-2.2562	2.88282	0.0039414	0.12949
gene2234	gene2234	rpsC	gi 57650036 ref NC_002951.2 :2303292-2303946	q1	q2	OK	617.107	145.344	-2.08604	2.7425	0.0060974	0.157851
gene2235	gene2235	rplV	gi 57650036 ref NC_002951.2 :2303969-2304323	q1	q2	OK	675.654	160.485	-2.07384	3.55854	0.0003729	0.0300704
gene2236	gene2236	rpsS	gi 57650036 ref NC_002951.2 :2304351-2304630	q1	q2	OK	817.258	203.366	-2.00671	3.73728	0.000186	0.0202933
gene2237	gene2237	rplB	gi 57650036 ref NC_002951.2 :2304696-2305530	q1	q2	OK	431.403	139.696	-1.62675	2.10679	0.0351362	0.436145
gene2238	gene2238	rplW	gi 57650036 ref NC_002951.2 :2305562-2306461	q1	q2	OK	529.762	213.941	-1.30813	0.73642	0.461478	0.950591
gene2239	gene2239	rplD	gi 57650036 ref NC_002951.2 :2305562-2306461	q1	q2	OK	485.992	205.867	-1.23922	1.41243	0.157824	0.800504
gene224	gene224	gutB	gi 57650036 ref NC_002951.2 :271040-272096	q1	q2	OK	39.2357	47.5498	0.277275	-0.56905	0.569323	0.985265
gene2240	gene2240	rplC	gi 57650036 ref NC_002951.2 :2306487-2307150	q1	q2	OK	318.38	161.344	-0.980614	1.50153	0.133219	0.751714
gene2241	gene2241	rpsJ	gi 57650036 ref NC_002951.2 :2307177-2307486	q1	q2	OK	498.561	266.491	-0.903683	1.77051	0.0766426	0.618539
gene2242	gene2242	SACOL2241	gi 57650036 ref NC_002951.2 :2307842-2308232	q1	q2	OK	367.049	533.189	0.538672	-0.901	0.367588	0.928011
gene2243	gene2243	SACOL2242	gi 57650036 ref NC_002951.2 :2308423-2309758	q1	q2	OK	135.445	61.4011	-1.14137	1.76174	0.0781136	0.622677
gene2244	gene2244	topB	gi 57650036 ref NC_002951.2 :2309870-2312006	q1	q2	OK	88.1575	75.6272	-0.221177	0.29634	0.766973	0.986963
gene2245	gene2245	SACOL2245	gi 57650036 ref NC_002951.2 :2312192-2313080	q1	q2	OK	47.2808	60.1879	0.34822	-0.71425	0.475074	0.960423
gene2246	gene2246	SACOL2246	gi 57650036 ref NC_002951.2 :2313260-2314124	q1	q2	OK	68.3799	92.2003	0.4312	-0.84541	0.397884	0.939607
gene2247	gene2247	SACOL2247	gi 57650036 ref NC_002951.2 :2314240-2314372	q1	q2	OK	67.0227	0	-1.79769e+01	-1.79769e+01	0.117533	0.723345
gene2248	gene2248	SACOL2248	gi 57650036 ref NC_002951.2 :2314542-2315451	q1	q2	OK	48.2824	57.9015	0.262104	-0.53727	0.591085	0.985265
gene2249	gene2249	SACOL2250	gi 57650036 ref NC_002951.2 :2315583-2315748	q1	q2	OK	41.1774	41.0524	-0.004386	0.00353	0.997184	0.998434
gene225	gene225	SACOL0234	gi 57650036 ref NC_002951.2 :272097-272244	q1	q2	OK	80.1742	0	-1.79769e+01	-1.79769e+01	0.0370172	0.444619
gene2250	gene2250	SACOL2251	gi 57650036 ref NC_002951.2 :2315992-2316310	q1	q2	OK	113.421	141.514	0.319252	-0.64891	0.516394	0.971416
gene2251	gene2251	SACOL2252	gi 57650036 ref NC_002951.2 :2316496-2319664	q1	q2	OK	94.5143	77.1715	-0.292464	0.32878	0.74232	0.986963
gene2252	gene2252	femX	gi 57650036 ref NC_002951.2 :2319780-2321046	q1	q2	OK	117.829	67.2651	-0.808759	1.31657	0.187982	0.819847
gene2253	gene2253	SACOL2255	gi 57650036 ref NC_002951.2 :2321677-2322442	q1	q2	OK	81.8772	65.4062	-0.324035	0.65723	0.511035	0.971029

gene2254	gene2254	SACOL2256	gi 57650036 ref NC_002951.2 :2322603-2324248	q1	q2	OK	17.4391	31.7397	0.863959	-0.73126	0.464619	0.952374
gene2255	gene2255	SACOL2257	gi 57650036 ref NC_002951.2 :2322603-2324248	q1	q2	OK	24.2762	35.0757	0.530932	-0.99022	0.322065	0.89482
gene2256	gene2256	sarV	gi 57650036 ref NC_002951.2 :2324349-2324700	q1	q2	OK	90.3016	36.908	-1.29082	2.42294	0.0153956	0.288253
gene2257	gene2257	SACOL2259	gi 57650036 ref NC_002951.2 :2324825-2324996	q1	q2	OK	6.80896	11.1565	0.712373	-0.30234	0.762395	0.986963
gene2258	gene2258	SACOL2260	gi 57650036 ref NC_002951.2 :2325052-2325196	q1	q2	OK	73.029	31.8426	-1.19751	0.65307	0.513713	0.971029
gene2259	gene2259	moaA	gi 57650036 ref NC_002951.2 :2325390-2326413	q1	q2	OK	186.431	112.369	-0.730402	1.08563	0.277642	0.879877
gene226	gene226	SACOL0235	gi 57650036 ref NC_002951.2 :272267-273311	q1	q2	OK	71.0909	84.7554	0.25364	-0.4768	0.633508	0.986963
gene2260	gene2260	mobA	gi 57650036 ref NC_002951.2 :2326432-2327032	q1	q2	OK	122.9	67.4982	-0.864569	1.75025	0.0800747	0.628579
gene2261	gene2261	moaD	gi 57650036 ref NC_002951.2 :2327038-2327272	q1	q2	OK	89.4774	51.0585	-0.80937	1.28728	0.197997	0.819847
gene2262	gene2262	moaE	gi 57650036 ref NC_002951.2 :2327277-2327724	q1	q2	OK	156.891	105.065	-0.578477	1.18687	0.235279	0.863102
gene2263	gene2263	mobB	gi 57650036 ref NC_002951.2 :2327737-2329479	q1	q2	OK	285.366	248.076	-0.202028	0.15354	0.877973	0.996932
gene2264	gene2264	SACOL2266	gi 57650036 ref NC_002951.2 :2327737-2329479	q1	q2	OK	145.288	87.8948	-0.725062	0.68034	0.496289	0.964002
gene2265	gene2265	moaC	gi 57650036 ref NC_002951.2 :2329541-2330036	q1	q2	OK	146.192	93.5767	-0.643647	1.31356	0.188994	0.819847
gene2266	gene2266	moaB	gi 57650036 ref NC_002951.2 :2330037-2330544	q1	q2	OK	118.069	82.7748	-0.512366	1.05542	0.291235	0.891156
gene2267	gene2267	SACOL2269	gi 57650036 ref NC_002951.2 :2330574-2331579	q1	q2	OK	113.41	79.608	-0.510569	0.90931	0.363185	0.925845
gene2268	gene2268	modC	gi 57650036 ref NC_002951.2 :2331748-2332354	q1	q2	OK	71.7216	63.73	-0.170435	0.35317	0.723959	0.986963
gene2269	gene2269	modB	gi 57650036 ref NC_002951.2 :2332354-2333026	q1	q2	OK	72.1924	62.7018	-0.20334	0.42015	0.674378	0.986963
gene227	gene227	ispD	gi 57650036 ref NC_002951.2 :273838-275573	q1	q2	OK	128.092	98.0122	-0.386142	0.33938	0.734323	0.986963
gene2270	gene2270	modA	gi 57650036 ref NC_002951.2 :2333039-2333822	q1	q2	OK	157.069	148.039	-0.085422	0.14517	0.884575	0.996932
gene2271	gene2271	fdhD	gi 57650036 ref NC_002951.2 :2334111-2334909	q1	q2	OK	142.475	183.761	0.367124	-0.60103	0.547823	0.979019
gene2272	gene2272	SACOL2274	gi 57650036 ref NC_002951.2 :2335080-2335851	q1	q2	OK	26.508	28.7729	0.118283	-0.23863	0.811396	0.991128
gene2273	gene2273	SACOL2275	gi 57650036 ref NC_002951.2 :2335922-2336477	q1	q2	OK	119.558	157.35	0.396263	-0.78429	0.432871	0.940247
gene2274	gene2274	SACOL2276	gi 57650036 ref NC_002951.2 :2336597-2337539	q1	q2	OK	58.187	48.7668	-0.254797	0.51995	0.603101	0.986963
gene2275	gene2275	SACOL2277	gi 57650036 ref NC_002951.2 :2337937-2338846	q1	q2	OK	266.413	101.419	-1.39334	2.01782	0.0436102	0.47611
gene2276	gene2276	SACOL2278	gi 57650036 ref NC_002951.2 :2339059-2340214	q1	q2	OK	136.256	150.432	0.142791	-0.2028	0.839295	0.996923
gene2277	gene2277	SACOL2279	gi 57650036 ref NC_002951.2 :2340430-2341336	q1	q2	OK	36.5554	51.3767	0.491033	-1.01401	0.310577	0.892668
gene2278	gene2278	ureA	gi 57650036 ref NC_002951.2 :2341595-2341898	q1	q2	OK	59.6027	93.2223	0.645296	-1.21703	0.223592	0.853955
gene2279	gene2279	ureB	gi 57650036 ref NC_002951.2 :2341911-2344034	q1	q2	OK	36.3376	32.4335	-0.163981	0.09112	0.927397	0.996932
gene228	gene228	SACOL0237	gi 57650036 ref NC_002951.2 :273838-275573	q1	q2	OK	92.1472	113.851	0.305134	-0.32217	0.747324	0.986963
gene2280	gene2280	ureC	gi 57650036 ref NC_002951.2 :2341911-2344034	q1	q2	OK	46.4075	49.5943	0.0958174	-0.16168	0.871558	0.996923
gene2281	gene2281	ureE	gi 57650036 ref NC_002951.2 :2344046-2345181	q1	q2	OK	29.7371	32.7769	0.140416	-0.16954	0.865373	0.996923
gene2282	gene2282	ureF	gi 57650036 ref NC_002951.2 :2344046-2345181	q1	q2	OK	32.8508	32.324	-0.023324	0.03921	0.968725	0.996932
gene2283	gene2283	ureG	gi 57650036 ref NC_002951.2 :2345193-2346644	q1	q2	OK	45.6389	42.214	-0.112541	0.16093	0.872146	0.996923

gene2284	gene2284	ureD	gi 57650036 ref NC_002951.2 :2345193-2346644	q1	q2	OK	34.6203	26.6792	-0.375902	0.5492	0.582868	0.985265
gene2285	gene2285	sarR	gi 57650036 ref NC_002951.2 :2346832-2347180	q1	q2	OK	125.439	147.105	0.229858	-0.47466	0.635029	0.986963
gene2286	gene2286	SACOL2288	gi 57650036 ref NC_002951.2 :2347607-2347934	q1	q2	OK	171.427	133.644	-0.3592	0.73934	0.459701	0.950591
gene2287	gene2287	sarY	gi 57650036 ref NC_002951.2 :2347997-2348741	q1	q2	OK	19.1055	39.3453	1.0422	-2.07542	0.0379474	0.449462
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	q1	q2	OK	25.877	55.1877	1.09268	-1.98276	0.047394	0.493802
gene2289	gene2289	SACOL2291	gi 57650036 ref NC_002951.2 :2351331-2352135	q1	q2	OK	87.2263	121.112	0.473501	-0.89572	0.370405	0.929157
gene229	gene229	SACOL0238	gi 57650036 ref NC_002951.2 :275594-277289	q1	q2	OK	55.3797	56.5793	0.0309168	-0.05427	0.956722	0.996932
gene2290	gene2290	nhaC	gi 57650036 ref NC_002951.2 :2352567-2353968	q1	q2	OK	56.9616	70.0155	0.297683	-0.53756	0.590881	0.985265
gene2291	gene2291	SACOL2293	gi 57650036 ref NC_002951.2 :2354062-2355145	q1	q2	OK	72.1047	68.4514	-0.075013	0.1431	0.886212	0.996932
gene2292	gene2292	SACOL2294	gi 57650036 ref NC_002951.2 :2355392-2355815	q1	q2	OK	64.6833	40.7195	-0.667674	1.30561	0.191685	0.819847
gene2293	gene2293	SACOL2295	gi 57650036 ref NC_002951.2 :2356051-2356552	q1	q2	OK	147.381	893.618	2.60011	-3.51186	0.000445	0.0321701
gene2294	gene2294	SACOL2296	gi 57650036 ref NC_002951.2 :2356913-2357867	q1	q2	OK	340.838	146.768	-1.21555	1.5535	0.120305	0.725365
gene2295	gene2295	SACOL2297	gi 57650036 ref NC_002951.2 :2357958-2359083	q1	q2	OK	93.9707	80.4173	-0.224705	0.39763	0.690904	0.986963
gene2296	gene2296	SACOL2298	gi 57650036 ref NC_002951.2 :2359393-2360170	q1	q2	OK	102.133	46.5065	-1.13494	2.26067	0.0237797	0.353318
gene2297	gene2297	SACOL2299	gi 57650036 ref NC_002951.2 :2360191-2360443	q1	q2	OK	87.4886	63.4151	-0.464267	0.80147	0.422862	0.939652
gene2298	gene2298	SACOL2300	gi 57650036 ref NC_002951.2 :2360652-2364080	q1	q2	OK	367.908	654.134	0.830241	-0.20506	0.837522	0.996923
gene2299	gene2299	SACOL2301	gi 57650036 ref NC_002951.2 :2360652-2364080	q1	q2	OK	667.291	812.259	0.283623	-0.26167	0.793576	0.987448
gene23	gene23	yycI	gi 57650036 ref NC_002951.2 :28819-29608	q1	q2	OK	161.33	104.259	-0.629837	1.11192	0.266171	0.875983
gene230	gene230	SACOL0239	gi 57650036 ref NC_002951.2 :277716-278886	q1	q2	OK	48.1644	46.346	-0.055524	0.11178	0.911001	0.996932
gene2300	gene2300	SACOL2302	gi 57650036 ref NC_002951.2 :2364681-2365635	q1	q2	OK	178.815	146.425	-0.288304	0.4287	0.668142	0.986963
gene2301	gene2301	SACOL2303	gi 57650036 ref NC_002951.2 :2365761-2366559	q1	q2	OK	174.095	96.5015	-0.851253	1.47747	0.139551	0.763424
gene2302	gene2302	SACOL2304	gi 57650036 ref NC_002951.2 :2366943-2367636	q1	q2	OK	149.63	96.6612	-0.630395	1.19447	0.232296	0.863102
gene2303	gene2303	SACOL2305	gi 57650036 ref NC_002951.2 :2367991-2369020	q1	q2	OK	87.2106	114.766	0.39612	-0.5188	0.603898	0.986963
gene2304	gene2304	SACOL2306	gi 57650036 ref NC_002951.2 :2367991-2369020	q1	q2	OK	28.0461	45.9622	0.71265	-1.12668	0.259878	0.875983
gene2305	gene2305	SACOL2307	gi 57650036 ref NC_002951.2 :2369068-2369398	q1	q2	OK	31.6333	69.951	1.1449	-2.05376	0.0399993	0.459353
gene2306	gene2306	SACOL2308	gi 57650036 ref NC_002951.2 :2369842-2370715	q1	q2	OK	337.363	143.107	-1.23721	1.65512	0.0979011	0.673787
gene2307	gene2307	SACOL2309	gi 57650036 ref NC_002951.2 :2371101-2372481	q1	q2	OK	333.95	126.471	-1.40083	1.594	0.110937	0.717934
gene2308	gene2308	SACOL2310	gi 57650036 ref NC_002951.2 :2372760-2373299	q1	q2	OK	92.9576	62.1823	-0.58007	1.07368	0.282968	0.880646
gene2309	gene2309	SACOL2311	gi 57650036 ref NC_002951.2 :2372760-2373299	q1	q2	OK	90.3685	128.833	0.511614	-0.3875	0.69839	0.986963
gene231	gene231	ispD	gi 57650036 ref NC_002951.2 :279161-280896	q1	q2	OK	87.1529	68.0641	-0.356656	0.23571	0.813657	0.991128
gene2310	gene2310	SACOL2312	gi 57650036 ref NC_002951.2 :2373394-2373586	q1	q2	OK	90.0609	116.069	0.36601	-0.528	0.5975	0.986963
gene2311	gene2311	SACOL2313	gi 57650036 ref NC_002951.2 :2373596-2374232	q1	q2	OK	80.7322	63.0133	-0.357488	0.73803	0.460496	0.950591
gene2312	gene2312	SACOL2314	gi 57650036 ref NC_002951.2 :2374306-2375224	q1	q2	OK	39.3658	48.7398	0.308159	-0.63709	0.524068	0.972546

gene2313	gene2313	SACOL2315	gi 57650036 ref NC_002951.2 :2375491-2376022	q1	q2	OK	23.9643	18.9832	-0.336165	0.61265	0.540105	0.978583
gene2314	gene2314	SACOL2316	gi 57650036 ref NC_002951.2 :2376087-2377692	q1	q2	OK	67.7875	69.5506	0.0370429	-0.06153	0.950936	0.996932
gene2315	gene2315	SACOL2317	gi 57650036 ref NC_002951.2 :2378021-2378786	q1	q2	OK	22.3125	34.5199	0.629576	-1.26592	0.205542	0.823151
gene2316	gene2316	SACOL2318	gi 57650036 ref NC_002951.2 :2378843-2379350	q1	q2	OK	339.149	253.625	-0.419219	0.69354	0.487973	0.964002
gene2317	gene2317	SACOL2319	gi 57650036 ref NC_002951.2 :2379516-2380830	q1	q2	OK	85.9281	62.4239	-0.461032	0.80736	0.419458	0.939652
gene2318	gene2318	SACOL2320	gi 57650036 ref NC_002951.2 :2381054-2381624	q1	q2	OK	54.8016	61.8001	0.173391	-0.35778	0.720506	0.986963
gene2319	gene2319	SACOL2321	gi 57650036 ref NC_002951.2 :2382110-2382992	q1	q2	OK	193.31	287.258	0.571431	-0.75183	0.452153	0.949479
gene232	gene232	SACOL0241	gi 57650036 ref NC_002951.2 :279161-280896	q1	q2	OK	169.049	125.926	-0.424865	0.48503	0.627657	0.986963
gene2320	gene2320	SACOL2322	gi 57650036 ref NC_002951.2 :2383102-2384224	q1	q2	OK	68.5465	80.6742	0.235024	-0.43696	0.662142	0.986963
gene2321	gene2321	hutI	gi 57650036 ref NC_002951.2 :2384500-2387400	q1	q2	OK	76.0688	69.7355	-0.12541	0.08716	0.930544	0.996932
gene2322	gene2322	hutU	gi 57650036 ref NC_002951.2 :2384500-2387400	q1	q2	OK	97.1018	98.25	0.0169594	-0.01614	0.987125	0.998143
gene2323	gene2323	SACOL2325	gi 57650036 ref NC_002951.2 :2387559-2388444	q1	q2	OK	101.902	70.6133	-0.529172	1.01415	0.310509	0.892668
gene2324	gene2324	fosB	gi 57650036 ref NC_002951.2 :2388865-2389285	q1	q2	OK	41.487	46.249	0.156764	-0.30129	0.763194	0.986963
gene2325	gene2325	hutG	gi 57650036 ref NC_002951.2 :2389540-2390476	q1	q2	OK	208.339	403.073	0.952111	-1.12366	0.261155	0.875983
gene2326	gene2326	SACOL2328	gi 57650036 ref NC_002951.2 :2390765-2392025	q1	q2	OK	57.9667	126.318	1.12377	-1.82751	0.0676235	0.575602
gene2327	gene2327	rpiA	gi 57650036 ref NC_002951.2 :2392090-2392777	q1	q2	OK	92.6493	65.2948	-0.504811	1.02863	0.303654	0.892668
gene2328	gene2328	SACOL2330	gi 57650036 ref NC_002951.2 :2392950-2393604	q1	q2	OK	89.6569	78.5645	-0.190537	0.38954	0.696875	0.986963
gene2329	gene2329	SACOL2331	gi 57650036 ref NC_002951.2 :2393733-2394859	q1	q2	NOTEST	0	0	0	0	1	1
gene233	gene233	SACOL0242	gi 57650036 ref NC_002951.2 :280917-282606	q1	q2	OK	160.863	104.917	-0.616574	0.75927	0.447692	0.948742
gene2330	gene2330	galM	gi 57650036 ref NC_002951.2 :2393733-2394859	q1	q2	OK	93.884	45.0138	-1.06051	2.02679	0.0426838	0.472836
gene2331	gene2331	SACOL2333	gi 57650036 ref NC_002951.2 :2394888-2395215	q1	q2	OK	400.73	460.432	0.200358	-0.3807	0.703428	0.986963
gene2332	gene2332	SACOL2334	gi 57650036 ref NC_002951.2 :2395432-2397557	q1	q2	OK	68.6742	83.103	0.275133	-0.3287	0.742384	0.986963
gene2333	gene2333	SACOL2335	gi 57650036 ref NC_002951.2 :2395432-2397557	q1	q2	OK	51.8824	73.0084	0.492817	-0.44128	0.659008	0.986963
gene2334	gene2334	SACOL2336	gi 57650036 ref NC_002951.2 :2397626-2397725	q1	q2	NOTEST	0	0	0	0	1	1
gene2335	gene2335	SACOL2338	gi 57650036 ref NC_002951.2 :2397787-2398435	q1	q2	OK	87.6419	88.1037	0.0075822	-0.01547	0.987656	0.998143
gene2336	gene2336	SACOL2339	gi 57650036 ref NC_002951.2 :2398833-2399442	q1	q2	OK	51.5186	61.4203	0.253623	-0.52432	0.600054	0.986963
gene2337	gene2337	gltS	gi 57650036 ref NC_002951.2 :2399778-2400987	q1	q2	OK	38.1313	47.0332	0.302704	-0.61354	0.539521	0.978583
gene2338	gene2338	fni	gi 57650036 ref NC_002951.2 :2401034-2402084	q1	q2	OK	137.539	94.6902	-0.538549	0.87858	0.379632	0.932987
gene2339	gene2339	SACOL2342	gi 57650036 ref NC_002951.2 :2402114-2403062	q1	q2	OK	58.0356	44.9285	-0.369307	0.75478	0.450379	0.948742
gene234	gene234	SACOL0243	gi 57650036 ref NC_002951.2 :282641-284363	q1	q2	OK	301.414	139.612	-1.11033	1.17985	0.238061	0.863102
gene2340	gene2340	SACOL2343	gi 57650036 ref NC_002951.2 :2403158-2404066	q1	q2	OK	148.626	175.715	0.241554	-0.3514	0.725286	0.986963
gene2341	gene2341	SACOL2344	gi 57650036 ref NC_002951.2 :2403158-2404066	q1	q2	OK	100.952	123.702	0.293206	-0.31173	0.755243	0.986963
gene2342	gene2342	SACOL2345	gi 57650036 ref NC_002951.2 :2404173-2405076	q1	q2	OK	66.6358	42.7781	-0.639426	1.30219	0.19285	0.819847

gene2343	gene2343	SACOL2346	gi 57650036 ref NC_002951.2 :2405301-2405940	q1	q2	OK	54.1339	54.1946	0.0016153	-0.00334	0.997332	0.998434
gene2344	gene2344	SACOL2347	gi 57650036 ref NC_002951.2 :2406185-2408117	q1	q2	OK	50.0323	39.3126	-0.347868	0.62562	0.531562	0.97289
gene2345	gene2345	SACOL2348	gi 57650036 ref NC_002951.2 :2408129-2408777	q1	q2	OK	53.5992	36.6625	-0.547905	1.12168	0.261999	0.875983
gene2346	gene2346	SACOL2349	gi 57650036 ref NC_002951.2 :2408897-2409449	q1	q2	OK	54.0568	73.4058	0.441417	-0.91062	0.362496	0.925274
gene2347	gene2347	tcaB	gi 57650036 ref NC_002951.2 :2409678-2410887	q1	q2	OK	43.1339	46.5177	0.108959	-0.21974	0.826075	0.992769
gene2348	gene2348	SACOL2351	gi 57650036 ref NC_002951.2 :2410996-2411125	q1	q2	NOTEST	0	0	0	0	1	1
gene2349	gene2349	tcaA	gi 57650036 ref NC_002951.2 :2411155-2412538	q1	q2	OK	42.8548	38.5626	-0.152254	0.30458	0.760688	0.986963
gene235	gene235	scdA	gi 57650036 ref NC_002951.2 :284502-285177	q1	q2	OK	101.018	94.8227	-0.091313	0.18283	0.85493	0.996923
gene2350	gene2350	tcaR	gi 57650036 ref NC_002951.2 :2412777-2413233	q1	q2	OK	85.8593	40.6424	-1.07899	2.15465	0.0311896	0.418808
gene2351	gene2351	SACOL2354	gi 57650036 ref NC_002951.2 :2413427-2414396	q1	q2	OK	74.289	63.0701	-0.236191	0.46464	0.64219	0.986963
gene2352	gene2352	SACOL2355	gi 57650036 ref NC_002951.2 :2414970-2415327	q1	q2	OK	16.6216	40.191	1.27382	-2.08853	0.0367502	0.444619
gene2353	gene2353	SACOL2356	gi 57650036 ref NC_002951.2 :2415466-2417187	q1	q2	OK	21.8728	34.4763	0.656468	-0.77656	0.437418	0.943654
gene2354	gene2354	SACOL2357	gi 57650036 ref NC_002951.2 :2415466-2417187	q1	q2	OK	25.4185	35.5867	0.48546	-0.80505	0.420794	0.939652
gene2355	gene2355	SACOL2358	gi 57650036 ref NC_002951.2 :2417322-2419363	q1	q2	OK	79.3063	62.857	-0.335362	0.35906	0.719554	0.986963
gene2356	gene2356	SACOL2359	gi 57650036 ref NC_002951.2 :2417322-2419363	q1	q2	OK	52.5775	39.298	-0.41999	0.5597	0.575684	0.985265
gene2357	gene2357	SACOL2360	gi 57650036 ref NC_002951.2 :2419525-2420421	q1	q2	OK	63.9465	39.9782	-0.677649	1.06918	0.284987	0.885647
gene2358	gene2358	SACOL2361	gi 57650036 ref NC_002951.2 :2419525-2420421	q1	q2	OK	37.8909	29.5141	-0.360449	0.47282	0.636345	0.986963
gene2359	gene2359	mqa1	gi 57650036 ref NC_002951.2 :2420486-2421965	q1	q2	OK	327.771	260.864	-0.329387	0.33176	0.740067	0.986963
gene236	gene236	lytS	gi 57650036 ref NC_002951.2 :285423-287178	q1	q2	OK	90.4594	98.9994	0.13015	-0.17969	0.857396	0.996923
gene2360	gene2360	SACOL2363	gi 57650036 ref NC_002951.2 :2422345-2423944	q1	q2	OK	375.285	49.7694	-2.91466	3.47893	0.0005034	0.0332187
gene2361	gene2361	SACOL2364	gi 57650036 ref NC_002951.2 :2424260-2425934	q1	q2	OK	47.0115	41.591	-0.176743	0.33383	0.738512	0.986963
gene2362	gene2362	SACOL2365	gi 57650036 ref NC_002951.2 :2426086-2426716	q1	q2	OK	402.646	666.375	0.726823	-0.83961	0.401128	0.939607
gene2363	gene2363	SACOL2366	gi 57650036 ref NC_002951.2 :2427029-2427545	q1	q2	OK	168.34	156.319	-0.106885	0.20988	0.833758	0.995988
gene2364	gene2364	SACOL2367	gi 57650036 ref NC_002951.2 :2427735-2428740	q1	q2	OK	83.6748	81.377	-0.040171	0.07534	0.939946	0.996932
gene2365	gene2365	SACOL2368	gi 57650036 ref NC_002951.2 :2428785-2429187	q1	q2	OK	84.9211	98.2759	0.210714	-0.43249	0.665387	0.986963
gene2366	gene2366	SACOL2369	gi 57650036 ref NC_002951.2 :2429222-2430257	q1	q2	OK	106.009	99.1495	-0.096512	0.16716	0.867247	0.996923
gene2367	gene2367	SACOL2371	gi 57650036 ref NC_002951.2 :2430488-2430920	q1	q2	OK	72.5858	42.9629	-0.756595	1.49782	0.134179	0.751793
gene2368	gene2368	SACOL2372	gi 57650036 ref NC_002951.2 :2430971-2431064	q1	q2	NOTEST	0	0	0	0	1	1
gene2369	gene2369	SACOL2373	gi 57650036 ref NC_002951.2 :2431126-2432404	q1	q2	OK	31.484	35.9807	0.192607	-0.39613	0.692013	0.986963
gene237	gene237	lytR	gi 57650036 ref NC_002951.2 :287180-287921	q1	q2	OK	20.8231	30.3189	0.542034	-1.07581	0.282012	0.880646
gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	q1	q2	OK	91.5047	43.1511	-1.08445	2.2133	0.0268769	0.377263
gene2371	gene2371	SACOL2375	gi 57650036 ref NC_002951.2 :2433233-2434178	q1	q2	OK	80.4614	53.4324	-0.590581	1.16779	0.242892	0.867572
gene2372	gene2372	SACOL2376	gi 57650036 ref NC_002951.2 :2434263-2435706	q1	q2	OK	49.9108	63.0652	0.33749	-0.62441	0.532358	0.97289

gene2373	gene2373	SACOL2377	gi 57650036 ref NC_002951.2 :2435888-2436272	q1	q2	OK	166.315	158.282	-0.071415	0.14757	0.882685	0.996932
gene2374	gene2374	SACOL2378	gi 57650036 ref NC_002951.2 :2437759-2439865	q1	q2	OK	59.3239	52.1901	-0.184837	0.29522	0.767828	0.986963
gene2375	gene2375	SACOL2379	gi 57650036 ref NC_002951.2 :2439935-2440358	q1	q2	OK	363.958	715.893	0.975974	-1.42621	0.153808	0.793468
gene2376	gene2376	SACOL2380	gi 57650036 ref NC_002951.2 :2440453-2440576	q1	q2	NOTEST	0	0	0	0	1	1
gene2377	gene2377	SACOL2381	gi 57650036 ref NC_002951.2 :2440622-2440979	q1	q2	OK	55.4052	77.3487	0.481355	-0.93647	0.34903	0.913467
gene2378	gene2378	SACOL2382	gi 57650036 ref NC_002951.2 :2441382-2442660	q1	q2	OK	105.711	122.673	0.214686	-0.32017	0.748839	0.986963
gene2379	gene2379	SACOL2383	gi 57650036 ref NC_002951.2 :2442841-2443207	q1	q2	OK	42.8848	53.3667	0.315473	-0.5924	0.553585	0.981439
gene238	gene238	lrgA	gi 57650036 ref NC_002951.2 :288033-289171	q1	q2	OK	23.1385	31.8814	0.462418	-0.51965	0.603308	0.986963
gene2380	gene2380	sarZ	gi 57650036 ref NC_002951.2 :2443604-2444051	q1	q2	OK	42.8641	39.5245	-0.117022	0.22612	0.821112	0.992727
gene2381	gene2381	SACOL2385	gi 57650036 ref NC_002951.2 :2444266-2444695	q1	q2	OK	153.078	126.7	-0.272851	0.56197	0.57414	0.985265
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	q1	q2	OK	29.3376	44.3368	0.595754	-1.22201	0.221705	0.849926
gene2383	gene2383	SACOL2387	gi 57650036 ref NC_002951.2 :2446340-2447974	q1	q2	OK	51.3039	69.7071	0.442239	-0.73935	0.459697	0.950591
gene2384	gene2384	SACOL2388	gi 57650036 ref NC_002951.2 :2446340-2447974	q1	q2	OK	20.8231	32.2139	0.629497	-0.60648	0.544196	0.979019
gene2385	gene2385	SACOL2389	gi 57650036 ref NC_002951.2 :2448231-2448885	q1	q2	OK	82.265	49.1028	-0.744473	1.53054	0.125882	0.732386
gene2386	gene2386	SACOL2390	gi 57650036 ref NC_002951.2 :2448907-2449942	q1	q2	OK	140.456	82.7022	-0.764116	1.26918	0.204376	0.822403
gene2387	gene2387	SACOL2391	gi 57650036 ref NC_002951.2 :2449965-2450418	q1	q2	OK	148.278	71.9134	-1.04397	2.13113	0.0330781	0.42162
gene2388	gene2388	narI	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	89.0627	80.8988	-0.138703	0.06369	0.949216	0.996932
gene2389	gene2389	narJ	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	21.9254	20.7282	-0.081013	0.01698	0.986451	0.998143
gene239	gene239	lrgB	gi 57650036 ref NC_002951.2 :288033-289171	q1	q2	OK	28.8564	37.4342	0.375464	-0.65056	0.515329	0.971416
gene2390	gene2390	narH	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	34.3256	49.2582	0.521082	-0.28018	0.779341	0.986963
gene2391	gene2391	narG	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	35.5558	46.2668	0.379891	-0.32313	0.746596	0.986963
gene2392	gene2392	SACOL2396	gi 57650036 ref NC_002951.2 :2457223-2458506	q1	q2	OK	76.7495	88.463	0.204917	-0.35427	0.723135	0.986963
gene2393	gene2393	nirD	gi 57650036 ref NC_002951.2 :2457223-2458506	q1	q2	OK	54.7049	62.8719	0.200745	-0.12176	0.903089	0.996932
gene2394	gene2394	nirB	gi 57650036 ref NC_002951.2 :2458509-2460915	q1	q2	OK	53.0726	60.9112	0.19874	-0.29505	0.767955	0.986963
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	q1	q2	OK	82.5705	97.5027	0.239815	-0.47846	0.632322	0.986963
gene2396	gene2396	SACOL2400	gi 57650036 ref NC_002951.2 :2461941-2462478	q1	q2	OK	56.2617	70.5415	0.326318	-0.67268	0.50115	0.965124
gene2397	gene2397	SACOL2401	gi 57650036 ref NC_002951.2 :2462710-2463535	q1	q2	OK	59.9316	61.1497	0.0290293	-0.0595	0.952554	0.996932
gene2398	gene2398	SACOL2402	gi 57650036 ref NC_002951.2 :2464017-2464485	q1	q2	OK	30.9523	61.1807	0.983028	-1.91869	0.0550236	0.538882
gene2399	gene2399	SACOL2403	gi 57650036 ref NC_002951.2 :2464670-2466221	q1	q2	OK	37.477	40.9802	0.128922	-0.25427	0.79929	0.989562
gene24	gene24	yycJ	gi 57650036 ref NC_002951.2 :29997-30798	q1	q2	OK	66.9654	93.8945	0.487623	-0.97033	0.331883	0.900927
gene240	gene240	SACOL0249	gi 57650036 ref NC_002951.2 :289278-289983	q1	q2	OK	69.256	101.277	0.548292	-1.10597	0.268738	0.875983
gene2400	gene2400	SACOL2404	gi 57650036 ref NC_002951.2 :2466515-2467033	q1	q2	OK	53.0818	54.3187	0.0332321	-0.04134	0.967028	0.996932
gene2401	gene2401	SACOL2405	gi 57650036 ref NC_002951.2 :2466515-2467033	q1	q2	OK	99.9869	85.7969	-0.220813	0.33067	0.740892	0.986963

gene2402	gene2402	SACOL2406	gi 57650036 ref NC_002951.2 :2467197-2467296	q1	q2	NOTEST	0	0	0	0	1	1
gene2403	gene2403	SACOL2407	gi 57650036 ref NC_002951.2 :2467305-2467905	q1	q2	OK	196.158	69.0827	-1.50562	2.85632	0.0042858	0.131239
gene2404	gene2404	SACOL2408	gi 57650036 ref NC_002951.2 :2467923-2468295	q1	q2	OK	184.137	153.637	-0.261257	0.53951	0.589535	0.985265
gene2405	gene2405	fmhA	gi 57650036 ref NC_002951.2 :2468540-2469791	q1	q2	OK	31.7355	38.9945	0.297173	-0.60997	0.541881	0.979019
gene2406	gene2406	SACOL2410	gi 57650036 ref NC_002951.2 :2469887-2472095	q1	q2	OK	469.543	294.434	-0.673312	0.43655	0.662441	0.986963
gene2407	gene2407	SACOL2411	gi 57650036 ref NC_002951.2 :2469887-2472095	q1	q2	OK	310.163	246.185	-0.333287	0.18447	0.853646	0.996923
gene2408	gene2408	SACOL2412	gi 57650036 ref NC_002951.2 :2469887-2472095	q1	q2	OK	241.492	123.321	-0.969556	0.44662	0.655149	0.986963
gene2409	gene2409	SACOL2413	gi 57650036 ref NC_002951.2 :2472215-2473613	q1	q2	OK	85.2278	75.4116	-0.176537	0.29303	0.769496	0.986963
gene241	gene241	SACOL0250	gi 57650036 ref NC_002951.2 :290131-290923	q1	q2	OK	20.7883	25.1768	0.276325	-0.54881	0.583138	0.985265
gene2410	gene2410	SACOL2414	gi 57650036 ref NC_002951.2 :2473829-2473934	q1	q2	OK	546.116	0	-1.79769e+	-1.79769e	0.201324	0.819847
gene2411	gene2411	gpmA	gi 57650036 ref NC_002951.2 :2474087-2474774	q1	q2	OK	137.076	196.409	0.518881	-0.90668	0.364574	0.926565
gene2412	gene2412	SACOL2416	gi 57650036 ref NC_002951.2 :2475099-2475966	q1	q2	OK	61.2939	48.1205	-0.349091	0.71616	0.473891	0.95963
gene2413	gene2413	SACOL2418	gi 57650036 ref NC_002951.2 :2476717-2478028	q1	q2	OK	74.9164	54.854	-0.449684	0.82304	0.410483	0.939607
gene2414	gene2414	hlgA	gi 57650036 ref NC_002951.2 :2478563-2479493	q1	q2	OK	34.9463	64.7688	0.890158	-1.81423	0.0696422	0.586817
gene2415	gene2415	SACOL2420	gi 57650036 ref NC_002951.2 :2479556-2479682	q1	q2	NOTEST	0	0	0	0	1	1
gene2416	gene2416	hlgC	gi 57650036 ref NC_002951.2 :2480060-2481008	q1	q2	OK	55.9576	75.86	0.439007	-0.87235	0.383016	0.936672
gene2417	gene2417	hlgB	gi 57650036 ref NC_002951.2 :2481009-2481987	q1	q2	OK	45.5923	60.361	0.404826	-0.82282	0.410613	0.939607
gene2418	gene2418	SACOL2423	gi 57650036 ref NC_002951.2 :2482038-2482506	q1	q2	OK	11.994	22.2475	0.891328	-1.47903	0.139132	0.763035
gene2419	gene2419	bioW	gi 57650036 ref NC_002951.2 :2482516-2483209	q1	q2	OK	39.5042	62.1948	0.654789	-1.35014	0.176971	0.819812
gene242	gene242	bglA	gi 57650036 ref NC_002951.2 :290938-292375	q1	q2	OK	53.4294	68.2169	0.352494	-0.63887	0.522907	0.972546
gene2420	gene2420	SACOL2425	gi 57650036 ref NC_002951.2 :2483219-2485320	q1	q2	OK	42.2432	56.254	0.413237	-0.55218	0.580826	0.985265
gene2421	gene2421	bioB	gi 57650036 ref NC_002951.2 :2483219-2485320	q1	q2	OK	35.1417	49.8345	0.50396	-0.58786	0.556629	0.981874
gene2422	gene2422	bioA	gi 57650036 ref NC_002951.2 :2485321-2487344	q1	q2	OK	29.8263	48.0062	0.686638	-1.00798	0.313464	0.892668
gene2423	gene2423	bioD	gi 57650036 ref NC_002951.2 :2485321-2487344	q1	q2	OK	41.748	60.0503	0.524463	-0.5798	0.562047	0.98493
gene2424	gene2424	SACOL2429	gi 57650036 ref NC_002951.2 :2487564-2487708	q1	q2	OK	54.7718	95.5278	0.802488	-0.58247	0.560251	0.984802
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	q1	q2	OK	27.7015	41.0054	0.56585	-1.11331	0.265575	0.875983
gene2426	gene2426	SACOL2431	gi 57650036 ref NC_002951.2 :2489553-2491317	q1	q2	OK	29.7172	39.1402	0.397353	-0.7805	0.435095	0.94183
gene2427	gene2427	SACOL2433	gi 57650036 ref NC_002951.2 :2491944-2492052	q1	q2	OK	306.492	0	-1.79769e+	-1.79769e	0.201324	0.819847
gene2428	gene2428	SACOL2434	gi 57650036 ref NC_002951.2 :2492186-2492573	q1	q2	OK	96.6094	72.4797	-0.414586	0.83978	0.401032	0.939607
gene2429	gene2429	SACOL2435	gi 57650036 ref NC_002951.2 :2492840-2493983	q1	q2	OK	85.2301	82.766	-0.042324	0.07547	0.939839	0.996932
gene243	gene243	SACOL0252	gi 57650036 ref NC_002951.2 :292808-293570	q1	q2	OK	32.9556	52.5046	0.671918	-1.38345	0.166527	0.814226
gene2430	gene2430	SACOL2436	gi 57650036 ref NC_002951.2 :2494042-2494702	q1	q2	OK	160.399	140.747	-0.188559	0.34727	0.728388	0.986963
gene2431	gene2431	bcr	gi 57650036 ref NC_002951.2 :2494883-2496095	q1	q2	OK	162.395	82.8712	-0.970567	1.43973	0.149942	0.788621

gene2432	gene2432	SACOL2438	gi 57650036 ref NC_002951.2 :2496217-2496691	q1	q2	OK	79.2709	110.762	0.482605	-0.99847	0.31805	0.892668
gene2433	gene2433	SACOL2439	gi 57650036 ref NC_002951.2 :2496803-2497460	q1	q2	OK	167.784	105.949	-0.663234	1.2453	0.213022	0.831197
gene2434	gene2434	SACOL2440	gi 57650036 ref NC_002951.2 :2497522-2498329	q1	q2	OK	57.9982	78.7997	0.442182	-0.89712	0.369655	0.928204
gene2435	gene2435	SACOL2441	gi 57650036 ref NC_002951.2 :2498614-2500024	q1	q2	OK	152.783	101.398	-0.591464	0.80346	0.421709	0.939652
gene2436	gene2436	SACOL2442	gi 57650036 ref NC_002951.2 :2500161-2502240	q1	q2	OK	71.9652	42.9603	-0.744295	1.17545	0.239815	0.863954
gene2437	gene2437	SACOL2443	gi 57650036 ref NC_002951.2 :2502379-2504209	q1	q2	OK	199.127	54.5116	-1.86905	2.35425	0.01856	0.315668
gene2438	gene2438	SACOL2445	gi 57650036 ref NC_002951.2 :2504440-2505937	q1	q2	OK	51.4503	53.4305	0.0544858	-0.10187	0.918864	0.996932
gene2439	gene2439	SACOL2446	gi 57650036 ref NC_002951.2 :2506028-2506880	q1	q2	OK	97.3467	67.5744	-0.526656	1.02827	0.303821	0.892668
gene244	gene244	rbsK	gi 57650036 ref NC_002951.2 :293820-294735	q1	q2	OK	113.302	106.728	-0.086244	0.1537	0.877845	0.996932
gene2440	gene2440	SACOL2448	gi 57650036 ref NC_002951.2 :2507201-2508137	q1	q2	OK	81.2551	49.6819	-0.709737	1.4078	0.159191	0.801753
gene2441	gene2441	SACOL2449	gi 57650036 ref NC_002951.2 :2508362-2509763	q1	q2	OK	77.6067	88.3606	0.187222	-0.30642	0.759284	0.986963
gene2442	gene2442	SACOL2450	gi 57650036 ref NC_002951.2 :2510056-2511693	q1	q2	OK	69.3421	65.6958	-0.077929	0.07221	0.942438	0.996932
gene2443	gene2443	SACOL2451	gi 57650036 ref NC_002951.2 :2510056-2511693	q1	q2	OK	89.2999	95.2695	0.0933564	-0.12278	0.902281	0.996932
gene2444	gene2444	SACOL2452	gi 57650036 ref NC_002951.2 :2511709-2513568	q1	q2	OK	57.7013	60.9712	0.0795261	-0.04975	0.960321	0.996932
gene2445	gene2445	SACOL2453	gi 57650036 ref NC_002951.2 :2511709-2513568	q1	q2	OK	115.288	99.2835	-0.215622	0.27494	0.783366	0.986963
gene2446	gene2446	SACOL2454	gi 57650036 ref NC_002951.2 :2513894-2514014	q1	q2	OK	153.189	145.199	-0.077277	0.03837	0.969393	0.996932
gene2447	gene2447	SACOL2456	gi 57650036 ref NC_002951.2 :2514237-2515000	q1	q2	OK	117.265	74.153	-0.661199	1.33885	0.180621	0.819812
gene2448	gene2448	SACOL2457	gi 57650036 ref NC_002951.2 :2514237-2515000	q1	q2	OK	0	33.4694	1.79769e+3	1.79769e+3	0.318085	0.892668
gene2449	gene2449	SACOL2458	gi 57650036 ref NC_002951.2 :2515016-2516654	q1	q2	OK	114.507	48.1631	-1.24944	1.89639	0.0579087	0.540443
gene245	gene245	SACOL0254	gi 57650036 ref NC_002951.2 :294762-295167	q1	q2	OK	68.151	42.8249	-0.670287	1.30677	0.19129	0.819847
gene2450	gene2450	pnbA	gi 57650036 ref NC_002951.2 :2517261-2518614	q1	q2	OK	113.856	139.898	0.297168	-0.41095	0.681111	0.986963
gene2451	gene2451	SACOL2460	gi 57650036 ref NC_002951.2 :2518675-2519863	q1	q2	OK	38.0096	48.4103	0.34895	-0.70748	0.47927	0.960423
gene2452	gene2452	SACOL2461	gi 57650036 ref NC_002951.2 :2520258-2521690	q1	q2	OK	65.8061	81.4421	0.307554	-0.32255	0.74704	0.986963
gene2453	gene2453	SACOL2462	gi 57650036 ref NC_002951.2 :2520258-2521690	q1	q2	OK	100.664	148.128	0.55729	-0.68308	0.494556	0.964002
gene2454	gene2454	pepA2	gi 57650036 ref NC_002951.2 :2521937-2523014	q1	q2	OK	150.383	129.836	-0.211955	0.31551	0.752371	0.986963
gene2455	gene2455	SACOL2464	gi 57650036 ref NC_002951.2 :2523368-2523892	q1	q2	OK	133.294	72.9423	-0.869788	1.23864	0.215479	0.836273
gene2456	gene2456	SACOL2465	gi 57650036 ref NC_002951.2 :2523368-2523892	q1	q2	OK	131.003	89.7962	-0.544873	0.77589	0.437816	0.943654
gene2457	gene2457	SACOL2466	gi 57650036 ref NC_002951.2 :2523997-2524192	q1	q2	OK	10.9302	28.1222	1.3634	-1.0809	0.279741	0.879877
gene2458	gene2458	SACOL2467	gi 57650036 ref NC_002951.2 :2524250-2524706	q1	q2	OK	180.99	67.2534	-1.42823	2.87124	0.0040887	0.129958
gene2459	gene2459	SACOL2469	gi 57650036 ref NC_002951.2 :2524873-2526451	q1	q2	OK	71.4662	87.1988	0.287047	-0.452	0.651271	0.986963
gene246	gene246	SACOL0255	gi 57650036 ref NC_002951.2 :295181-296063	q1	q2	OK	65.0313	67.3231	0.0499686	-0.10067	0.919812	0.996932
gene2460	gene2460	SACOL2470	gi 57650036 ref NC_002951.2 :2526645-2527395	q1	q2	OK	32.2434	35.6657	0.145535	-0.2976	0.766008	0.986963
gene2461	gene2461	SACOL2471	gi 57650036 ref NC_002951.2 :2527618-2528812	q1	q2	OK	36.9975	49.5615	0.421795	-0.85394	0.39314	0.939607

gene2462	gene2462	SACOL2472	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	22.6898	30.7704	0.439501	-0.26666	0.789729	0.986986
gene2463	gene2463	SACOL2473	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	21.6254	29.4432	0.445209	-0.27875	0.780434	0.986963
gene2464	gene2464	SACOL2474	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	62.8459	75.8102	0.270572	-0.29131	0.770815	0.986963
gene2465	gene2465	SACOL2475	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	33.6176	37.2175	0.146767	-0.11811	0.90598	0.996932
gene2466	gene2466	SACOL2476	gi 57650036 ref NC_002951.2 :2532191-2533790	q1	q2	OK	43.3333	47.1549	0.121932	-0.23208	0.816474	0.991377
gene2467	gene2467	SACOL2477	gi 57650036 ref NC_002951.2 :2533932-2535147	q1	q2	OK	21.5537	29.5932	0.457327	-0.94544	0.344434	0.906576
gene2468	gene2468	SACOL2478	gi 57650036 ref NC_002951.2 :2535226-2536045	q1	q2	OK	21.8813	32.8375	0.585646	-1.18343	0.236639	0.863102
gene2469	gene2469	SACOL2479	gi 57650036 ref NC_002951.2 :2536055-2536877	q1	q2	OK	20.7183	29.7875	0.5238	-1.05244	0.292599	0.891156
gene247	gene247	SACOL0257	gi 57650036 ref NC_002951.2 :296294-297293	q1	q2	OK	106.151	102.712	-0.047511	0.08306	0.933802	0.996932
gene2470	gene2470	SACOL2480	gi 57650036 ref NC_002951.2 :2537024-2537156	q1	q2	NOTEST	0	0	0	0	1	1
gene2471	gene2471	SACOL2481	gi 57650036 ref NC_002951.2 :2537619-2537985	q1	q2	OK	44.6472	74.2807	0.734417	-1.41141	0.158124	0.800504
gene2472	gene2472	fabG2	gi 57650036 ref NC_002951.2 :2538247-2539066	q1	q2	OK	177.185	284.315	0.68223	-0.95016	0.342032	0.905587
gene2473	gene2473	SACOL2483	gi 57650036 ref NC_002951.2 :2539298-2540837	q1	q2	OK	98.142	90.1936	-0.121845	0.18006	0.857109	0.996923
gene2474	gene2474	SACOL2484	gi 57650036 ref NC_002951.2 :2540948-2541371	q1	q2	OK	247.345	490.285	0.987093	-1.67218	0.0944898	0.662748
gene2475	gene2475	SACOL2485	gi 57650036 ref NC_002951.2 :2541822-2542242	q1	q2	OK	93.5761	196.697	1.07177	-2.18618	0.0288026	0.393061
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	q1	q2	OK	46.0966	182.767	1.98727	-3.94486	7.98E-05	0.0111385
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	q1	q2	OK	8.1993	20.91	1.35062	-2.02253	0.043122	0.472836
gene2478	gene2478	SACOL2488	gi 57650036 ref NC_002951.2 :2543618-2544314	q1	q2	OK	184.546	257.373	0.479878	-0.7451	0.456209	0.950521
gene2479	gene2479	SACOL2489	gi 57650036 ref NC_002951.2 :2544761-2544884	q1	q2	OK	60.4721	0	-1.79769e+	-1.79769e+	0.201324	0.819847
gene248	gene248	SACOL0258	gi 57650036 ref NC_002951.2 :297443-297623	q1	q2	OK	189.673	177.653	-0.094451	0.14558	0.884255	0.996932
gene2480	gene2480	SACOL2491	gi 57650036 ref NC_002951.2 :2545143-2545335	q1	q2	OK	168.375	54.9801	-1.6147	2.1517	0.0314211	0.419308
gene2481	gene2481	SACOL2492	gi 57650036 ref NC_002951.2 :2545769-2545892	q1	q2	NOTEST	0	0	0	0	1	1
gene2482	gene2482	SACOL2493	gi 57650036 ref NC_002951.2 :2545895-2546690	q1	q2	OK	31.9566	36.9323	0.208771	-0.42916	0.66781	0.986963
gene2483	gene2483	SACOL2494	gi 57650036 ref NC_002951.2 :2547225-2547513	q1	q2	NOTEST	0	0	0	0	1	1
gene2484	gene2484	SACOL2495	gi 57650036 ref NC_002951.2 :2547515-2547842	q1	q2	NOTEST	0	0	0	0	1	1
gene2485	gene2485	SACOL2496	gi 57650036 ref NC_002951.2 :2548053-2549948	q1	q2	NOTEST	0	0	0	0	1	1
gene2486	gene2486	SACOL2497	gi 57650036 ref NC_002951.2 :2548053-2549948	q1	q2	NOTEST	0	0	0	0	1	1
gene2487	gene2487	SACOL2498	gi 57650036 ref NC_002951.2 :2550059-2550836	q1	q2	OK	42.4126	56.5199	0.414267	-0.85728	0.39129	0.939607
gene2488	gene2488	SACOL2499	gi 57650036 ref NC_002951.2 :2551138-2554000	q1	q2	OK	35.3711	40.4752	0.194467	-0.31797	0.750509	0.986963
gene2489	gene2489	SACOL2500	gi 57650036 ref NC_002951.2 :2554001-2554394	q1	q2	OK	57.3413	102.478	0.837662	-1.68405	0.0921716	0.659441
gene249	gene249	SACOL0259	gi 57650036 ref NC_002951.2 :297672-298065	q1	q2	OK	30.9953	33.9496	0.131346	-0.23673	0.812866	0.991128
gene2490	gene2490	SACOL2501	gi 57650036 ref NC_002951.2 :2554510-2556319	q1	q2	OK	40.6033	65.2991	0.685464	-1.18636	0.235479	0.863102
gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	q1	q2	OK	42.4654	138.125	1.70161	-2.99916	0.0027073	0.101128

gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	q1	q2	OK	14.0556	45.9828	1.70995	-2.5609	0.0104402	0.238321
gene2493	gene2493	SACOL2504	gi 57650036 ref NC_002951.2 :2557642-2558836	q1	q2	OK	51.9995	78.8538	0.600684	-1.1286	0.259065	0.875983
gene2494	gene2494	SACOL2505	gi 57650036 ref NC_002951.2 :2559219-2562951	q1	q2	OK	62.7139	57.1585	-0.133819	0.16029	0.872655	0.996923
gene2495	gene2495	sarT	gi 57650036 ref NC_002951.2 :2563255-2563612	q1	q2	OK	9.2342	25.0246	1.43829	-2.05692	0.0396935	0.459329
gene2496	gene2496	sarU	gi 57650036 ref NC_002951.2 :2563935-2564679	q1	q2	OK	13.8766	20.2617	0.546094	-1.03067	0.302698	0.892668
gene2497	gene2497	galU	gi 57650036 ref NC_002951.2 :2564889-2565756	q1	q2	OK	95.254	53.7249	-0.826188	1.62637	0.103871	0.689999
gene2498	gene2498	fnbB	gi 57650036 ref NC_002951.2 :2565935-2568758	q1	q2	OK	69.4297	79.2409	0.190691	-0.2354	0.813901	0.991128
gene2499	gene2499	SACOL2510	gi 57650036 ref NC_002951.2 :2568918-2569041	q1	q2	NOTEST	0	0	0	0	1	1
gene25	gene25	SACOL0024	gi 57650036 ref NC_002951.2 :31025-33344	q1	q2	OK	47.8003	51.9391	0.1198	-0.19198	0.847758	0.996923
gene250	gene250	SACOL0260	gi 57650036 ref NC_002951.2 :298292-298697	q1	q2	NOTEST	0	0	0	0	1	1
gene2500	gene2500	fnbA	gi 57650036 ref NC_002951.2 :2569439-2572496	q1	q2	OK	101.51	112.268	0.145326	-0.15435	0.877335	0.996932
gene2501	gene2501	SACOL2513	gi 57650036 ref NC_002951.2 :2572737-2572932	q1	q2	OK	3.64339	11.2489	1.62643	-0.78707	0.431241	0.940181
gene2502	gene2502	gntP	gi 57650036 ref NC_002951.2 :2572963-2574322	q1	q2	OK	82.8724	65.4324	-0.340886	0.59007	0.555146	0.98167
gene2503	gene2503	gntK	gi 57650036 ref NC_002951.2 :2574438-2575992	q1	q2	OK	33.3057	37.1294	0.156796	-0.31426	0.753326	0.986963
gene2504	gene2504	gntR	gi 57650036 ref NC_002951.2 :2576015-2576696	q1	q2	OK	37.0425	46.1771	0.317996	-0.65272	0.513938	0.971029
gene2505	gene2505	SACOL2517	gi 57650036 ref NC_002951.2 :2576849-2577614	q1	q2	OK	113.309	101.743	-0.155331	0.29661	0.766764	0.986963
gene2506	gene2506	SACOL2518	gi 57650036 ref NC_002951.2 :2577778-2578471	q1	q2	OK	50.3182	70.2284	0.480974	-0.99411	0.320169	0.894022
gene2507	gene2507	SACOL2519	gi 57650036 ref NC_002951.2 :2578701-2579190	q1	q2	OK	572.607	1021.01	0.834382	-0.95818	0.337971	0.905587
gene2508	gene2508	SACOL2520	gi 57650036 ref NC_002951.2 :2579256-2581149	q1	q2	OK	50.6949	104.312	1.04099	-1.51852	0.128884	0.738783
gene2509	gene2509	SACOL2521	gi 57650036 ref NC_002951.2 :2581557-2582835	q1	q2	OK	452.348	167.105	-1.43668	1.55163	0.12075	0.725365
gene251	gene251	SACOL0261	gi 57650036 ref NC_002951.2 :298737-300114	q1	q2	OK	62.8789	61.0136	-0.043445	0.07964	0.936524	0.996932
gene2510	gene2510	SACOL2522	gi 57650036 ref NC_002951.2 :2583381-2583993	q1	q2	OK	79.3649	116.13	0.549162	-1.11454	0.265046	0.875983
gene2511	gene2511	SACOL2523	gi 57650036 ref NC_002951.2 :2584089-2585710	q1	q2	OK	22.3102	40.9691	0.876835	-1.6058	0.108319	0.711606
gene2512	gene2512	SACOL2524	gi 57650036 ref NC_002951.2 :2584089-2585710	q1	q2	OK	18.3689	32.3206	0.815185	-0.72399	0.469071	0.955262
gene2513	gene2513	SACOL2525	gi 57650036 ref NC_002951.2 :2586137-2586833	q1	q2	OK	34.671	41.9938	0.276446	-0.56578	0.571545	0.985265
gene2514	gene2514	SACOL2526	gi 57650036 ref NC_002951.2 :2586834-2587605	q1	q2	OK	27.4685	31.92	0.216683	-0.43969	0.660159	0.986963
gene2515	gene2515	SACOL2527	gi 57650036 ref NC_002951.2 :2587977-2589942	q1	q2	OK	112.129	190.846	0.767246	-0.8565	0.391722	0.939607
gene2516	gene2516	SACOL2528	gi 57650036 ref NC_002951.2 :2590285-2591365	q1	q2	OK	78.0534	61.6059	-0.341394	0.65145	0.514758	0.971416
gene2517	gene2517	SACOL2529	gi 57650036 ref NC_002951.2 :2591469-2592063	q1	q2	OK	53.8822	80.0574	0.571226	-1.18028	0.237889	0.863102
gene2518	gene2518	SACOL2530	gi 57650036 ref NC_002951.2 :2592084-2593053	q1	q2	OK	70.5312	89.98	0.351344	-0.66971	0.50304	0.965124
gene2519	gene2519	SACOL2531	gi 57650036 ref NC_002951.2 :2593130-2593565	q1	q2	OK	77.4207	46.1209	-0.747298	1.49126	0.135894	0.754931
gene252	gene252	SACOL0262	gi 57650036 ref NC_002951.2 :300347-301340	q1	q2	OK	47.5685	46.8401	-0.022265	0.0457	0.963553	0.996932
gene2520	gene2520	SACOL2532	gi 57650036 ref NC_002951.2 :2593791-2594076	q1	q2	OK	55.8662	104.217	0.899547	-1.65947	0.0970216	0.671133

gene2521	gene2521	SACOL2533	gi 57650036 ref NC_002951.2 :2594246-2595053	q1	q2	OK	272.591	239.153	-0.188807	0.25227	0.800835	0.989625
gene2522	gene2522	frp	gi 57650036 ref NC_002951.2 :2595172-2595844	q1	q2	OK	493.162	409.454	-0.26836	0.31608	0.751945	0.986963
gene2523	gene2523	SACOL2535	gi 57650036 ref NC_002951.2 :2596113-2597106	q1	q2	OK	1154.13	970.911	-0.249399	0.22654	0.820778	0.992727
gene2524	gene2524	SACOL2536	gi 57650036 ref NC_002951.2 :2597354-2598155	q1	q2	OK	61.8424	77.2116	0.320222	-0.64988	0.515768	0.971416
gene2525	gene2525	SACOL2537	gi 57650036 ref NC_002951.2 :2598475-2599111	q1	q2	OK	12.8775	20.7127	0.685661	-1.24487	0.213178	0.831197
gene2526	gene2526	SACOL2538	gi 57650036 ref NC_002951.2 :2599116-2599848	q1	q2	OK	28.7559	28.6489	-0.005376	0.01082	0.991369	0.998143
gene2527	gene2527	srtA	gi 57650036 ref NC_002951.2 :2600007-2600628	q1	q2	OK	252.797	189.776	-0.41368	0.68374	0.494141	0.964002
gene2528	gene2528	SACOL2541	gi 57650036 ref NC_002951.2 :2600821-2601313	q1	q2	OK	44.7667	47.0283	0.0711023	-0.1417	0.887316	0.996932
gene2529	gene2529	SACOL2542	gi 57650036 ref NC_002951.2 :2601750-2601921	q1	q2	OK	61.2807	11.1565	-2.45755	1.41768	0.156284	0.797219
gene253	gene253	lytM	gi 57650036 ref NC_002951.2 :301647-302616	q1	q2	OK	106.664	166.673	0.643951	-1.0234	0.306118	0.892668
gene2530	gene2530	SACOL2543	gi 57650036 ref NC_002951.2 :2601982-2602081	q1	q2	NOTEST	0	0	0	0	1	1
gene2531	gene2531	sdaAA	gi 57650036 ref NC_002951.2 :2602099-2602999	q1	q2	OK	71.3383	58.9967	-0.274043	0.55073	0.581821	0.985265
gene2532	gene2532	sdaAB	gi 57650036 ref NC_002951.2 :2603012-2603693	q1	q2	OK	51.0463	60.5079	0.245315	-0.50837	0.611191	0.986963
gene2533	gene2533	SACOL2546	gi 57650036 ref NC_002951.2 :2603695-2604739	q1	q2	OK	36.7347	40.9958	0.158333	-0.32723	0.743497	0.986963
gene2534	gene2534	SACOL2547	gi 57650036 ref NC_002951.2 :2605290-2605494	q1	q2	OK	20.7632	17.7489	-0.226302	0.20626	0.83659	0.996923
gene2535	gene2535	SACOL2548	gi 57650036 ref NC_002951.2 :2605649-2606612	q1	q2	OK	81.6948	102.536	0.327807	-0.60449	0.545516	0.979019
gene2536	gene2536	SACOL2549	gi 57650036 ref NC_002951.2 :2606693-2607662	q1	q2	OK	224.89	156.582	-0.522303	0.71953	0.471816	0.958312
gene2537	gene2537	SACOL2550	gi 57650036 ref NC_002951.2 :2607794-2608139	q1	q2	OK	128.237	66.7656	-0.941636	1.8743	0.0608895	0.549977
gene2538	gene2538	SACOL2551	gi 57650036 ref NC_002951.2 :2608180-2608591	q1	q2	OK	167.344	93.8254	-0.834769	1.71209	0.0868801	0.638501
gene2539	gene2539	SACOL2552	gi 57650036 ref NC_002951.2 :2608970-2611037	q1	q2	OK	67.4257	45.4798	-0.568073	0.90791	0.363927	0.926565
gene254	gene254	SACOL0264	gi 57650036 ref NC_002951.2 :302667-303327	q1	q2	OK	37.921	45.9921	0.278389	-0.57043	0.568385	0.985265
gene2540	gene2540	SACOL2553	gi 57650036 ref NC_002951.2 :2611337-2613077	q1	q2	OK	131.208	208.568	0.66866	-0.74894	0.453894	0.949773
gene2541	gene2541	SACOL2554	gi 57650036 ref NC_002951.2 :2613123-2614201	q1	q2	OK	153.6	258.592	0.751501	-1.1384	0.254954	0.875983
gene2542	gene2542	SACOL2554.1	gi 57650036 ref NC_002951.2 :2613123-2614201	q1	q2	OK	28.0365	34.0925	0.282148	-0.10746	0.914427	0.996932
gene2543	gene2543	SACOL2555	gi 57650036 ref NC_002951.2 :2614413-2615298	q1	q2	OK	36.8204	44.4393	0.271331	-0.56218	0.573996	0.985265
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	q1	q2	OK	3335.71	697.257	-2.25823	3.50982	0.0004484	0.0321701
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	q1	q2	OK	38.7124	56.7535	0.551913	-1.07476	0.282484	0.880646
gene2546	gene2546	SACOL2559	gi 57650036 ref NC_002951.2 :2617256-2617514	q1	q2	OK	79.1206	25.9027	-1.61095	2.44845	0.0143474	0.279274
gene2547	gene2547	SACOL2560	gi 57650036 ref NC_002951.2 :2618092-2619370	q1	q2	OK	108.213	104.682	-0.047859	0.07363	0.941306	0.996932
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	q1	q2	OK	161.726	59.7885	-1.43561	2.23403	0.025481	0.368182
gene2549	gene2549	ogt	gi 57650036 ref NC_002951.2 :2620959-2621481	q1	q2	OK	507.899	243.973	-1.05782	1.55176	0.120719	0.725365
gene255	gene255	SACOL0265	gi 57650036 ref NC_002951.2 :303340-305424	q1	q2	OK	24.7553	34.2121	0.466771	-0.59777	0.549996	0.979019
gene2550	gene2550	SACOL2563	gi 57650036 ref NC_002951.2 :2621889-2623995	q1	q2	OK	93.3427	190.401	1.02843	-1.15484	0.248154	0.869586

gene2551	gene2551	feoB	gi 57650036 ref NC_002951.2 :2624246-2626241	q1	q2	OK	52.2311	56.9191	0.124001	-0.20498	0.837589	0.996923
gene2552	gene2552	SACOL2565	gi 57650036 ref NC_002951.2 :2626252-2626480	q1	q2	OK	44.1206	16.1485	-1.45005	1.67814	0.0933197	0.660073
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	q1	q2	OK	34.4663	31.0664	-0.149834	0.27298	0.784871	0.986986
gene2554	gene2554	SACOL2567	gi 57650036 ref NC_002951.2 :2629392-2629878	q1	q2	OK	18.2459	21.3633	0.227566	-0.3998	0.689301	0.986963
gene2555	gene2555	SACOL2568	gi 57650036 ref NC_002951.2 :2629954-2630122	q1	q2	OK	44.8521	0	-1.79769e+1	-1.79769e	0.0274133	0.380118
gene2556	gene2556	SACOL2569	gi 57650036 ref NC_002951.2 :2630233-2631778	q1	q2	OK	376.573	213.182	-0.820846	0.82884	0.407194	0.939607
gene2557	gene2557	SACOL2570	gi 57650036 ref NC_002951.2 :2631967-2632567	q1	q2	OK	75.6723	50.7029	-0.577698	1.19154	0.233442	0.863102
gene2558	gene2558	SACOL2571	gi 57650036 ref NC_002951.2 :2632805-2632997	q1	q2	OK	113.555	54.9801	-1.04641	1.35365	0.175848	0.819812
gene2559	gene2559	SACOL2572	gi 57650036 ref NC_002951.2 :2633236-2635645	q1	q2	OK	152.863	113.52	-0.429295	0.46224	0.643913	0.986963
gene256	gene256	SACOL0266	gi 57650036 ref NC_002951.2 :303340-305424	q1	q2	OK	28.1514	32.9173	0.225636	-0.3405	0.733483	0.986963
gene2560	gene2560	SACOL2573	gi 57650036 ref NC_002951.2 :2635935-2636142	q1	q2	OK	77.9962	61.9033	-0.333389	0.47476	0.634961	0.986963
gene2561	gene2561	SACOL2574	gi 57650036 ref NC_002951.2 :2636231-2637230	q1	q2	OK	93.8919	100.282	0.0949875	-0.17033	0.864755	0.996923
gene2562	gene2562	SACOL2575	gi 57650036 ref NC_002951.2 :2637252-2638407	q1	q2	OK	88.1794	93.9859	0.0920028	-0.15869	0.873911	0.996932
gene2563	gene2563	crtN	gi 57650036 ref NC_002951.2 :2638833-2640342	q1	q2	OK	57.719	96.7207	0.744779	-1.20646	0.227641	0.858851
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	q1	q2	OK	49.5796	126.945	1.35639	-2.55652	0.0105726	0.23854
gene2565	gene2565	SACOL2578	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	114.783	234.477	1.03054	-0.61656	0.537524	0.97806
gene2566	gene2566	SACOL2579	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	124.423	221.876	0.834495	-0.58698	0.557216	0.981874
gene2567	gene2567	SACOL2580	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	154.358	192.114	0.315683	-0.108	0.913999	0.996932
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	q1	q2	OK	57.7219	161.548	1.48477	-2.74248	0.0060978	0.157851
gene2569	gene2569	SACOL2582	gi 57650036 ref NC_002951.2 :2645663-2647475	q1	q2	OK	55.7276	56.4126	0.0176239	-0.03007	0.976009	0.998143
gene257	gene257	SACOL0267	gi 57650036 ref NC_002951.2 :305491-307015	q1	q2	OK	56.0561	52.355	-0.098543	0.18154	0.855946	0.996923
gene2570	gene2570	SACOL2583	gi 57650036 ref NC_002951.2 :2647986-2648475	q1	q2	NOTEST	0	0	0	0	1	1
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	q1	q2	OK	175.742	377.398	1.10263	-1.55621	0.119658	0.725365
gene2572	gene2572	SACOL2585	gi 57650036 ref NC_002951.2 :2650059-2651115	q1	q2	OK	43.9283	56.9387	0.374258	-0.75746	0.448777	0.948742
gene2573	gene2573	SACOL2587	gi 57650036 ref NC_002951.2 :2651491-2652094	q1	q2	OK	45.5691	33.6656	-0.436781	0.88093	0.378358	0.932987
gene2574	gene2574	SACOL2588	gi 57650036 ref NC_002951.2 :2652291-2652792	q1	q2	OK	20.2083	19.1104	-0.080589	0.14272	0.886512	0.996932
gene2575	gene2575	SACOL2589	gi 57650036 ref NC_002951.2 :2653011-2653242	q1	q2	OK	62.3251	51.1151	-0.286063	0.43523	0.663396	0.986963
gene2576	gene2576	SACOL2590	gi 57650036 ref NC_002951.2 :2653391-2653769	q1	q2	OK	74.1961	62.9539	-0.237047	0.46955	0.638677	0.986963
gene2577	gene2577	SACOL2591	gi 57650036 ref NC_002951.2 :2653785-2654607	q1	q2	OK	58.9674	69.0903	0.228566	-0.46631	0.640997	0.986963
gene2578	gene2578	SACOL2592	gi 57650036 ref NC_002951.2 :2654626-2654926	q1	q2	OK	16.7879	31.4856	0.907266	-1.33332	0.182426	0.819812
gene2579	gene2579	SACOL2593	gi 57650036 ref NC_002951.2 :2655056-2656311	q1	q2	OK	27.3546	35.5877	0.379594	-0.54065	0.588747	0.985265
gene258	gene258	SACOL0268	gi 57650036 ref NC_002951.2 :307285-307939	q1	q2	NOTEST	0	0	0	0	1	1
gene2580	gene2580	SACOL2594	gi 57650036 ref NC_002951.2 :2655056-2656311	q1	q2	OK	25.2428	24.3064	-0.054537	0.08147	0.935068	0.996932

gene2581	gene2581	SACOL2595	gi 57650036 ref NC_002951.2 :2656320-2657419	q1	q2	NOTEST	0	0	0	0	1	1
gene2582	gene2582	SACOL2596	gi 57650036 ref NC_002951.2 :2656320-2657419	q1	q2	OK	62.7551	56.8387	-0.142858	0.28511	0.775559	0.986963
gene2583	gene2583	SACOL2597	gi 57650036 ref NC_002951.2 :2657438-2658269	q1	q2	OK	83.4928	75.6787	-0.141763	0.28108	0.778653	0.986963
gene2584	gene2584	SACOL2598	gi 57650036 ref NC_002951.2 :2658415-2659306	q1	q2	OK	52.2091	54.7052	0.0673773	-0.13837	0.889947	0.996932
gene2585	gene2585	SACOL2599	gi 57650036 ref NC_002951.2 :2659403-2660723	q1	q2	OK	24.0067	31.2799	0.381794	-0.78947	0.429839	0.940178
gene2586	gene2586	SACOL2600	gi 57650036 ref NC_002951.2 :2660737-2661844	q1	q2	OK	33.5272	38.0586	0.182889	-0.37811	0.705352	0.986963
gene2587	gene2587	SACOL2601	gi 57650036 ref NC_002951.2 :2662177-2662830	q1	q2	OK	20.798	26.5338	0.351384	-0.32449	0.745567	0.986963
gene2588	gene2588	SACOL2602	gi 57650036 ref NC_002951.2 :2662177-2662830	q1	q2	OK	52.6565	50.38	-0.063762	0.11039	0.912102	0.996932
gene2589	gene2589	SACOL2603	gi 57650036 ref NC_002951.2 :2662844-2663123	q1	q2	OK	29.4507	17.7433	-0.731027	1.01513	0.310044	0.892668
gene259	gene259	SACOL0269	gi 57650036 ref NC_002951.2 :307972-308560	q1	q2	OK	2.20825	0.978824	-1.17378	1.01024	0.312379	0.892668
gene2590	gene2590	SACOL2605	gi 57650036 ref NC_002951.2 :2663464-2664274	q1	q2	OK	123.391	164.435	0.414284	-0.70704	0.479541	0.960423
gene2591	gene2591	pyrD	gi 57650036 ref NC_002951.2 :2664548-2665613	q1	q2	OK	45.5516	45.2662	-0.009069	0.01855	0.985202	0.998143
gene2592	gene2592	SACOL2607	gi 57650036 ref NC_002951.2 :2665767-2666043	q1	q2	OK	47.5704	28.1501	-0.756927	1.18022	0.237913	0.863102
gene2593	gene2593	SACOL2608	gi 57650036 ref NC_002951.2 :2666228-2666951	q1	q2	OK	51.1407	56.5389	0.144773	-0.30011	0.764096	0.986963
gene2594	gene2594	SACOL2609	gi 57650036 ref NC_002951.2 :2667304-2667754	q1	q2	OK	729.138	720.773	-0.016647	0.02046	0.983673	0.998143
gene2595	gene2595	SACOL2610	gi 57650036 ref NC_002951.2 :2667834-2668422	q1	q2	OK	58.5186	45.0259	-0.378141	0.77591	0.4378	0.943654
gene2596	gene2596	SACOL2612	gi 57650036 ref NC_002951.2 :2668554-2670237	q1	q2	OK	61.393	56.0622	-0.131045	0.22658	0.820753	0.992727
gene2597	gene2597	panD	gi 57650036 ref NC_002951.2 :2670365-2670749	q1	q2	OK	142.632	72.245	-0.98133	1.99391	0.0461614	0.487023
gene2598	gene2598	panC	gi 57650036 ref NC_002951.2 :2670750-2672413	q1	q2	OK	221.273	151.153	-0.549817	0.48488	0.62776	0.986963
gene2599	gene2599	panB	gi 57650036 ref NC_002951.2 :2670750-2672413	q1	q2	OK	228.242	86.4583	-1.40049	1.08866	0.276302	0.879877
gene26	gene26	SACOL0025	gi 57650036 ref NC_002951.2 :33575-34055	q1	q2	OK	206.44	145	-0.509671	1.002	0.316341	0.892668
gene260	gene260	SACOL0270	gi 57650036 ref NC_002951.2 :308702-309596	q1	q2	OK	97.6064	89.0556	-0.132271	0.24926	0.803161	0.989625
gene2600	gene2600	SACOL2616	gi 57650036 ref NC_002951.2 :2672485-2673346	q1	q2	OK	52.4681	58.8793	0.166318	-0.34155	0.73269	0.986963
gene2601	gene2601	budA2	gi 57650036 ref NC_002951.2 :2673431-2674136	q1	q2	OK	122.115	67.8554	-0.847704	1.67367	0.0941945	0.662528
gene2602	gene2602	ldh2	gi 57650036 ref NC_002951.2 :2674413-2675373	q1	q2	OK	50.5769	43.5544	-0.215662	0.44356	0.657358	0.986963
gene2603	gene2603	SACOL2619	gi 57650036 ref NC_002951.2 :2676059-2677508	q1	q2	OK	133.405	151.746	0.185849	-0.23672	0.812872	0.991128
gene2604	gene2604	SACOL2620	gi 57650036 ref NC_002951.2 :2677588-2678926	q1	q2	OK	86.3394	89.8592	0.0576476	-0.09409	0.925036	0.996932
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	q1	q2	OK	31.7253	94.8103	1.57941	-3.06238	0.0021959	0.0950656
gene2606	gene2606	fdaB	gi 57650036 ref NC_002951.2 :2679722-2680613	q1	q2	OK	214.602	493.654	1.20184	-1.39213	0.163882	0.811825
gene2607	gene2607	mgo2	gi 57650036 ref NC_002951.2 :2680805-2682302	q1	q2	OK	597.293	231.23	-1.36911	1.34094	0.179941	0.819812
gene2608	gene2608	SACOL2624	gi 57650036 ref NC_002951.2 :2682986-2684585	q1	q2	OK	172.929	244.178	0.497756	-0.53699	0.591275	0.985265
gene2609	gene2609	SACOL2625	gi 57650036 ref NC_002951.2 :2684778-2685222	q1	q2	OK	135.045	169.528	0.328085	-0.67002	0.502844	0.965124
gene261	gene261	SACOL0271	gi 57650036 ref NC_002951.2 :309843-310137	q1	q2	OK	961.121	743.75	-0.3699	0.60395	0.545878	0.979019

gene2610	gene2610	SACOL2626	gi 57650036 ref NC_002951.2 :2685502-2685715	q1	q2	OK	44.5737	28.8349	-0.628375	0.75585	0.449737	0.948742
gene2611	gene2611	betA	gi 57650036 ref NC_002951.2 :2685992-2687702	q1	q2	OK	47.4135	54.5516	0.202325	-0.36505	0.715075	0.986963
gene2612	gene2612	betB	gi 57650036 ref NC_002951.2 :2687962-2689453	q1	q2	OK	29.1213	35.3794	0.280832	-0.57138	0.567744	0.985265
gene2613	gene2613	SACOL2629	gi 57650036 ref NC_002951.2 :2689521-2689617	q1	q2	NOTEST	0	0	0	0	1	1
gene2614	gene2614	SACOL2630	gi 57650036 ref NC_002951.2 :2689705-2690269	q1	q2	OK	60.6123	41.9639	-0.530463	1.08179	0.279346	0.879877
gene2615	gene2615	SACOL2631	gi 57650036 ref NC_002951.2 :2690456-2691143	q1	q2	NOTEST	0	0	0	0	1	1
gene2616	gene2616	cudT	gi 57650036 ref NC_002951.2 :2691406-2693029	q1	q2	OK	52.0002	57.8467	0.153718	-0.27603	0.782528	0.986963
gene2617	gene2617	nrdG	gi 57650036 ref NC_002951.2 :2693547-2695931	q1	q2	OK	74.1774	167.583	1.17582	-0.98391	0.325162	0.900129
gene2618	gene2618	nrdD	gi 57650036 ref NC_002951.2 :2693547-2695931	q1	q2	OK	32.235	74.119	1.20121	-1.43919	0.150096	0.788621
gene2619	gene2619	SACOL2636	gi 57650036 ref NC_002951.2 :2696177-2697548	q1	q2	OK	32.414	45.9634	0.50387	-1.01194	0.311567	0.892668
gene262	gene262	SACOL0272	gi 57650036 ref NC_002951.2 :310220-313922	q1	q2	OK	31.4757	39.1553	0.314972	-0.44977	0.652875	0.986963
gene2620	gene2620	SACOL2637	gi 57650036 ref NC_002951.2 :2697869-2697965	q1	q2	NOTEST	0	0	0	0	1	1
gene2621	gene2621	SACOL2638	gi 57650036 ref NC_002951.2 :2698040-2698646	q1	q2	OK	126.241	136.52	0.112932	-0.22094	0.825139	0.992769
gene2622	gene2622	cysJ	gi 57650036 ref NC_002951.2 :2698708-2700589	q1	q2	OK	42.1368	39.5587	-0.091085	0.17002	0.864995	0.996923
gene2623	gene2623	SACOL2640	gi 57650036 ref NC_002951.2 :2700783-2700876	q1	q2	NOTEST	0	0	0	0	1	1
gene2624	gene2624	gpxA2	gi 57650036 ref NC_002951.2 :2700983-2701481	q1	q2	OK	46.4109	51.1663	0.140729	-0.28269	0.777415	0.986963
gene2625	gene2625	SACOL2642	gi 57650036 ref NC_002951.2 :2702175-2702289	q1	q2	NOTEST	0	0	0	0	1	1
gene2626	gene2626	SACOL2643	gi 57650036 ref NC_002951.2 :2702904-2705666	q1	q2	OK	48.4632	49.1671	0.0208032	-0.02674	0.978664	0.998143
gene2627	gene2627	SACOL2644	gi 57650036 ref NC_002951.2 :2702904-2705666	q1	q2	OK	53.55	60.4099	0.173897	-0.1371	0.89095	0.996932
gene2628	gene2628	nsaS	gi 57650036 ref NC_002951.2 :2705764-2706652	q1	q2	OK	44.7077	36.1877	-0.305021	0.63158	0.527663	0.97289
gene2629	gene2629	SACOL2646	gi 57650036 ref NC_002951.2 :2706662-2707328	q1	q2	OK	69.574	80.4447	0.209448	-0.43107	0.666415	0.986963
gene263	gene263	SACOL0273	gi 57650036 ref NC_002951.2 :310220-313922	q1	q2	OK	59.0404	46.4227	-0.346871	0.18683	0.851797	0.996923
gene2630	gene2630	SACOL2647	gi 57650036 ref NC_002951.2 :2707353-2707554	q1	q2	OK	123.543	81.3952	-0.601999	0.90509	0.36542	0.927776
gene2631	gene2631	SACOL2648	gi 57650036 ref NC_002951.2 :2707751-2709176	q1	q2	OK	22.6437	32.8943	0.538725	-1.10878	0.267526	0.875983
gene2632	gene2632	SACOL2649	gi 57650036 ref NC_002951.2 :2709235-2709337	q1	q2	OK	1250.9	0	-1.79769e+07	-1.79769e+07	0.201324	0.819847
gene2633	gene2633	SACOL2650	gi 57650036 ref NC_002951.2 :2709458-2709914	q1	q2	OK	65.7045	30.9656	-1.08533	2.10875	0.0349662	0.436145
gene2634	gene2634	SACOL2651	gi 57650036 ref NC_002951.2 :2710158-2710920	q1	q2	OK	63.3762	50.45	-0.329086	0.67944	0.496858	0.964002
gene2635	gene2635	clfB	gi 57650036 ref NC_002951.2 :2711035-2713777	q1	q2	OK	200.335	114.872	-0.802388	0.80926	0.418366	0.939652
gene2636	gene2636	SACOL2653	gi 57650036 ref NC_002951.2 :2714126-2714813	q1	q2	OK	42.1945	32.2541	-0.387574	0.78953	0.429803	0.940178
gene2637	gene2637	arcC2	gi 57650036 ref NC_002951.2 :2714929-2715871	q1	q2	OK	76.2863	59.0427	-0.369665	0.73233	0.463965	0.952374
gene2638	gene2638	arcD	gi 57650036 ref NC_002951.2 :2715887-2717318	q1	q2	OK	68.2495	77.0201	0.174417	-0.29825	0.765513	0.986963
gene2639	gene2639	arcB2	gi 57650036 ref NC_002951.2 :2717408-2718419	q1	q2	OK	56.0264	51.7296	-0.115117	0.2329	0.81584	0.991377
gene264	gene264	SACOL0274	gi 57650036 ref NC_002951.2 :310220-313922	q1	q2	OK	18.6205	19.033	0.0316119	-0.00505	0.995968	0.998434

gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	q1	q2	OK	43.4508	40.1776	-0.112991	0.22899	0.81888	0.992379
gene2641	gene2641	SACOL2658	gi 57650036 ref NC_002951.2 :2720033-2720483	q1	q2	OK	15.645	18.3038	0.226442	-0.37622	0.706753	0.986963
gene2642	gene2642	aur	gi 57650036 ref NC_002951.2 :2720849-2722379	q1	q2	OK	9.34396	10.6011	0.182103	-0.35999	0.718857	0.986963
gene2643	gene2643	isaB	gi 57650036 ref NC_002951.2 :2722802-2723330	q1	q2	NOTEST	0	0	0	0	1	1
gene2644	gene2644	SACOL2661	gi 57650036 ref NC_002951.2 :2723587-2724046	q1	q2	NOTEST	0	0	0	0	1	1
gene2645	gene2645	SACOL2662	gi 57650036 ref NC_002951.2 :2724285-2726160	q1	q2	OK	29.2064	24.3039	-0.265101	0.53532	0.592429	0.985916
gene2646	gene2646	SACOL2663	gi 57650036 ref NC_002951.2 :2726236-2728189	q1	q2	OK	43.676	46.9143	0.103189	-0.18456	0.853571	0.996923
gene2647	gene2647	manA2	gi 57650036 ref NC_002951.2 :2728202-2729141	q1	q2	OK	46.4007	54.206	0.224307	-0.46032	0.645284	0.986963
gene2648	gene2648	SACOL2665	gi 57650036 ref NC_002951.2 :2729252-2732234	q1	q2	OK	83.8333	51.3543	-0.707038	0.89209	0.372346	0.929385
gene2649	gene2649	SACOL2666	gi 57650036 ref NC_002951.2 :2732444-2734304	q1	q2	OK	99.8137	108.966	0.126563	-0.16322	0.870344	0.996923
gene265	gene265	SACOL0275	gi 57650036 ref NC_002951.2 :313934-315269	q1	q2	OK	32.2251	48.4322	0.587783	-1.17949	0.238204	0.863102
gene2650	gene2650	SACOL2667	gi 57650036 ref NC_002951.2 :2734570-2735131	q1	q2	OK	327.807	333.13	0.0232387	-0.03448	0.972495	0.99793
gene2651	gene2651	SACOL2668	gi 57650036 ref NC_002951.2 :2735298-2737206	q1	q2	OK	139.006	73.8933	-0.911632	1.16843	0.242633	0.867572
gene2652	gene2652	SACOL2669	gi 57650036 ref NC_002951.2 :2737447-2740307	q1	q2	OK	103.372	130.977	0.341473	-0.25133	0.801559	0.989625
gene2653	gene2653	SACOL2670	gi 57650036 ref NC_002951.2 :2737447-2740307	q1	q2	OK	95.6807	142.489	0.574547	-0.45139	0.651708	0.986963
gene2654	gene2654	SACOL2671	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	84.1784	137.083	0.703525	-0.54484	0.585864	0.985265
gene2655	gene2655	SACOL2672	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	40.4908	41.5128	0.0359616	-0.01009	0.991949	0.998143
gene2656	gene2656	SACOL2673	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	45.5007	57.6196	0.340671	-0.14383	0.885638	0.996932
gene2657	gene2657	SACOL2674	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	37.3958	41.9514	0.165843	-0.06095	0.951398	0.996932
gene2658	gene2658	secY	gi 57650036 ref NC_002951.2 :2746763-2747975	q1	q2	OK	28.4885	33.9194	0.251732	-0.52074	0.602545	0.986963
gene2659	gene2659	SACOL2676	gi 57650036 ref NC_002951.2 :2748104-2754890	q1	q2	OK	57.561	25.1152	-1.19653	1.35392	0.175762	0.819812
gene266	gene266	yukA	gi 57650036 ref NC_002951.2 :315290-319730	q1	q2	OK	29.9884	34.7301	0.211783	-0.30309	0.761825	0.986963
gene2660	gene2660	SACOL2677	gi 57650036 ref NC_002951.2 :2755243-2755354	q1	q2	NOTEST	0	0	0	0	1	1
gene2661	gene2661	SACOL2678	gi 57650036 ref NC_002951.2 :2755434-2756127	q1	q2	OK	6.17943	5.1829	-0.253712	0.37769	0.705658	0.986963
gene2662	gene2662	SACOL2680	gi 57650036 ref NC_002951.2 :2756807-2757110	q1	q2	OK	44.0542	30.7085	-0.520641	0.86235	0.388496	0.939607
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	q1	q2	OK	121.187	328.03	1.43659	-2.8764	0.0040224	0.12949
gene2664	gene2664	SACOL2682	gi 57650036 ref NC_002951.2 :2757707-2758319	q1	q2	OK	56.1298	71.4643	0.348457	-0.72163	0.470524	0.957444
gene2665	gene2665	SACOL2683	gi 57650036 ref NC_002951.2 :2758397-2758874	q1	q2	OK	51.4558	65.1511	0.340456	-0.68998	0.490208	0.964002
gene2666	gene2666	SACOL2684	gi 57650036 ref NC_002951.2 :2758876-2759377	q1	q2	OK	34.145	49.4377	0.533938	-1.05296	0.292358	0.891156
gene2667	gene2667	cap1C	gi 57650036 ref NC_002951.2 :2759611-2761068	q1	q2	OK	35.5211	39.5396	0.154621	-0.17595	0.86033	0.996923
gene2668	gene2668	cap1B	gi 57650036 ref NC_002951.2 :2759611-2761068	q1	q2	OK	68.1944	88.8868	0.382316	-0.5872	0.557073	0.981874
gene2669	gene2669	cap1A	gi 57650036 ref NC_002951.2 :2761084-2761747	q1	q2	OK	17.0895	21.4758	0.329598	-0.62114	0.534509	0.9754
gene267	gene267	SACOL0277	gi 57650036 ref NC_002951.2 :319759-320152	q1	q2	NOTEST	0	0	0	0	1	1

gene2670	gene2670	icaR	gi 57650036 ref NC_002951.2 :2762595-2763156	q1	q2	OK	151.954	84.2437	-0.85099	1.70217	0.0887233	0.647629
gene2671	gene2671	icaA	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	38.2505	57.9669	0.599751	-0.76488	0.444341	0.948742
gene2672	gene2672	icaD	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	27.0369	25.6869	-0.073892	0.02387	0.980956	0.998143
gene2673	gene2673	icaB	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	21.3344	31.3376	0.55471	-0.42589	0.670189	0.986963
gene2674	gene2674	icaC	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	17.939	23.2758	0.37573	-0.28501	0.775638	0.986963
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	q1	q2	NOTEST	0	0	0	0	1	1
gene2676	gene2676	geh	gi 57650036 ref NC_002951.2 :2767124-2769167	q1	q2	OK	424.356	336.115	-0.336321	0.30943	0.756994	0.986963
gene2677	gene2677	SACOL2695	gi 57650036 ref NC_002951.2 :2769887-2770100	q1	q2	OK	7.42896	14.4175	0.956587	-0.73225	0.464015	0.952374
gene2678	gene2678	hisI	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	37.8855	44.9318	0.24609	-0.11778	0.906239	0.996932
gene2679	gene2679	hisF	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	57.8187	69.2996	0.26131	-0.17499	0.861089	0.996923
gene268	gene268	SACOL0278	gi 57650036 ref NC_002951.2 :320167-321473	q1	q2	NOTEST	0	0	0	0	1	1
gene2680	gene2680	hisA	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	80.0435	87.6043	0.130218	-0.09546	0.92395	0.996932
gene2681	gene2681	hisH	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	34.1334	42.3778	0.312125	-0.13471	0.892844	0.996932
gene2682	gene2682	hisB	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	35.5439	36.3715	0.0332084	-0.0139	0.988908	0.998143
gene2683	gene2683	SACOL2701	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	27.2296	28.794	0.0805971	-0.04298	0.965714	0.996932
gene2684	gene2684	hisD	gi 57650036 ref NC_002951.2 :2774491-2776349	q1	q2	OK	21.4654	24.7433	0.205025	-0.35978	0.719015	0.986963
gene2685	gene2685	hisG	gi 57650036 ref NC_002951.2 :2774491-2776349	q1	q2	OK	18.1518	25.6955	0.5014	-0.54237	0.587566	0.985265
gene2686	gene2686	hisZ	gi 57650036 ref NC_002951.2 :2776366-2777185	q1	q2	OK	32.9109	43.8527	0.414097	-0.85515	0.392469	0.939607
gene2687	gene2687	SACOL2705	gi 57650036 ref NC_002951.2 :2777489-2778614	q1	q2	OK	68.3314	75.9263	0.152052	-0.2851	0.775567	0.986963
gene2688	gene2688	SACOL2706	gi 57650036 ref NC_002951.2 :2778731-2779229	q1	q2	OK	27.7762	27.2607	-0.027028	0.05057	0.959665	0.996932
gene2689	gene2689	SACOL2707	gi 57650036 ref NC_002951.2 :2779275-2781818	q1	q2	OK	27.9951	32.0813	0.196557	-0.18036	0.856873	0.996923
gene269	gene269	SACOL0279	gi 57650036 ref NC_002951.2 :320167-321473	q1	q2	NOTEST	0	0	0	0	1	1
gene2690	gene2690	SACOL2708	gi 57650036 ref NC_002951.2 :2779275-2781818	q1	q2	OK	30.4743	43.6422	0.518128	-0.80699	0.419673	0.939652
gene2691	gene2691	SACOL2709	gi 57650036 ref NC_002951.2 :2781870-2782425	q1	q2	OK	33.8599	49.3717	0.544107	-1.08964	0.275871	0.879877
gene2692	gene2692	SACOL2710	gi 57650036 ref NC_002951.2 :2782453-2783302	q1	q2	OK	68.8685	78.5963	0.190616	-0.38085	0.703317	0.986963
gene2693	gene2693	SACOL2711	gi 57650036 ref NC_002951.2 :2783681-2784197	q1	q2	OK	228.009	373.34	0.711401	-1.15847	0.246672	0.869586
gene2694	gene2694	drp35	gi 57650036 ref NC_002951.2 :2784345-2785317	q1	q2	OK	37.8696	44.4002	0.229524	-0.4747	0.635	0.986963
gene2695	gene2695	SACOL2713	gi 57650036 ref NC_002951.2 :2785560-2786517	q1	q2	OK	65.1493	51.9212	-0.327427	0.66029	0.509066	0.971029
gene2696	gene2696	pcp	gi 57650036 ref NC_002951.2 :2786668-2787307	q1	q2	OK	36.9095	30.7199	-0.264818	0.53125	0.595246	0.985953
gene2697	gene2697	SACOL2715	gi 57650036 ref NC_002951.2 :2787425-2788521	q1	q2	NOTEST	0	0	0	0	1	1
gene2698	gene2698	SACOL2716	gi 57650036 ref NC_002951.2 :2787425-2788521	q1	q2	NOTEST	0	0	0	0	1	1
gene2699	gene2699	SACOL2717	gi 57650036 ref NC_002951.2 :2788687-2789152	q1	q2	OK	61.7509	56.2098	-0.13564	0.27443	0.783753	0.986963
gene27	gene27	SACOL0026	gi 57650036 ref NC_002951.2 :34371-35667	q1	q2	NOTEST	0	0.118789	1.79769e+3	1.79769e+0	0.18455	1

gene270	gene270	SACOL0280	gi 57650036 ref NC_002951.2 :320167-321473	q1	q2	NOTEST	0	0	0	0	1	1
gene2700	gene2700	SACOL2718	gi 57650036 ref NC_002951.2 :2789389-2790808	q1	q2	OK	58.6385	45.5695	-0.363778	0.68996	0.490221	0.964002
gene2701	gene2701	rarD	gi 57650036 ref NC_002951.2 :2791220-2792129	q1	q2	OK	74.0643	89.2193	0.268579	-0.51919	0.603627	0.986963
gene2702	gene2702	SACOL2720	gi 57650036 ref NC_002951.2 :2792353-2792929	q1	q2	OK	18.4714	23.536	0.349579	-0.64758	0.51726	0.971416
gene2703	gene2703	nixA	gi 57650036 ref NC_002951.2 :2793057-2794110	q1	q2	OK	31.7828	42.3953	0.415658	-0.85867	0.39052	0.939607
gene2704	gene2704	SACOL2722	gi 57650036 ref NC_002951.2 :2794352-2795147	q1	q2	OK	1.66248	0.215978	-2.94438	1.69852	0.0894104	0.650752
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	q1	q2	OK	61.871	83.2732	0.428588	-0.88491	0.376207	0.932533
gene2706	gene2706	SACOL2724	gi 57650036 ref NC_002951.2 :2796075-2798704	q1	q2	OK	30.3793	36.9445	0.282269	-0.31723	0.751067	0.986963
gene2707	gene2707	SACOL2725	gi 57650036 ref NC_002951.2 :2796075-2798704	q1	q2	OK	20.7307	24.9189	0.265466	-0.42026	0.674297	0.986963
gene2708	gene2708	SACOL2726	gi 57650036 ref NC_002951.2 :2798796-2798988	q1	q2	NOTEST	0	0	0	0	1	1
gene2709	gene2709	SACOL2727	gi 57650036 ref NC_002951.2 :2798999-2799536	q1	q2	OK	8.80071	5.97176	-0.559463	0.80545	0.420558	0.939652
gene271	gene271	SACOL0281	gi 57650036 ref NC_002951.2 :321482-323327	q1	q2	NOTEST	0	0	0	0	1	1
gene2710	gene2710	SACOL2728	gi 57650036 ref NC_002951.2 :2799595-2800093	q1	q2	OK	22.8539	14.6788	-0.638699	1.10905	0.267408	0.875983
gene2711	gene2711	SACOL2729	gi 57650036 ref NC_002951.2 :2800171-2800522	q1	q2	OK	20.9856	17.2761	-0.280623	0.4314	0.666177	0.986963
gene2712	gene2712	SACOL2730	gi 57650036 ref NC_002951.2 :2800550-2800742	q1	q2	NOTEST	0	0	0	0	1	1
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	q1	q2	OK	959.835	517.099	-0.892346	1.80775	0.0706454	0.590463
gene2714	gene2714	SACOL2732	gi 57650036 ref NC_002951.2 :2801461-2802031	q1	q2	OK	26.8239	36.8752	0.45913	-0.89796	0.369209	0.928011
gene2715	gene2715	SACOL2733	gi 57650036 ref NC_002951.2 :2802290-2802671	q1	q2	OK	186.684	261.345	0.485359	-0.97862	0.327768	0.900464
gene2716	gene2716	SACOL2734	gi 57650036 ref NC_002951.2 :2802753-2803107	q1	q2	OK	58.8069	69.4407	0.239796	-0.46457	0.642241	0.986963
gene2717	gene2717	SACOL2735	gi 57650036 ref NC_002951.2 :2803560-2804400	q1	q2	OK	206.104	92.3476	-1.15822	1.88104	0.0599668	0.549064
gene2718	gene2718	gidB	gi 57650036 ref NC_002951.2 :2804442-2807039	q1	q2	OK	176.085	104.356	-0.75475	0.45209	0.651204	0.986963
gene2719	gene2719	gidA	gi 57650036 ref NC_002951.2 :2804442-2807039	q1	q2	OK	128.526	92.1289	-0.480338	0.45346	0.65022	0.986963
gene272	gene272	SACOL0282	gi 57650036 ref NC_002951.2 :323337-323829	q1	q2	OK	2.50694	4.2753	0.7701	-0.82965	0.406736	0.939607
gene2720	gene2720	trmE	gi 57650036 ref NC_002951.2 :2807105-2808485	q1	q2	OK	85.922	71.4644	-0.265804	0.44721	0.654724	0.986963
gene2721	gene2721	rnpA	gi 57650036 ref NC_002951.2 :2808623-2808971	q1	q2	OK	33.6229	39.1747	0.220479	-0.38882	0.697408	0.986963
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	q1	q2	OK	1574.83	385.782	-2.02934	2.76706	0.0056564	0.151098
gene273	gene273	SACOL0283	gi 57650036 ref NC_002951.2 :324036-324720	q1	q2	NOTEST	0	0	0	0	1	1
gene274	gene274	SACOL0284	gi 57650036 ref NC_002951.2 :324866-325478	q1	q2	NOTEST	0	0	0	0	1	1
gene275	gene275	SACOL0285	gi 57650036 ref NC_002951.2 :325613-325832	q1	q2	OK	46.6688	41.3897	-0.173186	0.23288	0.815855	0.991377
gene276	gene276	SACOL0286	gi 57650036 ref NC_002951.2 :325963-326464	q1	q2	OK	18.4662	20.3567	0.14062	-0.24845	0.803786	0.989625
gene277	gene277	SACOL0287	gi 57650036 ref NC_002951.2 :326474-326975	q1	q2	OK	2.43893	2.07722	-0.231596	0.22201	0.824307	0.992727
gene278	gene278	SACOL0288	gi 57650036 ref NC_002951.2 :326985-327481	q1	q2	OK	27.5925	40.0969	0.539215	-1.0339	0.301182	0.892668
gene279	gene279	SACOL0289	gi 57650036 ref NC_002951.2 :327491-327983	q1	q2	OK	3.22321	4.2753	0.40753	-0.4604	0.645226	0.986963

gene28	gene28	SACOL0027	gi 57650036 ref NC_002951.2 :36081-36321	q1	q2	NOTEST	0	0	0	1	1	
gene280	gene280	SACOL0290	gi 57650036 ref NC_002951.2 :328192-328876	q1	q2	NOTEST	0	0	0	1	1	
gene281	gene281	SACOL0291	gi 57650036 ref NC_002951.2 :329461-329962	q1	q2	NOTEST	0	0	0	1	1	
gene282	gene282	SACOL0292	gi 57650036 ref NC_002951.2 :329973-330474	q1	q2	NOTEST	0	0	0	1	1	
gene283	gene283	SACOL0293	gi 57650036 ref NC_002951.2 :330484-330985	q1	q2	OK	14.6336	11.6324	-0.331132	0.53872	0.590078	0.985265
gene284	gene284	SACOL0294	gi 57650036 ref NC_002951.2 :330995-331496	q1	q2	OK	3.13577	2.49266	-0.331132	0.34244	0.732018	0.986963
gene285	gene285	SACOL0295	gi 57650036 ref NC_002951.2 :331506-332007	q1	q2	NOTEST	0	0	0	1	1	
gene286	gene286	SACOL0296	gi 57650036 ref NC_002951.2 :332017-332518	q1	q2	NOTEST	0	0	0	1	1	
gene287	gene287	SACOL0297	gi 57650036 ref NC_002951.2 :332528-333017	q1	q2	OK	3.25345	4.31717	0.408117	-0.46107	0.64475	0.986963
gene288	gene288	SACOL0299	gi 57650036 ref NC_002951.2 :333639-334014	q1	q2	OK	82.5807	54.9976	-0.586437	1.15493	0.248119	0.869586
gene289	gene289	SACOL0300	gi 57650036 ref NC_002951.2 :334166-334565	q1	q2	OK	97.0981	44.623	-1.12165	2.21306	0.0268937	0.377263
gene29	gene29	SACOL0028	gi 57650036 ref NC_002951.2 :36352-37027	q1	q2	OK	739.583	664.565	-0.154301	0.1584	0.874144	0.996932
gene290	gene290	SACOL0301	gi 57650036 ref NC_002951.2 :334780-335626	q1	q2	OK	60.1215	54.4289	-0.143508	0.29452	0.768359	0.986963
gene291	gene291	brnQ2	gi 57650036 ref NC_002951.2 :335841-337149	q1	q2	OK	69.4295	44.8934	-0.629046	1.1882	0.234753	0.863102
gene292	gene292	SACOL0303	gi 57650036 ref NC_002951.2 :337732-338623	q1	q2	OK	47.5647	38.4617	-0.30647	0.6342	0.52595	0.97289
gene293	gene293	SACOL0305	gi 57650036 ref NC_002951.2 :338871-339921	q1	q2	OK	149.088	233.447	0.646936	-0.85737	0.39124	0.939607
gene294	gene294	SACOL0306	gi 57650036 ref NC_002951.2 :339933-340611	q1	q2	OK	177.898	256.313	0.526855	-0.83653	0.402858	0.939607
gene295	gene295	pfoR	gi 57650036 ref NC_002951.2 :340818-341850	q1	q2	OK	117.23	134.223	0.195295	-0.31203	0.755022	0.986963
gene296	gene296	SACOL0308	gi 57650036 ref NC_002951.2 :342192-344209	q1	q2	OK	37.1199	42.5144	0.195759	-0.25286	0.800377	0.989625
gene297	gene297	SACOL0309	gi 57650036 ref NC_002951.2 :342192-344209	q1	q2	OK	44.5662	55.838	0.325298	-0.4198	0.674633	0.986963
gene298	gene298	SACOL0310	gi 57650036 ref NC_002951.2 :344219-345440	q1	q2	OK	22.4199	22.799	0.0241917	-0.04999	0.960134	0.996932
gene299	gene299	SACOL0311	gi 57650036 ref NC_002951.2 :345544-347077	q1	q2	OK	43.3114	44.5626	0.0410867	-0.07954	0.936605	0.996932
gene3	gene3	recF	gi 57650036 ref NC_002951.2 :3696-5051	q1	q2	OK	376.253	168.027	-1.16301	1.15553	0.247872	0.869586
gene30	gene30	SACOL0029	gi 57650036 ref NC_002951.2 :37284-37452	q1	q2	OK	134.556	148.007	0.137455	-0.17904	0.857904	0.996923
gene300	gene300	nanA	gi 57650036 ref NC_002951.2 :347116-347998	q1	q2	OK	38.1106	38.5784	0.017602	-0.03649	0.970894	0.997826
gene301	gene301	SACOL0313	gi 57650036 ref NC_002951.2 :348155-349016	q1	q2	OK	52.9694	61.4138	0.213403	-0.43733	0.66187	0.986963
gene302	gene302	SACOL0314	gi 57650036 ref NC_002951.2 :349293-350094	q1	q2	OK	58.0001	73.5756	0.343172	-0.70002	0.483914	0.963899
gene303	gene303	SACOL0315	gi 57650036 ref NC_002951.2 :350233-350902	q1	q2	OK	43.0204	46.5006	0.112231	-0.2312	0.817161	0.991377
gene304	gene304	SACOL0316	gi 57650036 ref NC_002951.2 :351028-352342	q1	q2	OK	39.9853	59.1507	0.564925	-1.10129	0.270771	0.875983
gene305	gene305	SACOL0317	gi 57650036 ref NC_002951.2 :352759-354694	q1	q2	OK	71.5497	84.151	0.234034	-0.3361	0.736796	0.986963
gene306	gene306	int	gi 57650036 ref NC_002951.2 :354784-355990	q1	q2	OK	29.8797	42.1309	0.49571	-1.01728	0.309019	0.892668
gene307	gene307	SACOL0319	gi 57650036 ref NC_002951.2 :356183-356897	q1	q2	OK	54.3197	43.3091	-0.326803	0.67603	0.49902	0.964618
gene308	gene308	SACOL0320	gi 57650036 ref NC_002951.2 :356974-357202	q1	q2	OK	21.1011	37.6798	0.836472	-1.02905	0.303456	0.892668

gene309	gene309	SACOL0321	gi 57650036 ref NC_002951.2 :357356-358076	q1	q2	NOTEST 0	0	0	0	1	1
gene31	gene31	SACOL0030	gi 57650036 ref NC_002951.2 :37549-37780	q1	q2	OK 7.33237	7.66727	0.0644343	-0.04979	0.960288	0.996932
gene310	gene310	SACOL0322	gi 57650036 ref NC_002951.2 :358217-358436	q1	q2	NOTEST 0	0	0	0	1	1
gene311	gene311	SACOL0323	gi 57650036 ref NC_002951.2 :358450-358759	q1	q2	NOTEST 0	0	0	0	1	1
gene312	gene312	SACOL0324	gi 57650036 ref NC_002951.2 :358762-358915	q1	q2	NOTEST 0	0	0	0	1	1
gene313	gene313	SACOL0325	gi 57650036 ref NC_002951.2 :358915-359707	q1	q2	NOTEST 0	0	0	0	1	1
gene314	gene314	SACOL0326	gi 57650036 ref NC_002951.2 :359707-359932	q1	q2	NOTEST 0	0	0	0	1	1
gene315	gene315	SACOL0327	gi 57650036 ref NC_002951.2 :359971-360551	q1	q2	NOTEST 0	0	0	0	1	1
gene316	gene316	SACOL0328	gi 57650036 ref NC_002951.2 :359971-360551	q1	q2	NOTEST 0	0	0	0	1	1
gene317	gene317	SACOL0329	gi 57650036 ref NC_002951.2 :360604-361172	q1	q2	NOTEST 0	0	0	0	1	1
gene318	gene318	SACOL0330	gi 57650036 ref NC_002951.2 :360604-361172	q1	q2	NOTEST 0	0	0	0	1	1
gene319	gene319	SACOL0331	gi 57650036 ref NC_002951.2 :361219-361640	q1	q2	NOTEST 0	0	0	0	1	1
gene32	gene32	SACOL0031	gi 57650036 ref NC_002951.2 :38328-39072	q1	q2	OK 96.131	101.308	0.0756795	-0.14826	0.882136	0.996932
gene320	gene320	SACOL0332	gi 57650036 ref NC_002951.2 :361219-361640	q1	q2	NOTEST 0	0	0	0	1	1
gene321	gene321	SACOL0333	gi 57650036 ref NC_002951.2 :361694-361958	q1	q2	OK 36.4917	40.1615	0.138243	-0.21373	0.83076	0.994686
gene322	gene322	SACOL0334	gi 57650036 ref NC_002951.2 :361970-362132	q1	q2	NOTEST 0	0	0	0	1	1
gene323	gene323	SACOL0335	gi 57650036 ref NC_002951.2 :362221-362539	q1	q2	OK 20.1983	42.9422	1.08816	-1.74935	0.0802298	0.628579
gene324	gene324	SACOL0336	gi 57650036 ref NC_002951.2 :362543-362804	q1	q2	OK 2.51094	6.65851	1.40697	-0.95357	0.340301	0.905587
gene325	gene325	SACOL0337	gi 57650036 ref NC_002951.2 :362813-364070	q1	q2	NOTEST 0	0	0	0	1	1
gene326	gene326	SACOL0338	gi 57650036 ref NC_002951.2 :362813-364070	q1	q2	NOTEST 0	0	0	0	1	1
gene327	gene327	ssb1	gi 57650036 ref NC_002951.2 :362813-364070	q1	q2	NOTEST 0	0	0	0	1	1
gene328	gene328	SACOL0340	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 51.7871	82.6995	0.675285	-0.50044	0.616766	0.986963
gene329	gene329	SACOL0341	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 27.9937	38.0711	0.443592	-0.25412	0.799402	0.989562
gene33	gene33	maoC	gi 57650036 ref NC_002951.2 :39168-39597	q1	q2	OK 33.8196	42.9492	0.344771	-0.65288	0.513837	0.971029
gene330	gene330	SACOL0342	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 89.8796	87.2068	-0.043552	0.02173	0.982663	0.998143
gene331	gene331	SACOL0343	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 50.9658	63.0462	0.30688	-0.30188	0.762744	0.986963
gene332	gene332	SACOL0344	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 14.06	16.9162	0.266805	-0.02745	0.978101	0.998143
gene333	gene333	SACOL0345	gi 57650036 ref NC_002951.2 :367359-367581	q1	q2	OK 78.1425	150.18	0.942517	-1.60479	0.10854	0.711606
gene334	gene334	SACOL0346	gi 57650036 ref NC_002951.2 :367590-368417	q1	q2	NOTEST 0	0	0	0	1	1
gene335	gene335	SACOL0347	gi 57650036 ref NC_002951.2 :367590-368417	q1	q2	OK 21.573	22.0072	0.0287505	-0.0484	0.961397	0.996932
gene336	gene336	SACOL0348	gi 57650036 ref NC_002951.2 :368421-368607	q1	q2	OK 9.03685	7.15741	-0.336382	0.16702	0.867355	0.996923
gene337	gene337	SACOL0349	gi 57650036 ref NC_002951.2 :368607-368865	q1	q2	NOTEST 0	0	0	0	1	1
gene338	gene338	SACOL0350	gi 57650036 ref NC_002951.2 :368876-369233	q1	q2	NOTEST 0	0	0	0	1	1

gene339	gene339	SACOL0351	gi 57650036 ref NC_002951.2 :369236-369479	q1	q2	OK	15.5171	23.2625	0.584153	-0.68285	0.494699	0.964002
gene34	gene34	mecA	gi 57650036 ref NC_002951.2 :39642-41649	q1	q2	OK	627.65	529.852	-0.24437	0.22148	0.82472	0.992748
gene340	gene340	SACOL0352	gi 57650036 ref NC_002951.2 :369492-369699	q1	q2	OK	2.78558	8.25377	1.56708	-0.75835	0.448244	0.948742
gene341	gene341	SACOL0353	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	7.94583	7.83795	-0.019722	0.00652	0.9948	0.998143
gene342	gene342	SACOL0354	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	135.138	206.267	0.610077	-0.82273	0.410661	0.939607
gene343	gene343	SACOL0355	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	115.752	196.472	0.763284	-0.86099	0.389242	0.939607
gene344	gene344	SACOL0356	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	112.673	150.605	0.418627	-0.29886	0.765051	0.986963
gene345	gene345	dut	gi 57650036 ref NC_002951.2 :370985-371528	q1	q2	OK	91.5426	105.335	0.202469	-0.41715	0.676571	0.986963
gene346	gene346	SACOL0358	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	66.8539	82.5377	0.304041	-0.24825	0.803943	0.989625
gene347	gene347	SACOL0359	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	NOTEST	0	0	0	0	1	1
gene348	gene348	SACOL0360	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	255.091	563.527	1.14347	-2.05691	0.0396951	0.459329
gene349	gene349	SACOL0361	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	25.2198	64.6616	1.35835	-0.36555	0.714699	0.986963
gene35	gene35	mecR1	gi 57650036 ref NC_002951.2 :41748-44481	q1	q2	OK	185.168	91.4193	-1.01827	1.58441	0.1131	0.720767
gene350	gene350	SACOL0362	gi 57650036 ref NC_002951.2 :372374-372882	q1	q2	OK	12.6711	23.9398	0.917868	-0.45574	0.648578	0.986963
gene351	gene351	SACOL0363	gi 57650036 ref NC_002951.2 :372374-372882	q1	q2	OK	36.2478	39.2638	0.115306	-0.2	0.84148	0.996923
gene352	gene352	SACOL0364	gi 57650036 ref NC_002951.2 :372894-373332	q1	q2	OK	7.31158	9.323	0.350612	-0.48076	0.630686	0.986963
gene353	gene353	SACOL0365	gi 57650036 ref NC_002951.2 :373488-373803	q1	q2	OK	7.92824	17.9634	1.17999	-1.46752	0.142236	0.77306
gene354	gene354	SACOL0366	gi 57650036 ref NC_002951.2 :373931-375918	q1	q2	OK	10.9837	16.0543	0.547597	-0.38027	0.703746	0.986963
gene355	gene355	SACOL0367	gi 57650036 ref NC_002951.2 :373931-375918	q1	q2	OK	8.12217	7.88603	-0.042566	0.07891	0.937107	0.996932
gene356	gene356	SACOL0368	gi 57650036 ref NC_002951.2 :375922-377918	q1	q2	OK	49.9201	64.6024	0.371966	-0.60622	0.54437	0.979019
gene357	gene357	SACOL0369	gi 57650036 ref NC_002951.2 :375922-377918	q1	q2	OK	23.1273	26.8378	0.214672	-0.17338	0.862356	0.996923
gene358	gene358	SACOL0370	gi 57650036 ref NC_002951.2 :377929-379093	q1	q2	OK	27.0743	43.6645	0.689534	-1.41578	0.15684	0.797219
gene359	gene359	SACOL0371	gi 57650036 ref NC_002951.2 :379161-379440	q1	q2	OK	13.6736	28.6623	1.06777	-1.42611	0.153835	0.793468
gene36	gene36	SACOL0035	gi 57650036 ref NC_002951.2 :41748-44481	q1	q2	NOTEST	0	0	0	0	1	1
gene360	gene360	SACOL0372	gi 57650036 ref NC_002951.2 :379451-380182	q1	q2	OK	18.3503	31.6433	0.786093	-0.843	0.399226	0.939607
gene361	gene361	SACOL0373	gi 57650036 ref NC_002951.2 :379451-380182	q1	q2	OK	30.7901	48.8365	0.665492	-1.08684	0.277107	0.879877
gene362	gene362	SACOL0374	gi 57650036 ref NC_002951.2 :380182-380578	q1	q2	OK	13.7634	18.5959	0.434151	-0.67652	0.498709	0.964618
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	q1	q2	OK	67.238	96.7404	0.524841	-1.07504	0.282355	0.880646
gene364	gene364	SACOL0376	gi 57650036 ref NC_002951.2 :381345-381801	q1	q2	OK	64.8983	75.9625	0.227106	-0.46466	0.642176	0.986963
gene365	gene365	SACOL0377	gi 57650036 ref NC_002951.2 :381858-382209	q1	q2	OK	32.4323	62.8221	0.953842	-1.74164	0.0815721	0.629918
gene366	gene366	SACOL0378	gi 57650036 ref NC_002951.2 :382250-382409	q1	q2	OK	80.8364	153.269	0.922992	-1.00412	0.315321	0.892668
gene367	gene367	SACOL0379	gi 57650036 ref NC_002951.2 :382422-389447	q1	q2	OK	36.7364	50.9157	0.470902	-0.49391	0.621372	0.986963
gene368	gene368	SACOL0380	gi 57650036 ref NC_002951.2 :382422-389447	q1	q2	OK	29.2607	36.4427	0.316667	-0.09436	0.924823	0.996932

gene369	gene369	SACOL0381	gi 57650036 ref NC_002951.2 :389455-391329	q1	q2	OK	21.161	27.9351	0.400672	-0.79343	0.427528	0.940178
gene37	gene37	SACOL0036	gi 57650036 ref NC_002951.2 :41748-44481	q1	q2	NOTEST	0	0	0	0	1	1
gene370	gene370	SACOL0382	gi 57650036 ref NC_002951.2 :389455-391329	q1	q2	OK	22.7679	21.899	-0.056135	0.0301	0.975986	0.998143
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	41.7428	57.5429	0.463109	-0.6695	0.503179	0.965124
gene372	gene372	SACOL0384	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	9.88663	15.343	0.634025	-0.39765	0.690892	0.986963
gene373	gene373	SACOL0385	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	13.0902	17.858	0.448083	-0.1267	0.899176	0.996932
gene374	gene374	SACOL0386	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	41.1774	27.3683	-0.589348	0.05194	0.958574	0.996932
gene375	gene375	SACOL0387	gi 57650036 ref NC_002951.2 :395312-395612	q1	q2	OK	12.37	14.6183	0.240924	-0.30612	0.759515	0.986963
gene376	gene376	SACOL0388	gi 57650036 ref NC_002951.2 :395747-396050	q1	q2	OK	0.863808	2.19347	1.34443	-0.6506	0.515304	0.971416
gene377	gene377	SACOL0389	gi 57650036 ref NC_002951.2 :396061-397516	q1	q2	OK	40.3651	54.0509	0.421209	-0.81152	0.417067	0.939652
gene378	gene378	SACOL0390	gi 57650036 ref NC_002951.2 :398285-398408	q1	q2	OK	120.944	0	-1.79769e+	-1.79769e	0.117533	0.723345
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	q1	q2	OK	8.07146	6.96776	-0.212135	0.35628	0.721632	0.986963
gene38	gene38	SACOL0037	gi 57650036 ref NC_002951.2 :44616-45123	q1	q2	NOTEST	0	0	0	0	1	1
gene380	gene380	SACOL0392	gi 57650036 ref NC_002951.2 :399549-400749	q1	q2	OK	42.6134	40.1694	-0.085212	0.1735	0.862261	0.996923
gene381	gene381	SACOL0393	gi 57650036 ref NC_002951.2 :400844-400937	q1	q2	NOTEST	0	0	0	0	1	1
gene382	gene382	SACOL0394	gi 57650036 ref NC_002951.2 :401050-402052	q1	q2	OK	70.0959	61.1755	-0.196374	0.38673	0.698958	0.986963
gene383	gene383	SACOL0395	gi 57650036 ref NC_002951.2 :402085-402418	q1	q2	OK	88.9285	60.6496	-0.552148	1.06798	0.28553	0.886237
gene384	gene384	SACOL0396	gi 57650036 ref NC_002951.2 :402418-405153	q1	q2	OK	70.6247	76.9977	0.124642	-0.1295	0.896963	0.996932
gene385	gene385	SACOL0397	gi 57650036 ref NC_002951.2 :402418-405153	q1	q2	OK	46.3398	43.197	-0.101321	0.09103	0.927467	0.996932
gene386	gene386	SACOL0398	gi 57650036 ref NC_002951.2 :402418-405153	q1	q2	OK	34.3889	31.0037	-0.149502	0.12041	0.904161	0.996932
gene387	gene387	SACOL0399	gi 57650036 ref NC_002951.2 :405467-406493	q1	q2	OK	109.551	55.3573	-0.984762	1.80394	0.0712405	0.592334
gene388	gene388	ulaA	gi 57650036 ref NC_002951.2 :406585-407932	q1	q2	OK	42.987	45.5478	0.08348	-0.16574	0.868365	0.996923
gene389	gene389	SACOL0401	gi 57650036 ref NC_002951.2 :407946-408231	q1	q2	OK	39.9044	55.3252	0.471389	-0.79937	0.424079	0.93986
gene39	gene39	SACOL0038	gi 57650036 ref NC_002951.2 :45137-45449	q1	q2	OK	13.7608	20.4196	0.569392	-0.79113	0.428868	0.940178
gene390	gene390	SACOL0402	gi 57650036 ref NC_002951.2 :408232-408676	q1	q2	OK	17.6694	20.7482	0.231732	-0.39323	0.694149	0.986963
gene391	gene391	SACOL0403	gi 57650036 ref NC_002951.2 :408680-410636	q1	q2	OK	26.4592	29.4583	0.154906	-0.30937	0.757038	0.986963
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	q1	q2	OK	130.453	33.9902	-1.94034	3.77787	0.0001582	0.0180535
gene393	gene393	SACOL0405	gi 57650036 ref NC_002951.2 :411373-412729	q1	q2	OK	54.6412	74.8423	0.453865	-0.82239	0.410853	0.939607
gene394	gene394	SACOL0406	gi 57650036 ref NC_002951.2 :412832-413273	q1	q2	OK	28.4981	24.5727	-0.213812	0.38483	0.700365	0.986963
gene395	gene395	glpT	gi 57650036 ref NC_002951.2 :413355-414714	q1	q2	OK	112.116	66.4442	-0.754772	1.20816	0.226985	0.858851
gene396	gene396	SACOL0408	gi 57650036 ref NC_002951.2 :415021-415882	q1	q2	OK	345.889	310.578	-0.155351	0.18254	0.855162	0.996923
gene397	gene397	SACOL0409	gi 57650036 ref NC_002951.2 :415961-417023	q1	q2	OK	236.162	188.751	-0.323294	0.40637	0.684469	0.986963
gene398	gene398	SACOL0410	gi 57650036 ref NC_002951.2 :417036-417603	q1	q2	OK	149.661	105.639	-0.502556	0.99918	0.317708	0.892668

gene399	gene399	SACOL0411	gi 57650036 ref NC_002951.2 :417662-418658	q1	q2	OK	40.5452	47.8055	0.237646	-0.4894	0.62456	0.986963
gene4	gene4	gyrB	gi 57650036 ref NC_002951.2 :5060-6995	q1	q2	OK	436.957	173.585	-1.33185	1.30549	0.191727	0.819847
gene40	gene40	SACOL0039	gi 57650036 ref NC_002951.2 :45450-45886	q1	q2	NOTEST	0	0	0	0	1	1
gene400	gene400	SACOL0412	gi 57650036 ref NC_002951.2 :418755-419052	q1	q2	OK	42.5003	54.2212	0.351384	-0.61115	0.541103	0.979019
gene401	gene401	SACOL0413	gi 57650036 ref NC_002951.2 :419131-419677	q1	q2	OK	184.082	89.1776	-1.04559	2.0512	0.0402473	0.459368
gene402	gene402	SACOL0414	gi 57650036 ref NC_002951.2 :419944-423718	q1	q2	OK	26.295	34.2265	0.380325	-0.21883	0.826783	0.992851
gene403	gene403	SACOL0415	gi 57650036 ref NC_002951.2 :419944-423718	q1	q2	OK	42.389	54.4242	0.360561	-0.32701	0.74366	0.986963
gene404	gene404	SACOL0416	gi 57650036 ref NC_002951.2 :419944-423718	q1	q2	OK	35.4161	43.3829	0.29272	-0.28931	0.772347	0.986963
gene405	gene405	SACOL0417	gi 57650036 ref NC_002951.2 :423809-424466	q1	q2	OK	61.3785	84.2015	0.456113	-0.93954	0.347456	0.912037
gene406	gene406	SACOL0418	gi 57650036 ref NC_002951.2 :424527-424743	q1	q2	OK	100.763	87.964	-0.195986	0.31657	0.751572	0.986963
gene407	gene407	SACOL0419	gi 57650036 ref NC_002951.2 :424851-425241	q1	q2	OK	51.3136	53.574	0.0621916	-0.1203	0.904249	0.996932
gene408	gene408	SACOL0420	gi 57650036 ref NC_002951.2 :425481-426395	q1	q2	OK	74.1544	26.6233	-1.47784	0.50057	0.616675	0.986963
gene409	gene409	SACOL0421	gi 57650036 ref NC_002951.2 :425481-426395	q1	q2	OK	80.4186	80.8935	0.0084953	-0.01683	0.986576	0.998143
gene41	gene41	SACOL0040	gi 57650036 ref NC_002951.2 :45450-45886	q1	q2	NOTEST	0	0	0	0	1	1
gene410	gene410	SACOL0422	gi 57650036 ref NC_002951.2 :426419-427891	q1	q2	OK	33.2827	38.8541	0.223296	-0.29076	0.771232	0.986963
gene411	gene411	SACOL0424	gi 57650036 ref NC_002951.2 :426419-427891	q1	q2	OK	67.484	67.7019	0.0046506	-0.00685	0.994535	0.998143
gene412	gene412	SACOL0425	gi 57650036 ref NC_002951.2 :428257-429391	q1	q2	OK	42.4135	51.7142	0.286036	-0.57825	0.563096	0.985191
gene413	gene413	SACOL0426	gi 57650036 ref NC_002951.2 :429929-431111	q1	q2	OK	108.085	51.8771	-1.05899	1.85587	0.0634724	0.55727
gene414	gene414	SACOL0427	gi 57650036 ref NC_002951.2 :431193-431946	q1	q2	OK	52.8687	65.6229	0.311784	-0.6436	0.519833	0.971416
gene415	gene415	metE	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	28.2274	38.7772	0.458113	-0.33345	0.738797	0.986963
gene416	gene416	SACOL0429	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	27.7096	40.6478	0.552793	-0.36546	0.71477	0.986963
gene417	gene417	SACOL0430	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	34.6155	42.4466	0.294231	-0.15913	0.873568	0.996932
gene418	gene418	SACOL0431	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	34.3768	39.0438	0.183658	-0.09396	0.925142	0.996932
gene419	gene419	SACOL0432	gi 57650036 ref NC_002951.2 :438947-439793	q1	q2	OK	59.7799	52.8339	-0.178196	0.36607	0.714313	0.986963
gene42	gene42	ccrB	gi 57650036 ref NC_002951.2 :46351-47976	q1	q2	NOTEST	0	0	0	0	1	1
gene420	gene420	SACOL0433	gi 57650036 ref NC_002951.2 :439949-440831	q1	q2	OK	47.0301	45.9537	-0.033403	0.06911	0.944903	0.996932
gene421	gene421	SACOL0434	gi 57650036 ref NC_002951.2 :440860-441064	q1	q2	OK	56.3573	26.6233	-1.08191	1.23065	0.218452	0.842602
gene422	gene422	SACOL0435	gi 57650036 ref NC_002951.2 :441075-442173	q1	q2	OK	104.294	58.6606	-0.830199	1.49686	0.134431	0.751793
gene423	gene423	SACOL0436	gi 57650036 ref NC_002951.2 :442258-442450	q1	q2	OK	278.014	171.049	-0.700748	1.19046	0.233864	0.863102
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	q1	q2	OK	380.694	88.8306	-2.09951	4.1046	4.05E-05	0.0084086
gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	q1	q2	OK	647.43	139.109	-2.21851	3.21928	0.0012851	0.0620574
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	q1	q2	OK	741.716	277.036	-1.42079	2.83425	0.0045934	0.137671
gene427	gene427	SACOL0440	gi 57650036 ref NC_002951.2 :444073-445012	q1	q2	OK	22.6748	34.7968	0.617866	-1.26652	0.205327	0.823151

gene428	gene428	SACOL0441	gi 57650036 ref NC_002951.2 :445050-445598	q1	q2	OK	121.463	147.333	0.278567	-0.55587	0.5783	0.985265
gene429	gene429	SACOL0442	gi 57650036 ref NC_002951.2 :445957-446569	q1	q2	OK	23.2351	37.5804	0.693673	-1.36044	0.173691	0.819812
gene43	gene43	ccrA1	gi 57650036 ref NC_002951.2 :47997-49347	q1	q2	NOTEST	0	0	0	0	1	1
gene430	gene430	SACOL0443	gi 57650036 ref NC_002951.2 :446937-447306	q1	q2	OK	20.8312	39.0268	0.90572	-1.54867	0.12146	0.72789
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	q1	q2	OK	251.932	1000.18	1.98915	-2.40108	0.0163466	0.299437
gene432	gene432	SACOL0445	gi 57650036 ref NC_002951.2 :448196-448460	q1	q2	OK	117.99	72.2906	-0.706782	1.29623	0.194897	0.819847
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	q1	q2	OK	1751.16	6201.63	1.82434	-2.06564	0.0388626	0.454271
gene434	gene434	SACOL0447	gi 57650036 ref NC_002951.2 :449436-450018	q1	q2	OK	54.3285	68.2224	0.328537	-0.67921	0.497003	0.964002
gene435	gene435	SACOL0448	gi 57650036 ref NC_002951.2 :450083-450467	q1	q2	OK	76.4294	70.2747	-0.121122	0.24254	0.808364	0.991115
gene436	gene436	SACOL0449	gi 57650036 ref NC_002951.2 :450721-451348	q1	q2	OK	100.501	89.5888	-0.165812	0.33707	0.736062	0.986963
gene437	gene437	SACOL0450	gi 57650036 ref NC_002951.2 :451420-451714	q1	q2	OK	36.1115	48.5569	0.42722	-0.71907	0.472096	0.958312
gene438	gene438	ahpF	gi 57650036 ref NC_002951.2 :451792-453316	q1	q2	OK	3253.56	2072.71	-0.650501	0.65952	0.509563	0.971029
gene439	gene439	ahpC	gi 57650036 ref NC_002951.2 :453331-453901	q1	q2	OK	5093.95	4099.97	-0.31317	0.29455	0.768337	0.986963
gene44	gene44	SACOL0043	gi 57650036 ref NC_002951.2 :49534-51600	q1	q2	NOTEST	0	0	0	0	1	1
gene440	gene440	SACOL0453	gi 57650036 ref NC_002951.2 :454392-455148	q1	q2	OK	353.808	495.017	0.484511	-0.55399	0.579586	0.985265
gene441	gene441	SACOL0454	gi 57650036 ref NC_002951.2 :455228-456617	q1	q2	OK	124.236	82.2232	-0.595469	0.8894	0.373791	0.931139
gene442	gene442	SACOL0455	gi 57650036 ref NC_002951.2 :457593-458550	q1	q2	OK	246.218	165.84	-0.570138	0.76603	0.443661	0.948114
gene443	gene443	SACOL0456	gi 57650036 ref NC_002951.2 :458667-459330	q1	q2	OK	211.161	182.544	-0.210098	0.35185	0.724952	0.986963
gene444	gene444	SACOL0457	gi 57650036 ref NC_002951.2 :459472-459880	q1	q2	OK	1068	1550.53	0.537844	-0.57673	0.564125	0.985191
gene445	gene445	xpt	gi 57650036 ref NC_002951.2 :460391-462238	q1	q2	OK	86.3208	62.3988	-0.468189	0.34461	0.730391	0.986963
gene446	gene446	pbuX	gi 57650036 ref NC_002951.2 :460391-462238	q1	q2	OK	86.6063	84.3665	-0.037801	0.04941	0.960592	0.996932
gene447	gene447	guaB	gi 57650036 ref NC_002951.2 :462275-463742	q1	q2	OK	379.166	150.443	-1.33361	1.43184	0.152191	0.793468
gene448	gene448	guaA	gi 57650036 ref NC_002951.2 :463766-465308	q1	q2	OK	309.276	148.175	-1.06159	1.15064	0.249881	0.870749
gene449	gene449	SACOL0462	gi 57650036 ref NC_002951.2 :465420-465957	q1	q2	OK	27.9737	34.3376	0.29572	-0.57154	0.567631	0.985265
gene45	gene45	SACOL0044	gi 57650036 ref NC_002951.2 :49534-51600	q1	q2	NOTEST	0	0	0	0	1	1
gene450	gene450	SACOL0463	gi 57650036 ref NC_002951.2 :466349-467054	q1	q2	OK	22.2223	37.7256	0.763533	-1.524	0.127509	0.732663
gene451	gene451	SACOL0464	gi 57650036 ref NC_002951.2 :467452-467725	q1	q2	OK	17.7941	24.6967	0.472918	-0.63719	0.524001	0.972546
gene452	gene452	SACOL0465	gi 57650036 ref NC_002951.2 :467985-468138	q1	q2	OK	25.2198	21.5539	-0.226614	0.11252	0.910413	0.996932
gene453	gene453	SACOL0466	gi 57650036 ref NC_002951.2 :468661-469021	q1	q2	OK	137.547	93.1904	-0.561676	1.14853	0.250748	0.872063
gene454	gene454	SACOL0467	gi 57650036 ref NC_002951.2 :469039-469885	q1	q2	OK	131.516	89.5185	-0.554977	1.01154	0.311758	0.892668
gene455	gene455	SACOL0468	gi 57650036 ref NC_002951.2 :470356-471037	q1	q2	OK	65.9537	128.977	0.967592	-1.91654	0.055296	0.538882
gene456	gene456	SACOL0469	gi 57650036 ref NC_002951.2 :471322-472018	q1	q2	OK	61.6618	85.791	0.476451	-0.97613	0.328999	0.900771
gene457	gene457	SACOL0470	gi 57650036 ref NC_002951.2 :472308-473367	q1	q2	OK	70.6719	95.3778	0.432517	-0.79389	0.427262	0.940178

gene458	gene458	SACOL0471	gi 57650036 ref NC_002951.2 :473485-473623	q1	q2	OK	24.2282	42.8646	0.823101	-0.34933	0.726841	0.986963
gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	q1	q2	OK	101.898	139.121	0.449215	-0.76855	0.442161	0.947261
gene46	gene46	SACOL0045	gi 57650036 ref NC_002951.2 :51770-53348	q1	q2	NOTEST	0	0	0	0	1	1
gene460	gene460	SACOL0473	gi 57650036 ref NC_002951.2 :475037-475736	q1	q2	OK	20.5103	32.7851	0.676696	-1.33495	0.181893	0.819812
gene461	gene461	SACOL0474	gi 57650036 ref NC_002951.2 :476101-476785	q1	q2	OK	33.6829	47.7473	0.503405	-1.03036	0.302839	0.892668
gene462	gene462	SACOL0475	gi 57650036 ref NC_002951.2 :476869-476971	q1	q2	NOTEST	0	0	0	0	1	1
gene463	gene463	hsdM1	gi 57650036 ref NC_002951.2 :477048-479809	q1	q2	OK	42.3125	43.592	0.0429781	-0.03876	0.969084	0.996932
gene464	gene464	SACOL0477	gi 57650036 ref NC_002951.2 :477048-479809	q1	q2	OK	68.6162	94.0492	0.454866	-0.48912	0.624759	0.986963
gene465	gene465	SACOL0478	gi 57650036 ref NC_002951.2 :480191-480869	q1	q2	OK	16.1312	31.2381	0.953451	-1.83336	0.0667493	0.57234
gene466	gene466	SACOL0479	gi 57650036 ref NC_002951.2 :480890-482399	q1	q2	OK	27.6948	34.5004	0.316999	-0.64617	0.518166	0.971416
gene467	gene467	SACOL0480	gi 57650036 ref NC_002951.2 :482502-482811	q1	q2	OK	578.761	8212.11	3.82671	-4.3713	1.24E-05	0.0051687
gene468	gene468	SACOL0481	gi 57650036 ref NC_002951.2 :483148-483949	q1	q2	OK	14.0884	13.6885	-0.04154	0.07749	0.938233	0.996932
gene469	gene469	SACOL0482	gi 57650036 ref NC_002951.2 :483980-484772	q1	q2	NOTEST	0	0	0	0	1	1
gene47	gene47	SACOL0046	gi 57650036 ref NC_002951.2 :53427-54756	q1	q2	NOTEST	0	0	0	0	1	1
gene470	gene470	SACOL0483	gi 57650036 ref NC_002951.2 :484841-485618	q1	q2	NOTEST	0	0	0	0	1	1
gene471	gene471	SACOL0484	gi 57650036 ref NC_002951.2 :485793-486609	q1	q2	NOTEST	0.178722	0.417634	1.22452	-0.59258	0.553466	1
gene472	gene472	SACOL0485	gi 57650036 ref NC_002951.2 :486627-487413	q1	q2	OK	32.2355	34.8528	0.112626	-0.23105	0.817277	0.991377
gene473	gene473	SACOL0486	gi 57650036 ref NC_002951.2 :487592-490046	q1	q2	OK	152.986	146.798	-0.059566	0.05201	0.958523	0.996932
gene474	gene474	SACOL0487	gi 57650036 ref NC_002951.2 :487592-490046	q1	q2	OK	65.0516	71.3695	0.133723	-0.10565	0.915861	0.996932
gene475	gene475	SACOL0488	gi 57650036 ref NC_002951.2 :487592-490046	q1	q2	OK	100.069	161.706	0.692387	-0.26643	0.789912	0.986986
gene476	gene476	SACOL0489	gi 57650036 ref NC_002951.2 :490064-490379	q1	q2	OK	42.8125	77.8413	0.862505	-1.58171	0.113717	0.720767
gene477	gene477	SACOL0490	gi 57650036 ref NC_002951.2 :490668-490929	q1	q2	OK	45.197	39.951	-0.177993	0.27935	0.779973	0.986963
gene478	gene478	SACOL0491	gi 57650036 ref NC_002951.2 :491047-492250	q1	q2	OK	58.8148	84.5095	0.522935	-0.95724	0.338445	0.905587
gene479	gene479	nuoF	gi 57650036 ref NC_002951.2 :493837-495322	q1	q2	OK	80.7344	59.5081	-0.440098	0.74803	0.454442	0.950129
gene48	gene48	SACOL0047	gi 57650036 ref NC_002951.2 :54774-55842	q1	q2	NOTEST	0	0	0	0	1	1
gene480	gene480	SACOL0495	gi 57650036 ref NC_002951.2 :495334-498040	q1	q2	OK	148.089	97.9048	-0.597014	0.63712	0.524049	0.972546
gene481	gene481	SACOL0496	gi 57650036 ref NC_002951.2 :498201-498564	q1	q2	OK	231.464	132.7	-0.80262	1.64173	0.100646	0.684988
gene482	gene482	SACOL0497	gi 57650036 ref NC_002951.2 :498792-499140	q1	q2	OK	60.1333	75.951	0.336906	-0.65432	0.512908	0.971029
gene483	gene483	SACOL0498	gi 57650036 ref NC_002951.2 :499246-499921	q1	q2	OK	55.0802	52.3808	-0.072494	0.15024	0.880579	0.996932
gene484	gene484	SACOL0499	gi 57650036 ref NC_002951.2 :499957-500692	q1	q2	OK	72.3258	73.2686	0.0186844	-0.03819	0.969537	0.996932
gene485	gene485	SACOL0500	gi 57650036 ref NC_002951.2 :500801-500918	q1	q2	OK	599.12	967.293	0.691108	-0.64454	0.519224	0.971416
gene486	gene486	SACOL0501	gi 57650036 ref NC_002951.2 :501147-502485	q1	q2	OK	33.9226	46.246	0.447083	-0.89907	0.368614	0.928011
gene487	gene487	SACOL0502	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	70.6784	91.1972	0.367719	-0.31233	0.754794	0.986963

gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	104.46	87.3106	-0.258726	0.27517	0.783188	0.986963
gene489	gene489	SACOL0504	gi 57650036 ref NC_002951.2 :505035-506061	q1	q2	OK	112.25	60.3755	-0.894675	1.62157	0.104896	0.694968
gene49	gene49	SACOL0048	gi 57650036 ref NC_002951.2 :55980-56241	q1	q2	NOTEST	0	0	0	0	1	1
gene490	gene490	SACOL0505	gi 57650036 ref NC_002951.2 :506064-506724	q1	q2	OK	73.9577	59.0139	-0.325644	0.67304	0.50092	0.965124
gene491	gene491	SACOL0506	gi 57650036 ref NC_002951.2 :506760-507603	q1	q2	OK	110.313	86.3202	-0.353834	0.66898	0.50351	0.965124
gene492	gene492	SACOL0507	gi 57650036 ref NC_002951.2 :507934-508939	q1	q2	OK	227.236	536.509	1.23941	-1.34926	0.177253	0.819812
gene493	gene493	SACOL0508	gi 57650036 ref NC_002951.2 :509123-509393	q1	q2	OK	87.0123	49.527	-0.813003	1.41736	0.156377	0.797219
gene494	gene494	SACOL0509	gi 57650036 ref NC_002951.2 :509541-510412	q1	q2	OK	36.1926	35.9521	-0.009618	0.00971	0.99225	0.998143
gene495	gene495	SACOL0510	gi 57650036 ref NC_002951.2 :509541-510412	q1	q2	OK	94.5137	68.0139	-0.474694	0.85175	0.394352	0.939607
gene496	gene496	SACOL0511	gi 57650036 ref NC_002951.2 :510580-512472	q1	q2	OK	45.3879	43.6185	-0.057368	0.07431	0.940765	0.996932
gene497	gene497	SACOL0512	gi 57650036 ref NC_002951.2 :510580-512472	q1	q2	OK	32.7017	37.8131	0.209522	-0.29996	0.764207	0.986963
gene498	gene498	gltC	gi 57650036 ref NC_002951.2 :512592-513477	q1	q2	OK	39.4043	51.4065	0.383597	-0.79294	0.427816	0.940178
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	q1	q2	OK	87.8914	73.9475	-0.249219	0.25613	0.797853	0.98885
gene5	gene5	gyrA	gi 57650036 ref NC_002951.2 :7031-9695	q1	q2	OK	238.383	98.6026	-1.27359	1.30195	0.192934	0.819847
gene50	gene50	SACOL0049	gi 57650036 ref NC_002951.2 :56264-56996	q1	q2	NOTEST	0	0	0	0	1	1
gene500	gene500	gltD	gi 57650036 ref NC_002951.2 :518174-519638	q1	q2	OK	61.5106	57.5934	-0.094932	0.1724	0.863126	0.996923
gene501	gene501	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :519906-519999	q1	q2	OK	16848.8	0	-1.79769e+	-1.79769e	0.117533	0.723345
gene502	gene502	SACOL0516	gi 57650036 ref NC_002951.2 :520469-521897	q1	q2	OK	204.502	90.1618	-1.18153	1.52432	0.12743	0.732663
gene503	gene503	SACOL0517	gi 57650036 ref NC_002951.2 :521960-523601	q1	q2	OK	69.428	68.3778	-0.02199	0.0361	0.971201	0.997826
gene504	gene504	SACOL0518	gi 57650036 ref NC_002951.2 :523625-524354	q1	q2	OK	63.602	53.4973	-0.249606	0.51614	0.60576	0.986963
gene505	gene505	SACOL0519	gi 57650036 ref NC_002951.2 :524992-525517	q1	q2	OK	74.7301	30.9055	-1.27383	2.53692	0.0111834	0.246329
gene506	gene506	dnaX	gi 57650036 ref NC_002951.2 :525585-527283	q1	q2	OK	136.93	111.451	-0.297031	0.37267	0.709398	0.986963
gene507	gene507	SACOL0521	gi 57650036 ref NC_002951.2 :527372-527690	q1	q2	OK	897.272	490.907	-0.870095	1.41647	0.156637	0.797219
gene508	gene508	recR	gi 57650036 ref NC_002951.2 :527696-528293	q1	q2	OK	234.554	113.312	-1.04963	1.89161	0.0585426	0.540443
gene509	gene509	rrsA	gi 57650036 ref NC_002951.2 :529145-530700	q1	q2	OK	10964.8	8763.39	-0.323324	0.41216	0.680222	0.986963
gene51	gene51	pls	gi 57650036 ref NC_002951.2 :57211-61858	q1	q2	NOTEST	0	0	0	0	1	1
gene510	gene510	rrlA	gi 57650036 ref NC_002951.2 :531064-533987	q1	q2	OK	33446.6	23465.2	-0.511339	1.25136	0.210803	0.830641
gene511	gene511	rrfA	gi 57650036 ref NC_002951.2 :534059-534174	q1	q2	OK	115401	115897	0.0061866	-0.01067	0.991488	0.998143
gene512	gene512	SACOL0523	gi 57650036 ref NC_002951.2 :535056-536394	q1	q2	OK	36.2962	38.9199	0.100691	-0.2044	0.838039	0.996923
gene513	gene513	tmk	gi 57650036 ref NC_002951.2 :536395-537013	q1	q2	OK	51.5156	50.4292	-0.03075	0.06341	0.94944	0.996932
gene514	gene514	SACOL0525	gi 57650036 ref NC_002951.2 :537040-537370	q1	q2	OK	1441.47	812.508	-0.82709	1.08087	0.279755	0.879877
gene515	gene515	SACOL0526	gi 57650036 ref NC_002951.2 :537583-538510	q1	q2	OK	77.1862	118.688	0.620762	-1.13473	0.256488	0.875983
gene516	gene516	SACOL0527	gi 57650036 ref NC_002951.2 :538510-539314	q1	q2	OK	147.32	133.457	-0.142576	0.24679	0.80507	0.989715

gene517	gene517	SACOL0528	gi 57650036 ref NC_002951.2 :539330-539678	q1	q2	OK	98.929	70.3547	-0.491747	0.97629	0.32892	0.900771
gene518	gene518	SACOL0529	gi 57650036 ref NC_002951.2 :539951-540918	q1	q2	OK	59.7925	62.3119	0.0595436	-0.11122	0.911445	0.996932
gene519	gene519	SACOL0530	gi 57650036 ref NC_002951.2 :539951-540918	q1	q2	OK	105.069	71.8592	-0.548096	0.4423	0.658275	0.986963
gene52	gene52	SACOL0051	gi 57650036 ref NC_002951.2 :61981-63598	q1	q2	NOTEST	0	0	0	0	1	1
gene520	gene520	SACOL0531	gi 57650036 ref NC_002951.2 :540919-541759	q1	q2	OK	41.5309	47.6827	0.199281	-0.413	0.679608	0.986963
gene521	gene521	SACOL0532	gi 57650036 ref NC_002951.2 :541783-541939	q1	q2	OK	11.2616	0	-1.79769e+	-1.79769e	0.201324	0.819847
gene522	gene522	metS	gi 57650036 ref NC_002951.2 :542043-544017	q1	q2	OK	89.666	55.8883	-0.682016	1.00001	0.317306	0.892668
gene523	gene523	SACOL0534	gi 57650036 ref NC_002951.2 :544047-544821	q1	q2	OK	200.309	111.824	-0.840995	1.40733	0.159329	0.801753
gene524	gene524	SACOL0535	gi 57650036 ref NC_002951.2 :544987-545524	q1	q2	OK	66.9483	74.2738	0.149807	-0.31019	0.75642	0.986963
gene525	gene525	ksgA	gi 57650036 ref NC_002951.2 :545534-546428	q1	q2	OK	43.2211	57.2633	0.405873	-0.83508	0.403676	0.939607
gene526	gene526	SACOL0537	gi 57650036 ref NC_002951.2 :546527-546791	q1	q2	OK	481.69	4276.39	3.15022	-4.07065	4.69E-05	0.0084086
gene527	gene527	ipk	gi 57650036 ref NC_002951.2 :547100-547949	q1	q2	OK	112.06	113.726	0.0212944	-0.0388	0.969052	0.996932
gene528	gene528	purR	gi 57650036 ref NC_002951.2 :547962-548787	q1	q2	OK	157.232	121.476	-0.372228	0.63654	0.524424	0.972546
gene529	gene529	SACOL0540	gi 57650036 ref NC_002951.2 :548803-549184	q1	q2	OK	593.895	1396.06	1.23308	-1.53974	0.123624	0.732386
gene53	gene53	SACOL0052	gi 57650036 ref NC_002951.2 :63757-65269	q1	q2	NOTEST	0	0	0	0	1	1
gene530	gene530	spoVG	gi 57650036 ref NC_002951.2 :549255-549558	q1	q2	OK	1372.59	2812.02	1.03471	-1.17241	0.241033	0.865486
gene531	gene531	SACOL0542	gi 57650036 ref NC_002951.2 :549747-549879	q1	q2	OK	0	60.3816	1.79769e+3	1.79769e+0	0.18455	0.819812
gene532	gene532	glmU	gi 57650036 ref NC_002951.2 :549901-551254	q1	q2	OK	231.324	90.2895	-1.35729	1.74291	0.0813497	0.629918
gene533	gene533	prsA	gi 57650036 ref NC_002951.2 :551400-552366	q1	q2	OK	321.052	111.597	-1.5245	2.0344	0.0419109	0.472836
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	q1	q2	OK	454.484	193.605	-1.23111	1.69388	0.0902886	0.653356
gene535	gene535	pth	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	132.264	136.542	0.0459168	-0.01311	0.989542	0.998143
gene536	gene536	mfd	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	68.9847	67.3526	-0.034544	0.02036	0.983759	0.998143
gene537	gene537	SACOL0548	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	89.9002	81.2594	-0.145789	0.06136	0.951071	0.996932
gene538	gene538	SACOL0549	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	187.92	128.546	-0.547833	0.26957	0.787494	0.986986
gene539	gene539	SACOL0550	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	290.717	125.304	-1.21419	0.1886	0.850409	0.996923
gene54	gene54	SACOL0054	gi 57650036 ref NC_002951.2 :65291-67344	q1	q2	NOTEST	0	0	0	0	1	1
gene540	gene540	SACOL0551	gi 57650036 ref NC_002951.2 :560544-560937	q1	q2	OK	289.29	143.343	-1.01304	2.0073	0.0447173	0.481552
gene541	gene541	SACOL0552	gi 57650036 ref NC_002951.2 :561041-561443	q1	q2	OK	778.195	160.979	-2.27325	3.48476	0.0004926	0.0332187
gene542	gene542	SACOL0553	gi 57650036 ref NC_002951.2 :561622-562918	q1	q2	OK	30.4681	35.399	0.216411	-0.44524	0.656147	0.986963
gene543	gene543	hpt	gi 57650036 ref NC_002951.2 :562922-563462	q1	q2	OK	43.9593	49.5936	0.173987	-0.35204	0.724805	0.986963
gene544	gene544	SACOL0555	gi 57650036 ref NC_002951.2 :563718-565812	q1	q2	OK	316.785	336.903	0.0888265	-0.08253	0.934229	0.996932
gene545	gene545	hslO	gi 57650036 ref NC_002951.2 :566040-566922	q1	q2	OK	143.199	112.71	-0.345407	0.59121	0.554382	0.981439
gene546	gene546	cysK	gi 57650036 ref NC_002951.2 :567100-568033	q1	q2	OK	372.759	458.443	0.298497	-0.3156	0.752308	0.986963

gene547	gene547	folP	gi 57650036 ref NC_002951.2 :568248-569868	q1	q2	OK	125.468	133.883	0.0936543	-0.11917	0.905138	0.996932
gene548	gene548	folB	gi 57650036 ref NC_002951.2 :568248-569868	q1	q2	OK	59.3338	48.3185	-0.296278	0.13359	0.893728	0.996932
gene549	gene549	folK	gi 57650036 ref NC_002951.2 :568248-569868	q1	q2	OK	104.414	69.1949	-0.593575	0.42267	0.672534	0.986963
gene55	gene55	SACOL0057	gi 57650036 ref NC_002951.2 :68406-68499	q1	q2	NOTEST	0	0	0	0	1	1
gene550	gene550	SACOL0561	gi 57650036 ref NC_002951.2 :570261-570354	q1	q2	NOTEST	0	0	0	0	1	1
gene551	gene551	lysS	gi 57650036 ref NC_002951.2 :570406-571894	q1	q2	OK	207.118	116.716	-0.827446	1.00366	0.315543	0.892668
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	q1	q2	OK	812920	179376	-2.18013	2.46493	0.0137041	0.270952
gene554	gene554	rrsB	gi 57650036 ref NC_002951.2 :572775-574330	q1	q2	OK	10758.2	8641.38	-0.316106	0.40121	0.688265	0.986963
gene555	gene555	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :574422-574499	q1	q2	NOTEST	0	0	0	0	1	1
gene556	gene556	rrlB	gi 57650036 ref NC_002951.2 :574666-577589	q1	q2	OK	34394.4	23950.3	-0.522132	1.68834	0.0913461	0.657221
gene557	gene557	rrfB	gi 57650036 ref NC_002951.2 :577661-577776	q1	q2	OK	246505	144511	-0.770444	1.06048	0.288927	0.888
gene558	gene558	rrsC	gi 57650036 ref NC_002951.2 :577987-579542	q1	q2	OK	10914.2	9056.16	-0.269236	0.34445	0.730511	0.986963
gene559	gene559	rrlC	gi 57650036 ref NC_002951.2 :579844-582767	q1	q2	OK	33712.3	20557	-0.713646	1.68857	0.0913016	0.657221
gene56	gene56	SACOL0058	gi 57650036 ref NC_002951.2 :68645-70391	q1	q2	NOTEST	0	0	0	0	1	1
gene560	gene560	rrfC	gi 57650036 ref NC_002951.2 :582839-582954	q1	q2	OK	172128	105077	-0.712036	1.10521	0.269071	0.875983
gene561	gene561	SACOL0563	gi 57650036 ref NC_002951.2 :583478-584861	q1	q2	OK	29.427	34.3758	0.224255	-0.46009	0.645455	0.986963
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	q1	q2	OK	478.115	71.438	-2.74259	3.55138	0.0003832	0.0300704
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	q1	q2	OK	769.21	107.664	-2.83684	3.79799	0.0001459	0.0174424
gene564	gene564	nupC	gi 57650036 ref NC_002951.2 :586623-587838	q1	q2	OK	70.7405	47.016	-0.589384	1.12865	0.259044	0.875983
gene565	gene565	ctsR	gi 57650036 ref NC_002951.2 :587995-588457	q1	q2	OK	127.136	155.763	0.292979	-0.59885	0.549271	0.979019
gene566	gene566	SACOL0568	gi 57650036 ref NC_002951.2 :588475-590039	q1	q2	OK	293.801	263.926	-0.154707	0.10388	0.917268	0.996932
gene567	gene567	SACOL0569	gi 57650036 ref NC_002951.2 :588475-590039	q1	q2	OK	238.275	186.679	-0.352066	0.30075	0.763608	0.986963
gene568	gene568	clpC	gi 57650036 ref NC_002951.2 :590052-592508	q1	q2	OK	338.768	174.409	-0.957821	0.91182	0.361866	0.925274
gene569	gene569	radA	gi 57650036 ref NC_002951.2 :592994-594359	q1	q2	OK	99.9532	105.257	0.0745889	-0.11278	0.910209	0.996932
gene57	gene57	SACOL0059	gi 57650036 ref NC_002951.2 :70484-70937	q1	q2	OK	74.1389	41.0934	-0.851326	1.69464	0.0901436	0.653356
gene570	gene570	SACOL0573	gi 57650036 ref NC_002951.2 :594383-595457	q1	q2	OK	40.4992	32.1973	-0.330955	0.68384	0.494076	0.964002
gene571	gene571	gltX	gi 57650036 ref NC_002951.2 :596013-597468	q1	q2	OK	142.941	57.585	-1.31166	1.93583	0.0528879	0.526991
gene572	gene572	cysE	gi 57650036 ref NC_002951.2 :597896-600319	q1	q2	OK	196.335	194.345	-0.014701	0.00809	0.993549	0.998143
gene573	gene573	cysS	gi 57650036 ref NC_002951.2 :597896-600319	q1	q2	OK	175.952	143.939	-0.28973	0.23409	0.814912	0.991377
gene574	gene574	SACOL0577	gi 57650036 ref NC_002951.2 :597896-600319	q1	q2	OK	214.749	140.37	-0.613415	0.22345	0.823182	0.992727
gene575	gene575	SACOL0578	gi 57650036 ref NC_002951.2 :600326-601597	q1	q2	OK	174.058	103.816	-0.745534	0.79062	0.429164	0.940178
gene576	gene576	SACOL0579	gi 57650036 ref NC_002951.2 :600326-601597	q1	q2	OK	244.335	113.191	-1.1101	1.04203	0.297397	0.892668
gene577	gene577	SACOL0580	gi 57650036 ref NC_002951.2 :601677-602247	q1	q2	OK	108.738	64.873	-0.745164	1.52771	0.126585	0.732386

gene578	gene578	secE	gi 57650036 ref NC_002951.2 :602560-602743	q1	q2	OK	204.605	116.543	-0.81198	1.20162	0.22951	0.86139
gene579	gene579	nusG	gi 57650036 ref NC_002951.2 :602755-603304	q1	q2	OK	309.249	123.465	-1.32467	2.29322	0.0218354	0.342403
gene58	gene58	SACOL0061	gi 57650036 ref NC_002951.2 :71151-72167	q1	q2	NOTEST	0	0	0	0	1	1
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	q1	q2	OK	443.873	133.662	-1.73155	3.02779	0.0024635	0.0994497
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	q1	q2	OK	326.406	103.658	-1.65484	2.5481	0.010831	0.240679
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	q1	q2	OK	488.483	120.063	-2.02451	3.20184	0.0013655	0.0637061
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	q1	q2	OK	621.463	102.179	-2.60457	4.45311	8.46E-06	0.0042505
gene584	gene584	SACOL0587	gi 57650036 ref NC_002951.2 :606164-606773	q1	q2	OK	76.4893	40.6367	-0.912476	1.86765	0.0618105	0.552335
gene585	gene585	rpoB	gi 57650036 ref NC_002951.2 :606987-610539	q1	q2	OK	589.333	162.934	-1.8548	1.75787	0.0787689	0.625914
gene586	gene586	rpoC	gi 57650036 ref NC_002951.2 :610675-614299	q1	q2	OK	557.679	140.156	-1.9924	1.90222	0.0571421	0.540443
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	q1	q2	OK	249.498	69.9485	-1.83466	3.39953	0.000675	0.040697
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	q1	q2	OK	949.256	231.523	-2.03564	2.8813	0.0039604	0.12949
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	q1	q2	OK	1082.9	221.078	-2.29228	2.96982	0.0029798	0.105384
gene59	gene59	SACOL0062	gi 57650036 ref NC_002951.2 :71151-72167	q1	q2	NOTEST	0	0	0	0	1	1
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	q1	q2	OK	1168.91	228.806	-2.35297	2.28958	0.0220456	0.342403
gene591	gene591	tuf	gi 57650036 ref NC_002951.2 :618157-619342	q1	q2	OK	1761.23	463.649	-1.92548	1.83519	0.0664779	0.57234
gene592	gene592	SACOL0595	gi 57650036 ref NC_002951.2 :619623-620799	q1	q2	OK	83.4697	102.65	0.29841	-0.50586	0.612956	0.986963
gene593	gene593	SACOL0596	gi 57650036 ref NC_002951.2 :620969-622157	q1	q2	OK	390.875	360.841	-0.115344	0.11609	0.907578	0.996932
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	q1	q2	OK	456.98	1110.11	1.2805	-1.24552	0.21294	0.831197
gene595	gene595	SACOL0598	gi 57650036 ref NC_002951.2 :623460-625098	q1	q2	OK	60.126	62.5211	0.0563551	-0.09701	0.92272	0.996932
gene596	gene596	SACOL0599	gi 57650036 ref NC_002951.2 :625311-626277	q1	q2	OK	372.698	97.4155	-1.93578	2.52986	0.0114109	0.247006
gene597	gene597	ilvE	gi 57650036 ref NC_002951.2 :626611-627834	q1	q2	OK	213.796	244.293	0.192373	-0.23265	0.816036	0.991377
gene598	gene598	SACOL0601	gi 57650036 ref NC_002951.2 :626611-627834	q1	q2	OK	18.6841	70.9522	1.92504	-0.1178	0.906226	0.996932
gene599	gene599	SACOL0602	gi 57650036 ref NC_002951.2 :627937-628621	q1	q2	OK	54.5662	112.905	1.04903	-2.11061	0.0348062	0.436145
gene6	gene6	SACOL0007	gi 57650036 ref NC_002951.2 :9781-10483	q1	q2	OK	122.586	64.6822	-0.922348	1.82336	0.0682496	0.578969
gene60	gene60	SACOL0063	gi 57650036 ref NC_002951.2 :72303-73371	q1	q2	NOTEST	0	0	0	0	1	1
gene600	gene600	SACOL0603	gi 57650036 ref NC_002951.2 :628736-630009	q1	q2	OK	65.7829	59.7467	-0.138855	0.23768	0.812127	0.991128
gene601	gene601	SACOL0604	gi 57650036 ref NC_002951.2 :628736-630009	q1	q2	OK	21.1214	34.9359	0.726005	-0.77242	0.439866	0.944827
gene602	gene602	SACOL0605	gi 57650036 ref NC_002951.2 :630075-630545	q1	q2	OK	48.8101	55.6919	0.190289	-0.38134	0.70295	0.986963
gene603	gene603	SACOL0606	gi 57650036 ref NC_002951.2 :630692-631562	q1	q2	OK	34.6395	37.5203	0.115252	-0.23854	0.81146	0.991128
gene604	gene604	SACOL0607	gi 57650036 ref NC_002951.2 :631582-632149	q1	q2	OK	58.4116	54.3681	-0.103493	0.21315	0.831212	0.994686
gene605	gene605	sdrC	gi 57650036 ref NC_002951.2 :632578-635422	q1	q2	OK	69.965	53.5699	-0.38521	0.51131	0.609135	0.986963
gene606	gene606	sdrD	gi 57650036 ref NC_002951.2 :635788-639934	q1	q2	OK	132.658	62.2663	-1.09119	1.12456	0.260773	0.875983

gene607	gene607	sdrE	gi 57650036 ref NC_002951.2 :640327-643828	q1	q2	OK	61.4418	69.6664	0.181243	-0.21539	0.829466	0.994686
gene608	gene608	SACOL0611	gi 57650036 ref NC_002951.2 :643946-645419	q1	q2	OK	58.1602	35.2579	-0.722084	1.38239	0.166853	0.814226
gene609	gene609	SACOL0612	gi 57650036 ref NC_002951.2 :645542-647033	q1	q2	OK	129.516	97.6471	-0.407478	0.56377	0.57291	0.985265
gene61	gene61	SACOL0064	gi 57650036 ref NC_002951.2 :73401-74736	q1	q2	NOTEST	0	0	0	0	1	1
gene610	gene610	SACOL0613	gi 57650036 ref NC_002951.2 :647314-648193	q1	q2	OK	294.936	130.668	-1.1745	1.63697	0.101637	0.686047
gene611	gene611	SACOL0614	gi 57650036 ref NC_002951.2 :648205-648871	q1	q2	OK	163.115	82.0864	-0.990675	1.88524	0.0593978	0.54633
gene612	gene612	SACOL0615	gi 57650036 ref NC_002951.2 :648884-649247	q1	q2	OK	280.382	172.29	-0.702553	1.41849	0.156049	0.797219
gene613	gene613	nagB	gi 57650036 ref NC_002951.2 :649522-650281	q1	q2	OK	57.4268	48.1885	-0.253034	0.5238	0.600417	0.986963
gene614	gene614	SACOL0617	gi 57650036 ref NC_002951.2 :650357-650990	q1	q2	OK	199.896	333.905	0.740187	-1.11997	0.262728	0.875983
gene615	gene615	SACOL0618	gi 57650036 ref NC_002951.2 :650991-651540	q1	q2	OK	189.628	297.833	0.651329	-1.11011	0.266951	0.875983
gene616	gene616	SACOL0619	gi 57650036 ref NC_002951.2 :651643-652300	q1	q2	OK	39.3391	57.7143	0.552964	-1.13797	0.255133	0.875983
gene617	gene617	proP	gi 57650036 ref NC_002951.2 :652801-654202	q1	q2	OK	205.231	315.015	0.618174	-0.65571	0.512012	0.971029
gene618	gene618	SACOL0621	gi 57650036 ref NC_002951.2 :654745-656122	q1	q2	OK	24.2136	39.6422	0.711218	-1.45202	0.146495	0.783746
gene619	gene619	atoB	gi 57650036 ref NC_002951.2 :656123-657603	q1	q2	OK	56.9163	78.1903	0.458149	-0.79703	0.425432	0.940178
gene62	gene62	SACOL0065	gi 57650036 ref NC_002951.2 :74754-75948	q1	q2	NOTEST	0	0	0	0	1	1
gene620	gene620	SACOL0623	gi 57650036 ref NC_002951.2 :656123-657603	q1	q2	OK	31.723	49.0397	0.62842	-0.37352	0.708764	0.986963
gene621	gene621	SACOL0624	gi 57650036 ref NC_002951.2 :657605-657875	q1	q2	OK	50.3755	61.5336	0.288651	-0.49224	0.622553	0.986963
gene622	gene622	SACOL0625	gi 57650036 ref NC_002951.2 :658075-658243	q1	q2	OK	179.409	123.339	-0.540617	0.70393	0.481479	0.961304
gene623	gene623	thiD1	gi 57650036 ref NC_002951.2 :658749-659580	q1	q2	OK	152.837	111.784	-0.451279	0.78278	0.433756	0.940247
gene624	gene624	ung	gi 57650036 ref NC_002951.2 :659763-660420	q1	q2	OK	42.8939	55.205	0.364027	-0.75103	0.452636	0.949479
gene625	gene625	SACOL0628	gi 57650036 ref NC_002951.2 :660420-660801	q1	q2	OK	52.9483	62.0028	0.227747	-0.443	0.657763	0.986963
gene626	gene626	SACOL0629	gi 57650036 ref NC_002951.2 :660933-661302	q1	q2	OK	60.7576	70.2482	0.209397	-0.41084	0.681193	0.986963
gene627	gene627	SACOL0630	gi 57650036 ref NC_002951.2 :661422-662907	q1	q2	OK	157.691	388.935	1.30243	-1.38042	0.167456	0.814226
gene628	gene628	SACOL0631	gi 57650036 ref NC_002951.2 :663048-663501	q1	q2	OK	57.8447	73.381	0.343223	-0.69756	0.485455	0.964002
gene629	gene629	SACOL0632	gi 57650036 ref NC_002951.2 :663513-664278	q1	q2	OK	47.3413	57.9117	0.290755	-0.60195	0.547207	0.979019
gene63	gene63	SACOL0066	gi 57650036 ref NC_002951.2 :76214-76316	q1	q2	NOTEST	0	0	0	0	1	1
gene630	gene630	SACOL0633	gi 57650036 ref NC_002951.2 :664826-665579	q1	q2	OK	178.803	253.448	0.503318	-0.75415	0.450762	0.948753
gene631	gene631	eutD	gi 57650036 ref NC_002951.2 :665746-666733	q1	q2	OK	309.556	94.2145	-1.71618	2.32763	0.0199316	0.32851
gene632	gene632	SACOL0635	gi 57650036 ref NC_002951.2 :666735-667572	q1	q2	OK	211.357	81.0483	-1.38283	2.252	0.0243224	0.359256
gene633	gene633	mvk	gi 57650036 ref NC_002951.2 :668158-669079	q1	q2	OK	128.85	92.9638	-0.470957	0.83038	0.406326	0.939607
gene634	gene634	mvaD	gi 57650036 ref NC_002951.2 :669083-670067	q1	q2	OK	111.368	100.509	-0.148017	0.259	0.795634	0.987561
gene635	gene635	SACOL0638	gi 57650036 ref NC_002951.2 :670079-671156	q1	q2	OK	106.962	83.5504	-0.356377	0.62151	0.534262	0.9754
gene636	gene636	SACOL0639	gi 57650036 ref NC_002951.2 :671332-671674	q1	q2	OK	73.5944	43.1338	-0.770775	1.4443	0.148655	0.788621

gene637	gene637	SACOL0640	gi 57650036 ref NC_002951.2 :671726-673476	q1	q2	OK	40.3747	45.5786	0.174904	-0.30922	0.757151	0.986963
gene638	gene638	SACOL0641	gi 57650036 ref NC_002951.2 :671726-673476	q1	q2	OK	37.005	37.8828	0.0338245	-0.02681	0.97861	0.998143
gene639	gene639	SACOL0642	gi 57650036 ref NC_002951.2 :673533-673635	q1	q2	NOTEST	0	0	0	0	1	1
gene64	gene64	SACOL0067	gi 57650036 ref NC_002951.2 :76614-77547	q1	q2	OK	112.6	72.9701	-0.625825	1.1566	0.247435	0.869586
gene640	gene640	SACOL0643	gi 57650036 ref NC_002951.2 :674100-675510	q1	q2	OK	63.1629	55.4939	-0.186748	0.34362	0.731131	0.986963
gene641	gene641	SACOL0644	gi 57650036 ref NC_002951.2 :675513-676140	q1	q2	OK	19.6961	23.811	0.273719	-0.51939	0.603492	0.986963
gene642	gene642	SACOL0645	gi 57650036 ref NC_002951.2 :676265-676907	q1	q2	OK	19.0711	31.0951	0.705297	-1.36161	0.173322	0.819812
gene643	gene643	SACOL0646	gi 57650036 ref NC_002951.2 :676994-677612	q1	q2	OK	23.9548	35.2397	0.556889	-1.093	0.274392	0.879877
gene644	gene644	SACOL0647	gi 57650036 ref NC_002951.2 :677686-678316	q1	q2	OK	27.3448	44.9375	0.716652	-1.4364	0.150888	0.790982
gene645	gene645	SACOL0648	gi 57650036 ref NC_002951.2 :678511-679132	q1	q2	OK	14.0727	20.5164	0.543874	-0.99009	0.322129	0.89482
gene646	gene646	SACOL0649	gi 57650036 ref NC_002951.2 :679262-679904	q1	q2	OK	32.0297	41.4602	0.372313	-0.75268	0.451644	0.949479
gene647	gene647	SACOL0650	gi 57650036 ref NC_002951.2 :679950-680580	q1	q2	OK	21.5748	33.7031	0.643534	-1.25503	0.209468	0.830641
gene648	gene648	SACOL0651	gi 57650036 ref NC_002951.2 :681032-681662	q1	q2	OK	15.0522	28.3816	0.914981	-1.71584	0.0861921	0.638501
gene649	gene649	SACOL0652	gi 57650036 ref NC_002951.2 :681776-682427	q1	q2	OK	20.1545	30.78	0.610891	-1.18667	0.235358	0.863102
gene65	gene65	SACOL0068	gi 57650036 ref NC_002951.2 :77909-78113	q1	q2	OK	8.89853	13.3117	0.581053	-0.42175	0.673211	0.986963
gene650	gene650	SACOL0653	gi 57650036 ref NC_002951.2 :682463-683099	q1	q2	OK	30.9556	44.051	0.508974	-1.02803	0.303935	0.892668
gene651	gene651	SACOL0654	gi 57650036 ref NC_002951.2 :683333-683960	q1	q2	OK	21.4637	28.8708	0.427715	-0.82643	0.408558	0.939607
gene652	gene652	SACOL0655	gi 57650036 ref NC_002951.2 :684229-685168	q1	q2	OK	261.736	226.616	-0.207861	0.26206	0.793278	0.987448
gene653	gene653	SACOL0656	gi 57650036 ref NC_002951.2 :685378-685915	q1	q2	OK	615.736	438.551	-0.489565	0.61408	0.539165	0.978583
gene654	gene654	SACOL0657	gi 57650036 ref NC_002951.2 :686083-686560	q1	q2	OK	43.944	62.4552	0.507156	-1.0177	0.30882	0.892668
gene655	gene655	SACOL0658	gi 57650036 ref NC_002951.2 :686599-687895	q1	q2	OK	97.0465	82.9145	-0.227052	0.3727	0.709375	0.986963
gene656	gene656	SACOL0659	gi 57650036 ref NC_002951.2 :687922-688444	q1	q2	OK	147.454	121.597	-0.278163	0.55974	0.575656	0.985265
gene657	gene657	adhP	gi 57650036 ref NC_002951.2 :688942-689953	q1	q2	OK	91.8668	58.7546	-0.644842	1.22571	0.220307	0.848452
gene658	gene658	SACOL0661	gi 57650036 ref NC_002951.2 :690027-690135	q1	q2	NOTEST	0	0	0	0	1	1
gene659	gene659	SACOL0662	gi 57650036 ref NC_002951.2 :690215-692302	q1	q2	OK	149.073	103.615	-0.52479	0.35621	0.721681	0.986963
gene66	gene66	SACOL0069	gi 57650036 ref NC_002951.2 :78161-78458	q1	q2	OK	11.7554	3.46093	-1.76409	1.5959	0.110512	0.717042
gene660	gene660	argS	gi 57650036 ref NC_002951.2 :690215-692302	q1	q2	OK	79.8341	65.351	-0.288796	0.36061	0.718389	0.986963
gene661	gene661	SACOL0664	gi 57650036 ref NC_002951.2 :692690-693326	q1	q2	OK	26.0027	41.7172	0.681979	-1.36103	0.173505	0.819812
gene662	gene662	SACOL0665	gi 57650036 ref NC_002951.2 :693704-694592	q1	q2	OK	62.8802	48.7503	-0.367194	0.75047	0.452974	0.949479
gene663	gene663	SACOL0666	gi 57650036 ref NC_002951.2 :694739-695690	q1	q2	OK	52.1942	47.5071	-0.135747	0.27848	0.780646	0.986963
gene664	gene664	SACOL0667	gi 57650036 ref NC_002951.2 :695744-697248	q1	q2	OK	53.518	35.688	-0.584588	0.62658	0.530932	0.97289
gene665	gene665	SACOL0668	gi 57650036 ref NC_002951.2 :695744-697248	q1	q2	OK	85.9939	65.2342	-0.398605	0.59789	0.549913	0.979019
gene666	gene666	SACOL0669	gi 57650036 ref NC_002951.2 :697383-697890	q1	q2	OK	815.531	174.52	-2.22435	3.01054	0.0026079	0.100744

gene667	gene667	SACOL0670	gi 57650036 ref NC_002951.2 :698051-698768	q1	q2	OK	200.684	77.7168	-1.36863	2.42092	0.0154811	0.288253
gene668	gene668	SACOL0671	gi 57650036 ref NC_002951.2 :698936-699725	q1	q2	OK	486.227	623.156	0.357963	-0.37106	0.710596	0.986963
gene669	gene669	sarA	gi 57650036 ref NC_002951.2 :699975-700350	q1	q2	OK	807.831	1896.73	1.23139	-1.40154	0.161053	0.802655
gene67	gene67	SACOL0070	gi 57650036 ref NC_002951.2 :78529-80204	q1	q2	NOTEST	0	0	0	0	1	1
gene670	gene670	SACOL0673	gi 57650036 ref NC_002951.2 :700497-700617	q1	q2	OK	76.5944	0	-1.79769e+	-1.79769e	0.201324	0.819847
gene671	gene671	SACOL0675	gi 57650036 ref NC_002951.2 :701297-702191	q1	q2	OK	58.3725	68.9762	0.240811	-0.48619	0.626831	0.986963
gene672	gene672	SACOL0676	gi 57650036 ref NC_002951.2 :702421-702646	q1	q2	OK	16.0875	22.7209	0.498075	-0.53163	0.594983	0.985953
gene673	gene673	SACOL0677	gi 57650036 ref NC_002951.2 :702662-702866	q1	q2	OK	26.6956	13.3117	-1.00391	0.87469	0.381742	0.936088
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	q1	q2	OK	41.0127	132.483	1.69166	-3.39079	0.0006969	0.040697
gene675	gene675	SACOL0679	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	44.4504	91.6689	1.04424	-0.81207	0.416752	0.939652
gene676	gene676	SACOL0680	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	74.282	129.892	0.806229	-0.25781	0.796552	0.988213
gene677	gene677	SACOL0681	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	53.2677	119.69	1.16796	-0.27994	0.779522	0.986963
gene678	gene678	SACOL0682	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	58.763	101.427	0.787468	-0.51417	0.607136	0.986963
gene679	gene679	SACOL0684	gi 57650036 ref NC_002951.2 :708245-709439	q1	q2	OK	27.6305	36.5483	0.403543	-0.39921	0.689737	0.986963
gene68	gene68	SACOL0071	gi 57650036 ref NC_002951.2 :78529-80204	q1	q2	NOTEST	0	0	0	0	1	1
gene680	gene680	SACOL0685	gi 57650036 ref NC_002951.2 :708245-709439	q1	q2	OK	94.1551	100.899	0.0998073	-0.11079	0.91178	0.996932
gene681	gene681	SACOL0686	gi 57650036 ref NC_002951.2 :708245-709439	q1	q2	OK	61.5033	87.0147	0.500596	-0.69387	0.487765	0.964002
gene682	gene682	SACOL0687	gi 57650036 ref NC_002951.2 :709778-711821	q1	q2	OK	98.3317	115.237	0.22888	-0.28121	0.778548	0.986963
gene683	gene683	SACOL0688	gi 57650036 ref NC_002951.2 :712980-715480	q1	q2	OK	127.326	325.967	1.3562	-0.88114	0.378242	0.932987
gene684	gene684	SACOL0689	gi 57650036 ref NC_002951.2 :712980-715480	q1	q2	OK	94.5135	274.675	1.53913	-0.84107	0.400311	0.939607
gene685	gene685	SACOL0690	gi 57650036 ref NC_002951.2 :712980-715480	q1	q2	OK	92.9132	430.207	2.21108	-1.27472	0.202408	0.819847
gene686	gene686	sirR	gi 57650036 ref NC_002951.2 :715601-716246	q1	q2	OK	179.79	195.086	0.117792	-0.20428	0.838133	0.996923
gene687	gene687	SACOL0692	gi 57650036 ref NC_002951.2 :716325-717078	q1	q2	OK	38.216	31.5361	-0.277172	0.56739	0.570447	0.985265
gene688	gene688	tagA	gi 57650036 ref NC_002951.2 :717313-718078	q1	q2	OK	44.625	60.637	0.442345	-0.91467	0.360367	0.923053
gene689	gene689	SACOL0694	gi 57650036 ref NC_002951.2 :718138-718933	q1	q2	OK	217.785	112.525	-0.952662	1.53687	0.124326	0.732386
gene69	gene69	SACOL0072	gi 57650036 ref NC_002951.2 :80405-81266	q1	q2	NOTEST	0	0	0	0	1	1
gene690	gene690	SACOL0695	gi 57650036 ref NC_002951.2 :719279-720092	q1	q2	OK	102.885	78.4693	-0.390834	0.75933	0.447657	0.948742
gene691	gene691	tagB	gi 57650036 ref NC_002951.2 :720190-722352	q1	q2	OK	95.7109	65.4557	-0.548164	0.52059	0.602652	0.986963
gene692	gene692	tagX	gi 57650036 ref NC_002951.2 :720190-722352	q1	q2	OK	111.996	68.5821	-0.707542	0.69459	0.487315	0.964002
gene693	gene693	tagD	gi 57650036 ref NC_002951.2 :722414-722813	q1	q2	OK	153.445	87.4122	-0.811816	1.66587	0.09574	0.664499
gene694	gene694	pbp4	gi 57650036 ref NC_002951.2 :722929-724225	q1	q2	OK	68.3224	72.3423	0.0824812	-0.14858	0.881882	0.996932
gene695	gene695	abcA	gi 57650036 ref NC_002951.2 :724645-726373	q1	q2	OK	255.76	103.211	-1.3092	1.48091	0.13863	0.763035
gene696	gene696	SACOL0701	gi 57650036 ref NC_002951.2 :726731-727961	q1	q2	OK	101.668	68.3144	-0.573605	0.98122	0.326486	0.900129

gene697	gene697	SACOL0702	gi 57650036 ref NC_002951.2 :728215-728308	q1	q2	NOTEST	0	0	0	0	1	1
gene698	gene698	SACOL0703	gi 57650036 ref NC_002951.2 :728485-729319	q1	q2	OK	136.672	85.0764	-0.683886	1.24823	0.211948	0.831197
gene699	gene699	SACOL0704	gi 57650036 ref NC_002951.2 :729600-730398	q1	q2	OK	180.897	84.8955	-1.09141	1.8922	0.0584638	0.540443
gene7	gene7	hutH	gi 57650036 ref NC_002951.2 :10919-12434	q1	q2	OK	71.8915	46.2566	-0.636163	1.13451	0.256581	0.875983
gene70	gene70	SACOL0073	gi 57650036 ref NC_002951.2 :81620-82154	q1	q2	NOTEST	0	0	0	0	1	1
gene700	gene700	SACOL0705	gi 57650036 ref NC_002951.2 :730433-732451	q1	q2	OK	92.5263	73.0142	-0.341687	0.33614	0.736764	0.986963
gene701	gene701	SACOL0706	gi 57650036 ref NC_002951.2 :730433-732451	q1	q2	OK	105.669	68.3183	-0.629215	0.63885	0.522924	0.972546
gene702	gene702	SACOL0707	gi 57650036 ref NC_002951.2 :732687-733653	q1	q2	OK	137.676	92.013	-0.581373	0.98945	0.322445	0.89482
gene703	gene703	SACOL0708	gi 57650036 ref NC_002951.2 :733694-734634	q1	q2	OK	152.357	120.307	-0.340733	0.54663	0.58463	0.985265
gene704	gene704	SACOL0709	gi 57650036 ref NC_002951.2 :733694-734634	q1	q2	OK	104.994	79.1801	-0.407097	0.3629	0.716683	0.986963
gene705	gene705	SACOL0710	gi 57650036 ref NC_002951.2 :734749-735247	q1	q2	OK	474.305	514.179	0.116454	-0.15653	0.875615	0.996932
gene706	gene706	SACOL0711	gi 57650036 ref NC_002951.2 :735702-736770	q1	q2	OK	131.183	121.595	-0.109491	0.1714	0.863912	0.996923
gene707	gene707	SACOL0712	gi 57650036 ref NC_002951.2 :736920-737964	q1	q2	OK	26.4278	42.6848	0.691663	-1.42592	0.153891	0.793468
gene708	gene708	SACOL0713	gi 57650036 ref NC_002951.2 :738292-738721	q1	q2	OK	91.2239	41.8754	-1.12331	2.23003	0.0257452	0.369406
gene709	gene709	SACOL0714	gi 57650036 ref NC_002951.2 :738929-739436	q1	q2	OK	212.866	236.907	0.154375	-0.28299	0.777184	0.986963
gene71	gene71	SACOL0074	gi 57650036 ref NC_002951.2 :82253-82988	q1	q2	NOTEST	0	0	0	0	1	1
gene710	gene710	SACOL0715	gi 57650036 ref NC_002951.2 :739548-740472	q1	q2	OK	106.744	77.4239	-0.463309	0.86367	0.387769	0.939006
gene711	gene711	SACOL0716	gi 57650036 ref NC_002951.2 :740478-742195	q1	q2	OK	51.198	46.6921	-0.132907	0.11942	0.904942	0.996932
gene712	gene712	SACOL0717	gi 57650036 ref NC_002951.2 :740478-742195	q1	q2	OK	88.5728	61.7857	-0.519591	0.75617	0.449546	0.948742
gene713	gene713	SACOL0718	gi 57650036 ref NC_002951.2 :742338-744979	q1	q2	OK	119.147	117.108	-0.024907	0.0143	0.988589	0.998143
gene714	gene714	SACOL0720	gi 57650036 ref NC_002951.2 :742338-744979	q1	q2	OK	95.8568	127.346	0.409798	-0.39225	0.694871	0.986963
gene715	gene715	SACOL0721	gi 57650036 ref NC_002951.2 :745703-746321	q1	q2	OK	151.198	74.7325	-1.01664	2.00045	0.0454512	0.481552
gene716	gene716	SACOL0722	gi 57650036 ref NC_002951.2 :746336-747344	q1	q2	OK	140.291	65.0573	-1.10864	1.90099	0.0573035	0.540443
gene717	gene717	SACOL0723	gi 57650036 ref NC_002951.2 :747931-748729	q1	q2	OK	372.457	958.997	1.36445	-1.404	0.160319	0.802655
gene718	gene718	SACOL0724	gi 57650036 ref NC_002951.2 :749089-749734	q1	q2	OK	113.219	62.9309	-0.847281	1.71263	0.0867805	0.638501
gene719	gene719	SACOL0725	gi 57650036 ref NC_002951.2 :750430-752581	q1	q2	OK	35.8127	53.0799	0.567695	-0.97959	0.327287	0.900129
gene72	gene72	SACOL0075	gi 57650036 ref NC_002951.2 :83421-84024	q1	q2	OK	38.3739	39.9582	0.0583644	-0.11794	0.906116	0.996932
gene720	gene720	sarX	gi 57650036 ref NC_002951.2 :752660-753086	q1	q2	OK	22.0595	43.4785	0.978903	-1.77988	0.0750962	0.614566
gene721	gene721	SACOL0727	gi 57650036 ref NC_002951.2 :753275-754465	q1	q2	OK	249.219	140.583	-0.825992	1.01089	0.312068	0.892668
gene722	gene722	SACOL0728	gi 57650036 ref NC_002951.2 :753275-754465	q1	q2	OK	152.853	89.881	-0.766053	0.54985	0.582423	0.985265
gene723	gene723	SACOL0730	gi 57650036 ref NC_002951.2 :754817-755462	q1	q2	OK	189.752	128.436	-0.563061	1.02319	0.306219	0.892668
gene724	gene724	SACOL0731	gi 57650036 ref NC_002951.2 :755577-756444	q1	q2	OK	164.831	101.459	-0.70009	1.18206	0.237183	0.863102
gene725	gene725	SACOL0733	gi 57650036 ref NC_002951.2 :756782-758488	q1	q2	OK	87.3717	52.0939	-0.746053	1.00032	0.317155	0.892668

gene726	gene726	SACOL0734	gi 57650036 ref NC_002951.2 :756782-758488	q1	q2	OK	113.509	89.3654	-0.34502	0.30539	0.760072	0.986963
gene727	gene727	SACOL0735	gi 57650036 ref NC_002951.2 :758586-759276	q1	q2	OK	70.141	53.1782	-0.399422	0.82526	0.409224	0.939607
gene728	gene728	SACOL0736	gi 57650036 ref NC_002951.2 :759402-759846	q1	q2	OK	22.7178	24.7966	0.12632	-0.22358	0.823086	0.992727
gene729	gene729	SACOL0737	gi 57650036 ref NC_002951.2 :759912-760308	q1	q2	OK	131.007	172.322	0.395464	-0.81698	0.41394	0.939652
gene73	gene73	SACOL0076	gi 57650036 ref NC_002951.2 :84290-87443	q1	q2	OK	29.5583	33.883	0.196996	-0.33218	0.739755	0.986963
gene730	gene730	SACOL0738	gi 57650036 ref NC_002951.2 :760445-760745	q1	q2	OK	128.118	164.175	0.357754	-0.72713	0.467148	0.954346
gene731	gene731	SACOL0739	gi 57650036 ref NC_002951.2 :760824-761367	q1	q2	OK	42.6786	66.0637	0.630344	-1.28517	0.198731	0.819847
gene732	gene732	SACOL0740	gi 57650036 ref NC_002951.2 :761462-762029	q1	q2	OK	111.302	83.6168	-0.41261	0.84522	0.397987	0.939607
gene733	gene733	SACOL0741	gi 57650036 ref NC_002951.2 :762030-762489	q1	q2	OK	84.1725	49.7728	-0.75799	1.53392	0.12505	0.732386
gene734	gene734	SACOL0742	gi 57650036 ref NC_002951.2 :762491-763175	q1	q2	OK	514.001	541.312	0.0746911	-0.08268	0.934105	0.996932
gene735	gene735	uppP	gi 57650036 ref NC_002951.2 :763346-764222	q1	q2	OK	55.6068	51.1201	-0.121373	0.24956	0.802927	0.989625
gene736	gene736	SACOL0744	gi 57650036 ref NC_002951.2 :764440-767742	q1	q2	OK	69.4601	87.6912	0.336247	-0.27687	0.781882	0.986963
gene737	gene737	SACOL0745	gi 57650036 ref NC_002951.2 :764440-767742	q1	q2	OK	74.4348	78.9253	0.0845097	-0.0698	0.944351	0.996932
gene738	gene738	norR	gi 57650036 ref NC_002951.2 :767868-768312	q1	q2	OK	458.984	280.354	-0.711196	1.1648	0.244099	0.869586
gene739	gene739	SACOL0747	gi 57650036 ref NC_002951.2 :768538-769465	q1	q2	OK	34.627	31.8042	-0.122682	0.25385	0.79961	0.989562
gene74	gene74	SACOL0077	gi 57650036 ref NC_002951.2 :87499-87982	q1	q2	OK	44.2088	50.6393	0.195922	-0.39048	0.69618	0.986963
gene740	gene740	SACOL0748	gi 57650036 ref NC_002951.2 :769567-770476	q1	q2	OK	60.4702	80.4795	0.412397	-0.8178	0.413471	0.939652
gene741	gene741	SACOL0749	gi 57650036 ref NC_002951.2 :770510-770798	q1	q2	OK	76.8297	112.561	0.550967	-1.05418	0.291801	0.891156
gene742	gene742	SACOL0750	gi 57650036 ref NC_002951.2 :771080-772634	q1	q2	OK	69.6998	73.3909	0.0744463	-0.12342	0.901771	0.996932
gene743	gene743	SACOL0751	gi 57650036 ref NC_002951.2 :772719-774093	q1	q2	OK	130.388	75.7097	-0.784266	1.17781	0.238871	0.863492
gene744	gene744	SACOL0752	gi 57650036 ref NC_002951.2 :774528-775146	q1	q2	OK	73.4098	88.0993	0.263157	-0.54236	0.587572	0.985265
gene745	gene745	SACOL0753	gi 57650036 ref NC_002951.2 :775331-775754	q1	q2	OK	69.694	60.529	-0.203408	0.40922	0.682382	0.986963
gene746	gene746	norA	gi 57650036 ref NC_002951.2 :775962-777129	q1	q2	OK	74.7229	110.038	0.558375	-0.94942	0.342409	0.905587
gene747	gene747	SACOL0755	gi 57650036 ref NC_002951.2 :777421-777874	q1	q2	OK	102.654	797.407	2.95753	-4.32353	1.54E-05	0.0055082
gene748	gene748	SACOL0756	gi 57650036 ref NC_002951.2 :778047-778530	q1	q2	OK	49.3665	46.6762	-0.080846	0.16137	0.871805	0.996923
gene749	gene749	SACOL0757	gi 57650036 ref NC_002951.2 :778779-780461	q1	q2	OK	25.0288	43.6041	0.800874	-0.64343	0.519945	0.971416
gene75	gene75	plc	gi 57650036 ref NC_002951.2 :88186-89173	q1	q2	OK	32.6518	41.2702	0.337939	-0.69968	0.484125	0.963899
gene750	gene750	fruK	gi 57650036 ref NC_002951.2 :778779-780461	q1	q2	OK	84.2602	102.995	0.289645	-0.43767	0.661627	0.986963
gene751	gene751	SACOL0759	gi 57650036 ref NC_002951.2 :780466-782424	q1	q2	OK	39.0305	48.9425	0.326487	-0.58784	0.55664	0.981874
gene752	gene752	nagA	gi 57650036 ref NC_002951.2 :782731-783913	q1	q2	OK	53.6428	60.4792	0.173053	-0.33745	0.735782	0.986963
gene753	gene753	SACOL0762	gi 57650036 ref NC_002951.2 :784133-785483	q1	q2	OK	113.068	170.167	0.589758	-0.78249	0.433926	0.940247
gene754	gene754	SACOL0763	gi 57650036 ref NC_002951.2 :785704-786544	q1	q2	OK	149.58	198.577	0.408783	-0.63304	0.526706	0.97289
gene755	gene755	SACOL0764	gi 57650036 ref NC_002951.2 :786675-787659	q1	q2	OK	168.4	193.26	0.198654	-0.2772	0.781625	0.986963

gene756	gene756	saeS	gi 57650036 ref NC_002951.2 :787730-789920	q1	q2	OK	271.391	523.2	0.946989	-0.68935	0.490603	0.964002
gene757	gene757	saeR	gi 57650036 ref NC_002951.2 :787730-789920	q1	q2	OK	224.591	415.632	0.888007	-0.44291	0.657832	0.986963
gene758	gene758	SACOL0767	gi 57650036 ref NC_002951.2 :787730-789920	q1	q2	OK	155.128	412.182	1.40982	-0.49008	0.624075	0.986963
gene759	gene759	SACOL0768	gi 57650036 ref NC_002951.2 :790261-790702	q1	q2	OK	114.843	381.388	1.7316	-3.17037	0.0015225	0.0695075
gene76	gene76	SACOL0079	gi 57650036 ref NC_002951.2 :89393-90164	q1	q2	OK	3.26548	1.34873	-1.27569	1.43441	0.151454	0.792296
gene760	gene760	SACOL0769	gi 57650036 ref NC_002951.2 :790981-791566	q1	q2	OK	80.6267	81.1907	0.0100576	-0.0208	0.983402	0.998143
gene761	gene761	SACOL0770	gi 57650036 ref NC_002951.2 :791664-792378	q1	q2	OK	104.396	95.081	-0.134832	0.26606	0.790191	0.986986
gene762	gene762	SACOL0771	gi 57650036 ref NC_002951.2 :792381-792801	q1	q2	OK	60.8475	42.9057	-0.50403	0.98526	0.324497	0.899351
gene763	gene763	SACOL0772	gi 57650036 ref NC_002951.2 :792802-793471	q1	q2	OK	46.0272	45.4129	-0.019383	0.03997	0.968116	0.996932
gene764	gene764	pabA	gi 57650036 ref NC_002951.2 :793821-796158	q1	q2	OK	49.8002	48.2273	-0.046301	0.04461	0.964414	0.996932
gene765	gene765	SACOL0774	gi 57650036 ref NC_002951.2 :793821-796158	q1	q2	OK	31.3179	36.3049	0.213179	-0.3325	0.739515	0.986963
gene766	gene766	SACOL0776	gi 57650036 ref NC_002951.2 :796517-798216	q1	q2	OK	77.6635	37.7978	-1.03893	1.08017	0.280065	0.879877
gene767	gene767	SACOL0777	gi 57650036 ref NC_002951.2 :796517-798216	q1	q2	OK	68.1846	59.8266	-0.188658	0.26202	0.793304	0.987448
gene768	gene768	SACOL0778	gi 57650036 ref NC_002951.2 :798689-800630	q1	q2	OK	617.236	235.872	-1.38782	1.311	0.189859	0.819847
gene769	gene769	SACOL0779	gi 57650036 ref NC_002951.2 :800906-802784	q1	q2	OK	154.908	80.1935	-0.949855	1.18185	0.237264	0.863102
gene77	gene77	SACOL0080	gi 57650036 ref NC_002951.2 :90215-90986	q1	q2	OK	9.41228	10.3403	0.135659	-0.2365	0.813046	0.991128
gene770	gene770	recQ1	gi 57650036 ref NC_002951.2 :802795-804577	q1	q2	OK	228.849	90.2993	-1.34161	1.55786	0.119266	0.725355
gene771	gene771	SACOL0781	gi 57650036 ref NC_002951.2 :804798-807283	q1	q2	OK	159.931	210.682	0.397619	-0.28701	0.774104	0.986963
gene772	gene772	opuBB	gi 57650036 ref NC_002951.2 :804798-807283	q1	q2	OK	115.267	136.189	0.240631	-0.18516	0.853103	0.996923
gene773	gene773	hisC	gi 57650036 ref NC_002951.2 :807522-808581	q1	q2	OK	57.4209	77.8717	0.439524	-0.84867	0.396068	0.939607
gene774	gene774	SACOL0785	gi 57650036 ref NC_002951.2 :808931-809474	q1	q2	OK	72.3681	84.7817	0.228399	-0.4734	0.635932	0.986963
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	q1	q2	OK	63.7499	91.4513	0.520581	-0.5172	0.605018	0.986963
gene776	gene776	SACOL0787	gi 57650036 ref NC_002951.2 :810153-811071	q1	q2	OK	240.826	310.064	0.364577	-0.44439	0.656759	0.986963
gene777	gene777	SACOL0788	gi 57650036 ref NC_002951.2 :811340-812846	q1	q2	OK	207.788	60.8623	-1.77149	2.33892	0.0193394	0.323741
gene778	gene778	SACOL0789	gi 57650036 ref NC_002951.2 :813186-813687	q1	q2	OK	86.4077	45.6987	-0.919006	1.86778	0.0617929	0.552335
gene779	gene779	SACOL0790	gi 57650036 ref NC_002951.2 :813706-814573	q1	q2	OK	76.2032	49.28	-0.628848	1.27073	0.203825	0.821517
gene78	gene78	SACOL0081	gi 57650036 ref NC_002951.2 :91049-91214	q1	q2	NOTEST	0	0	0	0	1	1
gene780	gene780	SACOL0790.1	gi 57650036 ref NC_002951.2 :814957-815224	q1	q2	OK	64.8777	164.508	1.34236	-2.50827	0.0121324	0.249708
gene781	gene781	nrdI	gi 57650036 ref NC_002951.2 :815373-817840	q1	q2	OK	1338.24	514.693	-1.37856	0.51023	0.609888	0.986963
gene782	gene782	nrdE	gi 57650036 ref NC_002951.2 :815373-817840	q1	q2	OK	703.233	344.221	-1.03067	0.86862	0.385058	0.938503
gene783	gene783	nrdF	gi 57650036 ref NC_002951.2 :817957-818929	q1	q2	OK	430.245	307.115	-0.486379	0.52638	0.598622	0.986963
gene784	gene784	SACOL0794	gi 57650036 ref NC_002951.2 :819061-819166	q1	q2	NOTEST	0	0	0	0	1	1
gene785	gene785	SACOL0796	gi 57650036 ref NC_002951.2 :819636-822309	q1	q2	OK	64.22	46.0756	-0.479018	0.5746	0.565562	0.985265

gene786	gene786	SACOL0797	gi 57650036 ref NC_002951.2 :819636-822309	q1	q2	OK	30.8139	30.572	-0.011369	0.01014	0.99191	0.998143
gene787	gene787	SACOL0798	gi 57650036 ref NC_002951.2 :819636-822309	q1	q2	OK	31.5906	41.5471	0.395252	-0.32815	0.742797	0.986963
gene788	gene788	SACOL0799	gi 57650036 ref NC_002951.2 :822427-823456	q1	q2	OK	52.0301	45.7852	-0.184463	0.37598	0.706931	0.986963
gene789	gene789	SACOL0800	gi 57650036 ref NC_002951.2 :823772-824087	q1	q2	OK	41.2268	32.9329	-0.324056	0.54863	0.583263	0.985265
gene79	gene79	SACOL0082	gi 57650036 ref NC_002951.2 :91226-91823	q1	q2	NOTEST	0.540447	0.319188	-0.759749	0.37723	0.706004	1
gene790	gene790	murB	gi 57650036 ref NC_002951.2 :824104-825028	q1	q2	OK	71.5203	61.1899	-0.22506	0.44935	0.653179	0.986963
gene791	gene791	SACOL0802	gi 57650036 ref NC_002951.2 :825154-825673	q1	q2	OK	24.1256	27.5247	0.190164	-0.35568	0.722077	0.986963
gene792	gene792	SACOL0803	gi 57650036 ref NC_002951.2 :825792-826671	q1	q2	OK	56.5118	47.4812	-0.251197	0.51681	0.605292	0.986963
gene793	gene793	SACOL0804	gi 57650036 ref NC_002951.2 :826824-827145	q1	q2	OK	182.004	242.544	0.414273	-0.85768	0.391068	0.939607
gene794	gene794	SACOL0805	gi 57650036 ref NC_002951.2 :827569-828694	q1	q2	OK	229.424	115.082	-0.995349	1.33831	0.180796	0.819812
gene795	gene795	pepT	gi 57650036 ref NC_002951.2 :828882-830109	q1	q2	OK	184.571	136.515	-0.435117	0.57229	0.567126	0.985265
gene796	gene796	SACOL0807	gi 57650036 ref NC_002951.2 :830122-830617	q1	q2	OK	32.2901	31.7568	-0.024025	0.04589	0.963396	0.996932
gene797	gene797	SACOL0808	gi 57650036 ref NC_002951.2 :830634-831396	q1	q2	OK	28.6656	33.1007	0.207544	-0.42197	0.673049	0.986963
gene798	gene798	SACOL0809	gi 57650036 ref NC_002951.2 :831591-832662	q1	q2	OK	44.864	42.5784	-0.075435	0.15464	0.877105	0.996932
gene799	gene799	SACOL0810	gi 57650036 ref NC_002951.2 :832979-834035	q1	q2	OK	68.695	56.0301	-0.294004	0.57735	0.563705	0.985191
gene8	gene8	serS	gi 57650036 ref NC_002951.2 :12812-14099	q1	q2	OK	60.0825	53.7708	-0.160122	0.30589	0.759686	0.986963
gene80	gene80	SACOL0083	gi 57650036 ref NC_002951.2 :91889-92657	q1	q2	OK	1.73745	2.25941	0.378975	-0.42815	0.668546	0.986963
gene800	gene800	SACOL0811	gi 57650036 ref NC_002951.2 :834204-834846	q1	q2	OK	175.308	160.946	-0.123313	0.22234	0.824048	0.992727
gene801	gene801	SACOL0812	gi 57650036 ref NC_002951.2 :834989-835856	q1	q2	OK	224.799	92.3759	-1.28305	2.00297	0.0451809	0.481552
gene802	gene802	SACOL0813	gi 57650036 ref NC_002951.2 :836219-837969	q1	q2	OK	39.0883	59.7848	0.613041	-0.82695	0.408267	0.939607
gene803	gene803	SACOL0814	gi 57650036 ref NC_002951.2 :836219-837969	q1	q2	OK	55.9944	80.5859	0.525246	-0.61814	0.536485	0.977586
gene804	gene804	SACOL0815	gi 57650036 ref NC_002951.2 :838029-838602	q1	q2	OK	1984.82	813.828	-1.28621	1.25255	0.210371	0.830641
gene805	gene805	secA	gi 57650036 ref NC_002951.2 :839015-841547	q1	q2	OK	194.071	118.891	-0.706942	0.72534	0.468241	0.954346
gene806	gene806	SACOL0817	gi 57650036 ref NC_002951.2 :841588-841693	q1	q2	NOTEST	0	0	0	0	1	1
gene807	gene807	prfB	gi 57650036 ref NC_002951.2 :841861-842972	q1	q2	OK	115.988	82.6273	-0.489281	0.82716	0.408147	0.939607
gene808	gene808	SACOL0819	gi 57650036 ref NC_002951.2 :843125-843233	q1	q2	NOTEST	0	0	0	0	1	1
gene809	gene809	SACOL0820	gi 57650036 ref NC_002951.2 :843380-844220	q1	q2	OK	29.1233	43.8601	0.590732	-1.21655	0.223776	0.853955
gene81	gene81	SACOL0084	gi 57650036 ref NC_002951.2 :92789-94988	q1	q2	OK	62.8131	66.3773	0.0796249	-0.11673	0.907071	0.996932
gene810	gene810	SACOL0821	gi 57650036 ref NC_002951.2 :844393-845277	q1	q2	OK	65.0222	50.8293	-0.355271	0.69148	0.489266	0.964002
gene811	gene811	SACOL0822	gi 57650036 ref NC_002951.2 :844393-845277	q1	q2	OK	45.4054	67.1928	0.565442	-0.38711	0.698673	0.986963
gene812	gene812	uvrB	gi 57650036 ref NC_002951.2 :845539-847531	q1	q2	OK	126.449	109.714	-0.204803	0.24486	0.806563	0.990842
gene813	gene813	uvrA	gi 57650036 ref NC_002951.2 :847538-850385	q1	q2	OK	137.27	101.311	-0.438223	0.4629	0.643435	0.986963
gene814	gene814	hprK	gi 57650036 ref NC_002951.2 :850991-851924	q1	q2	OK	201.438	199.875	-0.011243	0.01541	0.987702	0.998143

gene815	gene815	lgt	gi 57650036 ref NC_002951.2 :851929-852769	q1	q2	OK	109.945	137.012	0.317526	-0.56367	0.572982	0.985265
gene816	gene816	SACOL0827	gi 57650036 ref NC_002951.2 :852776-853262	q1	q2	OK	81.3767	92.8651	0.190522	-0.39484	0.692962	0.986963
gene817	gene817	SACOL0828	gi 57650036 ref NC_002951.2 :853269-854709	q1	q2	OK	56.8508	53.4335	-0.089435	0.1669	0.867447	0.996923
gene818	gene818	trxB	gi 57650036 ref NC_002951.2 :854775-855711	q1	q2	OK	843.605	818.786	-0.043082	0.03999	0.9681	0.996932
gene819	gene819	SACOL0830	gi 57650036 ref NC_002951.2 :856420-858324	q1	q2	OK	145.196	142.345	-0.028608	0.01645	0.986872	0.998143
gene82	gene82	SACOL0085	gi 57650036 ref NC_002951.2 :95138-96317	q1	q2	OK	35.2576	35.3083	0.0020727	-0.00428	0.996589	0.998434
gene820	gene820	SACOL0831	gi 57650036 ref NC_002951.2 :856420-858324	q1	q2	OK	243.551	328.947	0.433634	-0.36721	0.713463	0.986963
gene821	gene821	SACOL0832	gi 57650036 ref NC_002951.2 :858433-859378	q1	q2	OK	272.377	333.085	0.290288	-0.33733	0.735867	0.986963
gene823	gene823	clpP	gi 57650036 ref NC_002951.2 :859950-860538	q1	q2	OK	307.499	404.254	0.394682	-0.55078	0.581785	0.985265
gene824	gene824	SACOL0834	gi 57650036 ref NC_002951.2 :860780-861683	q1	q2	OK	113.423	102.447	-0.14683	0.26461	0.791309	0.986986
gene825	gene825	SACOL0835	gi 57650036 ref NC_002951.2 :862386-863016	q1	q2	OK	392.36	631.194	0.685905	-0.80324	0.421835	0.939652
gene826	gene826	SACOL0836	gi 57650036 ref NC_002951.2 :863204-863351	q1	q2	NOTEST	0	0	0	0	1	1
gene827	gene827	gapR	gi 57650036 ref NC_002951.2 :863775-864789	q1	q2	OK	225.362	538.019	1.25541	-1.36416	0.172518	0.819812
gene828	gene828	gapA1	gi 57650036 ref NC_002951.2 :864841-865852	q1	q2	OK	222.046	723.416	1.70397	-1.80688	0.0707803	0.590463
gene829	gene829	pgk	gi 57650036 ref NC_002951.2 :865990-867181	q1	q2	OK	115.391	263.104	1.1891	-1.51307	0.130262	0.739969
gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	q1	q2	OK	83.4875	106.781	0.355016	-0.55007	0.582269	0.985265
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	q1	q2	OK	105.692	298.135	1.4961	-2.274	0.0229661	0.343261
gene831	gene831	pgm	gi 57650036 ref NC_002951.2 :868066-869584	q1	q2	OK	103.441	241.658	1.22416	-1.46101	0.144013	0.77767
gene832	gene832	eno	gi 57650036 ref NC_002951.2 :869713-871018	q1	q2	OK	393.964	309.438	-0.348416	0.34845	0.727504	0.986963
gene833	gene833	SACOL0843	gi 57650036 ref NC_002951.2 :871357-871816	q1	q2	OK	154.383	74.6593	-1.04812	2.13684	0.0326112	0.420136
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	q1	q2	OK	605.288	269.881	-1.1653	2.35495	0.0185251	0.315668
gene835	gene835	est	gi 57650036 ref NC_002951.2 :872231-872972	q1	q2	OK	154.455	102.326	-0.594007	1.08809	0.276555	0.879877
gene836	gene836	SACOL0846	gi 57650036 ref NC_002951.2 :873005-875378	q1	q2	OK	198.842	151.312	-0.394101	0.39715	0.691258	0.986963
gene837	gene837	smpB	gi 57650036 ref NC_002951.2 :875399-875864	q1	q2	OK	271.626	166.756	-0.703886	1.33147	0.183033	0.819812
gene838	gene838	SACOL_SatmF	gi 57650036 ref NC_002951.2 :875954-876313	q1	q2	OK	106957	114813	0.102251	-0.14731	0.882889	0.996932
gene839	gene839	SACOL0848	gi 57650036 ref NC_002951.2 :876637-876919	q1	q2	OK	53.2482	79.4786	0.577833	-1.03641	0.300012	0.892668
gene84	gene84	SACOL0087	gi 57650036 ref NC_002951.2 :97874-97982	q1	q2	NOTEST	0	0	0	0	1	1
gene840	gene840	SACOL0849	gi 57650036 ref NC_002951.2 :877185-877509	q1	q2	OK	94.8411	50.4748	-0.909949	1.72366	0.0847684	0.638501
gene841	gene841	SACOL0850	gi 57650036 ref NC_002951.2 :877524-877671	q1	q2	OK	48.1045	27.7808	-0.792084	0.41829	0.675738	0.986963
gene842	gene842	SACOL0851	gi 57650036 ref NC_002951.2 :877862-878591	q1	q2	OK	81.5675	52.529	-0.63488	1.29919	0.193877	0.819847
gene843	gene843	SACOL0853	gi 57650036 ref NC_002951.2 :879026-879182	q1	q2	OK	33.7848	0	-1.79769e+	-1.79769e	0.075138	0.614566
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	q1	q2	OK	64.2246	86.1311	0.423409	-0.87562	0.381239	0.935769
gene845	gene845	SACOL0855	gi 57650036 ref NC_002951.2 :879849-880380	q1	q2	OK	76.0468	67.2005	-0.178415	0.3692	0.711978	0.986963

gene846	gene846	clfA	gi 57650036 ref NC_002951.2 :880642-883444	q1	q2	OK	514.471	1608.13	1.64422	-1.59019	0.111793	0.717934
gene847	gene847	SACOL0857	gi 57650036 ref NC_002951.2 :883664-885191	q1	q2	OK	25.7101	41.8102	0.701521	-1.40943	0.158707	0.801753
gene848	gene848	empbp	gi 57650036 ref NC_002951.2 :885541-886564	q1	q2	OK	37.5029	49.2597	0.393407	-0.80865	0.418716	0.939652
gene849	gene849	SACOL0859	gi 57650036 ref NC_002951.2 :886898-887369	q1	q2	OK	44.4347	53.2054	0.259887	-0.51721	0.605011	0.986963
gene85	gene85	SACOL0088	gi 57650036 ref NC_002951.2 :98199-99861	q1	q2	OK	68.6062	153.856	1.16517	-1.56635	0.117266	0.723345
gene850	gene850	nuc	gi 57650036 ref NC_002951.2 :887709-888396	q1	q2	OK	20.9856	29.894	0.510455	-1.00178	0.316451	0.892668
gene851	gene851	SACOL0861	gi 57650036 ref NC_002951.2 :888752-888953	q1	q2	OK	16060.6	4299.58	-1.90126	2.14715	0.0317815	0.419363
gene852	gene852	SACOL0862	gi 57650036 ref NC_002951.2 :889448-889667	q1	q2	OK	320.014	140.088	-1.1918	2.2224	0.0262563	0.372484
gene853	gene853	SACOL0863	gi 57650036 ref NC_002951.2 :889728-890013	q1	q2	OK	77.8136	56.6118	-0.458919	0.82817	0.407572	0.939607
gene854	gene854	SACOL0864	gi 57650036 ref NC_002951.2 :890100-890670	q1	q2	OK	49.6098	55.6542	0.165864	-0.3405	0.733481	0.986963
gene855	gene855	SACOL0865	gi 57650036 ref NC_002951.2 :891074-891335	q1	q2	OK	41.4306	18.3109	-1.17799	1.61225	0.106907	0.706427
gene856	gene856	SACOL0866	gi 57650036 ref NC_002951.2 :891639-891744	q1	q2	NOTEST	0	0	0	0	1	1
gene857	gene857	SACOL0868	gi 57650036 ref NC_002951.2 :891875-892112	q1	q2	OK	886.247	1091.3	0.300272	-0.57729	0.563745	0.985191
gene858	gene858	SACOL0869	gi 57650036 ref NC_002951.2 :892327-892918	q1	q2	OK	46.0434	39.8369	-0.208888	0.42406	0.67152	0.986963
gene859	gene859	SACOL0870	gi 57650036 ref NC_002951.2 :892990-893608	q1	q2	OK	53.8338	82.9348	0.623465	-1.28701	0.198092	0.819847
gene86	gene86	SACOL0089	gi 57650036 ref NC_002951.2 :100186-101962	q1	q2	OK	31.8693	39.5095	0.310032	-0.60463	0.545428	0.979019
gene860	gene860	SACOL0871	gi 57650036 ref NC_002951.2 :893762-894257	q1	q2	OK	78.0639	77.0631	-0.018614	0.03852	0.969276	0.996932
gene861	gene861	SACOL0872	gi 57650036 ref NC_002951.2 :894655-895078	q1	q2	OK	108.868	168.931	0.633848	-1.30485	0.191944	0.819847
gene862	gene862	aroD	gi 57650036 ref NC_002951.2 :895225-895942	q1	q2	OK	40.9387	40.8384	-0.003537	0.00729	0.994186	0.998143
gene863	gene863	SACOL0874	gi 57650036 ref NC_002951.2 :896024-896564	q1	q2	OK	303.038	103.999	-1.54294	2.72138	0.0065009	0.16657
gene864	gene864	SACOL0875	gi 57650036 ref NC_002951.2 :896713-897034	q1	q2	OK	130.982	185.25	0.500103	-1.02995	0.303034	0.892668
gene865	gene865	SACOL0876	gi 57650036 ref NC_002951.2 :897177-897534	q1	q2	OK	245.014	144.081	-0.765987	1.56554	0.117457	0.723345
gene866	gene866	gcvH	gi 57650036 ref NC_002951.2 :897691-898072	q1	q2	OK	611.908	489.355	-0.322433	0.50324	0.614797	0.986963
gene867	gene867	SACOL0879	gi 57650036 ref NC_002951.2 :898250-899129	q1	q2	OK	44.2974	31.3376	-0.49933	1.03121	0.302442	0.892668
gene868	gene868	SACOL0880	gi 57650036 ref NC_002951.2 :899870-900546	q1	q2	OK	111.472	89.9525	-0.309451	0.50251	0.61531	0.986963
gene869	gene869	SACOL0881	gi 57650036 ref NC_002951.2 :899870-900546	q1	q2	OK	141.065	72.6795	-0.956738	1.18084	0.237667	0.863102
gene87	gene87	SACOL0090	gi 57650036 ref NC_002951.2 :102135-103008	q1	q2	NOTEST	0	0	0	0	1	1
gene870	gene870	SACOL0882	gi 57650036 ref NC_002951.2 :900795-902509	q1	q2	OK	107.528	38.7344	-1.47302	2.02404	0.0429658	0.472836
gene871	gene871	SACOL0883	gi 57650036 ref NC_002951.2 :900795-902509	q1	q2	OK	63.1978	45.8583	-0.462693	0.43033	0.666959	0.986963
gene872	gene872	SACOL0884	gi 57650036 ref NC_002951.2 :902526-903348	q1	q2	OK	71.1859	59.1612	-0.266941	0.5433	0.586923	0.985265
gene873	gene873	SACOL0885	gi 57650036 ref NC_002951.2 :903490-904711	q1	q2	OK	24.3981	30.6959	0.331275	-0.68605	0.492684	0.964002
gene874	gene874	sek	gi 57650036 ref NC_002951.2 :904799-905528	q1	q2	OK	29.736	41.1518	0.468744	-0.95654	0.3388	0.905587
gene875	gene875	sei	gi 57650036 ref NC_002951.2 :905551-906280	q1	q2	OK	18.998	41.3939	1.12357	-2.23354	0.0255132	0.368182

gene876	gene876	SACOL0888	gi 57650036 ref NC_002951.2 :906349-906781	q1	q2	OK	29.9141	51.4494	0.782327	-1.48481	0.137595	0.761017
gene877	gene877	SACOL0889	gi 57650036 ref NC_002951.2 :906797-907256	q1	q2	OK	22.3396	40.6797	0.864706	-1.59983	0.109636	0.715052
gene878	gene878	SACOL0890	gi 57650036 ref NC_002951.2 :907267-907600	q1	q2	OK	36.7006	59.7706	0.70363	-1.27373	0.202758	0.819847
gene879	gene879	SACOL0891	gi 57650036 ref NC_002951.2 :907792-908321	q1	q2	OK	49.872	88.3552	0.825086	-1.2806	0.200335	0.819847
gene88	gene88	SACOL0091	gi 57650036 ref NC_002951.2 :103120-104518	q1	q2	NOTEST	0	0	0	0	1	1
gene880	gene880	SACOL0892	gi 57650036 ref NC_002951.2 :907792-908321	q1	q2	OK	15.5698	37.7714	1.27854	-1.24499	0.213137	0.831197
gene881	gene881	SACOL0893	gi 57650036 ref NC_002951.2 :908332-908681	q1	q2	NOTEST	0	0	0	0	1	1
gene882	gene882	SACOL0894	gi 57650036 ref NC_002951.2 :908332-908681	q1	q2	NOTEST	0	0	0	0	1	1
gene883	gene883	SACOL0895	gi 57650036 ref NC_002951.2 :908683-909004	q1	q2	NOTEST	0	0	0	0	1	1
gene884	gene884	SACOL0896	gi 57650036 ref NC_002951.2 :909067-909937	q1	q2	NOTEST	0	0	0	0	1	1
gene885	gene885	SACOL0897	gi 57650036 ref NC_002951.2 :909953-911411	q1	q2	NOTEST	0	0	0	0	1	1
gene886	gene886	SACOL0898	gi 57650036 ref NC_002951.2 :911711-912074	q1	q2	NOTEST	0	0	0	0	1	1
gene887	gene887	SACOL0899	gi 57650036 ref NC_002951.2 :912075-912998	q1	q2	NOTEST	0	0	0	0	1	1
gene888	gene888	SACOL0900	gi 57650036 ref NC_002951.2 :912075-912998	q1	q2	OK	29.0957	30.8072	0.0824606	-0.16241	0.870987	0.996923
gene889	gene889	SACOL0901	gi 57650036 ref NC_002951.2 :913514-913856	q1	q2	OK	68.9111	43.9633	-0.648436	1.21296	0.225145	0.857109
gene89	gene89	SACOL0092	gi 57650036 ref NC_002951.2 :104707-105181	q1	q2	OK	93.6838	132.098	0.495735	-1.02271	0.306444	0.892668
gene890	gene890	SACOL0902	gi 57650036 ref NC_002951.2 :913867-914446	q1	q2	OK	77.5759	44.7136	-0.794895	1.62995	0.103112	0.686774
gene891	gene891	SACOL0903	gi 57650036 ref NC_002951.2 :914463-914682	q1	q2	OK	366.683	124.169	-1.56223	2.88594	0.0039024	0.12949
gene892	gene892	SACOL0904	gi 57650036 ref NC_002951.2 :914732-915260	q1	q2	OK	63.1505	56.6784	-0.155994	0.32045	0.748626	0.986963
gene893	gene893	SACOL0905	gi 57650036 ref NC_002951.2 :915262-916170	q1	q2	OK	54.8613	43.1338	-0.346968	0.39679	0.691523	0.986963
gene894	gene894	SACOL0906	gi 57650036 ref NC_002951.2 :915262-916170	q1	q2	OK	44.995	47.1183	0.0665233	-0.11438	0.90894	0.996932
gene895	gene895	seb	gi 57650036 ref NC_002951.2 :916477-917278	q1	q2	NOTEST	0	0	0	0	1	1
gene896	gene896	SACOL0908	gi 57650036 ref NC_002951.2 :917355-917913	q1	q2	NOTEST	0	0	0	0	1	1
gene897	gene897	SACOL0909	gi 57650036 ref NC_002951.2 :918285-918438	q1	q2	OK	151.319	215.539	0.510352	-0.60771	0.543382	0.979019
gene898	gene898	SACOL0910	gi 57650036 ref NC_002951.2 :918508-918806	q1	q2	NOTEST	0	0	0	0	1	1
gene899	gene899	SACOL0911	gi 57650036 ref NC_002951.2 :918508-918806	q1	q2	OK	224.912	95.7591	-1.23188	1.97421	0.0483575	0.498616
gene9	gene9	SACOL0010	gi 57650036 ref NC_002951.2 :14748-15770	q1	q2	OK	60.5646	72.9095	0.267632	-0.48787	0.625645	0.986963
gene90	gene90	SACOL0093	gi 57650036 ref NC_002951.2 :105442-107035	q1	q2	OK	90.0356	87.1153	-0.047569	0.07101	0.943392	0.996932
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	q1	q2	OK	9232.35	46643.6	2.33691	-2.29229	0.0218889	0.342403
gene901	gene901	SACOL0913	gi 57650036 ref NC_002951.2 :920063-920915	q1	q2	OK	135.608	254.491	0.908169	-1.3301	0.183486	0.819812
gene902	gene902	SACOL0914	gi 57650036 ref NC_002951.2 :921242-922004	q1	q2	OK	749.79	465.464	-0.687815	0.71127	0.476916	0.960423
gene903	gene903	sufD	gi 57650036 ref NC_002951.2 :922101-923409	q1	q2	OK	642.02	289.339	-1.14986	1.12035	0.262565	0.875983
gene904	gene904	SACOL0916	gi 57650036 ref NC_002951.2 :923523-925219	q1	q2	OK	607.495	302.622	-1.00536	0.84948	0.395614	0.939607

gene905	gene905	SACOL0917	gi 57650036 ref NC_002951.2 :923523-925219	q1	q2	OK	615.164	275.428	-1.1593	0.50095	0.616408	0.986963
gene906	gene906	sufB	gi 57650036 ref NC_002951.2 :925369-926767	q1	q2	OK	597.535	262.58	-1.18626	1.15834	0.246725	0.869586
gene907	gene907	SACOL0919	gi 57650036 ref NC_002951.2 :926953-927091	q1	q2	OK	96.9128	42.8646	-1.1769	0.64183	0.520986	0.972546
gene908	gene908	SACOL0920	gi 57650036 ref NC_002951.2 :927096-927411	q1	q2	OK	34.8843	39.9186	0.194486	-0.33086	0.740754	0.986963
gene909	gene909	SACOL0921	gi 57650036 ref NC_002951.2 :927775-928816	q1	q2	OK	111.379	110.475	-0.011761	0.01971	0.984271	0.998143
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	q1	q2	OK	635.261	49.2869	-3.68807	4.26837	1.97E-05	0.0057093
gene910	gene910	SACOL0922	gi 57650036 ref NC_002951.2 :928829-929897	q1	q2	OK	106.49	148.185	0.476687	-0.7435	0.45718	0.950521
gene911	gene911	SACOL0924	gi 57650036 ref NC_002951.2 :930109-930958	q1	q2	OK	63.5971	103.803	0.70681	-1.37568	0.16892	0.814226
gene912	gene912	SACOL0925	gi 57650036 ref NC_002951.2 :930970-931798	q1	q2	OK	43.8666	59.8408	0.448004	-0.92412	0.355425	0.914747
gene913	gene913	SACOL0926	gi 57650036 ref NC_002951.2 :931824-933144	q1	q2	OK	77.2434	80.9323	0.0673024	-0.11545	0.908088	0.996932
gene914	gene914	lipA	gi 57650036 ref NC_002951.2 :933227-934145	q1	q2	OK	491.686	337.222	-0.544039	0.58177	0.560724	0.984802
gene915	gene915	SACOL0928	gi 57650036 ref NC_002951.2 :934265-934658	q1	q2	OK	136.379	79.8445	-0.77236	1.58066	0.113956	0.720767
gene916	gene916	SACOL0929	gi 57650036 ref NC_002951.2 :934736-934994	q1	q2	OK	83.0117	56.986	-0.542707	0.93466	0.349962	0.913467
gene917	gene917	SACOL0930	gi 57650036 ref NC_002951.2 :935100-936314	q1	q2	OK	63.5024	91.7178	0.530391	-0.49552	0.620236	0.986963
gene918	gene918	SACOL0931	gi 57650036 ref NC_002951.2 :935100-936314	q1	q2	OK	86.1118	97.8596	0.184503	-0.28837	0.773063	0.986963
gene919	gene919	SACOL0932	gi 57650036 ref NC_002951.2 :936346-937306	q1	q2	OK	106.27	88.4698	-0.264477	0.48013	0.631138	0.986963
gene92	gene92	sarS	gi 57650036 ref NC_002951.2 :109310-110063	q1	q2	OK	173.259	66.3185	-1.38545	2.51202	0.0120041	0.249708
gene920	gene920	SACOL0933	gi 57650036 ref NC_002951.2 :937559-937670	q1	q2	NOTEST	0	0	0	0	1	1
gene921	gene921	SACOL0934	gi 57650036 ref NC_002951.2 :937717-937870	q1	q2	OK	390.908	474.185	0.278622	-0.42534	0.670587	0.986963
gene922	gene922	dltA	gi 57650036 ref NC_002951.2 :937885-940554	q1	q2	OK	285.486	351.127	0.298573	-0.23585	0.813549	0.991128
gene923	gene923	dltB	gi 57650036 ref NC_002951.2 :937885-940554	q1	q2	OK	124.459	206.256	0.728762	-0.36879	0.712284	0.986963
gene924	gene924	dltC	gi 57650036 ref NC_002951.2 :940571-941980	q1	q2	OK	501.141	715.951	0.514643	-0.26427	0.791576	0.986986
gene925	gene925	dltD	gi 57650036 ref NC_002951.2 :940571-941980	q1	q2	OK	133.873	208.895	0.641912	-0.7042	0.481306	0.961304
gene926	gene926	SACOL0939	gi 57650036 ref NC_002951.2 :942242-942464	q1	q2	OK	185.852	144.173	-0.366355	0.67238	0.501341	0.965124
gene927	gene927	SACOL0940	gi 57650036 ref NC_002951.2 :942585-942909	q1	q2	OK	117.991	162.641	0.46301	-0.94904	0.342601	0.905587
gene928	gene928	SACOL0941	gi 57650036 ref NC_002951.2 :942969-944032	q1	q2	OK	203.824	108.765	-0.906106	1.29826	0.194196	0.819847
gene929	gene929	SACOL0942	gi 57650036 ref NC_002951.2 :944348-944585	q1	q2	OK	568.409	803.996	0.500261	-1.01783	0.308759	0.892668
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	q1	q2	OK	37.7518	73.2268	0.955827	-1.56759	0.116977	0.723345
gene930	gene930	SACOL0943	gi 57650036 ref NC_002951.2 :944597-944957	q1	q2	OK	277.518	288.517	0.0560746	-0.11125	0.911416	0.996932
gene931	gene931	SACOL0944	gi 57650036 ref NC_002951.2 :945410-946619	q1	q2	OK	190.545	89.5563	-1.08927	1.53706	0.124278	0.732386
gene932	gene932	SACOL0945	gi 57650036 ref NC_002951.2 :946749-948225	q1	q2	OK	42.9008	98.3706	1.19722	-2.00261	0.0452188	0.481552
gene933	gene933	SACOL0946	gi 57650036 ref NC_002951.2 :948635-949952	q1	q2	OK	78.8553	66.2228	-0.251878	0.44557	0.655911	0.986963
gene934	gene934	SACOL0947	gi 57650036 ref NC_002951.2 :949970-950345	q1	q2	OK	83.1425	85.9337	0.0476381	-0.09631	0.923278	0.996932

gene935	gene935	SACOL0948	gi 57650036 ref NC_002951.2 :950400-951555	q1	q2	OK	28.6114	38.084	0.412595	-0.85226	0.39407	0.939607
gene936	gene936	mnhG	gi 57650036 ref NC_002951.2 :951803-952910	q1	q2	OK	65.255	59.149	-0.141736	0.14121	0.887707	0.996932
gene937	gene937	mnhF	gi 57650036 ref NC_002951.2 :951803-952910	q1	q2	OK	62.0376	46.1883	-0.425617	0.31841	0.750173	0.986963
gene938	gene938	mnhE	gi 57650036 ref NC_002951.2 :951803-952910	q1	q2	OK	104.894	81.8403	-0.358045	0.56561	0.57166	0.985265
gene939	gene939	mnhD	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	107.166	79.1899	-0.436463	0.20471	0.837798	0.996923
gene94	gene94	sirB	gi 57650036 ref NC_002951.2 :110431-112422	q1	q2	OK	20.2726	16.7482	-0.275526	0.25675	0.797375	0.988745
gene940	gene940	mnhC	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	206.064	152.627	-0.43308	0.09975	0.920546	0.996932
gene941	gene941	mnhB	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	66.3042	71.403	0.106885	-0.01894	0.984889	0.998143
gene942	gene942	mnhA	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	153.327	146.865	-0.062118	0.04833	0.961452	0.996932
gene943	gene943	kapB	gi 57650036 ref NC_002951.2 :957698-958082	q1	q2	OK	46.8265	70.2747	0.585682	-1.13957	0.254467	0.875983
gene944	gene944	SACOL0957	gi 57650036 ref NC_002951.2 :958145-958739	q1	q2	OK	206.82	167.188	-0.306907	0.55239	0.580679	0.985265
gene945	gene945	SACOL0958	gi 57650036 ref NC_002951.2 :959154-959532	q1	q2	OK	448.499	302.585	-0.567763	1.02394	0.305862	0.892668
gene946	gene946	SACOL0959	gi 57650036 ref NC_002951.2 :959893-961021	q1	q2	OK	124.782	227.616	0.867194	-1.15258	0.249085	0.869891
gene947	gene947	rocD	gi 57650036 ref NC_002951.2 :961328-962519	q1	q2	OK	959.215	700.648	-0.453165	0.41319	0.679467	0.986963
gene948	gene948	gluD	gi 57650036 ref NC_002951.2 :962627-963872	q1	q2	OK	1789.9	965.804	-0.890073	0.82399	0.409947	0.939607
gene949	gene949	SACOL0962	gi 57650036 ref NC_002951.2 :964374-965304	q1	q2	OK	51.6598	56.8054	0.136987	-0.27984	0.779603	0.986963
gene95	gene95	sirA	gi 57650036 ref NC_002951.2 :112437-113430	q1	q2	OK	48.8314	43.4127	-0.169692	0.34865	0.72735	0.986963
gene950	gene950	argH	gi 57650036 ref NC_002951.2 :965545-968120	q1	q2	OK	190.365	46.612	-2.02999	1.68401	0.0921799	0.659441
gene951	gene951	argG	gi 57650036 ref NC_002951.2 :965545-968120	q1	q2	OK	232.906	47.1711	-2.30377	1.90752	0.0564529	0.540443
gene952	gene952	SACOL0965	gi 57650036 ref NC_002951.2 :968264-968399	q1	q2	OK	28.3219	50.5369	0.83542	-0.35456	0.72292	0.986963
gene953	gene953	pgi	gi 57650036 ref NC_002951.2 :968470-969802	q1	q2	OK	106.468	153.155	0.524575	-0.72551	0.468141	0.954346
gene954	gene954	SACOL0967	gi 57650036 ref NC_002951.2 :970126-970702	q1	q2	OK	50.8673	49.0894	-0.051327	0.10515	0.916261	0.996932
gene955	gene955	spsA	gi 57650036 ref NC_002951.2 :970706-971231	q1	q2	OK	69.2065	71.0826	0.0385874	-0.07982	0.936378	0.996932
gene956	gene956	spsB	gi 57650036 ref NC_002951.2 :971237-971822	q1	q2	OK	68.9497	52.2645	-0.399714	0.82508	0.409329	0.939607
gene957	gene957	rexB	gi 57650036 ref NC_002951.2 :971981-975458	q1	q2	OK	92.2547	87.3561	-0.078715	0.0845	0.932662	0.996932
gene958	gene958	rexA	gi 57650036 ref NC_002951.2 :975458-979112	q1	q2	OK	94.6009	64.1956	-0.559379	0.61746	0.536932	0.977691
gene959	gene959	SACOL0973	gi 57650036 ref NC_002951.2 :979277-980180	q1	q2	OK	564.908	309.911	-0.866159	0.92719	0.353831	0.914747
gene96	gene96	SACOL0100	gi 57650036 ref NC_002951.2 :113693-114641	q1	q2	OK	17.2177	24.5379	0.511116	-1.02594	0.304922	0.892668
gene960	gene960	SACOL0974	gi 57650036 ref NC_002951.2 :980508-980898	q1	q2	OK	103.674	109.061	0.0730799	-0.15077	0.880157	0.996932
gene961	gene961	SACOL0975	gi 57650036 ref NC_002951.2 :981068-982385	q1	q2	OK	176.342	228.166	0.371708	-0.43369	0.664514	0.986963
gene962	gene962	SACOL0976	gi 57650036 ref NC_002951.2 :982436-983261	q1	q2	OK	166.574	299.572	0.846734	-1.1727	0.240915	0.865486
gene963	gene963	SACOL0977	gi 57650036 ref NC_002951.2 :983374-983683	q1	q2	OK	329.894	218.418	-0.594908	1.21658	0.223763	0.853955
gene964	gene964	SACOL0978	gi 57650036 ref NC_002951.2 :984229-986044	q1	q2	OK	20.6491	32.0839	0.635774	-1.2862	0.198373	0.819847

gene965	gene965	clpB	gi 57650036 ref NC_002951.2 :986246-988856	q1	q2	OK	365.32	96.9277	-1.91418	1.93147	0.0534247	0.529932
gene966	gene966	SACOL0980	gi 57650036 ref NC_002951.2 :988914-989784	q1	q2	OK	18.6393	24.8211	0.413216	-0.82504	0.40935	0.939607
gene967	gene967	SACOL0981	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	16.8043	27.457	0.708342	-0.74945	0.453587	0.949773
gene968	gene968	SACOL0982	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	18.3376	21.8818	0.25492	-0.17814	0.858617	0.996923
gene969	gene969	SACOL0983	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	17.1603	29.5199	0.782612	-0.83647	0.402891	0.939607
gene97	gene97	SACOL0101	gi 57650036 ref NC_002951.2 :114649-115648	q1	q2	OK	26.6074	34.0213	0.354613	-0.7329	0.463618	0.952374
gene970	gene970	SACOL0984	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	33.0013	51.1806	0.633074	-0.54744	0.584079	0.985265
gene971	gene971	SACOL0985	gi 57650036 ref NC_002951.2 :993584-994019	q1	q2	OK	58.283	76.5188	0.392739	-0.79525	0.426471	0.940178
gene972	gene972	SACOL0986	gi 57650036 ref NC_002951.2 :994275-994461	q1	q2	OK	609.987	314.926	-0.953766	1.77394	0.0760729	0.618185
gene973	gene973	fabH	gi 57650036 ref NC_002951.2 :994755-995697	q1	q2	OK	59.0845	66.1836	0.163693	-0.3286	0.742458	0.986963
gene974	gene974	fabF	gi 57650036 ref NC_002951.2 :995708-996953	q1	q2	OK	183.631	150.635	-0.28576	0.36656	0.713947	0.986963
gene975	gene975	SACOL0989	gi 57650036 ref NC_002951.2 :997007-997379	q1	q2	OK	37.6255	28.6323	-0.394068	0.69718	0.485689	0.964002
gene976	gene976	SACOL0990	gi 57650036 ref NC_002951.2 :997601-999618	q1	q2	NOTEST	0	0	0	0	1	1
gene977	gene977	oppB	gi 57650036 ref NC_002951.2 :997601-999618	q1	q2	OK	176.678	110.154	-0.681598	0.47529	0.63458	0.986963
gene978	gene978	oppC	gi 57650036 ref NC_002951.2 :997601-999618	q1	q2	OK	184.199	161.53	-0.18946	0.16837	0.866292	0.996923
gene979	gene979	oppD	gi 57650036 ref NC_002951.2 :999634-1001648	q1	q2	OK	374.565	267.489	-0.485735	0.3707	0.710862	0.986963
gene98	gene98	SACOL0102	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	23.1798	25.9064	0.160442	-0.06739	0.94627	0.996932
gene980	gene980	oppF	gi 57650036 ref NC_002951.2 :999634-1001648	q1	q2	OK	291.683	182.876	-0.673538	0.40432	0.685977	0.986963
gene981	gene981	SACOL0995	gi 57650036 ref NC_002951.2 :1001665-1003321	q1	q2	OK	476.506	207.354	-1.2004	1.18016	0.237937	0.863102
gene982	gene982	SACOL0996	gi 57650036 ref NC_002951.2 :1003532-1005248	q1	q2	OK	29.0701	43.2118	0.571889	-1.11739	0.263828	0.875983
gene983	gene983	SACOL0997	gi 57650036 ref NC_002951.2 :1005298-1006285	q1	q2	OK	24.7362	35.8443	0.535118	-1.10328	0.269904	0.875983
gene984	gene984	SACOL0998	gi 57650036 ref NC_002951.2 :1006287-1008223	q1	q2	OK	22.0711	29.6529	0.426014	-0.56269	0.573644	0.985265
gene985	gene985	SACOL0999	gi 57650036 ref NC_002951.2 :1006287-1008223	q1	q2	OK	29.416	39.4889	0.424847	-0.64039	0.52192	0.972546
gene986	gene986	SACOL1000	gi 57650036 ref NC_002951.2 :1008234-1009116	q1	q2	OK	48.4897	52.9508	0.126975	-0.26176	0.793509	0.987448
gene987	gene987	trpS	gi 57650036 ref NC_002951.2 :1009157-1010147	q1	q2	OK	179.703	74.0431	-1.27918	2.04108	0.041243	0.468603
gene988	gene988	spxA	gi 57650036 ref NC_002951.2 :1010441-1010837	q1	q2	OK	9353.48	12049.5	0.3654	-0.35632	0.721604	0.986963
gene989	gene989	SACOL1003	gi 57650036 ref NC_002951.2 :1011207-1011927	q1	q2	OK	115.221	109.525	-0.073144	0.14082	0.88801	0.996932
gene99	gene99	SACOL0103	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	40.1679	47.7631	0.249855	-0.11621	0.907487	0.996932
gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	q1	q2	OK	23.7468	34.8577	0.553748	-1.14015	0.254225	0.875983
gene991	gene991	pepF	gi 57650036 ref NC_002951.2 :1013081-1014890	q1	q2	OK	44.7624	90.7519	1.01964	-1.59832	0.109973	0.715393
gene992	gene992	SACOL1006	gi 57650036 ref NC_002951.2 :1015349-1016156	q1	q2	OK	224.38	219.453	-0.032036	0.04553	0.963686	0.996932
gene993	gene993	SACOL1007	gi 57650036 ref NC_002951.2 :1016178-1016544	q1	q2	OK	205.612	228.612	0.152972	-0.31232	0.754796	0.986963
gene994	gene994	SACOL1008	gi 57650036 ref NC_002951.2 :1016647-1017241	q1	q2	OK	56.0592	32.4731	-0.787708	1.59075	0.111666	0.717934

gene995	gene995	SACOL1009	gi 57650036 ref NC_002951.2 :1017426-1017774	q1	q2	OK	217.902	77.55	-1.49048	2.99171	0.0027742	0.101128
gene996	gene996	relA1	gi 57650036 ref NC_002951.2 :1017790-1018426	q1	q2	OK	214.956	84.0178	-1.35527	2.46189	0.0138206	0.271122
gene997	gene997	ppnK	gi 57650036 ref NC_002951.2 :1018442-1020103	q1	q2	OK	224.052	104.353	-1.10236	1.3313	0.18309	0.819812
gene998	gene998	SACOL1012	gi 57650036 ref NC_002951.2 :1018442-1020103	q1	q2	OK	60.0066	51.9299	-0.208556	0.14992	0.880827	0.996932
gene999	gene999	mgtE	gi 57650036 ref NC_002951.2 :1020123-1021509	q1	q2	OK	139.457	96.9355	-0.524725	0.74025	0.459148	0.950591

Supplementary Table S5. Results of Cuffdiff analysis of RNA-seq data for all annotated MRSA genes in MU30 and M18C06, related to Figure 2b

test_id	gene_id	gene	locus	MU30	M18C06	status	FPKM(MU30)	FPKM(M18C06)	log2(fold_change)	test_stat	p_value	q_value
gene0	gene0	dnaA	gi 57650036 ref NC_002951.2 :543-1905	q1	q2	OK	104.888	53.9253	-0.959819	0.915249	0.360061	0.93284
gene1	gene1	dnaN	gi 57650036 ref NC_002951.2 :2182-3316	q1	q2	OK	188.875	68.848	-1.45594	1.37438	0.169324	0.842707
gene10	gene10	SACOL0011	gi 57650036 ref NC_002951.2 :14748-15770	q1	q2	OK	37.8852	43.698	0.205935	-0.06464	0.948464	0.987716
gene100	gene100	SACOL0104	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	0.987995	21.0693	4.4145	-0.91095	0.362319	0.93284
gene1000	gene1000	SACOL1014	gi 57650036 ref NC_002951.2 :1021518-1023363	q1	q2	OK	87.2124	54.2081	-0.686025	0.673575	0.500582	0.963286
gene1001	gene1001	fabI	gi 57650036 ref NC_002951.2 :1023640-1024411	q1	q2	OK	600.931	92.4728	-2.7001	2.32652	0.019991	0.517412
gene1002	gene1002	SACOL1017	gi 57650036 ref NC_002951.2 :1024605-1025691	q1	q2	OK	128.549	41.0479	-1.64694	1.37576	0.168895	0.842707
gene1003	gene1003	SACOL1018	gi 57650036 ref NC_002951.2 :1026032-1027601	q1	q2	OK	74.6203	64.6954	-0.205905	0.203327	0.83888	0.984151
gene1004	gene1004	SACOL1019	gi 57650036 ref NC_002951.2 :1027742-1028501	q1	q2	OK	27.5283	69.2864	1.33166	-0.86988	0.384366	0.940893
gene1005	gene1005	SACOL1020	gi 57650036 ref NC_002951.2 :1028694-1029204	q1	q2	OK	1033.21	379.528	-1.44486	1.3359	0.181583	0.842707
gene1006	gene1006	SACOL1021	gi 57650036 ref NC_002951.2 :1029316-1031660	q1	q2	OK	92.9578	44.6311	-1.05853	0.549154	0.5829	0.978191
gene1007	gene1007	ypfP	gi 57650036 ref NC_002951.2 :1029316-1031660	q1	q2	OK	203.422	99.8626	-1.02646	0.785641	0.432078	0.956269
gene1008	gene1008	murE	gi 57650036 ref NC_002951.2 :1032092-1035380	q1	q2	OK	56.0151	51.5468	-0.119934	0.073423	0.94147	0.987716
gene1009	gene1009	SACOL1024	gi 57650036 ref NC_002951.2 :1032092-1035380	q1	q2	OK	74.8615	71.5134	-0.0660101	0.010247	0.991824	0.997969
gene101	gene101	SACOL0105	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	5.21858	35.2726	2.75682	-1.12469	0.26072	0.898005
gene1010	gene1010	prfC	gi 57650036 ref NC_002951.2 :1032092-1035380	q1	q2	OK	86.118	55.2569	-0.64016	0.459403	0.645945	0.978191
gene1011	gene1011	SACOL1026	gi 57650036 ref NC_002951.2 :1035681-1036485	q1	q2	OK	69.5573	36.0447	-0.948415	0.652076	0.514352	0.963286
gene1012	gene1012	SACOL1027	gi 57650036 ref NC_002951.2 :1036543-1036639	q1	q2	NOTEST	0	0	0	0	1	1
gene1013	gene1013	htrA	gi 57650036 ref NC_002951.2 :1036718-1039028	q1	q2	OK	31.4305	44.4448	0.49985	-0.47865	0.63219	0.978191
gene1014	gene1014	SACOL1030	gi 57650036 ref NC_002951.2 :1039044-1040403	q1	q2	OK	131.504	44.7231	-1.55601	1.41686	0.156522	0.842707
gene1015	gene1015	SACOL1031	gi 57650036 ref NC_002951.2 :1040541-1042053	q1	q2	OK	61.6741	56.0258	-0.138572	0.133649	0.89368	0.984151
gene1018	gene1018	SACOL1032	gi 57650036 ref NC_002951.2 :1042539-1043070	q1	q2	OK	6.25216	34.573	2.46722	-1.23492	0.216862	0.850298
gene1019	gene1019	SACOL1033	gi 57650036 ref NC_002951.2 :1043318-1043537	q1	q2	OK	1598.2	1612.39	0.0127544	-0.01147	0.990846	0.997969
gene102	gene102	SACOL0106	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	8.49165	58.3007	2.7794	-0.87344	0.382425	0.940893
gene1020	gene1020	SACOL1034	gi 57650036 ref NC_002951.2 :1043617-1044604	q1	q2	OK	65.7544	56.87	-0.20942	0.172465	0.863072	0.984151
gene1021	gene1021	SACOL1035	gi 57650036 ref NC_002951.2 :1044802-1044979	q1	q2	OK	267.9	125.531	-1.09365	0.50918	0.610626	0.978191
gene1022	gene1022	SACOL1036	gi 57650036 ref NC_002951.2 :1044993-1045596	q1	q2	OK	626.612	146.019	-2.10141	1.91371	0.055657	0.696046
gene1023	gene1023	SACOL1037	gi 57650036 ref NC_002951.2 :1045867-1045975	q1	q2	OK	2554	559.258	-2.19117	0.875555	0.381272	0.940893
gene1024	gene1024	SACOL1038	gi 57650036 ref NC_002951.2 :1046940-1048905	q1	q2	OK	2.08526	32.6585	3.96916	-2.38339	0.017154	0.500083

gene1025	gene1025	SACOL1039	gi 57650036 ref NC_002951.2 :1048907-1049866	q1	q2	OK	2.03321	28.9849	3.83347	-0.69761	0.485422	0.962734
gene1026	gene1026	SACOL1040	gi 57650036 ref NC_002951.2 :1048907-1049866	q1	q2	OK	4.59471	31.968	2.79858	-1.33162	0.182983	0.842707
gene1027	gene1027	SACOL1041	gi 57650036 ref NC_002951.2 :1049953-1050244	q1	q2	OK	47.3145	21.38	-1.14602	0.542775	0.587285	0.978191
gene1028	gene1028	SACOL1042	gi 57650036 ref NC_002951.2 :1050522-1050810	q1	q2	OK	21.6119	27.9727	0.372197	-0.17175	0.863632	0.984151
gene1029	gene1029	SACOL1043	gi 57650036 ref NC_002951.2 :1050815-1052297	q1	q2	OK	76.2145	28.7003	-1.409	1.17766	0.238931	0.879153
gene103	gene103	SACOL0107	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	6.9791	34.4774	2.30454	-0.80709	0.419613	0.949284
gene1030	gene1030	SACOL1044	gi 57650036 ref NC_002951.2 :1052385-1052742	q1	q2	OK	57.6981	31.4984	-0.873245	0.451177	0.651862	0.978191
gene1031	gene1031	SACOL1045	gi 57650036 ref NC_002951.2 :1053218-1054178	q1	q2	OK	8.41189	47.1578	2.487	-1.47658	0.13979	0.842707
gene1032	gene1032	SACOL1046	gi 57650036 ref NC_002951.2 :1054223-1054355	q1	q2	OK	1233.14	144.697	-3.09124	1.29943	0.193798	0.842707
gene1033	gene1033	SACOL1047	gi 57650036 ref NC_002951.2 :1054418-1054709	q1	q2	OK	81.486	94.2664	0.210191	-0.11187	0.910925	0.984151
gene1034	gene1034	SACOL1048	gi 57650036 ref NC_002951.2 :1054852-1055350	q1	q2	OK	38.8963	95.1425	1.29046	-0.78231	0.434031	0.956269
gene1035	gene1035	menA	gi 57650036 ref NC_002951.2 :1055401-1056340	q1	q2	OK	104.503	53.0764	-0.977399	0.824347	0.409743	0.940909
gene1036	gene1036	SACOL1050	gi 57650036 ref NC_002951.2 :1056490-1056595	q1	q2	NOTEST 0		0	0	0	1	1
gene1037	gene1037	SACOL1051	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	38.6839	56.9599	0.558214	-0.15794	0.874506	0.984151
gene1038	gene1038	menD	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	50.6619	75.8661	0.582556	-0.22863	0.819159	0.984151
gene1039	gene1039	SACOL1053	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	51.892	63.0783	0.281631	-0.06901	0.944984	0.987716
gene104	gene104	SACOL0108	gi 57650036 ref NC_002951.2 :124113-124878	q1	q2	OK	6.31263	62.4047	3.30534	-1.87321	0.06104	0.708721
gene1040	gene1040	menB	gi 57650036 ref NC_002951.2 :1056671-1061147	q1	q2	OK	509.736	152.843	-1.7377	0.965792	0.334148	0.927653
gene1041	gene1041	sspC	gi 57650036 ref NC_002951.2 :1061385-1061715	q1	q2	OK	18.9426	24.3563	0.362661	-0.17055	0.864577	0.984151
gene1042	gene1042	sspB1	gi 57650036 ref NC_002951.2 :1061752-1062934	q1	q2	OK	8.69216	29.0706	1.74178	-1.02901	0.303477	0.927653
gene1043	gene1043	sspA	gi 57650036 ref NC_002951.2 :1063015-1064026	q1	q2	OK	4.34044	45.1471	3.37872	-1.92173	0.05464	0.696046
gene1044	gene1044	SACOL1058	gi 57650036 ref NC_002951.2 :1064553-1065708	q1	q2	OK	76.1398	50.6294	-0.588674	0.521511	0.602011	0.978191
gene1045	gene1045	SACOL1059	gi 57650036 ref NC_002951.2 :1065903-1066914	q1	q2	OK	63.479	30.8633	-1.04039	0.756647	0.449261	0.956269
gene1046	gene1046	SACOL1060	gi 57650036 ref NC_002951.2 :1067066-1067486	q1	q2	OK	31.3781	22.2549	-0.495634	0.251576	0.801369	0.984151
gene1047	gene1047	atl	gi 57650036 ref NC_002951.2 :1067692-1071463	q1	q2	OK	905.626	268.466	-1.75418	1.28156	0.199998	0.842707
gene1048	gene1048	SACOL1063	gi 57650036 ref NC_002951.2 :1071690-1072125	q1	q2	OK	36.2474	29.3053	-0.306718	0.161243	0.871902	0.984151
gene1049	gene1049	SACOL1064	gi 57650036 ref NC_002951.2 :1072279-1072750	q1	q2	OK	1460.59	210.301	-2.79602	2.43272	0.014986	0.500083
gene105	gene105	SACOL0109	gi 57650036 ref NC_002951.2 :125073-125481	q1	q2	NOTEST 0		0	0	0	1	1
gene1050	gene1050	SACOL1065	gi 57650036 ref NC_002951.2 :1072797-1074015	q1	q2	OK	329.944	189.378	-0.800949	0.716706	0.473556	0.956269
gene1051	gene1051	SACOL1066	gi 57650036 ref NC_002951.2 :1074465-1075659	q1	q2	OK	64.275	33.5307	-0.938773	0.744261	0.456718	0.956269
gene1052	gene1052	qoxD	gi 57650036 ref NC_002951.2 :1076195-1076474	q1	q2	OK	3956.05	202.786	-4.28603	3.04759	0.002307	0.338293
gene1053	gene1053	qoxC	gi 57650036 ref NC_002951.2 :1076482-1080166	q1	q2	OK	1112.13	251.29	-2.1459	0.563637	0.573001	0.976548
gene1054	gene1054	qoxA	gi 57650036 ref NC_002951.2 :1076482-1080166	q1	q2	OK	935.896	315.813	-1.56728	0.884201	0.376588	0.940261

gene1055	gene1055	qoxB	gi 57650036 ref NC_002951.2 :1076482-1080166	q1	q2	OK	763.463	317.728	-1.26477	0.479503	0.631581	0.978191
gene1056	gene1056	SACOL1071	gi 57650036 ref NC_002951.2 :1080737-1081055	q1	q2	OK	179.149	49.1139	-1.86695	1.03828	0.299139	0.924214
gene1057	gene1057	fold	gi 57650036 ref NC_002951.2 :1081860-1082721	q1	q2	OK	396.444	214.136	-0.888586	0.831888	0.405472	0.940909
gene1058	gene1058	purE	gi 57650036 ref NC_002951.2 :1082921-1084515	q1	q2	OK	32.0831	61.2028	0.931784	-0.33464	0.737894	0.978191
gene1059	gene1059	purK	gi 57650036 ref NC_002951.2 :1082921-1084515	q1	q2	OK	62.7969	103.698	0.72362	-0.63302	0.526723	0.963286
gene106	gene106	SACOL0110	gi 57650036 ref NC_002951.2 :125530-126157	q1	q2	OK	5.29505	29.2432	2.46538	-1.24687	0.212446	0.848911
gene1060	gene1060	purC	gi 57650036 ref NC_002951.2 :1084518-1085486	q1	q2	OK	74.1	73.2134	-0.0173666	0.012512	0.990017	0.997969
gene1061	gene1061	purS	gi 57650036 ref NC_002951.2 :1084518-1085486	q1	q2	OK	312.415	82.1262	-1.92755	0.726529	0.467515	0.956269
gene1062	gene1062	purQ	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	169.11	126.725	-0.416264	0.094707	0.924548	0.986264
gene1063	gene1063	purL	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	263.312	75.5734	-1.80083	0.918026	0.358606	0.93284
gene1064	gene1064	purF	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	267.048	56.4573	-2.24187	0.862898	0.388193	0.940909
gene1065	gene1065	purM	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	393.048	67.6534	-2.53847	0.902959	0.366548	0.93284
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	q1	q2	OK	297.926	43.7036	-2.76913	1.99881	0.045629	0.650761
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	q1	q2	OK	206.39	47.9174	-2.10675	1.90623	0.056621	0.696046
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	q1	q2	OK	367.823	56.3242	-2.70718	2.34167	0.019198	0.51462
gene1069	gene1069	SACOL1084	gi 57650036 ref NC_002951.2 :1094420-1096620	q1	q2	OK	18.6729	24.0272	0.363718	-0.1518	0.879345	0.984151
gene107	gene107	SACOL0111	gi 57650036 ref NC_002951.2 :126368-127145	q1	q2	OK	973.838	571.454	-0.769044	0.626648	0.53089	0.963286
gene1070	gene1070	SACOL1085	gi 57650036 ref NC_002951.2 :1094420-1096620	q1	q2	OK	19.9562	46.3896	1.21696	-0.80416	0.421305	0.949284
gene1071	gene1071	SACOL1086	gi 57650036 ref NC_002951.2 :1096634-1097210	q1	q2	OK	18.1832	24.1718	0.410725	-0.21699	0.82822	0.984151
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	q1	q2	OK	1236.03	524.788	-1.23591	0.55718	0.577404	0.976548
gene1073	gene1073	SACOL1088	gi 57650036 ref NC_002951.2 :1098142-1099438	q1	q2	OK	731.402	120.032	-2.60724	2.20415	0.027514	0.604847
gene1074	gene1074	SACOL1089	gi 57650036 ref NC_002951.2 :1099862-1101035	q1	q2	OK	31.0484	52.4827	0.757321	-0.56743	0.57042	0.976548
gene1075	gene1075	SACOL1090	gi 57650036 ref NC_002951.2 :1101088-1101631	q1	q2	OK	351.036	260.923	-0.427994	0.423538	0.671903	0.978191
gene1076	gene1076	ptsH	gi 57650036 ref NC_002951.2 :1101784-1102051	q1	q2	OK	933.981	565.3	-0.724377	0.624443	0.532336	0.963286
gene1077	gene1077	ptsI	gi 57650036 ref NC_002951.2 :1102053-1103772	q1	q2	OK	1179.58	483.052	-1.28802	0.951687	0.341256	0.93284
gene1078	gene1078	SACOL1093	gi 57650036 ref NC_002951.2 :1104008-1104242	q1	q2	OK	34.9579	25.2479	-0.469457	0.208559	0.834793	0.984151
gene1079	gene1079	cydA	gi 57650036 ref NC_002951.2 :1104439-1106817	q1	q2	OK	12.0087	35.4725	1.56262	-0.8261	0.408747	0.940909
gene108	gene108	SACOL0112	gi 57650036 ref NC_002951.2 :127288-127411	q1	q2	NOTEST 0		0	0	0	1	1
gene1080	gene1080	cydB	gi 57650036 ref NC_002951.2 :1104439-1106817	q1	q2	OK	10.9967	66.4881	2.59603	-1.28035	0.200422	0.842707
gene1081	gene1081	SACOL1096	gi 57650036 ref NC_002951.2 :1106949-1107612	q1	q2	OK	73.8909	105.347	0.511679	-0.38912	0.697189	0.978191
gene1082	gene1082	SACOL1097	gi 57650036 ref NC_002951.2 :1107647-1107827	q1	q2	OK	214.288	175.695	-0.286477	0.135093	0.892538	0.984151
gene1083	gene1083	SACOL1098	gi 57650036 ref NC_002951.2 :1107960-1109876	q1	q2	OK	418.256	187.324	-1.15885	0.885436	0.375921	0.940261
gene1084	gene1084	SACOL1099	gi 57650036 ref NC_002951.2 :1107960-1109876	q1	q2	OK	252.68	350.962	0.474005	-0.05469	0.956382	0.98956

gene1085	gene1085	def	gi 57650036 ref NC_002951.2 :1110356-1110908	q1	q2	OK	130.069	43.1903	-1.5905	1.05964	0.289307	0.921417
gene1086	gene1086	SACOL1101	gi 57650036 ref NC_002951.2 :1111272-1111899	q1	q2	OK	308.172	109.603	-1.49145	1.34037	0.180124	0.842707
gene1087	gene1087	pdhA	gi 57650036 ref NC_002951.2 :1112069-1113182	q1	q2	OK	732.748	290.579	-1.33439	1.09549	0.273303	0.906044
gene1088	gene1088	pdhB	gi 57650036 ref NC_002951.2 :1113185-1114163	q1	q2	OK	645.002	340.3	-0.922499	0.773636	0.439146	0.956269
gene1089	gene1089	pdhC	gi 57650036 ref NC_002951.2 :1114253-1115546	q1	q2	OK	728.46	418.061	-0.801137	0.622177	0.533826	0.963286
gene109	gene109	SACOL0113	gi 57650036 ref NC_002951.2 :127489-129116	q1	q2	OK	1.42707	30.916	4.43722	-1.91629	0.055328	0.696046
gene1090	gene1090	pdhD	gi 57650036 ref NC_002951.2 :1115549-1116956	q1	q2	OK	1636.24	319.512	-2.35644	1.80986	0.070318	0.754145
gene1091	gene1091	SACOL1106	gi 57650036 ref NC_002951.2 :1117123-1117399	q1	q2	OK	112.091	86.5711	-0.372707	0.197569	0.843383	0.984151
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	q1	q2	OK	12.8244	35.476	1.46795	-0.76846	0.442217	0.956269
gene1093	gene1093	SACOL1108	gi 57650036 ref NC_002951.2 :1118094-1119979	q1	q2	OK	18.1394	50.7169	1.48334	-0.89222	0.372273	0.936506
gene1094	gene1094	SACOL1109	gi 57650036 ref NC_002951.2 :1118094-1119979	q1	q2	OK	18.9655	28.8423	0.604807	-0.27186	0.785729	0.982219
gene1095	gene1095	SACOL1110	gi 57650036 ref NC_002951.2 :1119984-1121867	q1	q2	OK	30.9623	19.7024	-0.652146	0.266534	0.789828	0.982219
gene1096	gene1096	SACOL1111	gi 57650036 ref NC_002951.2 :1119984-1121867	q1	q2	OK	84.3967	75.8528	-0.153984	0.131435	0.895431	0.984151
gene1097	gene1097	SACOL1112	gi 57650036 ref NC_002951.2 :1121940-1122960	q1	q2	OK	705.666	407.003	-0.793945	0.644805	0.519054	0.963286
gene1098	gene1098	SACOL1113	gi 57650036 ref NC_002951.2 :1123242-1123662	q1	q2	OK	464.18	150.443	-1.62546	1.34138	0.179796	0.842707
gene1099	gene1099	SACOL1114	gi 57650036 ref NC_002951.2 :1123743-1125096	q1	q2	OK	1337.34	459.092	-1.54252	1.16206	0.245209	0.885853
gene11	gene11	SACOL0012	gi 57650036 ref NC_002951.2 :16111-17101	q1	q2	OK	4.45937	70.1364	3.97525	-2.37007	0.017785	0.500083
gene110	gene110	SACOL0114	gi 57650036 ref NC_002951.2 :127489-129116	q1	q2	OK	1.36517	28.7734	4.39758	-1.47165	0.141116	0.842707
gene1100	gene1100	SACOL1115	gi 57650036 ref NC_002951.2 :1125279-1125894	q1	q2	OK	501.532	194.501	-1.36656	1.31097	0.189866	0.842707
gene1101	gene1101	SACOL1116	gi 57650036 ref NC_002951.2 :1126050-1126878	q1	q2	OK	322.667	240.802	-0.422203	0.403739	0.686405	0.978191
gene1102	gene1102	SACOL1117	gi 57650036 ref NC_002951.2 :1127031-1127223	q1	q2	OK	741.562	39.0378	-4.24762	2.06292	0.03912	0.641477
gene1103	gene1103	typA	gi 57650036 ref NC_002951.2 :1127324-1129172	q1	q2	OK	179.889	59.5659	-1.59454	1.47803	0.139399	0.842707
gene1104	gene1104	SACOL1119	gi 57650036 ref NC_002951.2 :1129311-1129479	q1	q2	OK	112.958	413.793	1.87312	-0.86224	0.388558	0.940909
gene1105	gene1105	SACOL1120	gi 57650036 ref NC_002951.2 :1129480-1129963	q1	q2	OK	97.072	69.2928	-0.486349	0.308419	0.757763	0.978191
gene1106	gene1106	SACOL1121	gi 57650036 ref NC_002951.2 :1130103-1130379	q1	q2	OK	1160.29	378.889	-1.61464	1.32577	0.184918	0.842707
gene1107	gene1107	SACOL1122	gi 57650036 ref NC_002951.2 :1130692-1131919	q1	q2	OK	285.898	75.9684	-1.91203	1.75959	0.078478	0.758524
gene1108	gene1108	pyc	gi 57650036 ref NC_002951.2 :1132472-1135925	q1	q2	OK	220.457	147.56	-0.579199	0.450616	0.652266	0.978191
gene1109	gene1109	ctaA	gi 57650036 ref NC_002951.2 :1136064-1137135	q1	q2	OK	126.035	50.8979	-1.30815	1.15448	0.248303	0.889805
gene111	gene111	SACOL0115	gi 57650036 ref NC_002951.2 :129325-133131	q1	q2	OK	0.905678	21.7864	4.58829	-0.87929	0.379243	0.940893
gene1110	gene1110	ctaB	gi 57650036 ref NC_002951.2 :1137415-1138327	q1	q2	OK	215.652	68.6568	-1.65123	1.48601	0.137275	0.842707
gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	q1	q2	OK	305.001	79.7966	-1.93442	1.43862	0.150259	0.842707
gene1112	gene1112	SACOL1127	gi 57650036 ref NC_002951.2 :1139024-1139228	q1	q2	OK	0	42.5329	1.79769e+30	1.79769e+	0.184686	0.842707
gene1113	gene1113	SACOL1128	gi 57650036 ref NC_002951.2 :1139277-1140177	q1	q2	OK	69.4749	76.8742	0.146007	-0.12328	0.901885	0.984151

gene1114	gene1114	SACOL1129	gi 57650036 ref NC_002951.2 :1140192-1140627	q1	q2	OK	144.99	82.4734	-0.813949	0.529432	0.596505	0.978191
gene1115	gene1115	SACOL1130	gi 57650036 ref NC_002951.2 :1140689-1141616	q1	q2	OK	133.313	62.8735	-1.08429	0.964181	0.334955	0.927826
gene1116	gene1116	SACOL1131	gi 57650036 ref NC_002951.2 :1141854-1142109	q1	q2	OK	38.0176	27.2207	-0.481961	0.220782	0.825262	0.984151
gene1117	gene1117	SACOL1132	gi 57650036 ref NC_002951.2 :1142111-1142501	q1	q2	OK	69.8398	133.478	0.934476	-0.56623	0.571239	0.976548
gene1118	gene1118	SACOL1133	gi 57650036 ref NC_002951.2 :1142570-1143113	q1	q2	OK	27.4143	48.6666	0.828005	-0.46844	0.639469	0.978191
gene1119	gene1119	coaD	gi 57650036 ref NC_002951.2 :1143114-1143597	q1	q2	OK	166.174	47.8367	-1.79651	1.18503	0.236004	0.874233
gene112	gene112	SACOL0116	gi 57650036 ref NC_002951.2 :129325-133131	q1	q2	OK	1.89328	25.1018	3.72883	-1.04143	0.297674	0.924214
gene1120	gene1120	SACOL1135	gi 57650036 ref NC_002951.2 :1143658-1144798	q1	q2	OK	31.7003	39.0636	0.301328	-0.21189	0.832194	0.984151
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	q1	q2	OK	271.445	82.748	-1.71386	1.36584	0.17199	0.842707
gene1122	gene1122	rpmF	gi 57650036 ref NC_002951.2 :1145561-1145735	q1	q2	OK	6276.17	299.573	-4.38891	2.68959	0.007154	0.480028
gene1123	gene1123	isdB	gi 57650036 ref NC_002951.2 :1145888-1147826	q1	q2	OK	3.23945	36.4107	3.49054	-2.18925	0.028579	0.604847
gene1124	gene1124	isdA	gi 57650036 ref NC_002951.2 :1148028-1149081	q1	q2	OK	10.3016	38.8415	1.91473	-1.15571	0.247799	0.889805
gene1125	gene1125	isdC	gi 57650036 ref NC_002951.2 :1149289-1151924	q1	q2	OK	5.10347	19.3861	1.92547	-0.68315	0.49451	0.963286
gene1126	gene1126	isdD	gi 57650036 ref NC_002951.2 :1149289-1151924	q1	q2	OK	1.50179	30.5937	4.34848	-1.44474	0.14853	0.842707
gene1127	gene1127	SACOL1143	gi 57650036 ref NC_002951.2 :1149289-1151924	q1	q2	OK	1.95548	28.9766	3.88929	-1.25973	0.207767	0.842707
gene1128	gene1128	SACOL1144	gi 57650036 ref NC_002951.2 :1151936-1152902	q1	q2	OK	0.575442	30.3436	5.72058	-2.78885	0.00529	0.446636
gene1129	gene1129	srtB	gi 57650036 ref NC_002951.2 :1152963-1153698	q1	q2	OK	0.835367	21.9951	4.71863	-2.21033	0.027082	0.604847
gene113	gene113	SACOL0117	gi 57650036 ref NC_002951.2 :129325-133131	q1	q2	OK	9.7302	25.7262	1.4027	-0.75847	0.448168	0.956269
gene1130	gene1130	SACOL1146	gi 57650036 ref NC_002951.2 :1153716-1154040	q1	q2	OK	13.8958	48.5318	1.80428	-0.86298	0.388148	0.940909
gene1131	gene1131	SACOL1147	gi 57650036 ref NC_002951.2 :1154423-1155164	q1	q2	OK	68.1186	48.4369	-0.491942	0.338497	0.734988	0.978191
gene1132	gene1132	pheS	gi 57650036 ref NC_002951.2 :1155544-1159005	q1	q2	OK	36.3081	40.6249	0.162074	-0.07293	0.941859	0.987716
gene1133	gene1133	pheT	gi 57650036 ref NC_002951.2 :1155544-1159005	q1	q2	OK	65.7652	40.8228	-0.687949	0.575528	0.564934	0.976548
gene1134	gene1134	rnhC	gi 57650036 ref NC_002951.2 :1159175-1160114	q1	q2	OK	11.6446	33.941	1.54337	-0.90021	0.368009	0.93284
gene1135	gene1135	SACOL1151	gi 57650036 ref NC_002951.2 :1160483-1160750	q1	q2	OK	142.922	88.0181	-0.699359	0.372515	0.709509	0.978191
gene1136	gene1136	SACOL1152	gi 57650036 ref NC_002951.2 :1160750-1161272	q1	q2	OK	145.263	42.3389	-1.77861	1.17415	0.240336	0.879153
gene1137	gene1137	SACOL1153	gi 57650036 ref NC_002951.2 :1161344-1163057	q1	q2	OK	86.4801	65.856	-0.393053	0.388487	0.697655	0.978191
gene1138	gene1138	SACOL1154	gi 57650036 ref NC_002951.2 :1163066-1165415	q1	q2	OK	78.7927	69.4414	-0.182266	0.176392	0.859986	0.984151
gene1139	gene1139	trxA	gi 57650036 ref NC_002951.2 :1165587-1165902	q1	q2	OK	4677.83	274.225	-4.09241	3.1213	0.001801	0.338293
gene114	gene114	sodA1	gi 57650036 ref NC_002951.2 :133398-133998	q1	q2	OK	317.221	66.8266	-2.247	1.75471	0.079309	0.758524
gene1140	gene1140	SACOL1156	gi 57650036 ref NC_002951.2 :1165964-1166060	q1	q2	NOTEST 0		0	0	0	1	1
gene1141	gene1141	uvrC	gi 57650036 ref NC_002951.2 :1166225-1168007	q1	q2	OK	44.1354	62.2882	0.497022	-0.4798	0.63137	0.978191
gene1142	gene1142	sdhC	gi 57650036 ref NC_002951.2 :1168330-1168945	q1	q2	OK	457.873	114.844	-1.99528	1.77564	0.075793	0.755805
gene1143	gene1143	sdhA	gi 57650036 ref NC_002951.2 :1168996-1171578	q1	q2	OK	797.038	358.131	-1.15416	0.593387	0.552922	0.976229

gene1144	gene1144	sdhB	gi 57650036 ref NC_002951.2 :1168996-1171578	q1	q2	OK	3077.85	485.557	-2.66421	1.30393	0.192259	0.842707
gene1145	gene1145	murI	gi 57650036 ref NC_002951.2 :1171813-1172614	q1	q2	OK	140.947	119.422	-0.239085	0.230796	0.817473	0.984151
gene1146	gene1146	SACOL1162	gi 57650036 ref NC_002951.2 :1172625-1173709	q1	q2	OK	196.363	171.752	-0.193201	0.117205	0.906698	0.984151
gene1147	gene1147	SACOL1163	gi 57650036 ref NC_002951.2 :1172625-1173709	q1	q2	OK	445.39	261.359	-0.769037	0.564545	0.572383	0.976548
gene1148	gene1148	SACOL1164	gi 57650036 ref NC_002951.2 :1174197-1174527	q1	q2	OK	636.471	272.934	-1.22154	1.0276	0.304139	0.927653
gene1149	gene1149	SACOL1165	gi 57650036 ref NC_002951.2 :1174697-1174805	q1	q2	NOTEST 0		0	0	0	1	1
gene115	gene115	SACOL0119	gi 57650036 ref NC_002951.2 :134365-135091	q1	q2	OK	15.7311	30.3311	0.947174	-0.52895	0.596842	0.978191
gene1150	gene1150	SACOL1166	gi 57650036 ref NC_002951.2 :1174895-1175297	q1	q2	OK	29.6934	22.1539	-0.422582	0.211576	0.832438	0.984151
gene1151	gene1151	SACOL1167	gi 57650036 ref NC_002951.2 :1175968-1176475	q1	q2	OK	35.4062	25.0799	-0.497472	0.268186	0.788556	0.982219
gene1152	gene1152	efb	gi 57650036 ref NC_002951.2 :1176733-1177231	q1	q2	OK	204.594	119.598	-0.774572	0.621101	0.534533	0.963286
gene1153	gene1153	SACOL1169	gi 57650036 ref NC_002951.2 :1177384-1177735	q1	q2	OK	300.583	103.5	-1.53814	1.02172	0.306916	0.927653
gene1154	gene1154	SACOL1170	gi 57650036 ref NC_002951.2 :1178160-1178406	q1	q2	OK	16.9782	37.2062	1.13186	-0.50305	0.614932	0.978191
gene1155	gene1155	SACOL1171	gi 57650036 ref NC_002951.2 :1178556-1178742	q1	q2	OK	12.9338	11.4345	-0.177745	0.071224	0.94322	0.987716
gene1156	gene1156	SACOL1172	gi 57650036 ref NC_002951.2 :1179363-1179597	q1	q2	OK	134.838	38.8429	-1.7955	0.864658	0.387227	0.940893
gene1157	gene1157	hly	gi 57650036 ref NC_002951.2 :1180073-1181033	q1	q2	OK	4.64104	21.0647	2.18231	-1.15071	0.24985	0.889805
gene1158	gene1158	SACOL1174	gi 57650036 ref NC_002951.2 :1181705-1182033	q1	q2	OK	0	22.191	1.79769e+30	1.79769e+	0.343023	0.93284
gene1159	gene1159	SACOL1175	gi 57650036 ref NC_002951.2 :1181705-1182033	q1	q2	OK	38.3468	12.4191	-1.62654	0.595275	0.55166	0.975381
gene116	gene116	SACOL0120	gi 57650036 ref NC_002951.2 :135282-136038	q1	q2	OK	25.2761	39.4309	0.64155	-0.38523	0.700066	0.978191
gene1160	gene1160	SACOL1176	gi 57650036 ref NC_002951.2 :1182064-1182421	q1	q2	OK	40.874	49.6436	0.280425	-0.1095	0.912804	0.984151
gene1161	gene1161	SACOL1177	gi 57650036 ref NC_002951.2 :1182064-1182421	q1	q2	OK	1079	675.25	-0.676198	0.196492	0.844225	0.984151
gene1162	gene1162	SACOL1178	gi 57650036 ref NC_002951.2 :1182589-1183306	q1	q2	OK	3.46337	46.6584	3.75189	-1.96202	0.049761	0.677885
gene1163	gene1163	SACOL1179	gi 57650036 ref NC_002951.2 :1183413-1184139	q1	q2	OK	2.97616	21.9706	2.88405	-1.42458	0.154279	0.842707
gene1164	gene1164	SACOL1180	gi 57650036 ref NC_002951.2 :1184233-1184959	q1	q2	OK	1.2755	30.9144	4.59915	-2.22331	0.026195	0.604847
gene1165	gene1165	arcB1	gi 57650036 ref NC_002951.2 :1185396-1186398	q1	q2	OK	3.56738	27.2053	2.93095	-1.5618	0.118336	0.840838
gene1166	gene1166	arcC1	gi 57650036 ref NC_002951.2 :1186420-1187353	q1	q2	OK	6.62431	43.6454	2.71999	-1.55688	0.1195	0.842061
gene1167	gene1167	SACOL1183	gi 57650036 ref NC_002951.2 :1187524-1189081	q1	q2	OK	15.6991	58.4191	1.89575	-1.40376	0.16039	0.842707
gene1168	gene1168	SACOL1184	gi 57650036 ref NC_002951.2 :1189920-1190868	q1	q2	OK	20.346	44.9985	1.14513	-0.73029	0.46521	0.956269
gene1169	gene1169	SACOL1185	gi 57650036 ref NC_002951.2 :1191116-1191305	q1	q2	OK	59.7308	15.8386	-1.91503	0.791086	0.428894	0.954672
gene117	gene117	deoD1	gi 57650036 ref NC_002951.2 :136273-136981	q1	q2	OK	2.20482	25.1365	3.51105	-1.71462	0.086415	0.771794
gene1170	gene1170	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1191779-1191853	q1	q2	NOTEST 0		0	0	0	1	1
gene1171	gene1171	SACOL1186	gi 57650036 ref NC_002951.2 :1192216-1192351	q1	q2	OK	494.412	0	-1.79769e+30	-1.79769e+	0.191951	0.842707
gene1172	gene1172	SACOL1187	gi 57650036 ref NC_002951.2 :1192407-1192542	q1	q2	OK	618.015	40.3683	-3.93635	1.63363	0.102337	0.815097
gene1173	gene1173	SACOL1188	gi 57650036 ref NC_002951.2 :1192665-1193361	q1	q2	OK	85.0072	93.0183	0.129929	-0.10268	0.918221	0.984217

gene1174	gene1174	SACOL1189	gi 57650036 ref NC_002951.2 :1193469-1193910	q1	q2	OK	1552.63	629.335	-1.30282	1.17438	0.240241	0.879153
gene1175	gene1175	SACOL1190	gi 57650036 ref NC_002951.2 :1194104-1195718	q1	q2	OK	127.05	129.161	0.0237662	-0.02265	0.981927	0.997969
gene1176	gene1176	mraZ	gi 57650036 ref NC_002951.2 :1195861-1196293	q1	q2	OK	809.716	120.326	-2.75047	2.1577	0.030951	0.604847
gene1177	gene1177	mraW	gi 57650036 ref NC_002951.2 :1196308-1197244	q1	q2	OK	235.072	123.123	-0.933005	0.909016	0.363342	0.93284
gene1178	gene1178	SACOL1193	gi 57650036 ref NC_002951.2 :1197272-1199874	q1	q2	OK	395.353	178.34	-1.14851	0.521353	0.602121	0.978191
gene1179	gene1179	pbp1	gi 57650036 ref NC_002951.2 :1197272-1199874	q1	q2	OK	125.525	36.7523	-1.77207	1.39809	0.162085	0.842707
gene118	gene118	SACOL0122	gi 57650036 ref NC_002951.2 :136987-138340	q1	q2	OK	14.3739	28.1629	0.970341	-0.62074	0.534772	0.963286
gene1180	gene1180	mraY	gi 57650036 ref NC_002951.2 :1200165-1201131	q1	q2	OK	82.8636	31.5574	-1.39276	1.03723	0.299627	0.924214
gene1181	gene1181	murD	gi 57650036 ref NC_002951.2 :1201132-1202482	q1	q2	OK	104.678	43.8914	-1.25395	1.14255	0.253224	0.889805
gene1182	gene1182	divIB	gi 57650036 ref NC_002951.2 :1202497-1203817	q1	q2	OK	144.169	70.4996	-1.03208	1.00102	0.316817	0.927653
gene1183	gene1183	ftsA	gi 57650036 ref NC_002951.2 :1203922-1205335	q1	q2	OK	607.373	268.41	-1.17814	0.94447	0.344929	0.93284
gene1184	gene1184	ftsZ	gi 57650036 ref NC_002951.2 :1205367-1206540	q1	q2	OK	1426.43	387.326	-1.88078	1.45394	0.145962	0.842707
gene1185	gene1185	SACOL1200	gi 57650036 ref NC_002951.2 :1206799-1207591	q1	q2	OK	57.8729	53.9183	-0.102114	0.071572	0.942943	0.987716
gene1186	gene1186	SACOL1201	gi 57650036 ref NC_002951.2 :1207608-1208843	q1	q2	OK	486.451	274.007	-0.828085	0.533617	0.593606	0.978191
gene1187	gene1187	ylmF	gi 57650036 ref NC_002951.2 :1207608-1208843	q1	q2	OK	478.117	303.068	-0.657721	0.377146	0.706065	0.978191
gene1188	gene1188	ylmG	gi 57650036 ref NC_002951.2 :1208854-1209145	q1	q2	OK	1061.95	189.505	-2.48641	1.84162	0.065531	0.73141
gene1189	gene1189	ylmH	gi 57650036 ref NC_002951.2 :1209254-1210034	q1	q2	OK	195.407	133.171	-0.553202	0.542581	0.587418	0.978191
gene119	gene119	deoC1	gi 57650036 ref NC_002951.2 :138420-139083	q1	q2	OK	76.3216	63.3401	-0.268971	0.186652	0.851934	0.984151
gene1190	gene1190	SACOL1205	gi 57650036 ref NC_002951.2 :1210057-1210675	q1	q2	OK	502.592	240.723	-1.06201	1.0249	0.305408	0.927653
gene1191	gene1191	ileS	gi 57650036 ref NC_002951.2 :1210895-1213649	q1	q2	OK	111.344	50.1228	-1.15148	1.06969	0.284759	0.921417
gene1192	gene1192	SACOL1207	gi 57650036 ref NC_002951.2 :1213938-1214736	q1	q2	OK	59.4996	64.0367	0.106019	-0.07762	0.938127	0.987716
gene1193	gene1193	lspA	gi 57650036 ref NC_002951.2 :1215559-1216968	q1	q2	OK	65.2087	40.6393	-0.68219	0.306791	0.759002	0.978191
gene1194	gene1194	SACOL1209	gi 57650036 ref NC_002951.2 :1215559-1216968	q1	q2	OK	68.2893	43.9611	-0.635431	0.463338	0.643122	0.978191
gene1195	gene1195	pyrR	gi 57650036 ref NC_002951.2 :1217367-1217895	q1	q2	OK	68.7484	54.7572	-0.328276	0.201931	0.839971	0.984151
gene1196	gene1196	uraA	gi 57650036 ref NC_002951.2 :1218112-1219420	q1	q2	OK	19.5009	52.5702	1.4307	-1.03582	0.300286	0.924214
gene1197	gene1197	pyrB	gi 57650036 ref NC_002951.2 :1219447-1220329	q1	q2	OK	36.6604	46.6773	0.348496	-0.23298	0.815777	0.984151
gene1198	gene1198	pyrC	gi 57650036 ref NC_002951.2 :1220346-1221621	q1	q2	OK	52.8221	56.8663	0.106432	-0.09526	0.924106	0.986264
gene1199	gene1199	carA	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	47.2295	27.8386	-0.762604	0.302552	0.762232	0.978191
gene12	gene12	SACOL0013	gi 57650036 ref NC_002951.2 :17406-18330	q1	q2	OK	128.699	59.7079	-1.10801	0.969461	0.332315	0.927653
gene120	gene120	deoB	gi 57650036 ref NC_002951.2 :139110-140289	q1	q2	OK	158.292	88.1107	-0.845195	0.826257	0.408658	0.940909
gene1200	gene1200	carB	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	69.1407	36.6931	-0.914024	0.761788	0.446186	0.956269
gene1201	gene1201	pyrF	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	79.1797	36.4324	-1.11991	0.677645	0.497997	0.963286
gene1202	gene1202	pyrE	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	47.8458	27.8043	-0.783082	0.361816	0.71749	0.978191

gene1203	gene1203	SACOL1218	gi 57650036 ref NC_002951.2 :1227331-1227544	q1	q2	OK	534.253	175.627	-1.60501	0.881869	0.377848	0.940261
gene1204	gene1204	SACOL1219	gi 57650036 ref NC_002951.2 :1227980-1228382	q1	q2	OK	231.608	104.027	-1.15473	0.800405	0.423476	0.949436
gene1205	gene1205	SACOL1220	gi 57650036 ref NC_002951.2 :1228644-1230342	q1	q2	OK	113.148	77.1046	-0.55332	0.54019	0.589066	0.978191
gene1206	gene1206	gmk	gi 57650036 ref NC_002951.2 :1230616-1231458	q1	q2	OK	241.663	143.859	-0.748342	0.638183	0.523354	0.963286
gene1207	gene1207	rpoZ	gi 57650036 ref NC_002951.2 :1230616-1231458	q1	q2	OK	871.745	300.098	-1.53847	0.656881	0.511258	0.963286
gene1208	gene1208	coaBC	gi 57650036 ref NC_002951.2 :1231667-1235281	q1	q2	OK	44.3559	64.2104	0.533681	-0.22193	0.824367	0.984151
gene1209	gene1209	priA	gi 57650036 ref NC_002951.2 :1231667-1235281	q1	q2	OK	93.3433	81.7103	-0.192029	0.151546	0.879545	0.984151
gene121	gene121	SACOL0125	gi 57650036 ref NC_002951.2 :140419-142032	q1	q2	OK	6.12975	36.1958	2.56192	-1.22886	0.219125	0.850902
gene1210	gene1210	SACOL1225	gi 57650036 ref NC_002951.2 :1235786-1236740	q1	q2	OK	46.7917	54.6465	0.223877	-0.16621	0.867993	0.984151
gene1211	gene1211	SACOL1226	gi 57650036 ref NC_002951.2 :1236902-1237181	q1	q2	OK	5967.89	1477.28	-2.01428	1.77849	0.075324	0.754145
gene1212	gene1212	def2	gi 57650036 ref NC_002951.2 :1237404-1240125	q1	q2	OK	91.675	66.9011	-0.454498	0.147384	0.882829	0.984151
gene1213	gene1213	fnt	gi 57650036 ref NC_002951.2 :1237404-1240125	q1	q2	OK	109.141	63.6649	-0.777619	0.424845	0.670949	0.978191
gene1214	gene1214	sun	gi 57650036 ref NC_002951.2 :1237404-1240125	q1	q2	OK	134.931	54.4477	-1.30928	0.897039	0.369698	0.932852
gene1215	gene1215	SACOL1230	gi 57650036 ref NC_002951.2 :1240127-1241222	q1	q2	OK	149.528	50.6011	-1.56317	1.38365	0.166466	0.842707
gene1216	gene1216	SACOL1231	gi 57650036 ref NC_002951.2 :1241228-1243963	q1	q2	OK	130.937	59.4698	-1.13864	0.431786	0.665897	0.978191
gene1217	gene1217	SACOL1232	gi 57650036 ref NC_002951.2 :1241228-1243963	q1	q2	OK	216.692	48.0894	-2.17185	1.7098	0.087303	0.771794
gene1218	gene1218	SACOL1234	gi 57650036 ref NC_002951.2 :1244190-1245066	q1	q2	OK	83.8176	65.5175	-0.355372	0.297151	0.766351	0.978191
gene1219	gene1219	rpe	gi 57650036 ref NC_002951.2 :1245066-1245711	q1	q2	OK	89.7194	44.0992	-1.02467	0.68805	0.491421	0.963286
gene122	gene122	SACOL0126	gi 57650036 ref NC_002951.2 :140419-142032	q1	q2	OK	2.58958	37.4155	3.85285	-1.33217	0.182804	0.842707
gene1220	gene1220	SACOL1236	gi 57650036 ref NC_002951.2 :1245717-1246359	q1	q2	OK	93.4258	83.4848	-0.162306	0.121594	0.903221	0.984151
gene1221	gene1221	rpmB	gi 57650036 ref NC_002951.2 :1246739-1246928	q1	q2	OK	41441.2	1520.51	-4.76844	3.41754	0.000632	0.281629
gene1222	gene1222	SACOL1239	gi 57650036 ref NC_002951.2 :1247370-1247745	q1	q2	OK	183.257	131.795	-0.475577	0.312993	0.754286	0.978191
gene1223	gene1223	SACOL1240	gi 57650036 ref NC_002951.2 :1247759-1249406	q1	q2	OK	181.58	68.5357	-1.40568	1.3213	0.186401	0.842707
gene1224	gene1224	recG	gi 57650036 ref NC_002951.2 :1249595-1251656	q1	q2	OK	82.3077	67.9966	-0.275564	0.269949	0.7872	0.982219
gene1225	gene1225	SACOL1242	gi 57650036 ref NC_002951.2 :1251858-1252431	q1	q2	OK	156.494	113.669	-0.46127	0.383489	0.701357	0.978191
gene1226	gene1226	plsX	gi 57650036 ref NC_002951.2 :1252435-1255068	q1	q2	OK	120.317	83.6633	-0.524169	0.266024	0.790221	0.982219
gene1227	gene1227	fabD	gi 57650036 ref NC_002951.2 :1252435-1255068	q1	q2	OK	139.082	68.9763	-1.01177	0.494889	0.620679	0.978191
gene1228	gene1228	fabG1	gi 57650036 ref NC_002951.2 :1252435-1255068	q1	q2	OK	269.824	105.385	-1.35634	0.747836	0.454559	0.956269
gene1229	gene1229	SACOL1246	gi 57650036 ref NC_002951.2 :1255190-1255289	q1	q2	NOTEST 0		0	0	0	1	1
gene123	gene123	SACOL0127	gi 57650036 ref NC_002951.2 :142033-142807	q1	q2	OK	2.71661	29.4769	3.4397	-1.73993	0.081872	0.761588
gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	q1	q2	OK	2561.92	147.603	-4.11743	2.7226	0.006477	0.461354
gene1231	gene1231	rnc	gi 57650036 ref NC_002951.2 :1255659-1256391	q1	q2	OK	54.1991	107.499	0.987986	-0.74542	0.456015	0.956269
gene1232	gene1232	SACOL1250	gi 57650036 ref NC_002951.2 :1256537-1261673	q1	q2	OK	50.9191	39.8926	-0.352088	0.273826	0.784218	0.982219

gene1233	gene1233	SACOL1251	gi 57650036 ref NC_002951.2 :1256537-1261673	q1	q2	OK	56.7588	53.2984	-0.0907502	0.043418	0.965368	0.990396
gene1234	gene1234	SACOL1252	gi 57650036 ref NC_002951.2 :1256537-1261673	q1	q2	OK	46.2836	41.4251	-0.159999	0.024067	0.980799	0.997969
gene1235	gene1235	ffh	gi 57650036 ref NC_002951.2 :1261698-1263066	q1	q2	OK	205.317	116.217	-0.821031	0.776115	0.437681	0.956269
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	q1	q2	OK	199.945	40.4748	-2.30451	1.21037	0.226138	0.855481
gene1237	gene1237	rimM	gi 57650036 ref NC_002951.2 :1263963-1265204	q1	q2	OK	9.89756	30.2453	1.61157	-0.54447	0.586117	0.978191
gene1238	gene1238	trmD	gi 57650036 ref NC_002951.2 :1263963-1265204	q1	q2	OK	10.7964	44.1331	2.0313	-0.9939	0.320272	0.927653
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	q1	q2	OK	2204.82	100.991	-4.44837	3.10244	0.001919	0.338293
gene124	gene124	SACOL0128	gi 57650036 ref NC_002951.2 :143020-143977	q1	q2	OK	8.4463	30.5599	1.85525	-1.04881	0.294266	0.924214
gene1240	gene1240	SACOL1259	gi 57650036 ref NC_002951.2 :1265900-1268507	q1	q2	OK	20.4338	46.8872	1.19824	-1.07833	0.280886	0.914891
gene1241	gene1241	rbgA	gi 57650036 ref NC_002951.2 :1268907-1270543	q1	q2	OK	32.6187	30.534	-0.0952806	0.053165	0.957601	0.989588
gene1242	gene1242	rnhB	gi 57650036 ref NC_002951.2 :1268907-1270543	q1	q2	OK	28.6426	34.652	0.274774	-0.13888	0.889547	0.984151
gene1243	gene1243	sucC	gi 57650036 ref NC_002951.2 :1270651-1271818	q1	q2	OK	1252.1	487.136	-1.36195	1.039	0.298804	0.924214
gene1244	gene1244	sucD	gi 57650036 ref NC_002951.2 :1271839-1272748	q1	q2	OK	2371.02	630.208	-1.91161	1.45386	0.145985	0.842707
gene1245	gene1245	lytN	gi 57650036 ref NC_002951.2 :1272941-1274093	q1	q2	OK	4.60155	37.4902	3.02632	-1.74291	0.081349	0.761588
gene1246	gene1246	eprH	gi 57650036 ref NC_002951.2 :1274120-1275365	q1	q2	OK	7.11038	25.3578	1.83443	-1.06309	0.287741	0.921417
gene1247	gene1247	SACOL1266	gi 57650036 ref NC_002951.2 :1275537-1276410	q1	q2	OK	4.93387	44.8373	3.18391	-1.76264	0.077961	0.758524
gene1248	gene1248	topA	gi 57650036 ref NC_002951.2 :1276589-1278659	q1	q2	OK	153.054	65.5454	-1.22348	1.13734	0.255396	0.890872
gene1249	gene1249	gid	gi 57650036 ref NC_002951.2 :1278814-1280122	q1	q2	OK	263.164	80.0757	-1.71653	1.59138	0.111523	0.832416
gene125	gene125	SACOL0129	gi 57650036 ref NC_002951.2 :144205-145750	q1	q2	OK	1.77815	69.247	5.2833	-3.13284	0.001731	0.338293
gene1250	gene1250	xerC	gi 57650036 ref NC_002951.2 :1280538-1281977	q1	q2	OK	301.659	144.19	-1.06495	0.844612	0.398328	0.940909
gene1251	gene1251	hslV	gi 57650036 ref NC_002951.2 :1280538-1281977	q1	q2	OK	156.996	151.482	-0.0515844	0.023979	0.98087	0.997969
gene1252	gene1252	hslU	gi 57650036 ref NC_002951.2 :1282042-1283446	q1	q2	OK	289.354	156.991	-0.882152	0.787074	0.431239	0.956269
gene1253	gene1253	codY	gi 57650036 ref NC_002951.2 :1283470-1284244	q1	q2	OK	405.552	146.313	-1.47083	1.39718	0.162358	0.842707
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	q1	q2	OK	708.198	89.9788	-2.9765	2.50684	0.012182	0.500083
gene1255	gene1255	SACOL1275	gi 57650036 ref NC_002951.2 :1285395-1285509	q1	q2	OK	0	216.261	1.79769e+30	1.79769e+	0.207933	0.842707
gene1256	gene1256	tsf	gi 57650036 ref NC_002951.2 :1285543-1286425	q1	q2	OK	1143.29	290.487	-1.97664	1.64412	0.100151	0.815096
gene1257	gene1257	pyrH	gi 57650036 ref NC_002951.2 :1286561-1287284	q1	q2	OK	101.797	77.6173	-0.39125	0.316396	0.751702	0.978191
gene1258	gene1258	frr	gi 57650036 ref NC_002951.2 :1287302-1287857	q1	q2	OK	163.695	89.0892	-0.877686	0.678543	0.497428	0.963286
gene1259	gene1259	uppS	gi 57650036 ref NC_002951.2 :1288229-1289000	q1	q2	OK	58.5322	45.7875	-0.354277	0.239556	0.810674	0.984151
gene126	gene126	SACOL0130	gi 57650036 ref NC_002951.2 :145800-147336	q1	q2	OK	9.60276	36.5321	1.92764	-1.27917	0.200837	0.842707
gene1260	gene1260	cdsA	gi 57650036 ref NC_002951.2 :1289006-1289789	q1	q2	OK	93.17	56.6623	-0.717477	0.554152	0.579475	0.976548
gene1261	gene1261	SACOL1281	gi 57650036 ref NC_002951.2 :1290025-1291312	q1	q2	OK	97.8233	69.7365	-0.488265	0.47752	0.632992	0.978191
gene1262	gene1262	proS	gi 57650036 ref NC_002951.2 :1291331-1293035	q1	q2	OK	148.906	53.4687	-1.47763	1.40029	0.161428	0.842707

gene1263	gene1263	polC	gi 57650036 ref NC_002951.2 :1293298-1297609	q1	q2	OK	61.248	50.9485	-0.265624	0.243405	0.807692	0.984151
gene1264	gene1264	SACOL1284	gi 57650036 ref NC_002951.2 :1297898-1298366	q1	q2	OK	60.2161	78.1187	0.375519	-0.22703	0.820402	0.984151
gene1265	gene1265	nusA	gi 57650036 ref NC_002951.2 :1298386-1299562	q1	q2	OK	117.747	60.0877	-0.970548	0.915486	0.359937	0.93284
gene1266	gene1266	SACOL1286	gi 57650036 ref NC_002951.2 :1299582-1300181	q1	q2	OK	86.1078	58.5817	-0.555694	0.18967	0.849568	0.984151
gene1267	gene1267	SACOL1287	gi 57650036 ref NC_002951.2 :1299582-1300181	q1	q2	OK	143.736	106.803	-0.428462	0.205238	0.837386	0.984151
gene1268	gene1268	infB	gi 57650036 ref NC_002951.2 :1300185-1302303	q1	q2	OK	213.785	120.962	-0.821611	0.709308	0.478133	0.956269
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	q1	q2	OK	142.98	67.118	-1.09104	0.634048	0.52605	0.963286
gene127	gene127	SACOL0132	gi 57650036 ref NC_002951.2 :147862-148756	q1	q2	NOTEST 0		0	0	0	1	1
gene1270	gene1270	truB	gi 57650036 ref NC_002951.2 :1303207-1304125	q1	q2	OK	32.9142	66.3726	1.01188	-0.72096	0.470935	0.956269
gene1271	gene1271	ribF	gi 57650036 ref NC_002951.2 :1304139-1305111	q1	q2	OK	133.574	138.787	0.0552387	-0.05475	0.956338	0.98956
gene1272	gene1272	rpsO	gi 57650036 ref NC_002951.2 :1305225-1305495	q1	q2	OK	3677.62	402.81	-3.1906	2.5487	0.010813	0.500083
gene1273	gene1273	pnp	gi 57650036 ref NC_002951.2 :1305864-1307961	q1	q2	OK	254.948	113.294	-1.17014	1.00118	0.316739	0.927653
gene1274	gene1274	SACOL1294	gi 57650036 ref NC_002951.2 :1308298-1309870	q1	q2	OK	433.26	193.363	-1.16392	0.963192	0.335451	0.928169
gene1275	gene1275	SACOL1295	gi 57650036 ref NC_002951.2 :1310116-1312495	q1	q2	OK	86.6152	68.3005	-0.342725	0.3294	0.741854	0.978191
gene1276	gene1276	SACOL1296	gi 57650036 ref NC_002951.2 :1312499-1313213	q1	q2	OK	29.1832	30.4196	0.0598669	-0.03503	0.972058	0.993959
gene1277	gene1277	SACOL1297	gi 57650036 ref NC_002951.2 :1313243-1316499	q1	q2	OK	41.5979	28.7669	-0.532104	0.318952	0.749763	0.978191
gene1278	gene1278	SACOL1298	gi 57650036 ref NC_002951.2 :1313243-1316499	q1	q2	OK	39.1695	32.3332	-0.276713	0.170313	0.864764	0.984151
gene1279	gene1279	SACOL1299	gi 57650036 ref NC_002951.2 :1313243-1316499	q1	q2	OK	45.2587	49.955	0.142434	-0.06852	0.945369	0.987716
gene128	gene128	SACOL0134	gi 57650036 ref NC_002951.2 :149516-150001	q1	q2	OK	0.816393	5.94003	2.86313	-1.21436	0.224611	0.854232
gene1280	gene1280	SACOL1300	gi 57650036 ref NC_002951.2 :1316603-1317431	q1	q2	OK	95.4219	94.6182	-0.0122033	0.010974	0.991244	0.997969
gene1281	gene1281	SACOL1301	gi 57650036 ref NC_002951.2 :1317449-1317842	q1	q2	OK	99.8657	64.2812	-0.635593	0.371885	0.709979	0.978191
gene1282	gene1282	pgsA	gi 57650036 ref NC_002951.2 :1317875-1318454	q1	q2	OK	277.659	124.476	-1.15745	1.04462	0.2962	0.924214
gene1283	gene1283	SACOL1303	gi 57650036 ref NC_002951.2 :1318680-1319832	q1	q2	OK	89.2702	77.269	-0.208288	0.2016	0.840229	0.984151
gene1284	gene1284	recA	gi 57650036 ref NC_002951.2 :1319996-1321040	q1	q2	OK	530.365	309.809	-0.775607	0.657536	0.510837	0.963286
gene1285	gene1285	SACOL1305	gi 57650036 ref NC_002951.2 :1321393-1322953	q1	q2	OK	758.58	920.474	0.279075	-0.20473	0.837782	0.984151
gene1286	gene1286	SACOL1306	gi 57650036 ref NC_002951.2 :1323249-1323465	q1	q2	OK	10284.5	762.102	-3.75434	2.81767	0.004837	0.446636
gene1287	gene1287	SACOL1307	gi 57650036 ref NC_002951.2 :1323638-1324436	q1	q2	OK	170.69	85.8401	-0.991651	0.910118	0.36276	0.93284
gene1288	gene1288	SACOL1308	gi 57650036 ref NC_002951.2 :1324575-1326336	q1	q2	OK	83.3633	47.2541	-0.818973	0.796444	0.425774	0.951977
gene1289	gene1289	SACOL1309	gi 57650036 ref NC_002951.2 :1326336-1327203	q1	q2	OK	215.131	67.3054	-1.67642	1.48031	0.138792	0.842707
gene129	gene129	SACOL0135	gi 57650036 ref NC_002951.2 :150450-153060	q1	q2	OK	2.50626	36.6016	3.8683	-2.47796	0.013214	0.500083
gene1290	gene1290	SACOL1310	gi 57650036 ref NC_002951.2 :1327296-1327590	q1	q2	OK	17.9105	15.1363	-0.242797	0.108784	0.913374	0.984151
gene1291	gene1291	miaB	gi 57650036 ref NC_002951.2 :1327723-1329268	q1	q2	OK	77.2687	45.4409	-0.765892	0.727352	0.467011	0.956269
gene1292	gene1292	SACOL1313	gi 57650036 ref NC_002951.2 :1329268-1329634	q1	q2	OK	133.722	88.1379	-0.601399	0.36173	0.717554	0.978191

gene1293	gene1293	SACOL1314	gi 57650036 ref NC_002951.2 :1329660-1330152	q1	q2	OK	111.332	67.2768	-0.726687	0.470753	0.637817	0.978191
gene1294	gene1294	hexA	gi 57650036 ref NC_002951.2 :1330454-1333073	q1	q2	OK	53.3254	47.35	-0.171458	0.169513	0.865393	0.984151
gene1295	gene1295	mutL	gi 57650036 ref NC_002951.2 :1333085-1335095	q1	q2	OK	58.1123	34.7448	-0.742045	0.70796	0.47897	0.956269
gene1296	gene1296	glpP	gi 57650036 ref NC_002951.2 :1335100-1335643	q1	q2	OK	50.148	41.6305	-0.268554	0.157641	0.87474	0.984151
gene1297	gene1297	glpF	gi 57650036 ref NC_002951.2 :1336107-1336926	q1	q2	OK	520.915	78.5249	-2.72983	2.32388	0.020132	0.517412
gene1298	gene1298	glpK	gi 57650036 ref NC_002951.2 :1337054-1338551	q1	q2	OK	102.827	56.2633	-0.869948	0.844715	0.39827	0.940909
gene1299	gene1299	glpD	gi 57650036 ref NC_002951.2 :1338708-1340382	q1	q2	OK	112.811	140.469	0.316347	-0.2999	0.764258	0.978191
gene13	gene13	SACOL0014	gi 57650036 ref NC_002951.2 :18344-20755	q1	q2	OK	184.902	92.4262	-1.00039	0.819823	0.412317	0.943899
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	q1	q2	OK	78.6505	260.661	1.72865	-1.4198	0.155665	0.842707
gene1300	gene1300	SACOL1322	gi 57650036 ref NC_002951.2 :1340531-1341446	q1	q2	OK	12.3578	22.2148	0.846107	-0.47485	0.634895	0.978191
gene1301	gene1301	miaA	gi 57650036 ref NC_002951.2 :1341463-1342399	q1	q2	OK	43.1765	52.4464	0.280597	-0.20138	0.840402	0.984151
gene1302	gene1302	SACOL1324	gi 57650036 ref NC_002951.2 :1342413-1342647	q1	q2	OK	34.9579	67.9751	0.959386	-0.44464	0.656582	0.978191
gene1303	gene1303	gpxA1	gi 57650036 ref NC_002951.2 :1342868-1343345	q1	q2	OK	246.698	133.515	-0.885747	0.729357	0.465783	0.956269
gene1304	gene1304	SACOL1326	gi 57650036 ref NC_002951.2 :1343456-1344695	q1	q2	OK	21.8779	32.5024	0.571069	-0.38106	0.703161	0.978191
gene1305	gene1305	SACOL1327	gi 57650036 ref NC_002951.2 :1344713-1345952	q1	q2	OK	34.9205	39.0028	0.159503	-0.11879	0.905438	0.984151
gene1306	gene1306	glnR	gi 57650036 ref NC_002951.2 :1346194-1346563	q1	q2	OK	180.187	169.474	-0.0884271	0.059579	0.952491	0.988316
gene1307	gene1307	femC	gi 57650036 ref NC_002951.2 :1346581-1347922	q1	q2	OK	186.192	193.528	0.0557559	-0.05169	0.958777	0.989588
gene1308	gene1308	SACOL1331	gi 57650036 ref NC_002951.2 :1348414-1348612	q1	q2	OK	9.5867	24.8383	1.37346	-0.56108	0.574742	0.976548
gene1309	gene1309	SACOL1332	gi 57650036 ref NC_002951.2 :1349300-1349525	q1	q2	OK	0	6.80594	1.79769e+30	1.79769e+	0.209916	0.842707
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	q1	q2	OK	32.2664	187.681	2.54018	-1.80459	0.071138	0.754145
gene1310	gene1310	SACOL1333	gi 57650036 ref NC_002951.2 :1349818-1350025	q1	q2	OK	0	13.1861	1.79769e+30	1.79769e+	0.20195	0.842707
gene1311	gene1311	SACOL1334	gi 57650036 ref NC_002951.2 :1350725-1350836	q1	q2	NOTEST	0	0	0	0	1	1
gene1312	gene1312	SACOL1335	gi 57650036 ref NC_002951.2 :1351263-1351449	q1	q2	OK	12.9338	22.8691	0.822255	-0.33275	0.739325	0.978191
gene1313	gene1313	SACOL1336	gi 57650036 ref NC_002951.2 :1351960-1352065	q1	q2	NOTEST	0	0	0	0	1	1
gene1314	gene1314	SACOL1337	gi 57650036 ref NC_002951.2 :1352097-1352193	q1	q2	NOTEST	0	0	0	0	1	1
gene1315	gene1315	SACOL1338	gi 57650036 ref NC_002951.2 :1352193-1352445	q1	q2	OK	7.88016	13.4088	0.76688	-0.3216	0.747753	0.978191
gene1316	gene1316	SACOL1339	gi 57650036 ref NC_002951.2 :1352649-1353075	q1	q2	OK	1.05069	29.0865	4.79095	-2.15149	0.031437	0.604847
gene1317	gene1317	SACOL1340	gi 57650036 ref NC_002951.2 :1353195-1353444	q1	q2	OK	40.874	44.9895	0.138406	-0.0646	0.948492	0.987716
gene1318	gene1318	SACOL1341	gi 57650036 ref NC_002951.2 :1353573-1353675	q1	q2	NOTEST	0	0	0	0	1	1
gene1319	gene1319	SACOL1342	gi 57650036 ref NC_002951.2 :1353720-1353987	q1	q2	OK	0	8.67784	1.79769e+30	1.79769e+	0.194317	0.842707
gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	q1	q2	OK	28.8014	124.628	2.11342	-1.49529	0.134838	0.842707
gene1320	gene1320	SACOL1344	gi 57650036 ref NC_002951.2 :1354323-1354458	q1	q2	OK	0	80.7366	1.79769e+30	1.79769e+	0.206623	0.842707
gene1321	gene1321	SACOL1345	gi 57650036 ref NC_002951.2 :1354548-1354839	q1	q2	OK	21.0287	26.2391	0.319362	-0.14712	0.883041	0.984151

gene1322	gene1322	SACOL1346	gi 57650036 ref NC_002951.2 :1354849-1355044	q1	q2	OK	20.5727	22.4638	0.126868	-0.05211	0.958437	0.989588
gene1323	gene1323	SACOL1347	gi 57650036 ref NC_002951.2 :1355093-1355435	q1	q2	OK	27.7091	21.8656	-0.341698	0.164065	0.86968	0.984151
gene1324	gene1324	SACOL1348	gi 57650036 ref NC_002951.2 :1355441-1355633	q1	q2	OK	11.0681	14.6392	0.403428	-0.16051	0.872478	0.984151
gene1325	gene1325	SACOL1349	gi 57650036 ref NC_002951.2 :1356181-1357207	q1	q2	OK	5.32413	65.1382	3.61289	-2.18658	0.028773	0.604847
gene1326	gene1326	SACOL1350	gi 57650036 ref NC_002951.2 :1357476-1357674	q1	q2	OK	354.708	62.0956	-2.51407	1.21532	0.224243	0.854232
gene1327	gene1327	cls1	gi 57650036 ref NC_002951.2 :1357731-1359213	q1	q2	OK	101.506	55.1242	-0.880811	0.852924	0.393701	0.940909
gene1328	gene1328	SACOL1352	gi 57650036 ref NC_002951.2 :1359387-1360996	q1	q2	OK	6.23297	22.2529	1.836	-0.75379	0.450974	0.956269
gene1329	gene1329	SACOL1353	gi 57650036 ref NC_002951.2 :1359387-1360996	q1	q2	OK	10.5037	39.8075	1.92214	-0.8766	0.380705	0.940893
gene133	gene133	cap5D	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	37.3715	164.383	2.13705	-1.56316	0.118015	0.840838
gene1330	gene1330	SACOL1354	gi 57650036 ref NC_002951.2 :1360999-1362690	q1	q2	OK	22.8756	38.1051	0.736173	-0.44179	0.658642	0.978191
gene1331	gene1331	SACOL1355	gi 57650036 ref NC_002951.2 :1360999-1362690	q1	q2	OK	45.0395	55.5427	0.302405	-0.16014	0.872775	0.984151
gene1332	gene1332	SACOL1356	gi 57650036 ref NC_002951.2 :1362962-1363070	q1	q2	NOTEST 0		0	0	0	1	1
gene1333	gene1333	SACOL1357	gi 57650036 ref NC_002951.2 :1363129-1363663	q1	q2	OK	21.3276	32.173	0.59313	-0.31791	0.750552	0.978191
gene1334	gene1334	SACOL1358	gi 57650036 ref NC_002951.2 :1363805-1364660	q1	q2	OK	141.072	100.874	-0.483869	0.464681	0.64216	0.978191
gene1335	gene1335	SACOL1359	gi 57650036 ref NC_002951.2 :1364975-1365566	q1	q2	OK	420.916	73.9911	-2.50811	1.97709	0.048032	0.668955
gene1336	gene1336	SACOL1360	gi 57650036 ref NC_002951.2 :1365619-1367002	q1	q2	OK	29.8464	54.7421	0.875094	-0.70148	0.483005	0.960232
gene1337	gene1337	SACOL1361	gi 57650036 ref NC_002951.2 :1367007-1367115	q1	q2	NOTEST 0		0	0	0	1	1
gene1338	gene1338	hom	gi 57650036 ref NC_002951.2 :1367192-1368473	q1	q2	OK	152.921	605.953	1.98642	-1.68503	0.091982	0.784058
gene1339	gene1339	thrC	gi 57650036 ref NC_002951.2 :1368478-1369540	q1	q2	OK	313.374	375.79	0.262039	-0.2286	0.819184	0.984151
gene134	gene134	cap5E	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	41.6387	144.918	1.79924	-0.92564	0.354632	0.93284
gene1340	gene1340	thrB	gi 57650036 ref NC_002951.2 :1369541-1370456	q1	q2	OK	185.675	196.76	0.0836549	-0.08213	0.934544	0.987716
gene1341	gene1341	SACOL1365	gi 57650036 ref NC_002951.2 :1370513-1371317	q1	q2	OK	445.314	226.64	-0.974423	0.911193	0.362194	0.93284
gene1342	gene1342	SACOL1366	gi 57650036 ref NC_002951.2 :1371609-1371924	q1	q2	OK	204.962	47.0327	-2.12362	1.18606	0.235599	0.874029
gene1343	gene1343	SACOL1367	gi 57650036 ref NC_002951.2 :1372141-1373596	q1	q2	OK	132.18	82.3652	-0.682398	0.667526	0.504436	0.963286
gene1344	gene1344	kataA	gi 57650036 ref NC_002951.2 :1373895-1375317	q1	q2	OK	1662.46	1049.05	-0.664231	0.481227	0.630355	0.978191
gene1345	gene1345	rpmG	gi 57650036 ref NC_002951.2 :1375407-1375557	q1	q2	OK	1847.9	272.891	-2.75949	1.3295	0.183682	0.842707
gene1346	gene1346	rpsN	gi 57650036 ref NC_002951.2 :1376010-1376280	q1	q2	OK	45.0847	31.1698	-0.532489	0.251104	0.801734	0.984151
gene1347	gene1347	guaC	gi 57650036 ref NC_002951.2 :1376436-1377515	q1	q2	OK	21.8021	33.4721	0.618492	-0.34516	0.729976	0.978191
gene1348	gene1348	SACOL1372	gi 57650036 ref NC_002951.2 :1376436-1377515	q1	q2	NOTEST 0		0	0	0	1	1
gene1349	gene1349	SACOL1373	gi 57650036 ref NC_002951.2 :1377588-1378452	q1	q2	OK	38.358	34.266	-0.162747	0.104239	0.91698	0.984151
gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	q1	q2	OK	64.8235	98.9956	0.610849	-0.57036	0.568431	0.976548
gene1350	gene1350	lexA	gi 57650036 ref NC_002951.2 :1378831-1379455	q1	q2	OK	945.312	403.331	-1.22883	1.08917	0.276078	0.912816
gene1351	gene1351	SACOL1375	gi 57650036 ref NC_002951.2 :1379597-1379831	q1	q2	OK	104.874	40.785	-1.36254	0.649037	0.516314	0.963286

gene1352	gene1352	SACOL1376	gi 57650036 ref NC_002951.2 :1379966-1380206	q1	q2	OK	27.5558	42.4021	0.621777	-0.28149	0.778336	0.981979
gene1353	gene1353	tkt	gi 57650036 ref NC_002951.2 :1380326-1382315	q1	q2	OK	599.288	239.842	-1.32117	1.0185	0.30844	0.927653
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	q1	q2	OK	807.503	57.4349	-3.81347	1.68671	0.091659	0.784058
gene1355	gene1355	SACOL1379	gi 57650036 ref NC_002951.2 :1382592-1382920	q1	q2	NOTEST 0		0	0	0	1	1
gene1356	gene1356	SACOL1380	gi 57650036 ref NC_002951.2 :1383013-1383481	q1	q2	OK	90.7605	23.3245	-1.96022	1.10788	0.267913	0.902578
gene1357	gene1357	sbcD	gi 57650036 ref NC_002951.2 :1383604-1384726	q1	q2	OK	16.6432	52.5206	1.65795	-1.12111	0.262241	0.899266
gene1358	gene1358	sbcC	gi 57650036 ref NC_002951.2 :1384729-1387759	q1	q2	OK	27.3247	26.4536	-0.0467411	0.044997	0.964109	0.989588
gene1359	gene1359	mscL	gi 57650036 ref NC_002951.2 :1387829-1388192	q1	q2	OK	2048.35	196.187	-3.38416	2.66303	0.007744	0.480028
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	q1	q2	OK	60.9011	74.9987	0.300397	-0.27288	0.784947	0.982219
gene1360	gene1360	opuD1	gi 57650036 ref NC_002951.2 :1388395-1390042	q1	q2	OK	293.83	66.4436	-2.14478	1.90943	0.056207	0.696046
gene1361	gene1361	acnA	gi 57650036 ref NC_002951.2 :1390933-1393639	q1	q2	OK	944.717	456.295	-1.04991	0.763285	0.445293	0.956269
gene1362	gene1362	SACOL1386	gi 57650036 ref NC_002951.2 :1393818-1394286	q1	q2	OK	156.213	83.3019	-0.90709	0.62244	0.533653	0.963286
gene1363	gene1363	SACOL1387	gi 57650036 ref NC_002951.2 :1394492-1394789	q1	q2	OK	306.421	187.99	-0.704862	0.450951	0.652025	0.978191
gene1364	gene1364	SACOL1388	gi 57650036 ref NC_002951.2 :1395164-1395773	q1	q2	OK	404.035	98.8672	-2.03092	1.74304	0.081326	0.761588
gene1365	gene1365	parE	gi 57650036 ref NC_002951.2 :1395972-1400372	q1	q2	OK	94.7401	70.3564	-0.429294	0.261398	0.793786	0.983552
gene1366	gene1366	parC	gi 57650036 ref NC_002951.2 :1395972-1400372	q1	q2	OK	100.853	41.6317	-1.2765	0.778947	0.436011	0.956269
gene1367	gene1367	SACOL1392	gi 57650036 ref NC_002951.2 :1400621-1402097	q1	q2	OK	130.816	50.3157	-1.37847	1.30346	0.192418	0.842707
gene1368	gene1368	SACOL1393	gi 57650036 ref NC_002951.2 :1402581-1404776	q1	q2	OK	62.2048	36.6165	-0.764533	0.24443	0.806898	0.984151
gene1369	gene1369	SACOL1394	gi 57650036 ref NC_002951.2 :1402581-1404776	q1	q2	OK	180.733	39.4088	-2.19726	0.110017	0.912396	0.984151
gene137	gene137	cap5H	gi 57650036 ref NC_002951.2 :160655-161282	q1	q2	NOTEST 0		0	0	0	1	1
gene1370	gene1370	SACOL1395	gi 57650036 ref NC_002951.2 :1402581-1404776	q1	q2	OK	251.452	181.672	-0.468945	0.39283	0.694445	0.978191
gene1371	gene1371	fmtC	gi 57650036 ref NC_002951.2 :1405256-1407779	q1	q2	OK	143.06	144.537	0.0148175	-0.01261	0.989937	0.997969
gene1372	gene1372	msrA	gi 57650036 ref NC_002951.2 :1407981-1408491	q1	q2	OK	87.9646	72.6137	-0.27668	0.178133	0.858619	0.984151
gene1373	gene1373	SACOL1398	gi 57650036 ref NC_002951.2 :1408627-1409611	q1	q2	OK	66.0139	33.4851	-0.979248	0.718127	0.472679	0.956269
gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	q1	q2	OK	569.086	28.5863	-4.31525	2.00262	0.045218	0.650761
gene1375	gene1375	SACOL1400	gi 57650036 ref NC_002951.2 :1410031-1411294	q1	q2	OK	17.6736	50.2618	1.50786	-1.05944	0.289398	0.921417
gene1376	gene1376	tyrA	gi 57650036 ref NC_002951.2 :1411430-1412522	q1	q2	OK	80.6796	67.7294	-0.252421	0.234345	0.814717	0.984151
gene1377	gene1377	SACOL1402	gi 57650036 ref NC_002951.2 :1412686-1413718	q1	q2	OK	99.8792	64.1805	-0.638048	0.585291	0.558352	0.976548
gene1378	gene1378	trpE	gi 57650036 ref NC_002951.2 :1414209-1416179	q1	q2	OK	2.52701	21.83	3.11081	-1.57708	0.114777	0.836663
gene1379	gene1379	trpG	gi 57650036 ref NC_002951.2 :1414209-1416179	q1	q2	OK	1.86592	27.4865	3.88076	-0.98635	0.32396	0.927653
gene138	gene138	cap5I	gi 57650036 ref NC_002951.2 :161286-162396	q1	q2	NOTEST 0		0	0	0	1	1
gene1380	gene1380	trpD	gi 57650036 ref NC_002951.2 :1416184-1417183	q1	q2	OK	4.13214	47.8813	3.5345	-2.01252	0.044165	0.650761
gene1381	gene1381	trpC	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	4.20028	30.4428	2.85754	-0.97325	0.330429	0.927653

gene1382	gene1382	trpF	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	1.55385	25.8663	4.05715	-0.78155	0.434481	0.956269
gene1383	gene1383	trpB	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	2.58549	33.6673	3.70284	-1.39722	0.162347	0.842707
gene1384	gene1384	trpA	gi 57650036 ref NC_002951.2 :1417184-1420527	q1	q2	OK	5.91699	22.2367	1.91001	-0.65912	0.509819	0.963286
gene1385	gene1385	femA	gi 57650036 ref NC_002951.2 :1420809-1422111	q1	q2	OK	328.409	192.627	-0.769686	0.678209	0.497639	0.963286
gene1386	gene1386	SACOL1411	gi 57650036 ref NC_002951.2 :1422129-1423389	q1	q2	OK	625.726	209.844	-1.57622	1.31343	0.189038	0.842707
gene1387	gene1387	SACOL1412	gi 57650036 ref NC_002951.2 :1424071-1424839	q1	q2	OK	11.3786	42.4126	1.89817	-1.07783	0.28111	0.914891
gene1388	gene1388	SACOL1413	gi 57650036 ref NC_002951.2 :1424886-1425360	q1	q2	OK	253.889	95.0028	-1.41815	1.08039	0.279969	0.914891
gene1389	gene1389	SACOL1414	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	33.9336	36.0045	0.085461	-0.03973	0.968307	0.992211
gene139	gene139	cap5J	gi 57650036 ref NC_002951.2 :162409-164774	q1	q2	NOTEST 0		0	0	0	1	1
gene1390	gene1390	SACOL1415	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	13.5831	31.442	1.21088	-0.45322	0.650391	0.978191
gene1391	gene1391	SACOL1416	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	10.9017	44.9719	2.04447	-0.7825	0.433919	0.956269
gene1392	gene1392	SACOL1417	gi 57650036 ref NC_002951.2 :1425483-1428747	q1	q2	OK	12.3115	29.9454	1.28233	-0.54099	0.588517	0.978191
gene1393	gene1393	SACOL1418	gi 57650036 ref NC_002951.2 :1429050-1429395	q1	q2	OK	98.3008	45.5271	-1.11048	0.603862	0.545935	0.97151
gene1394	gene1394	SACOL1419	gi 57650036 ref NC_002951.2 :1429599-1431414	q1	q2	OK	137.177	97.6593	-0.490211	0.46364	0.642906	0.978191
gene1395	gene1395	SACOL1420	gi 57650036 ref NC_002951.2 :1431553-1432195	q1	q2	OK	6.12628	17.7089	1.53139	-0.75931	0.44767	0.956269
gene1396	gene1396	SACOL1421	gi 57650036 ref NC_002951.2 :1432201-1433053	q1	q2	OK	3.39917	33.4599	3.29918	-1.73233	0.083215	0.76604
gene1397	gene1397	SACOL1422	gi 57650036 ref NC_002951.2 :1433099-1434017	q1	q2	OK	7.07501	45.5414	2.68637	-1.54712	0.121835	0.842707
gene1398	gene1398	SACOL1423	gi 57650036 ref NC_002951.2 :1434018-1434945	q1	q2	OK	2.73306	28.2434	3.36932	-1.75019	0.080085	0.760657
gene1399	gene1399	SACOL1424	gi 57650036 ref NC_002951.2 :1435135-1436119	q1	q2	OK	14.6073	55.501	1.92582	-1.2418	0.214311	0.850184
gene14	gene14	rplI	gi 57650036 ref NC_002951.2 :18344-20755	q1	q2	OK	126.84	161.855	0.351691	-0.10377	0.917354	0.984151
gene140	gene140	cap5K	gi 57650036 ref NC_002951.2 :162409-164774	q1	q2	NOTEST 0		0	0	0	1	1
gene1400	gene1400	SACOL1425	gi 57650036 ref NC_002951.2 :1436658-1436955	q1	q2	OK	0	17.5089	1.79769e+30	1.79769e+	0.175616	0.842707
gene1401	gene1401	SACOL1426	gi 57650036 ref NC_002951.2 :1437090-1437993	q1	q2	OK	249.32	117.911	-1.0803	1.04764	0.294803	0.924214
gene1402	gene1402	SACOL1427	gi 57650036 ref NC_002951.2 :1438139-1439741	q1	q2	OK	70.8192	34.9077	-1.02059	0.921935	0.356562	0.93284
gene1403	gene1403	lysC	gi 57650036 ref NC_002951.2 :1440600-1441806	q1	q2	OK	17.177	34.1699	0.992242	-0.64339	0.519974	0.963286
gene1404	gene1404	asd	gi 57650036 ref NC_002951.2 :1441869-1442859	q1	q2	OK	75.2519	78.6418	0.0635671	-0.05753	0.954126	0.989031
gene1405	gene1405	dapA	gi 57650036 ref NC_002951.2 :1442860-1444467	q1	q2	OK	87.7692	87.3183	-0.00743035	0.00578	0.995389	0.998672
gene1406	gene1406	dapB	gi 57650036 ref NC_002951.2 :1442860-1444467	q1	q2	OK	76.9896	65.6912	-0.228963	0.139792	0.888824	0.984151
gene1407	gene1407	dapD	gi 57650036 ref NC_002951.2 :1444493-1445213	q1	q2	OK	182.019	101.053	-0.848977	0.782491	0.433926	0.956269
gene1408	gene1408	SACOL1433	gi 57650036 ref NC_002951.2 :1445355-1446507	q1	q2	OK	54.7585	45.6639	-0.262029	0.214677	0.830019	0.984151
gene1409	gene1409	SACOL1434	gi 57650036 ref NC_002951.2 :1446511-1448852	q1	q2	OK	39.382	39.9954	0.0222971	-0.01188	0.990525	0.997969
gene141	gene141	cap5L	gi 57650036 ref NC_002951.2 :164774-165980	q1	q2	OK	33.4844	46.7642	0.481916	-0.36383	0.715988	0.978191
gene1410	gene1410	lysA	gi 57650036 ref NC_002951.2 :1446511-1448852	q1	q2	OK	99.9989	58.9964	-0.761285	0.62441	0.532358	0.963286

gene1411	gene1411	SACOL1436	gi 57650036 ref NC_002951.2 :1449091-1449493	q1	q2	OK	0	22.1539	1.79769e+30	1.79769e+30	0.154814	0.842707
gene1412	gene1412	SACOL1437	gi 57650036 ref NC_002951.2 :1449689-1449890	q1	q2	OK	3611.25	1728.7	-1.06281	0.947241	0.343516	0.93284
gene1413	gene1413	SACOL1438	gi 57650036 ref NC_002951.2 :1450060-1450369	q1	q2	OK	222.237	156.94	-0.501889	0.310593	0.75611	0.978191
gene1414	gene1414	SACOL1439	gi 57650036 ref NC_002951.2 :1450531-1450801	q1	q2	OK	463.728	883.544	0.930022	-0.73497	0.462356	0.956269
gene1415	gene1415	SACOL1440	gi 57650036 ref NC_002951.2 :1450819-1451449	q1	q2	OK	180.805	276.065	0.610573	-0.59345	0.552879	0.976229
gene1416	gene1416	SACOL1441	gi 57650036 ref NC_002951.2 :1451480-1452617	q1	q2	OK	296.997	219.51	-0.436161	0.396493	0.691742	0.978191
gene1417	gene1417	SACOL1442	gi 57650036 ref NC_002951.2 :1452884-1453277	q1	q2	OK	1.24832	23.101	4.2099	-1.85778	0.0632	0.717594
gene1418	gene1418	brnQ3	gi 57650036 ref NC_002951.2 :1453629-1454973	q1	q2	OK	23.0687	26.0161	0.17347	-0.11556	0.908001	0.984151
gene1419	gene1419	SACOL1444	gi 57650036 ref NC_002951.2 :1455197-1457084	q1	q2	OK	20.0327	29.9382	0.579635	-0.44396	0.657069	0.978191
gene142	gene142	cap5M	gi 57650036 ref NC_002951.2 :165990-167435	q1	q2	OK	25.5478	55.7283	1.12521	-0.48463	0.627937	0.978191
gene1420	gene1420	SACOL1445	gi 57650036 ref NC_002951.2 :1457097-1457889	q1	q2	OK	24.8027	42.8225	0.787875	-0.48237	0.629542	0.978191
gene1421	gene1421	SACOL1446	gi 57650036 ref NC_002951.2 :1458069-1458273	q1	q2	OK	251.98	74.4326	-1.75931	0.854195	0.392997	0.940909
gene1422	gene1422	SACOL1447	gi 57650036 ref NC_002951.2 :1458301-1459111	q1	q2	OK	281.939	133.538	-1.07813	1.04618	0.29548	0.924214
gene1423	gene1423	sucB	gi 57650036 ref NC_002951.2 :1459690-1460959	q1	q2	OK	765.003	269.467	-1.50536	1.21302	0.225123	0.854232
gene1424	gene1424	sucA	gi 57650036 ref NC_002951.2 :1460972-1463771	q1	q2	OK	584.066	266.452	-1.13226	0.840697	0.400518	0.940909
gene1425	gene1425	arlS	gi 57650036 ref NC_002951.2 :1464054-1466066	q1	q2	OK	45.2711	58.5227	0.370406	-0.26586	0.790345	0.982219
gene1426	gene1426	arlR	gi 57650036 ref NC_002951.2 :1464054-1466066	q1	q2	OK	81.2514	149.608	0.88072	-0.58175	0.560736	0.976548
gene1427	gene1427	SACOL1452	gi 57650036 ref NC_002951.2 :1466853-1467468	q1	q2	OK	112.968	42.5167	-1.40981	0.960364	0.336872	0.93058
gene1428	gene1428	murG	gi 57650036 ref NC_002951.2 :1467484-1468555	q1	q2	OK	45.3726	50.1844	0.145417	-0.11213	0.910718	0.984151
gene1429	gene1429	SACOL1454	gi 57650036 ref NC_002951.2 :1468566-1469077	q1	q2	OK	11.8861	24.4526	1.04072	-0.52351	0.600618	0.978191
gene143	gene143	cap5N	gi 57650036 ref NC_002951.2 :165990-167435	q1	q2	OK	29.5779	37.5933	0.345956	-0.19049	0.848926	0.984151
gene1430	gene1430	SACOL1455	gi 57650036 ref NC_002951.2 :1469476-1470967	q1	q2	OK	118.819	54.5835	-1.12223	1.07929	0.280457	0.914891
gene1431	gene1431	SACOL1456	gi 57650036 ref NC_002951.2 :1471158-1471880	q1	q2	OK	1057.23	107.966	-3.29164	1.05976	0.289256	0.921417
gene1432	gene1432	SACOL1457	gi 57650036 ref NC_002951.2 :1471158-1471880	q1	q2	OK	353.993	176.545	-1.00368	0.839434	0.401226	0.940909
gene1433	gene1433	SACOL1459	gi 57650036 ref NC_002951.2 :1471891-1473771	q1	q2	OK	367.588	181.268	-1.01996	0.769236	0.441753	0.956269
gene1434	gene1434	SACOL1460	gi 57650036 ref NC_002951.2 :1471891-1473771	q1	q2	OK	170.495	75.6948	-1.17146	0.503051	0.614928	0.978191
gene1435	gene1435	folA	gi 57650036 ref NC_002951.2 :1473785-1474265	q1	q2	OK	198.895	180.842	-0.137278	0.117555	0.90642	0.984151
gene1436	gene1436	thyA	gi 57650036 ref NC_002951.2 :1474464-1475421	q1	q2	OK	104.559	81.3111	-0.362798	0.341157	0.732986	0.978191
gene1437	gene1437	SACOL1464	gi 57650036 ref NC_002951.2 :1475844-1476282	q1	q2	OK	289.969	82.7457	-1.80914	1.3174	0.187706	0.842707
gene1438	gene1438	SACOL1465	gi 57650036 ref NC_002951.2 :1476297-1477422	q1	q2	OK	141.945	131.612	-0.109037	0.107643	0.914279	0.984151
gene1439	gene1439	SACOL1466	gi 57650036 ref NC_002951.2 :1477459-1477711	q1	q2	OK	110.322	67.0438	-0.718547	0.361704	0.717573	0.978191
gene144	gene144	cap5O	gi 57650036 ref NC_002951.2 :167488-168751	q1	q2	OK	31.8536	55.9333	0.812251	-0.63771	0.523664	0.963286
gene1440	gene1440	SACOL1467	gi 57650036 ref NC_002951.2 :1477722-1477917	q1	q2	OK	41.1454	152.754	1.8924	-0.8552	0.392442	0.940909

gene1441	gene1441	SACOL1468	gi 57650036 ref NC_002951.2 :1478161-1478866	q1	q2	OK	12.424	30.337	1.28796	-0.70263	0.482287	0.960232
gene1442	gene1442	SACOL1469	gi 57650036 ref NC_002951.2 :1478930-1479062	q1	q2	OK	154.143	289.393	0.908764	-0.37125	0.710454	0.978191
gene1443	gene1443	SACOL1471	gi 57650036 ref NC_002951.2 :1479406-1479808	q1	q2	OK	16.6283	26.9699	0.697712	-0.34226	0.732155	0.978191
gene1444	gene1444	ebh	gi 57650036 ref NC_002951.2 :1479866-1511363	q1	q2	OK	4.84265	26.0745	2.42877	-2.04033	0.041317	0.643773
gene1445	gene1445	SACOL1475	gi 57650036 ref NC_002951.2 :1511760-1513152	q1	q2	OK	4.93608	50.229	3.34708	-2.09796	0.035909	0.626017
gene1446	gene1446	SACOL1476	gi 57650036 ref NC_002951.2 :1513308-1514631	q1	q2	OK	4.663	81.2457	4.12296	-2.60472	0.009195	0.498321
gene1447	gene1447	ilvA1	gi 57650036 ref NC_002951.2 :1514661-1515702	q1	q2	OK	3.39718	40.8615	3.58833	-1.99645	0.045884	0.650761
gene1448	gene1448	ald1	gi 57650036 ref NC_002951.2 :1515796-1516915	q1	q2	OK	5.48682	35.6524	2.69996	-1.55432	0.120108	0.842707
gene1449	gene1449	SACOL1479	gi 57650036 ref NC_002951.2 :1517389-1518268	q1	q2	OK	205.326	98.0046	-1.06699	1.02522	0.305259	0.927653
gene145	gene145	cap5P	gi 57650036 ref NC_002951.2 :168797-169973	q1	q2	OK	36.5576	41.7955	0.193176	-0.14354	0.885866	0.984151
gene1450	gene1450	SACOL1480	gi 57650036 ref NC_002951.2 :1518287-1521728	q1	q2	OK	132.117	61.6017	-1.10078	0.957131	0.338501	0.93058
gene1451	gene1451	SACOL1481	gi 57650036 ref NC_002951.2 :1522031-1523372	q1	q2	OK	6.88183	21.1586	1.62038	-0.9347	0.349942	0.93284
gene1452	gene1452	SACOL1482	gi 57650036 ref NC_002951.2 :1523577-1523910	q1	q2	OK	77.7565	36.5102	-1.09066	0.568242	0.56987	0.976548
gene1453	gene1453	SACOL1483	gi 57650036 ref NC_002951.2 :1523993-1525139	q1	q2	OK	40.5255	30.486	-0.410684	0.289259	0.772383	0.980274
gene1454	gene1454	SACOL1484	gi 57650036 ref NC_002951.2 :1525789-1526134	q1	q2	OK	271.174	379.826	0.486116	-0.38559	0.699799	0.978191
gene1455	gene1455	SACOL1485	gi 57650036 ref NC_002951.2 :1526147-1527054	q1	q2	OK	339.45	181.453	-0.903605	0.708989	0.478331	0.956269
gene1456	gene1456	SACOL1486	gi 57650036 ref NC_002951.2 :1526147-1527054	q1	q2	OK	375.323	279.763	-0.423928	0.242493	0.808398	0.984151
gene1457	gene1457	SACOL1488	gi 57650036 ref NC_002951.2 :1527487-1530400	q1	q2	NOTEST 0		0	0	0	1	1
gene1458	gene1458	recU	gi 57650036 ref NC_002951.2 :1527487-1530400	q1	q2	OK	139.26	86.3031	-0.690295	0.144109	0.885414	0.984151
gene1459	gene1459	pbp2	gi 57650036 ref NC_002951.2 :1527487-1530400	q1	q2	OK	534.121	121.618	-2.13481	1.62639	0.103867	0.816291
gene146	gene146	SACOL0152	gi 57650036 ref NC_002951.2 :170037-170364	q1	q2	OK	29.0823	12.4302	-1.22629	0.569227	0.569202	0.976548
gene1460	gene1460	SACOL1491	gi 57650036 ref NC_002951.2 :1530965-1531307	q1	q2	OK	126.423	46.3816	-1.44663	0.800373	0.423495	0.949436
gene1461	gene1461	nth	gi 57650036 ref NC_002951.2 :1531311-1532647	q1	q2	OK	100.341	55.9923	-0.841607	0.525547	0.599203	0.978191
gene1462	gene1462	SACOL1493	gi 57650036 ref NC_002951.2 :1531311-1532647	q1	q2	OK	71.4469	110.388	0.627641	-0.44096	0.659245	0.978191
gene1463	gene1463	asnC	gi 57650036 ref NC_002951.2 :1532974-1534267	q1	q2	OK	178.17	53.4707	-1.73644	1.60118	0.109337	0.828505
gene1464	gene1464	SACOL1495	gi 57650036 ref NC_002951.2 :1534588-1537282	q1	q2	OK	58.5372	34.7043	-0.754239	0.738673	0.460106	0.956269
gene1465	gene1465	birA	gi 57650036 ref NC_002951.2 :1537305-1539466	q1	q2	OK	69.0702	64.5087	-0.0985707	0.070937	0.943448	0.987716
gene1466	gene1466	papS	gi 57650036 ref NC_002951.2 :1537305-1539466	q1	q2	OK	57.5776	33.0279	-0.801823	0.530347	0.595871	0.978191
gene1467	gene1467	SACOL1498	gi 57650036 ref NC_002951.2 :1539470-1540625	q1	q2	OK	52.7474	49.8689	-0.0809607	0.067258	0.946376	0.987716
gene1468	gene1468	SACOL1499	gi 57650036 ref NC_002951.2 :1540853-1541171	q1	q2	OK	66.66	70.1627	0.0738837	-0.0392	0.96873	0.992211
gene1469	gene1469	SACOL1500	gi 57650036 ref NC_002951.2 :1541507-1542215	q1	q2	OK	2380.77	1733.82	-0.457477	0.337623	0.735647	0.978191
gene147	gene147	SACOL0153	gi 57650036 ref NC_002951.2 :170370-170754	q1	q2	OK	2.62983	14.6895	2.48174	-1.08629	0.277352	0.9146
gene1470	gene1470	SACOL1501	gi 57650036 ref NC_002951.2 :1542259-1543412	q1	q2	OK	41.6173	33.0994	-0.330381	0.1578	0.874614	0.984151

gene1471	gene1471	SACOL1502	gi 57650036 ref NC_002951.2 :1542259-1543412	q1	q2	OK	47.8823	27.6633	-0.791518	0.366175	0.714235	0.978191
gene1472	gene1472	SACOL1503	gi 57650036 ref NC_002951.2 :1543425-1544670	q1	q2	OK	79.0507	31.2249	-1.34008	1.07994	0.280171	0.914891
gene1473	gene1473	aroA	gi 57650036 ref NC_002951.2 :1544676-1545975	q1	q2	OK	78.8552	56.8739	-0.471439	0.447065	0.654828	0.978191
gene1474	gene1474	aroB	gi 57650036 ref NC_002951.2 :1545984-1547049	q1	q2	OK	45.4423	51.9624	0.193432	-0.14984	0.880893	0.984151
gene1475	gene1475	aroC	gi 57650036 ref NC_002951.2 :1547074-1548241	q1	q2	OK	50.2651	45.0754	-0.157219	0.127018	0.898926	0.984151
gene1476	gene1476	SACOL1507	gi 57650036 ref NC_002951.2 :1548626-1548827	q1	q2	OK	0	11.4737	1.79769e+30	1.79769e+30	0.209916	0.842707
gene1477	gene1477	SACOL1508	gi 57650036 ref NC_002951.2 :1548855-1548981	q1	q2	NOTEST	0	0	0	0	1	1
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	q1	q2	OK	477.206	58.8786	-3.0188	2.16082	0.03071	0.604847
gene1479	gene1479	SACOL1510	gi 57650036 ref NC_002951.2 :1549576-1550536	q1	q2	OK	129.079	93.9079	-0.458935	0.445768	0.655765	0.978191
gene148	gene148	aldA1	gi 57650036 ref NC_002951.2 :171180-172668	q1	q2	OK	1290.68	1904.78	0.561489	-0.40568	0.684978	0.978191
gene1480	gene1480	ubiE	gi 57650036 ref NC_002951.2 :1550537-1551263	q1	q2	OK	278.059	134.935	-1.04313	1.00955	0.312713	0.927653
gene1481	gene1481	SACOL1512	gi 57650036 ref NC_002951.2 :1551265-1551838	q1	q2	OK	126.54	74.6967	-0.760478	0.552655	0.5805	0.977168
gene1482	gene1482	hup	gi 57650036 ref NC_002951.2 :1552268-1552541	q1	q2	OK	33574.9	1985.51	-4.0798	3.3189	0.000904	0.281629
gene1483	gene1483	gpsA	gi 57650036 ref NC_002951.2 :1552711-1553710	q1	q2	OK	172.723	72.0808	-1.26078	1.18148	0.237414	0.876849
gene1484	gene1484	engA	gi 57650036 ref NC_002951.2 :1553726-1555037	q1	q2	OK	149.488	85.4803	-0.806363	0.787886	0.430764	0.956269
gene1485	gene1485	rpsA	gi 57650036 ref NC_002951.2 :1555258-1556434	q1	q2	OK	852.712	335.853	-1.34423	1.07009	0.284579	0.921417
gene1486	gene1486	cmk	gi 57650036 ref NC_002951.2 :1557145-1557805	q1	q2	OK	75.8673	46.6971	-0.700145	0.464513	0.64228	0.978191
gene1487	gene1487	ansA	gi 57650036 ref NC_002951.2 :1557881-1558850	q1	q2	OK	31.2354	26.6005	-0.231726	0.1457	0.884158	0.984151
gene1488	gene1488	SACOL1520	gi 57650036 ref NC_002951.2 :1558964-1559951	q1	q2	OK	184.112	74.2069	-1.31096	1.22982	0.218766	0.850833
gene1489	gene1489	SACOL1521	gi 57650036 ref NC_002951.2 :1560111-1560228	q1	q2	OK	0	309.066	1.79769e+30	1.79769e+30	0.206623	0.842707
gene149	gene149	SACOL0155	gi 57650036 ref NC_002951.2 :173313-174273	q1	q2	OK	59.7534	87.2488	0.546113	-0.46788	0.639869	0.978191
gene1490	gene1490	SACOL1522	gi 57650036 ref NC_002951.2 :1560352-1561813	q1	q2	OK	868.642	559.554	-0.634485	0.474035	0.635475	0.978191
gene1491	gene1491	recQ2	gi 57650036 ref NC_002951.2 :1561965-1564288	q1	q2	OK	43.408	79.5837	0.874512	-0.66704	0.504746	0.963286
gene1492	gene1492	SACOL1524	gi 57650036 ref NC_002951.2 :1561965-1564288	q1	q2	OK	59.0745	57.9335	-0.0281371	0.016996	0.98644	0.997969
gene1493	gene1493	fer	gi 57650036 ref NC_002951.2 :1564395-1564644	q1	q2	OK	322.904	130.314	-1.30911	0.739049	0.459877	0.956269
gene1494	gene1494	SACOL1526	gi 57650036 ref NC_002951.2 :1564749-1565295	q1	q2	OK	137.785	84.6087	-0.703545	0.516614	0.605425	0.978191
gene1495	gene1495	SACOL1528	gi 57650036 ref NC_002951.2 :1565891-1566806	q1	q2	OK	4.01627	31.1585	2.9557	-1.57793	0.114582	0.836663
gene1496	gene1496	SACOL1529	gi 57650036 ref NC_002951.2 :1566820-1567898	q1	q2	OK	7.89515	36.2616	2.19941	-0.38288	0.70181	0.978191
gene1497	gene1497	SACOL1530	gi 57650036 ref NC_002951.2 :1566820-1567898	q1	q2	OK	0.651827	29.1283	5.48179	-2.24389	0.02484	0.598406
gene1498	gene1498	SACOL1531	gi 57650036 ref NC_002951.2 :1568015-1568933	q1	q2	OK	2.15326	29.5947	3.78074	-1.94212	0.052122	0.688888
gene1499	gene1499	SACOL1532	gi 57650036 ref NC_002951.2 :1569023-1572048	q1	q2	OK	16.3007	46.2503	1.50453	-1.11084	0.266639	0.902533
gene15	gene15	dnaB	gi 57650036 ref NC_002951.2 :20786-22187	q1	q2	OK	125.18	70.755	-0.823102	0.804928	0.420861	0.949284
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	q1	q2	OK	1789.06	166.587	-3.42485	2.05496	0.039883	0.641477

gene1500	gene1500	SACOL1533	gi 57650036 ref NC_002951.2 :1569023-1572048	q1	q2	OK	13.879	57.3287	2.04636	-0.8663	0.386328	0.940893
gene1501	gene1501	srrB	gi 57650036 ref NC_002951.2 :1572352-1574810	q1	q2	OK	66.3846	37.1584	-0.837159	0.447882	0.654238	0.978191
gene1502	gene1502	srrA	gi 57650036 ref NC_002951.2 :1572352-1574810	q1	q2	OK	506.798	105.187	-2.26846	1.59636	0.110408	0.829058
gene1503	gene1503	rluB	gi 57650036 ref NC_002951.2 :1574942-1576939	q1	q2	OK	89.2783	73.8088	-0.274517	0.178113	0.858634	0.984151
gene1504	gene1504	scpB	gi 57650036 ref NC_002951.2 :1574942-1576939	q1	q2	OK	61.5149	57.1686	-0.105714	0.046521	0.962895	0.989588
gene1505	gene1505	scpA	gi 57650036 ref NC_002951.2 :1574942-1576939	q1	q2	OK	94.5334	48.8459	-0.952588	0.558574	0.576453	0.976548
gene1506	gene1506	SACOL1539	gi 57650036 ref NC_002951.2 :1577030-1577537	q1	q2	OK	19.5864	41.6912	1.08989	-0.58474	0.558724	0.976548
gene1507	gene1507	xerD	gi 57650036 ref NC_002951.2 :1577614-1578502	q1	q2	OK	64.6213	44.1834	-0.548506	0.401146	0.688313	0.978191
gene1508	gene1508	SACOL1541	gi 57650036 ref NC_002951.2 :1578550-1579000	q1	q2	OK	551.563	107.878	-2.35412	1.84862	0.064513	0.724467
gene1509	gene1509	SACOL1542	gi 57650036 ref NC_002951.2 :1579104-1579647	q1	q2	OK	40.1184	46.9076	0.225555	-0.13125	0.895578	0.984151
gene151	gene151	SACOL0157	gi 57650036 ref NC_002951.2 :174716-175229	q1	q2	OK	506.843	73.2335	-2.79096	2.11692	0.034267	0.621406
gene1510	gene1510	SACOL1543	gi 57650036 ref NC_002951.2 :1579728-1580637	q1	q2	OK	206.623	83.4848	-1.30742	1.22983	0.21876	0.850833
gene1511	gene1511	SACOL1544	gi 57650036 ref NC_002951.2 :1580852-1581101	q1	q2	OK	16.3496	58.9518	1.85028	-0.84037	0.4007	0.940909
gene1512	gene1512	SACOL1545	gi 57650036 ref NC_002951.2 :1581116-1581872	q1	q2	OK	17.6532	48.4595	1.45685	-0.86556	0.386733	0.940893
gene1513	gene1513	proC	gi 57650036 ref NC_002951.2 :1582013-1582829	q1	q2	OK	126.201	51.0411	-1.30599	1.04123	0.297767	0.924214
gene1514	gene1514	SACOL1548	gi 57650036 ref NC_002951.2 :1582933-1583854	q1	q2	OK	44.7178	37.2008	-0.265515	0.179209	0.857774	0.984151
gene1515	gene1515	zwf	gi 57650036 ref NC_002951.2 :1584166-1585651	q1	q2	OK	291.771	175.537	-0.733065	0.640271	0.521996	0.963286
gene1516	gene1516	SACOL1550	gi 57650036 ref NC_002951.2 :1585853-1586747	q1	q2	OK	84.7533	78.1167	-0.117639	0.103664	0.917436	0.984151
gene1517	gene1517	malA	gi 57650036 ref NC_002951.2 :1586829-1588479	q1	q2	OK	33.8437	60.1161	0.828866	-0.7416	0.458328	0.956269
gene1518	gene1518	malR	gi 57650036 ref NC_002951.2 :1588494-1589514	q1	q2	OK	5.36424	30.1531	2.49086	-1.37893	0.167915	0.842707
gene1519	gene1519	SACOL1553	gi 57650036 ref NC_002951.2 :1589707-1590079	q1	q2	OK	2065.1	320.197	-2.68918	2.37686	0.017461	0.500083
gene152	gene152	SACOL0158	gi 57650036 ref NC_002951.2 :175570-178057	q1	q2	OK	84.1421	52.6043	-0.677648	0.560376	0.575223	0.976548
gene1520	gene1520	gnd	gi 57650036 ref NC_002951.2 :1590297-1591704	q1	q2	OK	632.474	245.048	-1.36794	1.10381	0.269675	0.905515
gene1521	gene1521	SACOL1555	gi 57650036 ref NC_002951.2 :1591771-1592905	q1	q2	OK	101.359	138.473	0.450137	-0.44361	0.657328	0.978191
gene1522	gene1522	SACOL1556	gi 57650036 ref NC_002951.2 :1593167-1593347	q1	q2	OK	15.3063	27.03	0.820438	-0.33201	0.73988	0.978191
gene1523	gene1523	SACOL1557	gi 57650036 ref NC_002951.2 :1593473-1594454	q1	q2	OK	142.421	66.428	-1.1003	1.01163	0.311717	0.927653
gene1524	gene1524	SACOL1558	gi 57650036 ref NC_002951.2 :1594467-1594905	q1	q2	OK	130.089	93.5027	-0.476418	0.310911	0.755868	0.978191
gene1525	gene1525	SACOL1559	gi 57650036 ref NC_002951.2 :1594977-1595076	q1	q2	NOTEST 0		0	0	0	1	1
gene1526	gene1526	SACOL1560	gi 57650036 ref NC_002951.2 :1595255-1596530	q1	q2	OK	158.263	81.0441	-0.965545	0.939342	0.347555	0.93284
gene1527	gene1527	SACOL1561	gi 57650036 ref NC_002951.2 :1596542-1598518	q1	q2	OK	121.072	55.6328	-1.12186	0.745141	0.456186	0.956269
gene1528	gene1528	SACOL1562	gi 57650036 ref NC_002951.2 :1596542-1598518	q1	q2	OK	121.044	69.4857	-0.800746	0.564247	0.572586	0.976548
gene1529	gene1529	lpdA	gi 57650036 ref NC_002951.2 :1598533-1599955	q1	q2	OK	105.875	83.7912	-0.337496	0.333839	0.738501	0.978191
gene153	gene153	SACOL0159	gi 57650036 ref NC_002951.2 :175570-178057	q1	q2	OK	85.6953	58.1691	-0.558963	0.287655	0.773611	0.980484

gene1530	gene1530	recN	gi 57650036 ref NC_002951.2 :1600105-1601785	q1	q2	OK	155.613	96.4458	-0.69017	0.653519	0.513422	0.963286
gene1531	gene1531	argR	gi 57650036 ref NC_002951.2 :1601800-1602253	q1	q2	OK	259.217	71.1207	-1.86582	1.33413	0.18216	0.842707
gene1532	gene1532	ispA	gi 57650036 ref NC_002951.2 :1602684-1605104	q1	q2	OK	167.73	110.424	-0.603081	0.368922	0.712186	0.978191
gene1533	gene1533	xseB	gi 57650036 ref NC_002951.2 :1602684-1605104	q1	q2	OK	177.416	65.3284	-1.44135	0.202333	0.839656	0.984151
gene1534	gene1534	xseA	gi 57650036 ref NC_002951.2 :1602684-1605104	q1	q2	OK	113.856	90.0662	-0.338152	0.230288	0.817868	0.984151
gene1535	gene1535	nusB	gi 57650036 ref NC_002951.2 :1605120-1605510	q1	q2	OK	159.997	218.047	0.4466	-0.32178	0.747621	0.978191
gene1536	gene1536	SACOL1570	gi 57650036 ref NC_002951.2 :1605569-1605932	q1	q2	OK	128.865	216.098	0.745828	-0.49727	0.619002	0.978191
gene1537	gene1537	accC	gi 57650036 ref NC_002951.2 :1605946-1607766	q1	q2	OK	118.648	75.0892	-0.660012	0.563207	0.573294	0.976548
gene1538	gene1538	accB	gi 57650036 ref NC_002951.2 :1605946-1607766	q1	q2	OK	99.828	48.2673	-1.0484	0.387952	0.698052	0.978191
gene1539	gene1539	SACOL1573	gi 57650036 ref NC_002951.2 :1608120-1609141	q1	q2	OK	80.6306	46.3727	-0.79805	0.657544	0.510831	0.963286
gene154	gene154	SACOL0160	gi 57650036 ref NC_002951.2 :178069-179101	q1	q2	OK	95.6515	34.4535	-1.47314	1.15173	0.249432	0.889805
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	q1	q2	OK	5.19546	0	-1.79769e+30	-1.79769e+30	0.197167	0.842707
gene1541	gene1541	SACOL1575	gi 57650036 ref NC_002951.2 :1609646-1610237	q1	q2	OK	6.39513	25.871	2.01629	-1.01134	0.311855	0.927653
gene1542	gene1542	SACOL1576	gi 57650036 ref NC_002951.2 :1610243-1613127	q1	q2	OK	9.59843	63.189	2.7188	-1.23833	0.215595	0.850298
gene1543	gene1543	SACOL1577	gi 57650036 ref NC_002951.2 :1610243-1613127	q1	q2	OK	8.67884	49.0356	2.49826	-1.3651	0.17222	0.842707
gene1544	gene1544	SACOL1578	gi 57650036 ref NC_002951.2 :1613131-1614490	q1	q2	OK	2.06944	23.7984	3.52355	-1.89458	0.058148	0.702279
gene1545	gene1545	SACOL1579	gi 57650036 ref NC_002951.2 :1614543-1617039	q1	q2	OK	2.81999	32.1947	3.51306	-2.25315	0.02425	0.592692
gene1546	gene1546	SACOL1580	gi 57650036 ref NC_002951.2 :1617073-1617457	q1	q2	OK	7.88948	56.6593	2.84431	-1.39059	0.164349	0.842707
gene1547	gene1547	SACOL1581	gi 57650036 ref NC_002951.2 :1617468-1617729	q1	q2	OK	56.7816	159.562	1.49063	-0.77235	0.439908	0.956269
gene1548	gene1548	SACOL1582	gi 57650036 ref NC_002951.2 :1617733-1618789	q1	q2	OK	6.41531	27.7005	2.11032	-1.1823	0.237087	0.876849
gene1549	gene1549	SACOL1583	gi 57650036 ref NC_002951.2 :1618849-1619941	q1	q2	OK	11.3148	43.7976	1.95264	-1.22321	0.221249	0.852509
gene155	gene155	SACOL0161	gi 57650036 ref NC_002951.2 :179317-179677	q1	q2	OK	865.072	429.963	-1.00861	0.98445	0.324894	0.927653
gene1550	gene1550	SACOL1584	gi 57650036 ref NC_002951.2 :1620115-1620418	q1	q2	OK	21.2706	27.1578	0.352506	-0.16425	0.869531	0.984151
gene1551	gene1551	SACOL1585	gi 57650036 ref NC_002951.2 :1620431-1620752	q1	q2	OK	22.3653	32.7987	0.552376	-0.26397	0.791805	0.982631
gene1552	gene1552	SACOL1586	gi 57650036 ref NC_002951.2 :1620902-1621187	q1	q2	OK	2.77767	20.555	2.88754	-1.23201	0.217946	0.850298
gene1553	gene1553	efp	gi 57650036 ref NC_002951.2 :1621581-1622139	q1	q2	OK	509.039	150.016	-1.76266	1.61929	0.105384	0.816834
gene1554	gene1554	SACOL1588	gi 57650036 ref NC_002951.2 :1622164-1623226	q1	q2	OK	122.547	112.689	-0.120992	0.119878	0.90458	0.984151
gene1555	gene1555	SACOL1589	gi 57650036 ref NC_002951.2 :1623330-1623912	q1	q2	OK	50.6571	44.7074	-0.180252	0.108716	0.913428	0.984151
gene1556	gene1556	SACOL1590	gi 57650036 ref NC_002951.2 :1623925-1624144	q1	q2	OK	202.144	30.5185	-2.72763	1.29453	0.195482	0.842707
gene1557	gene1557	SACOL1591	gi 57650036 ref NC_002951.2 :1624207-1625038	q1	q2	OK	94.2473	91.5733	-0.0415242	0.037107	0.9704	0.993106
gene1558	gene1558	SACOL1592	gi 57650036 ref NC_002951.2 :1625195-1625582	q1	q2	OK	220.932	94.598	-1.22372	0.811614	0.417013	0.948553
gene1559	gene1559	SACOL1593	gi 57650036 ref NC_002951.2 :1625946-1628758	q1	q2	OK	326.886	46.7484	-2.8058	1.72097	0.085256	0.767592
gene156	gene156	SACOL0162	gi 57650036 ref NC_002951.2 :179849-180875	q1	q2	OK	10.3821	30.6901	1.56368	-0.91281	0.361344	0.93284

gene1560	gene1560	SACOL1594	gi 57650036 ref NC_002951.2 :1625946-1628758	q1	q2	OK	331.035	47.2708	-2.80796	1.6441	0.100156	0.815096
gene1561	gene1561	gcvT	gi 57650036 ref NC_002951.2 :1628777-1629869	q1	q2	OK	200.715	39.8477	-2.33258	1.91231	0.055836	0.696046
gene1562	gene1562	aroK	gi 57650036 ref NC_002951.2 :1630027-1630552	q1	q2	OK	66.5969	71.9008	0.110552	-0.06964	0.944478	0.987716
gene1563	gene1563	SACOL1597	gi 57650036 ref NC_002951.2 :1630784-1631282	q1	q2	OK	3.1117	15.7454	2.33916	-1.07309	0.283231	0.919393
gene1564	gene1564	SACOL1598	gi 57650036 ref NC_002951.2 :1631485-1632221	q1	q2	OK	0	14.7868	1.79769e+30	1.79769e+	0.220765	0.852509
gene1565	gene1565	comGC	gi 57650036 ref NC_002951.2 :1631485-1632221	q1	q2	OK	4.37768	28.5442	2.70496	-1.0314	0.302354	0.927424
gene1566	gene1566	SACOL1600	gi 57650036 ref NC_002951.2 :1632234-1634251	q1	q2	OK	4.53726	24.9733	2.46049	-1.08235	0.279095	0.914891
gene1567	gene1567	SACOL1601	gi 57650036 ref NC_002951.2 :1632234-1634251	q1	q2	OK	5.11694	24.6658	2.26916	-0.97833	0.32791	0.927653
gene1568	gene1568	SACOL1602	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	202.719	53.3786	-1.92515	0.637705	0.523666	0.963286
gene1569	gene1569	SACOL1603	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	147.752	118.916	-0.313237	0.068781	0.945164	0.987716
gene157	gene157	SACOL0163	gi 57650036 ref NC_002951.2 :181260-182511	q1	q2	OK	53.8481	37.9714	-0.50398	0.410572	0.681386	0.978191
gene1570	gene1570	glk	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	135.706	124.379	-0.125746	0.067546	0.946147	0.987716
gene1571	gene1571	SACOL1605	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	33.5974	60.2549	0.84273	-0.04735	0.962234	0.989588
gene1572	gene1572	SACOL1606	gi 57650036 ref NC_002951.2 :1634302-1637882	q1	q2	OK	76.2873	87.5579	0.198795	-0.10666	0.915057	0.984151
gene1573	gene1573	SACOL1607	gi 57650036 ref NC_002951.2 :1637893-1638433	q1	q2	OK	68.8467	53.5097	-0.363588	0.224842	0.822102	0.984151
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	q1	q2	OK	5893.29	331.367	-4.15257	2.17971	0.029279	0.604847
gene1575	gene1575	pbp3	gi 57650036 ref NC_002951.2 :1638903-1640979	q1	q2	OK	232.931	132.851	-0.81009	0.69094	0.489603	0.963286
gene1576	gene1576	sodA2	gi 57650036 ref NC_002951.2 :1641099-1641699	q1	q2	OK	424.475	173.901	-1.28741	1.23663	0.216225	0.850298
gene1577	gene1577	SACOL1611	gi 57650036 ref NC_002951.2 :1641974-1643235	q1	q2	OK	93.9973	20.8186	-2.17475	0.722962	0.469703	0.956269
gene1578	gene1578	SACOL1612	gi 57650036 ref NC_002951.2 :1641974-1643235	q1	q2	OK	35.356	42.7938	0.275444	-0.16803	0.866562	0.984151
gene1579	gene1579	SACOL1613	gi 57650036 ref NC_002951.2 :1643276-1644062	q1	q2	OK	59.2499	43.7737	-0.436749	0.29652	0.766833	0.978191
gene158	gene158	SACOL0164	gi 57650036 ref NC_002951.2 :182957-190133	q1	q2	OK	48.2366	43.0975	-0.162522	0.13967	0.888921	0.984151
gene1580	gene1580	nfo	gi 57650036 ref NC_002951.2 :1644187-1645078	q1	q2	OK	148.505	65.6215	-1.17827	1.04702	0.29509	0.924214
gene1581	gene1581	SACOL1615	gi 57650036 ref NC_002951.2 :1645087-1646434	q1	q2	OK	108.57	49.2669	-1.13994	1.06534	0.28672	0.921417
gene1582	gene1582	SACOL1616	gi 57650036 ref NC_002951.2 :1646547-1647648	q1	q2	OK	99.815	77.0738	-0.373017	0.359933	0.718897	0.978191
gene1583	gene1583	SACOL1617	gi 57650036 ref NC_002951.2 :1647650-1648328	q1	q2	OK	59.2298	84.8819	0.519134	-0.36905	0.712092	0.978191
gene1584	gene1584	rpoD	gi 57650036 ref NC_002951.2 :1648458-1649565	q1	q2	OK	267.67	155.661	-0.782046	0.737515	0.460809	0.956269
gene1585	gene1585	dnaG	gi 57650036 ref NC_002951.2 :1649788-1651588	q1	q2	OK	126.965	92.4252	-0.458072	0.437959	0.661416	0.978191
gene1586	gene1586	SACOL1620	gi 57650036 ref NC_002951.2 :1651648-1652467	q1	q2	OK	87.8954	88.4857	0.00965772	-0.00839	0.993306	0.998638
gene1587	gene1587	SACOL1621	gi 57650036 ref NC_002951.2 :1652477-1653017	q1	q2	OK	18.2241	32.8153	0.848519	-0.45173	0.651462	0.978191
gene1588	gene1588	glyS	gi 57650036 ref NC_002951.2 :1653435-1654827	q1	q2	OK	439.677	300.238	-0.550335	0.447287	0.654668	0.978191
gene1589	gene1589	SACOL1623	gi 57650036 ref NC_002951.2 :1654976-1655729	q1	q2	OK	133.553	79.2766	-0.752441	0.652084	0.514347	0.963286
gene159	gene159	SACOL0165	gi 57650036 ref NC_002951.2 :190145-190790	q1	q2	OK	105.433	31.3036	-1.75192	1.16189	0.245279	0.885853

gene1590	gene1590	era	gi 57650036 ref NC_002951.2 :1655750-1656650	q1	q2	OK	102.002	82.0286	-0.314396	0.288912	0.772649	0.980274
gene1591	gene1591	cdd	gi 57650036 ref NC_002951.2 :1656650-1657055	q1	q2	OK	61.9441	70.3165	0.182897	-0.10464	0.916663	0.984151
gene1592	gene1592	dgkA	gi 57650036 ref NC_002951.2 :1657065-1657410	q1	q2	OK	132.198	59.1852	-1.15939	0.658001	0.510538	0.963286
gene1593	gene1593	SACOL1627	gi 57650036 ref NC_002951.2 :1657412-1657880	q1	q2	OK	161.449	164.383	0.0259786	-0.02038	0.983743	0.997969
gene1594	gene1594	SACOL1628	gi 57650036 ref NC_002951.2 :1657880-1658801	q1	q2	OK	114.857	151.379	0.398319	-0.39084	0.695919	0.978191
gene1595	gene1595	SACOL1629	gi 57650036 ref NC_002951.2 :1659131-1659830	q1	q2	OK	588.6	535.431	-0.136587	0.120631	0.903984	0.984151
gene1596	gene1596	SACOL1630	gi 57650036 ref NC_002951.2 :1659846-1660836	q1	q2	OK	510.598	430.109	-0.247487	0.206598	0.836324	0.984151
gene1597	gene1597	SACOL1631	gi 57650036 ref NC_002951.2 :1660853-1661561	q1	q2	OK	500.936	389.113	-0.364437	0.335774	0.737041	0.978191
gene1598	gene1598	rpsU	gi 57650036 ref NC_002951.2 :1661780-1661957	q1	q2	OK	39632.5	649.809	-5.93052	3.74825	0.000178	0.14798
gene1599	gene1599	SACOL1633	gi 57650036 ref NC_002951.2 :1662249-1663596	q1	q2	OK	93.5493	51.0815	-0.872926	0.822897	0.410567	0.940909
gene16	gene16	SACOL0017	gi 57650036 ref NC_002951.2 :22262-22355	q1	q2	NOTEST 0		0	0	0	1	1
gene160	gene160	SACOL0166	gi 57650036 ref NC_002951.2 :191117-191612	q1	q2	OK	489.979	67.9835	-2.84946	2.12215	0.033825	0.620038
gene1600	gene1600	SACOL1634	gi 57650036 ref NC_002951.2 :1663602-1664355	q1	q2	OK	66.5746	46.8621	-0.506549	0.347971	0.727862	0.978191
gene1601	gene1601	prmA	gi 57650036 ref NC_002951.2 :1664356-1665295	q1	q2	OK	135.555	63.552	-1.09287	0.979416	0.327374	0.927653
gene1602	gene1602	dnaJ	gi 57650036 ref NC_002951.2 :1665298-1666438	q1	q2	OK	77.153	91.1484	0.240496	-0.23199	0.816547	0.984151
gene1603	gene1603	dnaK	gi 57650036 ref NC_002951.2 :1666573-1668406	q1	q2	OK	252.439	214.76	-0.233208	0.193634	0.846463	0.984151
gene1604	gene1604	grpE	gi 57650036 ref NC_002951.2 :1668474-1669101	q1	q2	OK	110.137	213.737	0.956536	-0.839	0.401468	0.940909
gene1605	gene1605	hrcA	gi 57650036 ref NC_002951.2 :1669132-1670110	q1	q2	OK	52.3817	72.1244	0.461425	-0.37567	0.707165	0.978191
gene1606	gene1606	SACOL1640	gi 57650036 ref NC_002951.2 :1670209-1671367	q1	q2	OK	12.8016	30.2192	1.23914	-0.75751	0.448743	0.956269
gene1607	gene1607	lepA	gi 57650036 ref NC_002951.2 :1671896-1673720	q1	q2	OK	60.0613	40.6131	-0.56449	0.54213	0.587729	0.978191
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	q1	q2	OK	2214.32	119.189	-4.21554	2.8015	0.005087	0.446636
gene1609	gene1609	holA	gi 57650036 ref NC_002951.2 :1674361-1675336	q1	q2	OK	25.0162	29.3323	0.22963	-0.14275	0.886492	0.984151
gene161	gene161	argB	gi 57650036 ref NC_002951.2 :191866-192631	q1	q2	OK	3.15631	15.2383	2.27139	-1.10956	0.26719	0.902533
gene1610	gene1610	SACOL1644	gi 57650036 ref NC_002951.2 :1675392-1677540	q1	q2	OK	6.32689	44.1844	2.80397	-1.93899	0.052503	0.688888
gene1611	gene1611	SACOL1645	gi 57650036 ref NC_002951.2 :1677598-1678030	q1	q2	OK	109.255	67.3656	-0.69762	0.428078	0.668594	0.978191
gene1612	gene1612	comEA	gi 57650036 ref NC_002951.2 :1678151-1678838	q1	q2	OK	10.1409	30.7914	1.60235	-0.85872	0.390497	0.940909
gene1613	gene1613	SACOL1647	gi 57650036 ref NC_002951.2 :1678877-1679594	q1	q2	OK	228.15	51.2056	-2.15561	1.67834	0.093281	0.79098
gene1614	gene1614	SACOL1648	gi 57650036 ref NC_002951.2 :1679596-1679950	q1	q2	OK	205.306	187.36	-0.131961	0.089542	0.928651	0.987716
gene1615	gene1615	SACOL1649	gi 57650036 ref NC_002951.2 :1679950-1681094	q1	q2	OK	124.115	78.2453	-0.665598	0.461621	0.644353	0.978191
gene1616	gene1616	nadD	gi 57650036 ref NC_002951.2 :1679950-1681094	q1	q2	OK	95.572	64.093	-0.576421	0.349697	0.726566	0.978191
gene1617	gene1617	SACOL1651	gi 57650036 ref NC_002951.2 :1681096-1681387	q1	q2	OK	23.6572	24.2955	0.0384053	-0.01772	0.985863	0.997969
gene1618	gene1618	aroE	gi 57650036 ref NC_002951.2 :1681390-1682197	q1	q2	OK	55.6526	35.1947	-0.661092	0.436432	0.662523	0.978191
gene1619	gene1619	SACOL1653	gi 57650036 ref NC_002951.2 :1682210-1683311	q1	q2	OK	55.9938	49.8104	-0.168821	0.138404	0.889921	0.984151

gene162	gene162	argJ	gi 57650036 ref NC_002951.2 :192646-193888	q1	q2	OK	3.35592	20.3437	2.5998	-1.3994	0.161692	0.842707
gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	q1	q2	OK	89.7938	30.8965	-1.53917	0.923237	0.355884	0.93284
gene1621	gene1621	mtn	gi 57650036 ref NC_002951.2 :1683858-1684545	q1	q2	OK	42.8682	28.6967	-0.57902	0.345532	0.729694	0.978191
gene1622	gene1622	SACOL1656	gi 57650036 ref NC_002951.2 :1684858-1685128	q1	q2	OK	16.1017	20.3803	0.339961	-0.15051	0.880363	0.984151
gene1623	gene1623	SACOL1657	gi 57650036 ref NC_002951.2 :1685329-1686034	q1	q2	OK	0.887426	31.955	5.17027	-2.46539	0.013686	0.500083
gene1624	gene1624	SACOL1658	gi 57650036 ref NC_002951.2 :1686495-1687716	q1	q2	OK	38.3348	28.8944	-0.407865	0.289563	0.772151	0.980274
gene1625	gene1625	SACOL1659	gi 57650036 ref NC_002951.2 :1688004-1689234	q1	q2	OK	166.613	45.0874	-1.88571	1.66272	0.096368	0.803494
gene1626	gene1626	SACOL1660	gi 57650036 ref NC_002951.2 :1689246-1691360	q1	q2	OK	134.763	49.6405	-1.44084	0.713385	0.475608	0.956269
gene1627	gene1627	SACOL1661	gi 57650036 ref NC_002951.2 :1689246-1691360	q1	q2	OK	157.051	66.914	-1.23085	0.984025	0.325103	0.927653
gene1628	gene1628	SACOL1662	gi 57650036 ref NC_002951.2 :1691373-1691823	q1	q2	OK	91.2997	27.6611	-1.72275	0.975568	0.329279	0.927653
gene1629	gene1629	SACOL1663	gi 57650036 ref NC_002951.2 :1691824-1693559	q1	q2	OK	106.07	46.55	-1.18816	0.925136	0.354895	0.93284
gene163	gene163	argC	gi 57650036 ref NC_002951.2 :193899-194931	q1	q2	OK	2.90654	27.6126	3.24795	-1.7208	0.085288	0.767592
gene1630	gene1630	SACOL1664	gi 57650036 ref NC_002951.2 :1691824-1693559	q1	q2	OK	62.6526	35.001	-0.839979	0.435435	0.663246	0.978191
gene1631	gene1631	greA	gi 57650036 ref NC_002951.2 :1693884-1694361	q1	q2	OK	538.02	111.262	-2.2737	1.83265	0.066855	0.73141
gene1632	gene1632	udk	gi 57650036 ref NC_002951.2 :1694388-1696280	q1	q2	OK	113.096	75.4002	-0.584908	0.334354	0.738112	0.978191
gene1633	gene1633	SACOL1667	gi 57650036 ref NC_002951.2 :1694388-1696280	q1	q2	OK	94.6038	52.1236	-0.859962	0.683681	0.494176	0.963286
gene1634	gene1634	SACOL1668	gi 57650036 ref NC_002951.2 :1696291-1697215	q1	q2	OK	65.2645	64.9804	-0.00629219	0.005136	0.995902	0.998672
gene1635	gene1635	SACOL1669	gi 57650036 ref NC_002951.2 :1697217-1697856	q1	q2	OK	26.2247	31.9467	0.284739	-0.16147	0.871723	0.984151
gene1636	gene1636	SACOL1670	gi 57650036 ref NC_002951.2 :1698140-1698449	q1	q2	OK	1957.48	342.262	-2.51582	2.1565	0.031045	0.604847
gene1637	gene1637	SACOL1671	gi 57650036 ref NC_002951.2 :1698463-1698892	q1	q2	OK	371.809	597.377	0.684081	-0.66346	0.507038	0.963286
gene1638	gene1638	SACOL1672	gi 57650036 ref NC_002951.2 :1698895-1699156	q1	q2	OK	511.034	941.418	0.881416	-0.69486	0.487143	0.963286
gene1639	gene1639	alaS	gi 57650036 ref NC_002951.2 :1699218-1701849	q1	q2	OK	54.6567	54.7983	0.00373332	-0.00367	0.997069	0.998672
gene164	gene164	rocD1	gi 57650036 ref NC_002951.2 :194969-196154	q1	q2	OK	1.77744	45.1091	4.66554	-2.59332	0.009505	0.499638
gene1640	gene1640	SACOL1674	gi 57650036 ref NC_002951.2 :1702191-1704669	q1	q2	OK	59.2188	44.1834	-0.422551	0.41717	0.676554	0.978191
gene1641	gene1641	SACOL1675	gi 57650036 ref NC_002951.2 :1704670-1705339	q1	q2	OK	50.8351	33.6687	-0.594414	0.363499	0.716232	0.978191
gene1642	gene1642	mnmA	gi 57650036 ref NC_002951.2 :1705800-1706919	q1	q2	OK	143.134	96.9158	-0.562565	0.554543	0.579207	0.976548
gene1643	gene1643	SACOL1677	gi 57650036 ref NC_002951.2 :1706919-1708062	q1	q2	OK	79.2245	72.8229	-0.121554	0.115509	0.908042	0.984151
gene1644	gene1644	SACOL1678	gi 57650036 ref NC_002951.2 :1708373-1709387	q1	q2	OK	228.9	165.069	-0.471648	0.456087	0.648327	0.978191
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	q1	q2	OK	1766.99	2196.91	0.314184	-0.16709	0.867296	0.984151
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	q1	q2	OK	295.006	223.424	-0.400956	0.196138	0.844502	0.984151
gene1647	gene1647	SACOL1681	gi 57650036 ref NC_002951.2 :1710091-1710514	q1	q2	OK	236.68	298.011	0.332432	-0.29203	0.770264	0.980274
gene1648	gene1648	SACOL1682	gi 57650036 ref NC_002951.2 :1710598-1711873	q1	q2	OK	145.667	78.2395	-0.896705	0.874818	0.381673	0.940893
gene1649	gene1649	SACOL1683	gi 57650036 ref NC_002951.2 :1712033-1712807	q1	q2	OK	46.9586	41.2677	-0.186378	0.120742	0.903896	0.984151

gene165	gene165	brnQ1	gi 57650036 ref NC_002951.2 :196406-197762	q1	q2	OK	46.0257	26.6504	-0.788284	0.597737	0.550015	0.974547
gene1650	gene1650	aspS	gi 57650036 ref NC_002951.2 :1713267-1715034	q1	q2	OK	67.5386	38.6069	-0.806851	0.764688	0.444458	0.956269
gene1651	gene1651	hisS	gi 57650036 ref NC_002951.2 :1715049-1716312	q1	q2	OK	28.771	36.3762	0.33838	-0.2414	0.809248	0.984151
gene1652	gene1652	SACOL1687	gi 57650036 ref NC_002951.2 :1716772-1718097	q1	q2	OK	142.424	98.4286	-0.533046	0.431468	0.666128	0.978191
gene1653	gene1653	SACOL1688	gi 57650036 ref NC_002951.2 :1716772-1718097	q1	q2	OK	208.117	112.152	-0.891939	0.499267	0.617591	0.978191
gene1654	gene1654	relA2	gi 57650036 ref NC_002951.2 :1718108-1720298	q1	q2	OK	133.068	106.413	-0.322491	0.293803	0.768908	0.980004
gene1655	gene1655	apt	gi 57650036 ref NC_002951.2 :1720725-1721244	q1	q2	OK	132.277	47.1138	-1.48934	0.977063	0.328538	0.927653
gene1656	gene1656	recJ	gi 57650036 ref NC_002951.2 :1721265-1723539	q1	q2	OK	34.691	27.3785	-0.341516	0.313213	0.754119	0.978191
gene1657	gene1657	SACOL1692	gi 57650036 ref NC_002951.2 :1723741-1726021	q1	q2	OK	208.473	71.5748	-1.54234	1.36069	0.173611	0.842707
gene1658	gene1658	yajC	gi 57650036 ref NC_002951.2 :1726295-1726556	q1	q2	OK	943.994	89.089	-3.40546	2.16331	0.030518	0.604847
gene1659	gene1659	tgt	gi 57650036 ref NC_002951.2 :1726574-1727714	q1	q2	OK	94.4017	67.2026	-0.490295	0.466458	0.640888	0.978191
gene166	gene166	entB	gi 57650036 ref NC_002951.2 :198037-198535	q1	q2	OK	132.247	25.1257	-2.39601	1.45115	0.146738	0.842707
gene1660	gene1660	queA	gi 57650036 ref NC_002951.2 :1727736-1728762	q1	q2	OK	63.0909	44.7199	-0.496516	0.390936	0.695844	0.978191
gene1661	gene1661	ruvB	gi 57650036 ref NC_002951.2 :1728763-1729768	q1	q2	OK	121.099	67.3155	-0.847173	0.785366	0.432239	0.956269
gene1662	gene1662	ruvA	gi 57650036 ref NC_002951.2 :1729799-1730402	q1	q2	OK	98.524	40.9659	-1.26605	0.831948	0.405438	0.940909
gene1663	gene1663	SACOL1698	gi 57650036 ref NC_002951.2 :1730415-1730874	q1	q2	OK	59.7763	28.6717	-1.05995	0.584906	0.558611	0.976548
gene1664	gene1664	obgE	gi 57650036 ref NC_002951.2 :1730883-1732176	q1	q2	OK	137.023	77.542	-0.82137	0.803408	0.421739	0.949284
gene1665	gene1665	rpmA	gi 57650036 ref NC_002951.2 :1732530-1732815	q1	q2	OK	3177.65	405.961	-2.96855	2.47165	0.013449	0.500083
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	q1	q2	OK	264.317	131.195	-1.01056	0.638913	0.522879	0.963286
gene1667	gene1667	rplU	gi 57650036 ref NC_002951.2 :1733152-1733461	q1	q2	OK	749.77	538.437	-0.47767	0.451401	0.6517	0.978191
gene1668	gene1668	SACOL1703	gi 57650036 ref NC_002951.2 :1733627-1735000	q1	q2	OK	59.0482	33.3599	-0.823779	0.367836	0.712995	0.978191
gene1669	gene1669	mreC	gi 57650036 ref NC_002951.2 :1733627-1735000	q1	q2	OK	73.1094	38.8753	-0.911203	0.612234	0.540383	0.965716
gene167	gene167	ipdC	gi 57650036 ref NC_002951.2 :198661-200302	q1	q2	OK	102.628	34.6986	-1.56447	1.41277	0.157723	0.842707
gene1670	gene1670	SACOL1705	gi 57650036 ref NC_002951.2 :1735392-1735866	q1	q2	OK	14.4836	36.2606	1.32399	-0.68011	0.496435	0.963286
gene1671	gene1671	SACOL1706	gi 57650036 ref NC_002951.2 :1736339-1736624	q1	q2	OK	797.191	75.0256	-3.40947	2.19981	0.02782	0.604847
gene1672	gene1672	radC	gi 57650036 ref NC_002951.2 :1736691-1738082	q1	q2	OK	7.37517	54.6704	2.89001	-1.28356	0.199297	0.842707
gene1673	gene1673	SACOL1708	gi 57650036 ref NC_002951.2 :1736691-1738082	q1	q2	OK	7.4964	31.1693	2.05585	-0.86025	0.389649	0.940909
gene1674	gene1674	folC	gi 57650036 ref NC_002951.2 :1738351-1739623	q1	q2	OK	116.541	68.9511	-0.757192	0.737801	0.460635	0.956269
gene1675	gene1675	valS	gi 57650036 ref NC_002951.2 :1739635-1742266	q1	q2	OK	123.155	83.4056	-0.562259	0.507263	0.61197	0.978191
gene1676	gene1676	SACOL1711	gi 57650036 ref NC_002951.2 :1742668-1743229	q1	q2	OK	210.796	73.436	-1.52129	1.17159	0.241361	0.880985
gene1677	gene1677	SACOL1712	gi 57650036 ref NC_002951.2 :1743451-1744525	q1	q2	OK	84.1455	71.5861	-0.233207	0.218323	0.827178	0.984151
gene1678	gene1678	hemL1	gi 57650036 ref NC_002951.2 :1744720-1746007	q1	q2	OK	76.732	52.7089	-0.541782	0.504361	0.614007	0.978191
gene1679	gene1679	hemB	gi 57650036 ref NC_002951.2 :1746054-1747029	q1	q2	OK	38.9456	51.5982	0.40586	-0.29072	0.771262	0.980274

gene168	gene168	SACOL0174	gi 57650036 ref NC_002951.2 :200495-202621	q1	q2	NOTEST	0	0	0	1	1	
gene1680	gene1680	hemD	gi 57650036 ref NC_002951.2 :1747031-1747700	q1	q2	OK	9.11195	32.5827	1.83827	-0.97737	0.328387	0.927653
gene1681	gene1681	hemC	gi 57650036 ref NC_002951.2 :1747721-1748648	q1	q2	OK	37.3518	44.7069	0.259318	-0.17589	0.860379	0.984151
gene1682	gene1682	SACOL1718	gi 57650036 ref NC_002951.2 :1748689-1749505	q1	q2	OK	44.7111	27.6889	-0.691323	0.433058	0.664972	0.978191
gene1683	gene1683	hemA	gi 57650036 ref NC_002951.2 :1749526-1750873	q1	q2	OK	381.613	298.777	-0.353041	0.292267	0.770082	0.980274
gene1684	gene1684	engB	gi 57650036 ref NC_002951.2 :1751089-1751680	q1	q2	OK	33.7198	48.8962	0.536127	-0.31576	0.752184	0.978191
gene1685	gene1685	clpX	gi 57650036 ref NC_002951.2 :1751833-1753096	q1	q2	OK	750.513	236.641	-1.66518	1.3591	0.174115	0.842707
gene1686	gene1686	tig	gi 57650036 ref NC_002951.2 :1753246-1754548	q1	q2	OK	764.174	193.004	-1.98527	1.63649	0.101736	0.815096
gene1687	gene1687	SACOL1723	gi 57650036 ref NC_002951.2 :1754710-1755640	q1	q2	OK	63.5006	47.7786	-0.410404	0.311552	0.755381	0.978191
gene1688	gene1688	SACOL1724	gi 57650036 ref NC_002951.2 :1755658-1756267	q1	q2	OK	55.9774	94.407	0.75405	-0.51564	0.606108	0.978191
gene1689	gene1689	rplT	gi 57650036 ref NC_002951.2 :1756408-1756765	q1	q2	OK	464.704	56.3337	-3.04424	2.0213	0.043248	0.650674
gene169	gene169	SACOL0175	gi 57650036 ref NC_002951.2 :200495-202621	q1	q2	OK	36.1009	45.2991	0.32745	-0.30133	0.763166	0.978191
gene1690	gene1690	rpmI	gi 57650036 ref NC_002951.2 :1756811-1757012	q1	q2	OK	107.531	45.8948	-1.22835	0.556143	0.578113	0.976548
gene1691	gene1691	infC	gi 57650036 ref NC_002951.2 :1757040-1757568	q1	q2	OK	120.66	92.9955	-0.375719	0.267893	0.788782	0.982219
gene1692	gene1692	SACOL1728	gi 57650036 ref NC_002951.2 :1757796-1759290	q1	q2	OK	84.5742	108.192	0.355307	-0.35006	0.726298	0.978191
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	q1	q2	OK	67.7793	51.8176	-0.387404	0.382767	0.701892	0.978191
gene1694	gene1694	dnaI	gi 57650036 ref NC_002951.2 :1762065-1764386	q1	q2	OK	192.96	91.1419	-1.08212	0.711633	0.476692	0.956269
gene1695	gene1695	SACOL1732	gi 57650036 ref NC_002951.2 :1762065-1764386	q1	q2	OK	106.131	62.084	-0.773552	0.512043	0.608621	0.978191
gene1696	gene1696	nrdR	gi 57650036 ref NC_002951.2 :1764386-1764857	q1	q2	OK	293.153	91.2283	-1.6841	1.28651	0.198266	0.842707
gene1697	gene1697	gapA2	gi 57650036 ref NC_002951.2 :1765066-1766092	q1	q2	OK	956.213	303.269	-1.65674	1.35339	0.175932	0.842707
gene1698	gene1698	coaE	gi 57650036 ref NC_002951.2 :1766261-1766885	q1	q2	OK	146.171	106.518	-0.456567	0.389631	0.696809	0.978191
gene1699	gene1699	fpg	gi 57650036 ref NC_002951.2 :1766900-1767773	q1	q2	OK	87.494	65.0371	-0.427921	0.359256	0.719403	0.978191
gene17	gene17	purA	gi 57650036 ref NC_002951.2 :22464-23748	q1	q2	OK	87.8267	51.6055	-0.767135	0.71496	0.474634	0.956269
gene170	gene170	SACOL0176	gi 57650036 ref NC_002951.2 :203206-205158	q1	q2	OK	66.206	37.6194	-0.815483	0.567501	0.570374	0.976548
gene1700	gene1700	polA	gi 57650036 ref NC_002951.2 :1767788-1770419	q1	q2	OK	122.445	69.9865	-0.806987	0.736879	0.461196	0.956269
gene1701	gene1701	SACOL1738	gi 57650036 ref NC_002951.2 :1770712-1772200	q1	q2	OK	10.4741	25.6549	1.29241	-0.81195	0.41682	0.948553
gene1702	gene1702	SACOL1739	gi 57650036 ref NC_002951.2 :1772698-1775064	q1	q2	OK	90.3974	63.57	-0.507934	0.383373	0.701443	0.978191
gene1703	gene1703	phoP	gi 57650036 ref NC_002951.2 :1772698-1775064	q1	q2	OK	117.584	131.663	0.163157	-0.09258	0.926238	0.9868
gene1704	gene1704	icd	gi 57650036 ref NC_002951.2 :1775453-1776722	q1	q2	OK	1723.1	1106.17	-0.639434	0.464643	0.642187	0.978191
gene1705	gene1705	gltA	gi 57650036 ref NC_002951.2 :1776770-1777892	q1	q2	OK	1008.34	625.073	-0.689889	0.524083	0.600221	0.978191
gene1706	gene1706	SACOL1743	gi 57650036 ref NC_002951.2 :1778239-1779601	q1	q2	OK	646.029	168.853	-1.93584	1.61445	0.10643	0.818963
gene1707	gene1707	SACOL1744	gi 57650036 ref NC_002951.2 :1779633-1781285	q1	q2	OK	0.598164	15.8174	4.72483	-2.36799	0.017885	0.500083
gene1708	gene1708	pyk	gi 57650036 ref NC_002951.2 :1781925-1783683	q1	q2	OK	425.706	77.4538	-2.45845	2.10668	0.035146	0.621406

gene1709	gene1709	pfkA	gi 57650036 ref NC_002951.2 :1783704-1784673	q1	q2	OK	135.258	101.028	-0.420952	0.41264	0.679871	0.978191
gene171	gene171	murQ	gi 57650036 ref NC_002951.2 :203206-205158	q1	q2	OK	46.7377	60.0856	0.362433	-0.23514	0.814104	0.984151
gene1710	gene1710	accA	gi 57650036 ref NC_002951.2 :1784941-1786743	q1	q2	OK	195.128	52.6587	-1.88967	1.32613	0.184796	0.842707
gene1711	gene1711	accD	gi 57650036 ref NC_002951.2 :1784941-1786743	q1	q2	OK	159.597	46.9282	-1.7659	1.07453	0.282587	0.918498
gene1712	gene1712	SACOL1749	gi 57650036 ref NC_002951.2 :1786937-1788167	q1	q2	OK	94.4494	75.3474	-0.325985	0.318984	0.749738	0.978191
gene1713	gene1713	dnaE	gi 57650036 ref NC_002951.2 :1788616-1791814	q1	q2	OK	77.8468	59.2437	-0.393975	0.368181	0.712738	0.978191
gene1714	gene1714	SACOL1751	gi 57650036 ref NC_002951.2 :1791834-1792776	q1	q2	OK	97.8225	63.0227	-0.634294	0.557456	0.577216	0.976548
gene1715	gene1715	SACOL1752	gi 57650036 ref NC_002951.2 :1793036-1794335	q1	q2	OK	47.6707	58.5773	0.29724	-0.26339	0.792254	0.982631
gene1716	gene1716	SACOL1753	gi 57650036 ref NC_002951.2 :1794539-1794953	q1	q2	OK	1170.93	78.5417	-3.89805	2.78488	0.005355	0.446636
gene1717	gene1717	SACOL1754	gi 57650036 ref NC_002951.2 :1795257-1795946	q1	q2	OK	306.131	222.408	-0.460941	0.453956	0.64986	0.978191
gene1718	gene1718	pepQ	gi 57650036 ref NC_002951.2 :1796120-1797176	q1	q2	OK	61.3303	36.7727	-0.737966	0.560751	0.574967	0.976548
gene1719	gene1719	SACOL1757	gi 57650036 ref NC_002951.2 :1797269-1797368	q1	q2	NOTEST 0		0	0	0	1	1
gene172	gene172	SACOL0178	gi 57650036 ref NC_002951.2 :205169-206624	q1	q2	OK	93.6709	59.6151	-0.651923	0.636479	0.524464	0.963286
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	q1	q2	OK	645.297	122.414	-2.39819	2.07564	0.037928	0.634589
gene1721	gene1721	SACOL1759	gi 57650036 ref NC_002951.2 :1798750-1799251	q1	q2	OK	2633.4	625.209	-2.07452	1.73075	0.083497	0.76604
gene1722	gene1722	ackA	gi 57650036 ref NC_002951.2 :1799496-1800699	q1	q2	OK	358.115	170.627	-1.06958	0.957009	0.338563	0.93058
gene1723	gene1723	SACOL1761	gi 57650036 ref NC_002951.2 :1800786-1801734	q1	q2	OK	179.281	357.918	0.997405	-0.92929	0.352738	0.93284
gene1724	gene1724	tpx	gi 57650036 ref NC_002951.2 :1801856-1802351	q1	q2	OK	1432.19	650.748	-1.13805	0.997389	0.318576	0.927653
gene1725	gene1725	SACOL1763	gi 57650036 ref NC_002951.2 :1802448-1803219	q1	q2	OK	15.9988	128.564	3.00645	-1.99257	0.046308	0.652239
gene1726	gene1726	thiI	gi 57650036 ref NC_002951.2 :1803262-1805625	q1	q2	OK	17.5085	51.1297	1.5461	-0.93489	0.349844	0.93284
gene1727	gene1727	SACOL1765	gi 57650036 ref NC_002951.2 :1803262-1805625	q1	q2	OK	12.1207	43.8086	1.85374	-0.92322	0.355892	0.93284
gene1728	gene1728	SACOL1766	gi 57650036 ref NC_002951.2 :1805782-1805923	q1	q2	OK	0	88.1378	1.79769e+30	1.79769e+	0.209916	0.842707
gene1729	gene1729	SACOL1767	gi 57650036 ref NC_002951.2 :1805996-1807691	q1	q2	OK	393.123	106.037	-1.89041	1.62049	0.105127	0.816834
gene173	gene173	SACOL0179	gi 57650036 ref NC_002951.2 :206626-207502	q1	q2	OK	60.5713	32.7588	-0.886753	0.608457	0.542884	0.968798
gene1730	gene1730	SACOL1768	gi 57650036 ref NC_002951.2 :1807827-1808292	q1	q2	OK	37.9876	29.1849	-0.38031	0.203901	0.838431	0.984151
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	q1	q2	OK	673.904	62.3284	-3.43458	2.56972	0.010178	0.500083
gene1732	gene1732	SACOL1770	gi 57650036 ref NC_002951.2 :1809353-1810097	q1	q2	OK	1.23138	34.8162	4.82141	-2.35262	0.018642	0.510701
gene1733	gene1733	SACOL1771	gi 57650036 ref NC_002951.2 :1810176-1810623	q1	q2	OK	43.8696	61.1454	0.479021	-0.27166	0.785881	0.982219
gene1734	gene1734	SACOL1772	gi 57650036 ref NC_002951.2 :1810736-1813488	q1	q2	OK	38.0541	38.981	0.0347185	-0.01957	0.984388	0.997969
gene1735	gene1735	serA	gi 57650036 ref NC_002951.2 :1810736-1813488	q1	q2	OK	60.7692	48.946	-0.312149	0.253672	0.799749	0.984151
gene1736	gene1736	SACOL1774	gi 57650036 ref NC_002951.2 :1813637-1814768	q1	q2	OK	73.4456	55.5868	-0.401933	0.359343	0.719338	0.978191
gene1737	gene1737	SACOL1775	gi 57650036 ref NC_002951.2 :1814874-1816341	q1	q2	OK	66.1394	37.1787	-0.831035	0.738962	0.45993	0.956269
gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	q1	q2	OK	98.5688	22.3252	-2.14246	1.33582	0.181608	0.842707

gene1739	gene1739	SACOL1777	gi 57650036 ref NC_002951.2 :1817257-1818532	q1	q2	OK	96.705	71.9532	-0.426531	0.417791	0.6761	0.978191
gene174	gene174	SACOL0180	gi 57650036 ref NC_002951.2 :208189-210979	q1	q2	OK	25.1358	33.2645	0.404236	-0.3848	0.700385	0.978191
gene1740	gene1740	tyrS	gi 57650036 ref NC_002951.2 :1818625-1819888	q1	q2	OK	41.5125	46.2526	0.155989	-0.12658	0.899275	0.984151
gene1741	gene1741	SACOL1779	gi 57650036 ref NC_002951.2 :1820269-1821175	q1	q2	OK	33.493	39.7248	0.246181	-0.16036	0.872596	0.984151
gene1742	gene1742	SACOL1781	gi 57650036 ref NC_002951.2 :1821377-1824065	q1	q2	OK	8.06088	34.5766	2.10079	-1.54787	0.121654	0.842707
gene1743	gene1743	fhs	gi 57650036 ref NC_002951.2 :1824398-1826066	q1	q2	OK	695.501	222.828	-1.64212	1.2962	0.194908	0.842707
gene1744	gene1744	acs	gi 57650036 ref NC_002951.2 :1826505-1828212	q1	q2	OK	747.342	628.996	-0.248718	0.183415	0.854472	0.984151
gene1745	gene1745	acuA	gi 57650036 ref NC_002951.2 :1828380-1829013	q1	q2	OK	103.827	52.781	-0.976098	0.682885	0.49468	0.963286
gene1746	gene1746	acuC	gi 57650036 ref NC_002951.2 :1829037-1830207	q1	q2	OK	129.101	94.1567	-0.45537	0.449858	0.652813	0.978191
gene1747	gene1747	ccpA	gi 57650036 ref NC_002951.2 :1830304-1831294	q1	q2	OK	691.76	170.5	-2.0205	1.75411	0.079412	0.758524
gene1748	gene1748	SACOL1787	gi 57650036 ref NC_002951.2 :1831833-1832925	q1	q2	OK	276.229	78.0689	-1.82305	1.69313	0.090431	0.784058
gene1749	gene1749	SACOL1788	gi 57650036 ref NC_002951.2 :1833624-1835142	q1	q2	OK	297.865	531.001	0.834057	-0.66037	0.509019	0.963286
gene175	gene175	SACOL0181	gi 57650036 ref NC_002951.2 :211183-212026	q1	q2	OK	89.6625	47.1943	-0.925892	0.708703	0.478509	0.956269
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	q1	q2	OK	2709.34	1015.64	-1.41555	1.13931	0.254574	0.890115
gene1751	gene1751	murC	gi 57650036 ref NC_002951.2 :1835780-1837094	q1	q2	OK	208.237	91.6033	-1.18475	1.1292	0.258812	0.897383
gene1752	gene1752	SACOL1791	gi 57650036 ref NC_002951.2 :1837117-1840942	q1	q2	OK	110.201	67.2888	-0.711699	0.613213	0.539736	0.965252
gene1753	gene1753	SACOL1792	gi 57650036 ref NC_002951.2 :1840962-1841559	q1	q2	OK	60.064	57.6218	-0.0598847	0.038053	0.969646	0.992742
gene1754	gene1754	SACOL1793	gi 57650036 ref NC_002951.2 :1841587-1842445	q1	q2	OK	56.9026	37.5426	-0.599968	0.410949	0.68111	0.978191
gene1755	gene1755	SACOL1794	gi 57650036 ref NC_002951.2 :1842544-1842856	q1	q2	OK	334.892	151.692	-1.14255	0.745233	0.456131	0.956269
gene1756	gene1756	pepA1	gi 57650036 ref NC_002951.2 :1842920-1843997	q1	q2	OK	106.126	151.787	0.51627	-0.50786	0.611554	0.978191
gene1757	gene1757	SACOL1796	gi 57650036 ref NC_002951.2 :1844083-1844395	q1	q2	OK	1473.09	53.8261	-4.77439	3.10122	0.001927	0.338293
gene1758	gene1758	SACOL1797	gi 57650036 ref NC_002951.2 :1844519-1845296	q1	q2	OK	40.9143	40.7039	-0.00743923	0.004739	0.996218	0.998672
gene1759	gene1759	trmB	gi 57650036 ref NC_002951.2 :1845831-1846476	q1	q2	OK	335.561	122.472	-1.45412	1.34919	0.177277	0.842707
gene176	gene176	SACOL0182	gi 57650036 ref NC_002951.2 :212027-214050	q1	q2	NOTEST 0		0	0	0	1	1
gene1760	gene1760	SACOL1799	gi 57650036 ref NC_002951.2 :1846490-1847282	q1	q2	OK	301.766	109.05	-1.46844	1.38936	0.164724	0.842707
gene1761	gene1761	dat	gi 57650036 ref NC_002951.2 :1847831-1848680	q1	q2	OK	289.632	214.822	-0.431081	0.416102	0.677336	0.978191
gene1762	gene1762	SACOL1801	gi 57650036 ref NC_002951.2 :1848683-1850093	q1	q2	OK	133.953	129.369	-0.0502363	0.048625	0.961218	0.989588
gene1763	gene1763	SACOL1802	gi 57650036 ref NC_002951.2 :1851012-1851435	q1	q2	OK	327.3	450.094	0.459611	-0.44089	0.659295	0.978191
gene1764	gene1764	SACOL1803	gi 57650036 ref NC_002951.2 :1851451-1853805	q1	q2	OK	61.9468	48.3613	-0.357176	0.182322	0.85533	0.984151
gene1765	gene1765	SACOL1804	gi 57650036 ref NC_002951.2 :1851451-1853805	q1	q2	OK	61.0341	41.2043	-0.566819	0.471663	0.637167	0.978191
gene1766	gene1766	SACOL1805	gi 57650036 ref NC_002951.2 :1854211-1855480	q1	q2	OK	31.0578	63.0151	1.02074	-0.80902	0.418506	0.949284
gene1767	gene1767	SACOL1806	gi 57650036 ref NC_002951.2 :1855596-1862157	q1	q2	OK	3.7076	34.5164	3.21872	-2.38895	0.016897	0.500083
gene1768	gene1768	SACOL1807	gi 57650036 ref NC_002951.2 :1862482-1862794	q1	q2	OK	67.854	47.3018	-0.520541	0.267729	0.788908	0.982219

gene1769	gene1769	leuS	gi 57650036 ref NC_002951.2 :1862815-1865233	q1	q2	OK	51.2013	41.9667	-0.286936	0.283923	0.776469	0.981157
gene177	gene177	SACOL0183	gi 57650036 ref NC_002951.2 :212027-214050	q1	q2	NOTEST 0		0	0	0	1	1
gene1770	gene1770	SACOL1809	gi 57650036 ref NC_002951.2 :1865520-1866702	q1	q2	OK	58.1706	54.5471	-0.0927876	0.081149	0.935323	0.987716
gene1771	gene1771	SACOL1810	gi 57650036 ref NC_002951.2 :1866811-1868325	q1	q2	OK	65.5083	55.8791	-0.229369	0.177738	0.858929	0.984151
gene1772	gene1772	SACOL1811	gi 57650036 ref NC_002951.2 :1866811-1868325	q1	q2	OK	67.7646	36.8447	-0.879076	0.424357	0.671305	0.978191
gene1773	gene1773	rot	gi 57650036 ref NC_002951.2 :1868444-1868945	q1	q2	OK	564.08	433.398	-0.380206	0.370781	0.7108	0.978191
gene1774	gene1774	SACOL1813	gi 57650036 ref NC_002951.2 :1869365-1870078	q1	q2	OK	4.80106	33.4649	2.80123	-1.4536	0.146058	0.842707
gene1775	gene1775	SACOL1814	gi 57650036 ref NC_002951.2 :1870424-1871252	q1	q2	OK	197.559	123.92	-0.672868	0.659571	0.509529	0.963286
gene1776	gene1776	SACOL1815	gi 57650036 ref NC_002951.2 :1871254-1871374	q1	q2	OK	0	463.935	1.79769e+30	1.79769e+	0.20195	0.842707
gene1777	gene1777	putA	gi 57650036 ref NC_002951.2 :1871485-1872487	q1	q2	OK	343.841	73.1062	-2.23368	2.00199	0.045285	0.650761
gene1778	gene1778	ribH	gi 57650036 ref NC_002951.2 :1872608-1873073	q1	q2	OK	18.5521	37.7906	1.02645	-0.5343	0.593135	0.978191
gene1779	gene1779	ribBA	gi 57650036 ref NC_002951.2 :1873085-1874267	q1	q2	OK	15.6013	38.479	1.3024	-0.84681	0.3971	0.940909
gene178	gene178	SACOL0184	gi 57650036 ref NC_002951.2 :214314-215907	q1	q2	OK	39.308	29.8871	-0.395297	0.32356	0.746271	0.978191
gene1780	gene1780	ribE	gi 57650036 ref NC_002951.2 :1874277-1874910	q1	q2	OK	21.9133	34.4836	0.654101	-0.36712	0.713531	0.978191
gene1781	gene1781	ribD	gi 57650036 ref NC_002951.2 :1874916-1875960	q1	q2	OK	15.1012	47.3421	1.64846	-1.06096	0.288708	0.921417
gene1782	gene1782	SACOL1821	gi 57650036 ref NC_002951.2 :1876440-1877943	q1	q2	OK	17.5305	45.2862	1.36921	-1.00114	0.316757	0.927653
gene1783	gene1783	arsR	gi 57650036 ref NC_002951.2 :1878465-1880072	q1	q2	OK	66.1856	39.8582	-0.731638	0.221359	0.824813	0.984151
gene1784	gene1784	arsB	gi 57650036 ref NC_002951.2 :1878465-1880072	q1	q2	OK	16.1791	29.5896	0.870959	-0.52674	0.598374	0.978191
gene1785	gene1785	arsC	gi 57650036 ref NC_002951.2 :1880089-1880485	q1	q2	OK	30.6874	27.7279	-0.146309	0.074106	0.940926	0.987716
gene1786	gene1786	SACOL1825	gi 57650036 ref NC_002951.2 :1880779-1881634	q1	q2	OK	387.017	252.658	-0.615214	0.573525	0.566289	0.976548
gene1787	gene1787	SACOL1826	gi 57650036 ref NC_002951.2 :1881909-1882134	q1	q2	OK	326.17	179.223	-0.863869	0.473275	0.636017	0.978191
gene1788	gene1788	SACOL1827	gi 57650036 ref NC_002951.2 :1882332-1882803	q1	q2	OK	11.2088	28.2112	1.33164	-0.66295	0.507366	0.963286
gene1789	gene1789	SACOL1828	gi 57650036 ref NC_002951.2 :1882915-1883789	q1	q2	OK	45.4239	24.6581	-0.881391	0.322527	0.747053	0.978191
gene179	gene179	SACOL0185	gi 57650036 ref NC_002951.2 :216034-217342	q1	q2	OK	43.1385	32.1992	-0.421948	0.324108	0.745857	0.978191
gene1790	gene1790	SACOL1829	gi 57650036 ref NC_002951.2 :1882915-1883789	q1	q2	OK	175.897	47.295	-1.89497	0.97031	0.331892	0.927653
gene1791	gene1791	SACOL1830	gi 57650036 ref NC_002951.2 :1884084-1884720	q1	q2	OK	6.21541	57.0923	3.19937	-1.71774	0.085844	0.769821
gene1792	gene1792	tal	gi 57650036 ref NC_002951.2 :1885159-1885873	q1	q2	OK	1024.46	868.65	-0.238017	0.189915	0.849376	0.984151
gene1793	gene1793	crcB	gi 57650036 ref NC_002951.2 :1886612-1887406	q1	q2	OK	18.3628	61.443	1.74246	-0.67505	0.499644	0.963286
gene1794	gene1794	SACOL1833	gi 57650036 ref NC_002951.2 :1886612-1887406	q1	q2	OK	57.2947	51.7706	-0.146269	0.060795	0.951522	0.988316
gene1795	gene1795	SACOL1834	gi 57650036 ref NC_002951.2 :1887816-1889426	q1	q2	OK	0.308143	20.0575	6.0244	-2.97598	0.002921	0.346711
gene1796	gene1796	SACOL1835	gi 57650036 ref NC_002951.2 :1889488-1890322	q1	q2	OK	127.728	83.0419	-0.621166	0.567416	0.570432	0.976548
gene1797	gene1797	SACOL1836	gi 57650036 ref NC_002951.2 :1890533-1891442	q1	q2	OK	179.198	54.396	-1.71998	1.46053	0.144144	0.842707
gene1798	gene1798	metK	gi 57650036 ref NC_002951.2 :1891566-1892760	q1	q2	OK	83.8656	39.7982	-1.07538	0.912593	0.361456	0.93284

gene1799	gene1799	pckA	gi 57650036 ref NC_002951.2 :1893130-1894723	q1	q2	OK	880.53	308.534	-1.51294	1.1615	0.245437	0.885853
gene18	gene18	SACOL_tRNA	gi 57650036 ref NC_002951.2 :24177-24252	q1	q2	NOTEST	0	0	0	0	1	1
gene180	gene180	SACOL186	gi 57650036 ref NC_002951.2 :217347-218511	q1	q2	OK	33.1627	41.0148	0.306583	-0.2214	0.82478	0.984151
gene1800	gene1800	SACOL1839	gi 57650036 ref NC_002951.2 :1894858-1895344	q1	q2	OK	129.315	333.635	1.36738	-1.11566	0.264568	0.901051
gene1801	gene1801	SACOL1840	gi 57650036 ref NC_002951.2 :1895718-1896949	q1	q2	OK	24.1933	76.4921	1.6607	-0.91195	0.361795	0.93284
gene1802	gene1802	SACOL1841	gi 57650036 ref NC_002951.2 :1895718-1896949	q1	q2	OK	24.1337	110.14	2.19021	-0.93749	0.348509	0.93284
gene1803	gene1803	SACOL1842	gi 57650036 ref NC_002951.2 :1897008-1898264	q1	q2	OK	1490.63	292.431	-2.34976	1.45153	0.146634	0.842707
gene1804	gene1804	SACOL1843	gi 57650036 ref NC_002951.2 :1897008-1898264	q1	q2	OK	51.8643	68.3356	0.397896	-0.2588	0.795791	0.984081
gene1805	gene1805	SACOL1844	gi 57650036 ref NC_002951.2 :1898268-1899747	q1	q2	OK	44.4088	71.0612	0.678219	-0.62924	0.529193	0.963286
gene1806	gene1806	SACOL1845	gi 57650036 ref NC_002951.2 :1899905-1900388	q1	q2	OK	12.3397	29.8979	1.27674	-0.64446	0.519277	0.963286
gene1807	gene1807	SACOL1846	gi 57650036 ref NC_002951.2 :1900663-1901314	q1	q2	OK	267.878	349.853	0.385171	-0.37653	0.706524	0.978191
gene1808	gene1808	SACOL1847	gi 57650036 ref NC_002951.2 :1901394-1902390	q1	q2	OK	805.855	253.278	-1.6698	1.40451	0.160169	0.842707
gene1809	gene1809	SACOL1848	gi 57650036 ref NC_002951.2 :1902465-1903092	q1	q2	OK	28.5933	49.9274	0.804156	-0.47543	0.634484	0.978191
gene181	gene181	SACOL187	gi 57650036 ref NC_002951.2 :218527-220303	q1	q2	OK	35.6374	34.477	-0.0477578	0.04177	0.966682	0.991337
gene1810	gene1810	SACOL1849	gi 57650036 ref NC_002951.2 :1903132-1903477	q1	q2	OK	37.2865	18.8612	-0.983231	0.476842	0.633474	0.978191
gene1811	gene1811	SACOL1850	gi 57650036 ref NC_002951.2 :1903574-1904126	q1	q2	OK	38.3704	25.1705	-0.608263	0.336822	0.736251	0.978191
gene1812	gene1812	SACOL1851	gi 57650036 ref NC_002951.2 :1904343-1904985	q1	q2	OK	11.742	31.0481	1.40282	-0.74939	0.453622	0.956269
gene1813	gene1813	SACOL1853	gi 57650036 ref NC_002951.2 :1905285-1905462	q1	q2	OK	0	14.7684	1.79769e+30	1.79769e+	0.206623	0.842707
gene1814	gene1814	SACOL1854	gi 57650036 ref NC_002951.2 :1905472-1905856	q1	q2	OK	31.5579	139.55	2.14471	-1.21481	0.224437	0.854232
gene1815	gene1815	SACOL1855	gi 57650036 ref NC_002951.2 :1905957-1906735	q1	q2	OK	20.8055	34.6023	0.733899	-0.43083	0.666593	0.978191
gene1816	gene1816	SACOL1857	gi 57650036 ref NC_002951.2 :1907605-1907983	q1	q2	OK	9.54123	22.1695	1.21633	-0.56803	0.570017	0.976548
gene1817	gene1817	SACOL1858	gi 57650036 ref NC_002951.2 :1908503-1909064	q1	q2	OK	5.6972	23.4548	2.04156	-1.00289	0.315912	0.927653
gene1818	gene1818	SACOL1859	gi 57650036 ref NC_002951.2 :1909268-1912319	q1	q2	OK	2.34199	19.1149	3.02889	-1.90491	0.056792	0.696046
gene1819	gene1819	SACOL1860	gi 57650036 ref NC_002951.2 :1912385-1912616	q1	q2	OK	0	10.2076	1.79769e+30	1.79769e+	0.200139	0.842707
gene182	gene182	ggt	gi 57650036 ref NC_002951.2 :220340-222347	q1	q2	OK	24.5536	50.7842	1.04844	-0.9154	0.35998	0.93284
gene1820	gene1820	hsdS	gi 57650036 ref NC_002951.2 :1913465-1916214	q1	q2	OK	21.6579	35.306	0.705015	-0.41402	0.67886	0.978191
gene1821	gene1821	hsdM2	gi 57650036 ref NC_002951.2 :1913465-1916214	q1	q2	OK	19.5438	35.6664	0.867851	-0.5778	0.5634	0.976548
gene1822	gene1822	SACOL1863	gi 57650036 ref NC_002951.2 :1916377-1916512	q1	q2	NOTEST	0	0	0	0	1	1
gene1823	gene1823	SACOL1864	gi 57650036 ref NC_002951.2 :1916576-1917296	q1	q2	OK	0.430305	58.7837	7.09391	-3.47549	0.00051	0.281629
gene1824	gene1824	SACOL1865	gi 57650036 ref NC_002951.2 :1917446-1918163	q1	q2	OK	1.73169	18.3866	3.4084	-1.62039	0.105149	0.816834
gene1825	gene1825	SACOL1866	gi 57650036 ref NC_002951.2 :1918320-1919040	q1	q2	OK	0	34.012	1.79769e+30	1.79769e+	0.108588	0.825336
gene1826	gene1826	splC	gi 57650036 ref NC_002951.2 :1919160-1919880	q1	q2	OK	2.58183	32.4392	3.65127	-1.8324	0.066892	0.73141
gene1827	gene1827	splB	gi 57650036 ref NC_002951.2 :1919937-1920660	q1	q2	OK	2.56632	59.0439	4.52401	-2.37801	0.017407	0.500083

gene1828	gene1828	splA	gi 57650036 ref NC_002951.2 :1920784-1921501	q1	q2	OK	0.432921	53.7757	6.95671	-3.38241	0.000719	0.281629
gene1829	gene1829	SACOL1870	gi 57650036 ref NC_002951.2 :1922464-1923031	q1	q2	OK	0	20.0652	1.79769e+30	1.79769e+	0.141005	0.842707
gene183	gene183	SACOL0189	gi 57650036 ref NC_002951.2 :222644-223418	q1	q2	NOTEST	0	0	0	0	1	1
gene1830	gene1830	epiG	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	106.038	197.845	0.899795	-0.4681	0.639711	0.978191
gene1831	gene1831	epiE	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	76.9671	129.285	0.748241	-0.34022	0.733695	0.978191
gene1832	gene1832	epiF	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	89.646	320.647	1.83867	-1.04518	0.295941	0.924214
gene1833	gene1833	epiP	gi 57650036 ref NC_002951.2 :1925672-1927046	q1	q2	OK	40.2922	53.4708	0.408251	-0.35173	0.725041	0.978191
gene1834	gene1834	epiD	gi 57650036 ref NC_002951.2 :1927055-1927574	q1	q2	OK	1.44565	20.1019	3.79754	-1.72506	0.084516	0.767592
gene1835	gene1835	epiC	gi 57650036 ref NC_002951.2 :1927589-1931820	q1	q2	OK	3.34606	22.5734	2.75409	-1.17968	0.238128	0.878184
gene1836	gene1836	epiB	gi 57650036 ref NC_002951.2 :1927589-1931820	q1	q2	OK	1.38785	14.1289	3.34774	-1.59662	0.11035	0.829058
gene1837	gene1837	epiA	gi 57650036 ref NC_002951.2 :1931884-1932028	q1	q2	OK	209.722	50.8711	-2.04356	0.835825	0.403253	0.940909
gene1838	gene1838	SACOL1879	gi 57650036 ref NC_002951.2 :1932919-1934239	q1	q2	OK	0.974117	9.28849	3.25328	-1.56798	0.116885	0.838847
gene1839	gene1839	lukD	gi 57650036 ref NC_002951.2 :1934670-1935654	q1	q2	OK	2.52819	61.8289	4.6121	-2.60721	0.009128	0.498321
gene184	gene184	acpD	gi 57650036 ref NC_002951.2 :223607-224234	q1	q2	OK	31.2408	63.0037	1.012	-0.61799	0.536584	0.963603
gene1840	gene1840	lukE	gi 57650036 ref NC_002951.2 :1935655-1936591	q1	q2	OK	1.79902	33.9359	4.23753	-2.18526	0.02887	0.604847
gene1841	gene1841	SACOL1882	gi 57650036 ref NC_002951.2 :1937390-1937930	q1	q2	OK	10.1245	39.6149	1.96819	-1.02354	0.306052	0.927653
gene1842	gene1842	SACOL1883	gi 57650036 ref NC_002951.2 :1937942-1938731	q1	q2	OK	43.0683	60.8057	0.497581	-0.34027	0.733652	0.978191
gene1843	gene1843	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1939973-1940062	q1	q2	NOTEST	0	0	0	0	1	1
gene1844	gene1844	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1940116-1940188	q1	q2	NOTEST	0	0	0	0	1	1
gene1845	gene1845	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1940189-1940264	q1	q2	NOTEST	0	0	0	0	1	1
gene1846	gene1846	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1940278-1940352	q1	q2	NOTEST	0	0	0	0	1	1
gene1847	gene1847	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1940367-1940443	q1	q2	NOTEST	0	0	0	0	1	1
gene1849	gene1849	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1940545-1940621	q1	q2	NOTEST	0	0	0	0	1	1
gene185	gene185	SACOL0191	gi 57650036 ref NC_002951.2 :224442-225021	q1	q2	OK	41.4685	54.9079	0.404996	-0.24426	0.807034	0.984151
gene1850	gene1850	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1940642-1940716	q1	q2	NOTEST	0	0	0	0	1	1
gene1851	gene1851	SACOL1885	gi 57650036 ref NC_002951.2 :1941187-1941742	q1	q2	OK	23.8453	50.7865	1.09074	-0.61602	0.537884	0.964015
gene1852	gene1852	SACOL1886	gi 57650036 ref NC_002951.2 :1941835-1942063	q1	q2	OK	103.743	120.393	0.214734	-0.10707	0.914737	0.984151
gene1853	gene1853	hemG	gi 57650036 ref NC_002951.2 :1942064-1943465	q1	q2	OK	65.6742	58.5289	-0.166177	0.159176	0.87353	0.984151
gene1854	gene1854	hemH	gi 57650036 ref NC_002951.2 :1943488-1944412	q1	q2	OK	66.7893	50.5878	-0.400827	0.310358	0.756288	0.978191
gene1855	gene1855	hemE	gi 57650036 ref NC_002951.2 :1944469-1945607	q1	q2	OK	47.4734	50.5149	0.0895906	-0.06621	0.947214	0.987716
gene1856	gene1856	SACOL1890	gi 57650036 ref NC_002951.2 :1944469-1945607	q1	q2	NOTEST	0	0	0	0	1	1
gene1857	gene1857	SACOL1891	gi 57650036 ref NC_002951.2 :1945769-1946273	q1	q2	OK	291.597	56.2169	-2.3749	1.72311	0.084868	0.767592
gene1858	gene1858	SACOL1892	gi 57650036 ref NC_002951.2 :1946396-1948353	q1	q2	OK	203.91	83.6944	-1.28473	0.952808	0.340687	0.93284

gene1859	gene1859	SACOL1893	gi 57650036 ref NC_002951.2 :1946396-1948353	q1	q2	OK	177.934	101.604	-0.808386	0.435753	0.663016	0.978191
gene186	gene186	SACOL0192	gi 57650036 ref NC_002951.2 :225403-226501	q1	q2	OK	3.90858	28.9685	2.88977	-1.58291	0.113441	0.836663
gene1860	gene1860	SACOL1894	gi 57650036 ref NC_002951.2 :1948486-1948909	q1	q2	OK	88.4884	66.3713	-0.414929	0.247121	0.804815	0.984151
gene1861	gene1861	SACOL1895	gi 57650036 ref NC_002951.2 :1949050-1949416	q1	q2	OK	446.719	623.878	0.481897	-0.46139	0.644516	0.978191
gene1862	gene1862	SACOL1896	gi 57650036 ref NC_002951.2 :1950148-1950706	q1	q2	OK	21.0769	25.0496	0.249123	-0.13236	0.894703	0.984151
gene1863	gene1863	SACOL1897	gi 57650036 ref NC_002951.2 :1950910-1951873	q1	q2	OK	134.911	56.7238	-1.24998	1.09622	0.272981	0.906044
gene1864	gene1864	cbf1	gi 57650036 ref NC_002951.2 :1951993-1957054	q1	q2	OK	326.769	89.0387	-1.87577	0.697991	0.485183	0.962734
gene1865	gene1865	SACOL1899	gi 57650036 ref NC_002951.2 :1951993-1957054	q1	q2	OK	213.101	71.1862	-1.58187	0.959043	0.337537	0.93058
gene1866	gene1866	SACOL1900	gi 57650036 ref NC_002951.2 :1951993-1957054	q1	q2	OK	159.973	72.4871	-1.14203	0.383787	0.701136	0.978191
gene1867	gene1867	SACOL1902	gi 57650036 ref NC_002951.2 :1957825-1958170	q1	q2	OK	1269.44	196.417	-2.6922	2.14547	0.031915	0.60736
gene1868	gene1868	SACOL1903	gi 57650036 ref NC_002951.2 :1958238-1959363	q1	q2	OK	39.5739	31.5017	-0.329119	0.230127	0.817993	0.984151
gene1869	gene1869	SACOL1904	gi 57650036 ref NC_002951.2 :1959541-1960006	q1	q2	OK	139.582	53.1314	-1.39348	0.887462	0.37483	0.940093
gene187	gene187	SACOL0193	gi 57650036 ref NC_002951.2 :226513-227785	q1	q2	OK	3.05615	33.5543	3.45671	-1.95175	0.050968	0.6872
gene1870	gene1870	SACOL1905	gi 57650036 ref NC_002951.2 :1960361-1960985	q1	q2	OK	25.6067	27.7664	0.116822	-0.06504	0.948146	0.987716
gene1871	gene1871	SACOL1906	gi 57650036 ref NC_002951.2 :1961006-1962119	q1	q2	OK	23.2962	29.8641	0.35832	-0.2298	0.81825	0.984151
gene1872	gene1872	SACOL1907	gi 57650036 ref NC_002951.2 :1962281-1963103	q1	q2	OK	124.221	36.0213	-1.78599	1.33672	0.181314	0.842707
gene1873	gene1873	fumC	gi 57650036 ref NC_002951.2 :1963565-1964951	q1	q2	OK	287.587	75.4119	-1.93113	1.75859	0.078648	0.758524
gene1874	gene1874	SACOL1909	gi 57650036 ref NC_002951.2 :1965146-1965542	q1	q2	OK	65.0572	27.2327	-1.25637	0.66753	0.504433	0.963286
gene1875	gene1875	SACOL1910	gi 57650036 ref NC_002951.2 :1965660-1966023	q1	q2	OK	5.99371	21.6684	1.85407	-0.84107	0.400308	0.940909
gene1876	gene1876	SACOL1911	gi 57650036 ref NC_002951.2 :1966318-1966471	q1	q2	OK	2777.48	2875.24	0.049905	-0.02935	0.976586	0.996166
gene1877	gene1877	SACOL1912	gi 57650036 ref NC_002951.2 :1966495-1967095	q1	q2	OK	396.668	929.75	1.22891	-1.0955	0.273297	0.906044
gene1878	gene1878	SACOL1913	gi 57650036 ref NC_002951.2 :1967253-1967724	q1	q2	OK	52.5951	49.0948	-0.0993579	0.057036	0.954516	0.989031
gene1879	gene1879	SACOL1914	gi 57650036 ref NC_002951.2 :1967728-1968856	q1	q2	OK	67.076	56.8807	-0.237858	0.210634	0.833173	0.984151
gene188	gene188	SACOL0194	gi 57650036 ref NC_002951.2 :227787-229056	q1	q2	OK	11.6467	29.3681	1.33433	-0.82562	0.409021	0.940909
gene1880	gene1880	SACOL1915	gi 57650036 ref NC_002951.2 :1969006-1971179	q1	q2	OK	14.3698	32.6783	1.18529	-0.51696	0.605188	0.978191
gene1881	gene1881	SACOL1916	gi 57650036 ref NC_002951.2 :1969006-1971179	q1	q2	OK	7.09477	35.3702	2.31771	-1.24034	0.214848	0.850184
gene1882	gene1882	SACOL1917	gi 57650036 ref NC_002951.2 :1971436-1972498	q1	q2	OK	65.2226	81.8136	0.326968	-0.29731	0.766231	0.978191
gene1883	gene1883	SACOL1918	gi 57650036 ref NC_002951.2 :1972990-1974310	q1	q2	OK	1.55859	10.5889	2.76424	-1.37555	0.16896	0.842707
gene1884	gene1884	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1974496-1974580	q1	q2	NOTEST 0		0	0	0	1	1
gene1885	gene1885	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1974796-1974871	q1	q2	NOTEST 0		0	0	0	1	1
gene1886	gene1886	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1974878-1974952	q1	q2	NOTEST 0		0	0	0	1	1
gene1887	gene1887	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1974957-1975029	q1	q2	NOTEST 0		0	0	0	1	1
gene1888	gene1888	SACOL_tRNA	gi 57650036 ref NC_002951.2 :1975040-1975113	q1	q2	NOTEST 0		0	0	0	1	1

gene1889	gene1889	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975115-1975189	q1	q2	NOTEST 0	0	0	0	1	1
gene189	gene189	SACOL0195_gij 57650036 ref NC_002951.2 :229057-229897	q1	q2	OK 10.396	28.2851	1.44401	-0.8016	0.422783	0.949436
gene1890	gene1890	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975204-1975285	q1	q2	NOTEST 0	0	0	0	1	1
gene1891	gene1891	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975290-1975366	q1	q2	NOTEST 0	0	0	0	1	1
gene1892	gene1892	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975373-1975446	q1	q2	NOTEST 0	0	0	0	1	1
gene1893	gene1893	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975464-1975540	q1	q2	NOTEST 0	0	0	0	1	1
gene1894	gene1894	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975549-1975623	q1	q2	NOTEST 0	0	0	0	1	1
gene1896	gene1896	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975768-1975844	q1	q2	NOTEST 0	0	0	0	1	1
gene1898	gene1898	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1975953-1976027	q1	q2	NOTEST 0	0	0	0	1	1
gene19	gene19	SACOL_tRNA·gij 57650036 ref NC_002951.2 :24259-24332	q1	q2	NOTEST 0	0	0	0	1	1
gene190	gene190	SACOL0196_gij 57650036 ref NC_002951.2 :229970-231047	q1	q2	OK 4.00476	60.5968	3.91945	-2.32742	0.019943	0.517412
gene1905	gene1905	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1976595-1976677	q1	q2	NOTEST 0	0	0	0	1	1
gene1906	gene1906	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1976680-1976756	q1	q2	NOTEST 0	0	0	0	1	1
gene1907	gene1907	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1976761-1976837	q1	q2	NOTEST 0	0	0	0	1	1
gene1908	gene1908	SACOL_tRNA·gij 57650036 ref NC_002951.2 :1976853-1976929	q1	q2	NOTEST 0	0	0	0	1	1
gene1909	gene1909	rrfD_gij 57650036 ref NC_002951.2 :1976940-1977055	q1	q2	OK 439031	280805	-0.644753	0.632483	0.527072	0.963286
gene191	gene191	SACOL0197_gij 57650036 ref NC_002951.2 :231071-232112	q1	q2	OK 5.22643	57.3537	3.45599	-2.0677	0.038668	0.641477
gene1910	gene1910	rrlD_gij 57650036 ref NC_002951.2 :1977127-1980050	q1	q2	OK 35530.4	19386.9	-0.873972	1.2246	0.220727	0.852509
gene1913	gene1913	rrsD_gij 57650036 ref NC_002951.2 :1980523-1982078	q1	q2	OK 14784.5	6346.01	-1.22016	0.964906	0.334592	0.927826
gene1914	gene1914	SACOL1919_gij 57650036 ref NC_002951.2 :1982817-1983264	q1	q2	OK 1797.7	364.874	-2.30068	2.05587	0.039795	0.641477
gene1915	gene1915	SACOL1920_gij 57650036 ref NC_002951.2 :1983360-1984311	q1	q2	OK 85.1597	95.1454	0.159964	-0.14934	0.881286	0.984151
gene1916	gene1916	bcp_gij 57650036 ref NC_002951.2 :1984316-1984772	q1	q2	OK 217.389	175.077	-0.312283	0.260331	0.794609	0.983954
gene1917	gene1917	hemL2_gij 57650036 ref NC_002951.2 :1984852-1986142	q1	q2	OK 115.776	108.471	-0.0940205	0.092978	0.925921	0.9868
gene1918	gene1918	SACOL1923_gij 57650036 ref NC_002951.2 :1986434-1987529	q1	q2	OK 67.1649	48.8642	-0.45893	0.386539	0.699098	0.978191
gene1919	gene1919	SACOL1924_gij 57650036 ref NC_002951.2 :1987719-1989456	q1	q2	OK 74.8053	45.6049	-0.713952	0.692125	0.488859	0.963286
gene192	gene192	SACOL0198_gij 57650036 ref NC_002951.2 :232166-233135	q1	q2	OK 14.9013	24.3166	0.706508	-0.4106	0.681368	0.978191
gene1920	gene1920	SACOL1925_gij 57650036 ref NC_002951.2 :1989746-1990289	q1	q2	OK 150.444	38.9919	-1.94798	1.30306	0.192553	0.842707
gene1921	gene1921	mutY_gij 57650036 ref NC_002951.2 :1990590-1991628	q1	q2	OK 16.2616	30.8771	0.925067	-0.56384	0.572865	0.976548
gene1922	gene1922	SACOL1927_gij 57650036 ref NC_002951.2 :1991779-1992757	q1	q2	OK 195.369	181.44	-0.106712	0.104187	0.917021	0.984151
gene1923	gene1923	SACOL1928_gij 57650036 ref NC_002951.2 :1993017-1993854	q1	q2	OK 70.6905	53.4392	-0.403619	0.302882	0.76198	0.978191
gene1924	gene1924	SACOL1929_gij 57650036 ref NC_002951.2 :1993862-1995380	q1	q2	OK 49.6716	42.2459	-0.23361	0.21088	0.832981	0.984151
gene1925	gene1925	SACOL1930_gij 57650036 ref NC_002951.2 :1995394-1996505	q1	q2	OK 53.3755	91.674	0.780336	-0.25827	0.796201	0.984096
gene1926	gene1926	recX_gij 57650036 ref NC_002951.2 :1995394-1996505	q1	q2	OK 43.4095	66.2398	0.609686	-0.41802	0.675936	0.978191

gene1927	gene1927	SACOL1932	gi 57650036 ref NC_002951.2 :1996765-1997575	q1	q2	OK	62.2889	46.309	-0.427684	0.29938	0.76465	0.978191
gene1928	gene1928	SACOL1933	gi 57650036 ref NC_002951.2 :1997915-1998431	q1	q2	OK	358.537	407.557	0.18488	-0.18246	0.85522	0.984151
gene1929	gene1929	SACOL1934	gi 57650036 ref NC_002951.2 :1998561-1998723	q1	q2	OK	0	24.3501	1.79769e+30	1.79769e+	0.206623	0.842707
gene193	gene193	SACOL0199	gi 57650036 ref NC_002951.2 :233495-234068	q1	q2	OK	6.72435	35.4539	2.39848	-1.22402	0.220946	0.852509
gene1930	gene1930	SACOL1935	gi 57650036 ref NC_002951.2 :1998946-2000098	q1	q2	OK	24.6183	40.1058	0.704078	-0.48208	0.62975	0.978191
gene1931	gene1931	SACOL1936	gi 57650036 ref NC_002951.2 :2000357-2000888	q1	q2	OK	248.697	104.022	-1.2575	1.03335	0.301439	0.926618
gene1932	gene1932	pepS	gi 57650036 ref NC_002951.2 :2000977-2002234	q1	q2	OK	115.546	57.9174	-0.996394	0.946507	0.34389	0.93284
gene1933	gene1933	SACOL1938	gi 57650036 ref NC_002951.2 :2002236-2002443	q1	q2	OK	47.3709	59.3372	0.324937	-0.14534	0.884445	0.984151
gene1934	gene1934	SACOL1939	gi 57650036 ref NC_002951.2 :2002583-2003048	q1	q2	OK	649.324	553.39	-0.230642	0.223584	0.823081	0.984151
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	q1	q2	OK	1911.6	182.137	-3.39169	2.44879	0.014334	0.500083
gene1936	gene1936	SACOL1941	gi 57650036 ref NC_002951.2 :2003607-2004825	q1	q2	OK	192.038	121.729	-0.657721	0.635294	0.525237	0.963286
gene1937	gene1937	vraR	gi 57650036 ref NC_002951.2 :2004940-2007301	q1	q2	OK	71.4812	63.7619	-0.164868	0.092824	0.926044	0.9868
gene1938	gene1938	vraS	gi 57650036 ref NC_002951.2 :2004940-2007301	q1	q2	OK	52.0731	40.1059	-0.376725	0.244481	0.806859	0.984151
gene1939	gene1939	SACOL1944	gi 57650036 ref NC_002951.2 :2004940-2007301	q1	q2	OK	35.7196	44.7514	0.325215	-0.15132	0.879726	0.984151
gene194	gene194	uhpT	gi 57650036 ref NC_002951.2 :234222-235602	q1	q2	OK	15.3313	48.262	1.6544	-1.16616	0.243549	0.885084
gene1940	gene1940	SACOL1945	gi 57650036 ref NC_002951.2 :2007315-2007702	q1	q2	OK	16.796	20.1602	0.263392	-0.12624	0.899546	0.984151
gene1941	gene1941	SACOL1946	gi 57650036 ref NC_002951.2 :2007918-2008677	q1	q2	OK	208.257	95.8646	-1.1193	1.03877	0.298911	0.924214
gene1942	gene1942	SACOL1947	gi 57650036 ref NC_002951.2 :2009204-2010191	q1	q2	OK	15.9489	22.3277	0.485375	-0.28271	0.777403	0.981796
gene1943	gene1943	SACOL1948	gi 57650036 ref NC_002951.2 :2010621-2011035	q1	q2	OK	6.69101	11.416	0.770755	-0.34953	0.726692	0.978191
gene1944	gene1944	SACOL1949	gi 57650036 ref NC_002951.2 :2011063-2011174	q1	q2	OK	0	326.307	1.79769e+30	1.79769e+	0.207933	0.842707
gene1945	gene1945	SACOL1950	gi 57650036 ref NC_002951.2 :2011259-2011991	q1	q2	OK	165.118	118.461	-0.47909	0.455894	0.648466	0.978191
gene1946	gene1946	SACOL1951	gi 57650036 ref NC_002951.2 :2011992-2013306	q1	q2	OK	119.888	42.3	-1.50296	1.34293	0.179293	0.842707
gene1947	gene1947	SACOL1952	gi 57650036 ref NC_002951.2 :2013597-2014098	q1	q2	OK	744.155	376.652	-0.982372	0.943804	0.34527	0.93284
gene1948	gene1948	SACOL1953	gi 57650036 ref NC_002951.2 :2014179-2014272	q1	q2	NOTEST	0	0	0	0	1	1
gene1949	gene1949	SACOL1954	gi 57650036 ref NC_002951.2 :2014486-2015041	q1	q2	OK	205.585	37.7352	-2.44575	1.70133	0.088881	0.775024
gene195	gene195	SACOL0201	gi 57650036 ref NC_002951.2 :235960-239233	q1	q2	OK	15.5595	29.3276	0.914466	-0.34842	0.727523	0.978191
gene1950	gene1950	dinP	gi 57650036 ref NC_002951.2 :2015108-2016179	q1	q2	OK	47.6412	70.0441	0.556052	-0.46075	0.644975	0.978191
gene1951	gene1951	SACOL1956	gi 57650036 ref NC_002951.2 :2016425-2016956	q1	q2	OK	191.733	99.1699	-0.951125	0.751775	0.452187	0.956269
gene1952	gene1952	SACOL1957	gi 57650036 ref NC_002951.2 :2017125-2018487	q1	q2	OK	33.7744	35.6516	0.0780372	-0.05943	0.952611	0.988316
gene1953	gene1953	SACOL1958	gi 57650036 ref NC_002951.2 :2018567-2019515	q1	q2	OK	127.974	75.2276	-0.766512	0.716236	0.473846	0.956269
gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	q1	q2	OK	297.422	64.3008	-2.2096	1.98432	0.04722	0.66135
gene1955	gene1955	gatA	gi 57650036 ref NC_002951.2 :2021723-2023181	q1	q2	OK	139.646	38.6835	-1.85198	1.64896	0.099155	0.815096
gene1956	gene1956	gatC	gi 57650036 ref NC_002951.2 :2023182-2023485	q1	q2	OK	226.887	69.2087	-1.71295	0.978405	0.327874	0.927653

gene1957	gene1957	SACOL1963	gi 57650036 ref NC_002951.2 :2023852-2025391	q1	q2	OK	260.794	84.8972	-1.61912	1.4737	0.140562	0.842707
gene1958	gene1958	camS	gi 57650036 ref NC_002951.2 :2025479-2026679	q1	q2	OK	195.797	101.141	-0.952985	0.922237	0.356405	0.93284
gene1959	gene1959	ligA	gi 57650036 ref NC_002951.2 :2026691-2028695	q1	q2	OK	91.4214	49.0698	-0.897696	0.874818	0.381673	0.940893
gene196	gene196	SACOL0202	gi 57650036 ref NC_002951.2 :235960-239233	q1	q2	OK	8.49035	43.1225	2.34454	-1.24049	0.214793	0.850184
gene1960	gene1960	pcrA	gi 57650036 ref NC_002951.2 :2028698-2031580	q1	q2	OK	64.2094	48.3978	-0.407844	0.362666	0.716854	0.978191
gene1961	gene1961	SACOL1967	gi 57650036 ref NC_002951.2 :2028698-2031580	q1	q2	OK	36.8595	42.6425	0.210255	-0.0787	0.937275	0.987716
gene1962	gene1962	SACOL1968	gi 57650036 ref NC_002951.2 :2031751-2032054	q1	q2	OK	467.954	78.8453	-2.56927	1.61874	0.105504	0.816834
gene1963	gene1963	purB	gi 57650036 ref NC_002951.2 :2032162-2033458	q1	q2	OK	103.575	70.9756	-0.545286	0.534482	0.593008	0.978191
gene1964	gene1964	sspB2	gi 57650036 ref NC_002951.2 :2034318-2035485	q1	q2	OK	0.905678	24.3622	4.7495	-2.3857	0.017047	0.500083
gene1965	gene1965	SACOL1971	gi 57650036 ref NC_002951.2 :2035515-2035842	q1	q2	OK	3.87764	25.5916	2.72242	-1.20279	0.229057	0.861295
gene1966	gene1966	SACOL1972	gi 57650036 ref NC_002951.2 :2036133-2036890	q1	q2	OK	184.052	32.3862	-2.50666	0.274219	0.783916	0.982219
gene1967	gene1967	SACOL1973	gi 57650036 ref NC_002951.2 :2036133-2036890	q1	q2	OK	113.162	52.7781	-1.10038	0.711396	0.476839	0.956269
gene1968	gene1968	nadE	gi 57650036 ref NC_002951.2 :2037160-2039444	q1	q2	OK	106.73	85.592	-0.318424	0.177144	0.859395	0.984151
gene1969	gene1969	SACOL1975	gi 57650036 ref NC_002951.2 :2037160-2039444	q1	q2	OK	96.6567	86.4113	-0.16165	0.125825	0.899871	0.984151
gene197	gene197	SACOL0203	gi 57650036 ref NC_002951.2 :235960-239233	q1	q2	OK	6.87751	43.5281	2.66199	-0.97615	0.32899	0.927653
gene1970	gene1970	SACOL1976	gi 57650036 ref NC_002951.2 :2039627-2040704	q1	q2	OK	58.0691	30.5937	-0.924534	0.678677	0.497343	0.963286
gene1971	gene1971	pheA	gi 57650036 ref NC_002951.2 :2040723-2041518	q1	q2	OK	62.4288	38.8173	-0.685512	0.464497	0.642292	0.978191
gene1972	gene1972	SACOL1978	gi 57650036 ref NC_002951.2 :2041542-2041665	q1	q2	OK	0	90.0494	1.79769e+30	1.79769e+	0.207933	0.842707
gene1973	gene1973	SACOL1979	gi 57650036 ref NC_002951.2 :2041707-2043270	q1	q2	OK	137.789	77.2219	-0.835377	0.810729	0.417521	0.948842
gene1974	gene1974	SACOL1980	gi 57650036 ref NC_002951.2 :2043474-2044572	q1	q2	OK	23.9401	55.398	1.21041	-0.85698	0.391454	0.940909
gene1975	gene1975	SACOL1981	gi 57650036 ref NC_002951.2 :2044943-2045504	q1	q2	OK	100.018	132.352	0.40413	-0.30939	0.757029	0.978191
gene1976	gene1976	ppaC	gi 57650036 ref NC_002951.2 :2045556-2046486	q1	q2	OK	492.583	89.0548	-2.4676	2.1851	0.028882	0.604847
gene1977	gene1977	SACOL1983	gi 57650036 ref NC_002951.2 :2046680-2046854	q1	q2	OK	0	64.7725	1.79769e+30	1.79769e+	0.192088	0.842707
gene1978	gene1978	aldA2	gi 57650036 ref NC_002951.2 :2046905-2048285	q1	q2	OK	323.621	244.927	-0.40195	0.342564	0.731927	0.978191
gene1979	gene1979	SACOL1985	gi 57650036 ref NC_002951.2 :2048404-2049433	q1	q2	OK	84.3383	90.371	0.099671	-0.0948	0.924471	0.986264
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	q1	q2	OK	40.794	48.5453	0.250973	-0.24672	0.805127	0.984151
gene1980	gene1980	SACOL1986	gi 57650036 ref NC_002951.2 :2049702-2050104	q1	q2	OK	22.567	64.0536	1.50507	-0.79347	0.427503	0.954536
gene1981	gene1981	SACOL1987	gi 57650036 ref NC_002951.2 :2050676-2050850	q1	q2	OK	4950.99	178.124	-4.79676	2.78372	0.005374	0.446636
gene1982	gene1982	SACOL1988	gi 57650036 ref NC_002951.2 :2051300-2052341	q1	q2	OK	30.8359	52.7999	0.775924	-0.55377	0.57974	0.976548
gene1983	gene1983	SACOL1989	gi 57650036 ref NC_002951.2 :2052397-2053794	q1	q2	OK	67.5917	68.4717	0.0186616	-0.01418	0.988683	0.997969
gene1984	gene1984	SACOL1990	gi 57650036 ref NC_002951.2 :2052397-2053794	q1	q2	OK	57.4825	58.5428	0.0263708	-0.01377	0.989014	0.997969
gene1985	gene1985	SACOL1991	gi 57650036 ref NC_002951.2 :2053853-2054378	q1	q2	OK	44.6341	80.8498	0.857097	-0.52593	0.598939	0.978191
gene1986	gene1986	SACOL1992	gi 57650036 ref NC_002951.2 :2054498-2055062	q1	q2	OK	221.49	124.108	-0.835641	0.737012	0.461115	0.956269

gene1987	gene1987	SACOL1993	gi 57650036 ref NC_002951.2 :2055127-2057417	q1	q2	OK	67.7058	51.8426	-0.38514	0.241669	0.809036	0.984151
gene1988	gene1988	SACOL1994	gi 57650036 ref NC_002951.2 :2055127-2057417	q1	q2	OK	31.2479	54.019	0.789711	-0.45711	0.647594	0.978191
gene1989	gene1989	SACOL1995	gi 57650036 ref NC_002951.2 :2055127-2057417	q1	q2	OK	16.8118	28.8302	0.778109	-0.27813	0.780916	0.982219
gene199	gene199	pflA	gi 57650036 ref NC_002951.2 :242092-242848	q1	q2	OK	28.887	71.8601	1.31477	-0.86724	0.385812	0.940893
gene1990	gene1990	SACOL1996	gi 57650036 ref NC_002951.2 :2057417-2058691	q1	q2	OK	18.0805	40.3732	1.15896	-0.63208	0.527336	0.963286
gene1991	gene1991	SACOL1997	gi 57650036 ref NC_002951.2 :2057417-2058691	q1	q2	OK	48.1888	61.2433	0.345853	-0.13806	0.890192	0.984151
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	q1	q2	OK	83.7189	36.921	-1.18111	0.498945	0.617818	0.978191
gene1993	gene1993	SACOL1999	gi 57650036 ref NC_002951.2 :2059373-2059472	q1	q2	NOTEST 0		0	0	0	1	1
gene1994	gene1994	SACOL2000	gi 57650036 ref NC_002951.2 :2059671-2060958	q1	q2	OK	180.18	87.8163	-1.03688	1.00231	0.316196	0.927653
gene1995	gene1995	map	gi 57650036 ref NC_002951.2 :2061281-2063337	q1	q2	OK	12.9394	31.354	1.27688	-0.93953	0.347461	0.93284
gene1996	gene1996	h1b	gi 57650036 ref NC_002951.2 :2063725-2064718	q1	q2	OK	26.6519	86.6941	1.70169	-1.24677	0.212483	0.848911
gene1997	gene1997	SACOL2004	gi 57650036 ref NC_002951.2 :2064955-2065828	q1	q2	OK	4.93387	32.7481	2.73062	-1.46959	0.141673	0.842707
gene1998	gene1998	SACOL2006	gi 57650036 ref NC_002951.2 :2065993-2067049	q1	q2	OK	4.36241	32.1761	2.88279	-1.59381	0.110978	0.830835
gene1999	gene1999	SACOL2007	gi 57650036 ref NC_002951.2 :2067483-2068708	q1	q2	OK	49.2736	86.8574	0.817833	-0.73655	0.461395	0.956269
gene2	gene2	SACOL0003	gi 57650036 ref NC_002951.2 :3696-5051	q1	q2	OK	797.974	349.414	-1.1914	0.416768	0.676848	0.978191
gene20	gene20	yycF	gi 57650036 ref NC_002951.2 :24951-25653	q1	q2	OK	191.993	194.465	0.0184569	-0.01825	0.985443	0.997969
gene200	gene200	SACOL0206	gi 57650036 ref NC_002951.2 :242951-243146	q1	q2	OK	0	4.49275	1.79769e+30	1.79769e+	0.207933	0.842707
gene2000	gene2000	SACOL2009	gi 57650036 ref NC_002951.2 :2069079-2069925	q1	q2	OK	3.08874	23.8886	2.95123	-1.50323	0.132779	0.842707
gene2001	gene2001	SACOL2010	gi 57650036 ref NC_002951.2 :2069986-2070898	q1	q2	OK	1.55145	48.813	4.97557	-2.61574	0.008903	0.498321
gene2002	gene2002	SACOL2011	gi 57650036 ref NC_002951.2 :2071058-2072366	q1	q2	OK	21.6677	25.9096	0.257939	-0.16891	0.865866	0.984151
gene2003	gene2003	SACOL2012	gi 57650036 ref NC_002951.2 :2073218-2073662	q1	q2	OK	36.7257	29.5088	-0.315642	0.167014	0.867359	0.984151
gene2004	gene2004	SACOL2013	gi 57650036 ref NC_002951.2 :2073767-2074205	q1	q2	OK	30.7844	33.0983	0.104558	-0.05491	0.956207	0.98956
gene2005	gene2005	SACOL2014	gi 57650036 ref NC_002951.2 :2074522-2075113	q1	q2	OK	2.90688	49.1549	4.07979	-2.04534	0.040821	0.643773
gene2006	gene2006	SACOL2015	gi 57650036 ref NC_002951.2 :2075454-2075929	q1	q2	OK	0.848615	24.9342	4.87687	-2.19321	0.028292	0.604847
gene2007	gene2007	groEL	gi 57650036 ref NC_002951.2 :2076023-2077640	q1	q2	OK	67.7574	85.5097	0.335709	-0.33178	0.740056	0.978191
gene2008	gene2008	groES	gi 57650036 ref NC_002951.2 :2077715-2078000	q1	q2	OK	19.4437	49.3319	1.34322	-0.63225	0.527226	0.963286
gene2009	gene2009	SACOL2018	gi 57650036 ref NC_002951.2 :2078174-2078918	q1	q2	OK	105.078	34.4398	-1.60931	1.1394	0.254536	0.890115
gene201	gene201	SACOL0207	gi 57650036 ref NC_002951.2 :243183-244947	q1	q2	OK	7.76542	27.9246	1.8464	-1.19862	0.230674	0.863636
gene2010	gene2010	SACOL2019	gi 57650036 ref NC_002951.2 :2078942-2080202	q1	q2	OK	121.394	155.422	0.356489	-0.34741	0.728285	0.978191
gene2011	gene2011	SACOL2020	gi 57650036 ref NC_002951.2 :2080398-2081025	q1	q2	OK	135.553	98.9038	-0.454762	0.377188	0.706034	0.978191
gene2012	gene2012	SACOL2021	gi 57650036 ref NC_002951.2 :2081385-2082171	q1	q2	OK	74.0624	53.2288	-0.476534	0.348453	0.7275	0.978191
gene2013	gene2013	h1d	gi 57650036 ref NC_002951.2 :2082767-2082902	q1	q2	OK	4326.1	80.7366	-5.7437	2.58881	0.009631	0.499638
gene2014	gene2014	agrB	gi 57650036 ref NC_002951.2 :2083137-2083844	q1	q2	OK	1948.44	526.927	-1.88664	1.53585	0.124576	0.842707

gene2015	gene2015	agrD	gi 57650036 ref NC_002951.2 :2083137-2083844	q1	q2	OK	833.848	264.413	-1.65699	0.083375	0.933554	0.987716
gene2016	gene2016	argC2	gi 57650036 ref NC_002951.2 :2083868-2085161	q1	q2	OK	819.942	221.399	-1.88887	1.53743	0.124188	0.842707
gene2017	gene2017	agrA	gi 57650036 ref NC_002951.2 :2085179-2085896	q1	q2	OK	1445.96	330.365	-2.12989	1.79153	0.073208	0.754145
gene2018	gene2018	SACOL2028	gi 57650036 ref NC_002951.2 :2086262-2088703	q1	q2	OK	118.927	73.5227	-0.693811	0.4206	0.674047	0.978191
gene2019	gene2019	cscA	gi 57650036 ref NC_002951.2 :2086262-2088703	q1	q2	OK	85.6856	76.7365	-0.15914	0.116814	0.907008	0.984151
gene202	gene202	SACOL0208	gi 57650036 ref NC_002951.2 :245110-245455	q1	q2	OK	22.0329	13.0077	-0.760292	0.353078	0.72403	0.978191
gene2020	gene2020	scrR	gi 57650036 ref NC_002951.2 :2088851-2089802	q1	q2	OK	87.2152	66.1343	-0.399181	0.351487	0.725223	0.978191
gene2021	gene2021	SACOL2031	gi 57650036 ref NC_002951.2 :2089984-2091235	q1	q2	OK	1.45535	41.4324	4.83132	-2.65655	0.007895	0.480028
gene2022	gene2022	SACOL2033	gi 57650036 ref NC_002951.2 :2091441-2091666	q1	q2	OK	11.4446	20.4178	0.835166	-0.35024	0.726158	0.978191
gene2023	gene2023	SACOL2034	gi 57650036 ref NC_002951.2 :2091725-2092805	q1	q2	OK	6.98379	65.5743	3.23105	-2.02667	0.042696	0.64903
gene2024	gene2024	SACOL2035	gi 57650036 ref NC_002951.2 :2093108-2093744	q1	q2	OK	251.724	125.137	-1.00833	0.941226	0.346589	0.93284
gene2025	gene2025	SACOL2036	gi 57650036 ref NC_002951.2 :2093996-2095925	q1	q2	OK	22.1696	47.1242	1.08789	-0.90804	0.363858	0.93284
gene2026	gene2026	SACOL2037	gi 57650036 ref NC_002951.2 :2096286-2097897	q1	q2	OK	9.85346	27.8094	1.49687	-0.96923	0.33243	0.927653
gene2027	gene2027	SACOL2038	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	81.4592	56.1191	-0.537586	0.413327	0.679367	0.978191
gene2028	gene2028	SACOL2039	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	50.3557	56.873	0.17559	-0.06748	0.946198	0.987716
gene2029	gene2029	SACOL2040	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	21.3895	32.1099	0.586118	-0.20652	0.836389	0.984151
gene203	gene203	SACOL0209	gi 57650036 ref NC_002951.2 :245644-247555	q1	q2	OK	2.78494	5.43996	0.965953	-0.49997	0.617095	0.978191
gene2030	gene2030	SACOL2041	gi 57650036 ref NC_002951.2 :2097998-2100531	q1	q2	OK	33.2268	32.6545	-0.0250678	0.007143	0.994301	0.998672
gene2031	gene2031	ilvD	gi 57650036 ref NC_002951.2 :2101068-2102757	q1	q2	OK	14.1392	34.0838	1.26938	-0.89915	0.368571	0.932839
gene2032	gene2032	ilvB	gi 57650036 ref NC_002951.2 :2102784-2104808	q1	q2	OK	29.0073	41.1961	0.506089	-0.41905	0.675182	0.978191
gene2033	gene2033	SACOL2044	gi 57650036 ref NC_002951.2 :2102784-2104808	q1	q2	OK	30.4141	24.3554	-0.320497	0.049489	0.960529	0.989588
gene2034	gene2034	ilvC	gi 57650036 ref NC_002951.2 :2104944-2105949	q1	q2	OK	28.1561	67.8294	1.26846	-0.9168	0.359245	0.93284
gene2035	gene2035	leuA	gi 57650036 ref NC_002951.2 :2105978-2107508	q1	q2	OK	32.0472	48.8479	0.608098	-0.5124	0.608368	0.978191
gene2036	gene2036	leuB	gi 57650036 ref NC_002951.2 :2107510-2108557	q1	q2	OK	29.3141	32.7556	0.160145	-0.10481	0.916528	0.984151
gene2037	gene2037	leuC	gi 57650036 ref NC_002951.2 :2108570-2109941	q1	q2	OK	25.6906	34.4037	0.421324	-0.30217	0.762525	0.978191
gene2038	gene2038	leuD	gi 57650036 ref NC_002951.2 :2109941-2110514	q1	q2	OK	15.8939	28.4172	0.83829	-0.44347	0.657424	0.978191
gene2039	gene2039	ilvA2	gi 57650036 ref NC_002951.2 :2110528-2111797	q1	q2	OK	24.315	27.0342	0.152941	-0.10124	0.919357	0.984517
gene204	gene204	SACOL0210	gi 57650036 ref NC_002951.2 :248020-249342	q1	q2	NOTEST 0		0	0	0	1	1
gene2040	gene2040	rrfE	gi 57650036 ref NC_002951.2 :2112006-2112121	q1	q2	OK	490780	195142	-1.33055	1.31669	0.187942	0.842707
gene2041	gene2041	rrfE	gi 57650036 ref NC_002951.2 :2112193-2115116	q1	q2	OK	37274.6	19123.6	-0.962839	1.3438	0.179013	0.842707
gene2042	gene2042	rrsE	gi 57650036 ref NC_002951.2 :2115662-2117217	q1	q2	OK	13501.3	7787.99	-0.793779	0.636128	0.524693	0.963286
gene2043	gene2043	SACOL_trNA	gi 57650036 ref NC_002951.2 :2117334-2117408	q1	q2	NOTEST 0		0	0	0	1	1
gene2044	gene2044	SACOL_trNA	gi 57650036 ref NC_002951.2 :2117427-2117513	q1	q2	NOTEST 0		0	0	0	1	1

gene2045	gene2045	SACOL2052	gi 57650036 ref NC_002951.2 :2118159-2120758	q1	q2	OK	48.6143	32.8512	-0.565437	0.175012	0.86107	0.984151
gene2046	gene2046	SACOL2053	gi 57650036 ref NC_002951.2 :2118159-2120758	q1	q2	OK	57.1858	38.7501	-0.56146	0.524379	0.600015	0.978191
gene2047	gene2047	rpoF	gi 57650036 ref NC_002951.2 :2121191-2122416	q1	q2	OK	350.803	235.043	-0.577739	0.483715	0.628588	0.978191
gene2048	gene2048	rsbW	gi 57650036 ref NC_002951.2 :2121191-2122416	q1	q2	OK	147.299	104.455	-0.495866	0.193482	0.846581	0.984151
gene2049	gene2049	rsbV	gi 57650036 ref NC_002951.2 :2122417-2122744	q1	q2	OK	302.456	211.314	-0.517336	0.35879	0.719752	0.978191
gene205	gene205	SACOL0211	gi 57650036 ref NC_002951.2 :248020-249342	q1	q2	OK	120.866	86.3185	-0.485668	0.472572	0.636518	0.978191
gene2050	gene2050	rsbU	gi 57650036 ref NC_002951.2 :2122863-2123865	q1	q2	OK	99.0635	46.0298	-1.10579	0.918946	0.358124	0.93284
gene2051	gene2051	SACOL2058	gi 57650036 ref NC_002951.2 :2124214-2124744	q1	q2	OK	157.335	93.1154	-0.756747	0.418903	0.675287	0.978191
gene2052	gene2052	SACOL2059	gi 57650036 ref NC_002951.2 :2124214-2124744	q1	q2	OK	528.565	17.8233	-4.89024	0.447796	0.654301	0.978191
gene2053	gene2053	alr	gi 57650036 ref NC_002951.2 :2124828-2125977	q1	q2	OK	131.108	64.0624	-1.03321	0.980274	0.326951	0.927653
gene2054	gene2054	acpS	gi 57650036 ref NC_002951.2 :2126042-2126402	q1	q2	OK	93.2321	66.1023	-0.496127	0.280491	0.779101	0.982219
gene2055	gene2055	SACOL2062	gi 57650036 ref NC_002951.2 :2126405-2128939	q1	q2	OK	67.6376	50.734	-0.414872	0.150121	0.880669	0.984151
gene2056	gene2056	SACOL2063	gi 57650036 ref NC_002951.2 :2126405-2128939	q1	q2	OK	78.508	58.8766	-0.415145	0.348602	0.727388	0.978191
gene2057	gene2057	SACOL2064	gi 57650036 ref NC_002951.2 :2126405-2128939	q1	q2	OK	61.5826	50.0958	-0.297835	0.102046	0.91872	0.984258
gene2058	gene2058	SACOL2065	gi 57650036 ref NC_002951.2 :2129034-2129708	q1	q2	NOTEST 0		0	0	0	1	1
gene2059	gene2059	kdpC	gi 57650036 ref NC_002951.2 :2129034-2129708	q1	q2	OK	20.2567	35.4615	0.807852	-0.34478	0.73026	0.978191
gene206	gene206	SACOL0212	gi 57650036 ref NC_002951.2 :249371-251633	q1	q2	OK	110.659	69.451	-0.67205	0.636652	0.524351	0.963286
gene2060	gene2060	kdpB	gi 57650036 ref NC_002951.2 :2129727-2131755	q1	q2	OK	5.56385	51.065	3.19818	-2.16566	0.030337	0.604847
gene2061	gene2061	kdpA	gi 57650036 ref NC_002951.2 :2131773-2133450	q1	q2	OK	2.49847	41.7098	4.06127	-2.4518	0.014214	0.500083
gene2062	gene2062	kdpF	gi 57650036 ref NC_002951.2 :2133473-2133584	q1	q2	NOTEST 0		0	0	0	1	1
gene2063	gene2063	kdpD	gi 57650036 ref NC_002951.2 :2133721-2137074	q1	q2	OK	6.22985	27.4417	2.1391	-1.36077	0.173585	0.842707
gene2064	gene2064	kdpE	gi 57650036 ref NC_002951.2 :2133721-2137074	q1	q2	OK	6.33033	37.6601	2.57268	-0.78794	0.43073	0.956269
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	q1	q2	OK	285.486	52.097	-2.45415	2.17041	0.029976	0.604847
gene2066	gene2066	murF	gi 57650036 ref NC_002951.2 :2139479-2140838	q1	q2	OK	122.85	88.5481	-0.472362	0.465667	0.641454	0.978191
gene2067	gene2067	ddl	gi 57650036 ref NC_002951.2 :2140852-2141923	q1	q2	OK	128.808	83.2442	-0.629798	0.613579	0.539493	0.965252
gene2068	gene2068	ftsW	gi 57650036 ref NC_002951.2 :2142240-2143443	q1	q2	OK	140.891	74.1316	-0.926416	0.899859	0.368195	0.93284
gene2069	gene2069	SACOL2076	gi 57650036 ref NC_002951.2 :2143706-2143844	q1	q2	OK	87731.3	9073.56	-3.27335	2.52426	0.011594	0.500083
gene207	gene207	SACOL0213	gi 57650036 ref NC_002951.2 :251818-253030	q1	q2	OK	135.069	90.5201	-0.577392	0.568936	0.5694	0.976548
gene2070	gene2070	SACOL2077	gi 57650036 ref NC_002951.2 :2143971-2144181	q1	q2	OK	22.322	73.8246	1.72563	-0.75903	0.447836	0.956269
gene2071	gene2071	SACOL2078	gi 57650036 ref NC_002951.2 :2144192-2144486	q1	q2	OK	5.1173	15.1363	1.56456	-0.67025	0.502699	0.963286
gene2072	gene2072	cls2	gi 57650036 ref NC_002951.2 :2144651-2146136	q1	q2	OK	39.964	51.2658	0.359295	-0.31797	0.750505	0.978191
gene2073	gene2073	SACOL2080	gi 57650036 ref NC_002951.2 :2146163-2146811	q1	q2	OK	52.8471	39.5015	-0.419916	0.259443	0.795293	0.983954
gene2074	gene2074	SACOL2081	gi 57650036 ref NC_002951.2 :2146985-2147078	q1	q2	NOTEST 0		0	0	0	1	1

gene2075	gene2075	SACOL2082	gi 57650036 ref NC_002951.2 :2147623-2148496	q1	q2	OK	474.967	110.334	-2.10596	1.91635	0.055321	0.696046
gene2076	gene2076	thiE	gi 57650036 ref NC_002951.2 :2148581-2149223	q1	q2	OK	3.57366	25.0685	2.8104	-1.38514	0.166009	0.842707
gene2077	gene2077	thiM	gi 57650036 ref NC_002951.2 :2149224-2151512	q1	q2	OK	5.63697	24.6186	2.12676	-0.82322	0.410383	0.940909
gene2078	gene2078	thiD2	gi 57650036 ref NC_002951.2 :2149224-2151512	q1	q2	OK	4.22003	65.3396	3.95263	-1.61386	0.106559	0.818963
gene2079	gene2079	SACOL2086	gi 57650036 ref NC_002951.2 :2149224-2151512	q1	q2	OK	2.7479	26.4448	3.26658	-0.90301	0.366523	0.93284
gene208	gene208	SACOL0214	gi 57650036 ref NC_002951.2 :253141-254647	q1	q2	OK	146.412	82.4639	-0.828195	0.802729	0.422131	0.949284
gene2080	gene2080	SACOL2088	gi 57650036 ref NC_002951.2 :2151897-2152593	q1	q2	OK	109.424	52.683	-1.05452	0.778001	0.436568	0.956269
gene2081	gene2081	SACOL2089	gi 57650036 ref NC_002951.2 :2152981-2153377	q1	q2	OK	6.13747	32.6793	2.41266	-1.13623	0.255862	0.890872
gene2082	gene2082	ywpF	gi 57650036 ref NC_002951.2 :2153570-2154011	q1	q2	OK	103.835	38.03	-1.44909	0.84658	0.397229	0.940909
gene2083	gene2083	fabZ	gi 57650036 ref NC_002951.2 :2154069-2154510	q1	q2	OK	272.323	126.767	-1.10314	0.861882	0.388752	0.940909
gene2084	gene2084	murAA	gi 57650036 ref NC_002951.2 :2154543-2155809	q1	q2	OK	203.072	229.257	0.174979	-0.16039	0.872577	0.984151
gene2085	gene2085	SACOL2093	gi 57650036 ref NC_002951.2 :2155919-2156153	q1	q2	OK	269.675	231.115	-0.222612	0.125334	0.900259	0.984151
gene2086	gene2086	atpC	gi 57650036 ref NC_002951.2 :2156714-2157119	q1	q2	OK	1104.48	110.226	-3.32483	2.4962	0.012553	0.500083
gene2087	gene2087	atpD	gi 57650036 ref NC_002951.2 :2157138-2158551	q1	q2	OK	415.751	119.522	-1.79844	1.56708	0.117095	0.838847
gene2088	gene2088	atpG	gi 57650036 ref NC_002951.2 :2158572-2159439	q1	q2	OK	420.634	100.958	-2.05881	1.88249	0.05977	0.706192
gene2089	gene2089	atpA	gi 57650036 ref NC_002951.2 :2159469-2160978	q1	q2	OK	442.364	121.544	-1.86375	1.59938	0.109737	0.829015
gene209	gene209	SACOL0215	gi 57650036 ref NC_002951.2 :254672-256244	q1	q2	OK	476.824	235.183	-1.01967	0.823882	0.410007	0.940909
gene2090	gene2090	atpH	gi 57650036 ref NC_002951.2 :2160999-2162060	q1	q2	OK	344.909	79.5254	-2.11673	1.40114	0.161172	0.842707
gene2091	gene2091	atpF	gi 57650036 ref NC_002951.2 :2160999-2162060	q1	q2	OK	274.067	97.753	-1.48732	0.955683	0.339232	0.931394
gene2092	gene2092	atpE	gi 57650036 ref NC_002951.2 :2162257-2162470	q1	q2	OK	1342.66	146.836	-3.19282	1.9015	0.057236	0.696046
gene2093	gene2093	atpB	gi 57650036 ref NC_002951.2 :2162512-2163241	q1	q2	OK	436.167	112.537	-1.95448	1.79283	0.073	0.754145
gene2094	gene2094	SACOL2102	gi 57650036 ref NC_002951.2 :2163261-2163615	q1	q2	OK	375.599	90.5986	-2.05163	1.39771	0.1622	0.842707
gene2095	gene2095	SACOL2103	gi 57650036 ref NC_002951.2 :2163781-2164909	q1	q2	OK	399.15	175	-1.18957	1.06379	0.287423	0.921417
gene2096	gene2096	upp	gi 57650036 ref NC_002951.2 :2164932-2165562	q1	q2	OK	252.286	103.436	-1.28632	1.1421	0.253414	0.889805
gene2097	gene2097	glyA	gi 57650036 ref NC_002951.2 :2165589-2166828	q1	q2	OK	385.809	212.615	-0.85964	0.747133	0.454983	0.956269
gene2098	gene2098	SACOL2106	gi 57650036 ref NC_002951.2 :2166854-2167379	q1	q2	OK	277.015	154.602	-0.841404	0.768173	0.442384	0.956269
gene2099	gene2099	SACOL2107	gi 57650036 ref NC_002951.2 :2167485-2168957	q1	q2	OK	68.1663	27.5961	-1.30459	0.462321	0.643851	0.978191
gene21	gene21	yycG	gi 57650036 ref NC_002951.2 :25665-28819	q1	q2	OK	201.029	125.15	-0.683737	0.449438	0.653116	0.978191
gene210	gene210	SACOL0216	gi 57650036 ref NC_002951.2 :256690-257833	q1	q2	OK	21.6067	44.6618	1.04756	-0.7168	0.473498	0.956269
gene2100	gene2100	SACOL2108	gi 57650036 ref NC_002951.2 :2167485-2168957	q1	q2	OK	25.9178	51.6511	0.994854	-0.64511	0.518858	0.963286
gene2101	gene2101	SACOL2109	gi 57650036 ref NC_002951.2 :2169031-2170931	q1	q2	OK	129.541	44.8824	-1.52919	1.0167	0.309298	0.927653
gene2102	gene2102	prfA	gi 57650036 ref NC_002951.2 :2169031-2170931	q1	q2	OK	74.3384	44.4141	-0.743092	0.506211	0.612709	0.978191
gene2103	gene2103	tdk	gi 57650036 ref NC_002951.2 :2170931-2171531	q1	q2	OK	74.9073	63.789	-0.2318	0.153512	0.877994	0.984151

gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	q1	q2	OK	1011.27	51.5762	-4.29332	2.58209	0.00982	0.499638
gene2105	gene2105	rho	gi 57650036 ref NC_002951.2 :2172249-2173566	q1	q2	OK	208.642	78.1365	-1.41696	1.34469	0.178726	0.842707
gene2106	gene2106	SACOL2114	gi 57650036 ref NC_002951.2 :2173812-2175240	q1	q2	OK	293.342	399.123	0.444248	-0.36287	0.716705	0.978191
gene2107	gene2107	SACOL2115	gi 57650036 ref NC_002951.2 :2175477-2175813	q1	q2	OK	1522.22	907.353	-0.746436	0.721743	0.470453	0.956269
gene2108	gene2108	murAB	gi 57650036 ref NC_002951.2 :2175901-2177161	q1	q2	OK	157.05	98.5482	-0.672322	0.657707	0.510727	0.963286
gene2109	gene2109	fbaA	gi 57650036 ref NC_002951.2 :2177626-2178487	q1	q2	OK	312.664	94.0643	-1.7329	1.61291	0.106764	0.818963
gene211	gene211	SACOL0217	gi 57650036 ref NC_002951.2 :258146-259622	q1	q2	OK	21.3195	28.9152	0.439652	-0.30533	0.760113	0.978191
gene2110	gene2110	SACOL2118	gi 57650036 ref NC_002951.2 :2178704-2179226	q1	q2	OK	22.183	32.6881	0.559311	-0.29938	0.764651	0.978191
gene2111	gene2111	pyrG	gi 57650036 ref NC_002951.2 :2179334-2180945	q1	q2	OK	93.2999	48.0008	-0.958818	0.923048	0.355982	0.93284
gene2112	gene2112	rpoE	gi 57650036 ref NC_002951.2 :2181280-2181811	q1	q2	OK	225.078	97.6535	-1.20468	0.966556	0.333766	0.927653
gene2113	gene2113	SACOL2121	gi 57650036 ref NC_002951.2 :2181922-2182783	q1	q2	OK	54.289	33.9504	-0.677233	0.454566	0.649422	0.978191
gene2114	gene2114	SACOL2122	gi 57650036 ref NC_002951.2 :2183206-2184010	q1	q2	OK	45.2675	34.3445	-0.398396	0.254599	0.799032	0.984151
gene2115	gene2115	SACOL2123	gi 57650036 ref NC_002951.2 :2184139-2184811	q1	q2	OK	68.1206	45.3361	-0.587431	0.384572	0.700554	0.978191
gene2116	gene2116	SACOL2124	gi 57650036 ref NC_002951.2 :2185209-2187587	q1	q2	OK	125.688	63.4055	-0.987172	0.63023	0.528544	0.963286
gene2117	gene2117	SACOL2125	gi 57650036 ref NC_002951.2 :2185209-2187587	q1	q2	OK	79.0962	114.986	0.539777	-0.35392	0.723397	0.978191
gene2118	gene2118	luxS	gi 57650036 ref NC_002951.2 :2187897-2188368	q1	q2	OK	285.393	103.319	-1.46585	1.14322	0.252948	0.889805
gene2119	gene2119	SACOL2127	gi 57650036 ref NC_002951.2 :2188519-2188870	q1	q2	OK	677.531	102.245	-2.72825	1.97185	0.048626	0.673473
gene212	gene212	SACOL0218	gi 57650036 ref NC_002951.2 :259819-260176	q1	q2	OK	9.35645	26.0468	1.47707	-0.68672	0.49226	0.963286
gene2120	gene2120	pdp	gi 57650036 ref NC_002951.2 :2188883-2190185	q1	q2	OK	196.689	120.238	-0.710018	0.678385	0.497527	0.963286
gene2121	gene2121	deoC2	gi 57650036 ref NC_002951.2 :2190463-2191126	q1	q2	OK	134.17	112.825	-0.249985	0.220654	0.825362	0.984151
gene2122	gene2122	deoD	gi 57650036 ref NC_002951.2 :2191440-2192151	q1	q2	OK	233.149	51.987	-2.16503	1.68677	0.091649	0.784058
gene2123	gene2123	SACOL2131	gi 57650036 ref NC_002951.2 :2192271-2192715	q1	q2	OK	1510.58	2017.11	0.417183	-0.34101	0.733097	0.978191
gene2124	gene2124	SACOL2132	gi 57650036 ref NC_002951.2 :2192914-2193328	q1	q2	OK	46.8371	47.947	0.033789	-0.01848	0.985255	0.997969
gene2125	gene2125	SACOL2133	gi 57650036 ref NC_002951.2 :2193785-2195159	q1	q2	OK	98.4095	49.8352	-0.981634	0.9249	0.355018	0.93284
gene2126	gene2126	SACOL2134	gi 57650036 ref NC_002951.2 :2195830-2196061	q1	q2	OK	73.0536	46.9548	-0.637682	0.299018	0.764926	0.978191
gene2127	gene2127	manA1	gi 57650036 ref NC_002951.2 :2196091-2197030	q1	q2	OK	89.8725	61.8759	-0.538501	0.465659	0.641459	0.978191
gene2128	gene2128	SACOL2136	gi 57650036 ref NC_002951.2 :2197464-2198130	q1	q2	OK	216.307	323.259	0.57961	-0.56747	0.570396	0.976548
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	q1	q2	OK	374.111	54.9188	-2.76809	1.68955	0.091115	0.784058
gene213	gene213	SACOL0219	gi 57650036 ref NC_002951.2 :260332-260506	q1	q2	NOTEST 0		0	0	0	1	1
gene2130	gene2130	SACOL2138	gi 57650036 ref NC_002951.2 :2198603-2199584	q1	q2	OK	269.332	41.1536	-2.71029	2.15028	0.031533	0.604847
gene2131	gene2131	SACOL2139	gi 57650036 ref NC_002951.2 :2199793-2200941	q1	q2	NOTEST 0		0	0	0	1	1
gene2132	gene2132	SACOL2140	gi 57650036 ref NC_002951.2 :2199793-2200941	q1	q2	OK	1039.47	145.19	-2.83984	2.36452	0.018054	0.500083
gene2133	gene2133	SACOL2141	gi 57650036 ref NC_002951.2 :2201903-2202107	q1	q2	OK	0	74.4326	1.79769e+30	1.79769e+	0.173559	0.842707

gene2134	gene2134	SACOL2142	gi 57650036 ref NC_002951.2 :2202165-2203302	q1	q2	OK	20.8132	37.7473	0.858877	-0.56718	0.570594	0.976548
gene2135	gene2135	SACOL2143	gi 57650036 ref NC_002951.2 :2204387-2205257	q1	q2	OK	87.2392	85.7626	-0.0246278	0.021915	0.982516	0.997969
gene2136	gene2136	SACOL2144	gi 57650036 ref NC_002951.2 :2205312-2206095	q1	q2	OK	19.0922	44.1684	1.21003	-0.7235	0.469372	0.956269
gene2137	gene2137	glmS	gi 57650036 ref NC_002951.2 :2206326-2208132	q1	q2	OK	359.337	48.5472	-2.88788	2.48065	0.013114	0.500083
gene2138	gene2138	SACOL2146	gi 57650036 ref NC_002951.2 :2208812-2210351	q1	q2	OK	13.6405	30.9991	1.18433	-0.79769	0.425052	0.951235
gene2139	gene2139	SACOL2147	gi 57650036 ref NC_002951.2 :2210385-2212518	q1	q2	OK	31.2117	50.1575	0.684377	-0.64486	0.519019	0.963286
gene214	gene214	SACOL0220	gi 57650036 ref NC_002951.2 :260531-261677	q1	q2	OK	103.745	71.7189	-0.532622	0.514041	0.607224	0.978191
gene2140	gene2140	SACOL2148	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	126.866	198.02	0.642341	-0.33969	0.73409	0.978191
gene2141	gene2141	mtlD	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	78.8261	121.603	0.625437	-0.51356	0.607562	0.978191
gene2142	gene2142	fmtB	gi 57650036 ref NC_002951.2 :2214388-2221825	q1	q2	OK	2.81316	34.7171	3.62538	-2.61161	0.009012	0.498321
gene2143	gene2143	glmM	gi 57650036 ref NC_002951.2 :2222101-2223457	q1	q2	OK	201.645	115.425	-0.804865	0.763486	0.445174	0.956269
gene2144	gene2144	SACOL2152	gi 57650036 ref NC_002951.2 :2223483-2224416	q1	q2	OK	67.4475	46.7429	-0.52902	0.405099	0.685404	0.978191
gene2145	gene2145	SACOL2153	gi 57650036 ref NC_002951.2 :2224417-2225227	q1	q2	OK	127.492	77.2938	-0.721981	0.640279	0.521991	0.963286
gene2146	gene2146	rocF	gi 57650036 ref NC_002951.2 :2225415-2226324	q1	q2	OK	676.9	252.636	-1.42188	1.23332	0.217455	0.850298
gene2147	gene2147	SACOL2155	gi 57650036 ref NC_002951.2 :2226549-2227752	q1	q2	OK	0.654291	9.21468	3.81593	-1.78505	0.074253	0.754145
gene2149	gene2149	SACOL_tRNA	gi 57650036 ref NC_002951.2 :2228058-2228133	q1	q2	NOTEST 0		0	0	0	1	1
gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	q1	q2	OK	374.626	41.3615	-3.17909	2.45501	0.014088	0.500083
gene2150	gene2150	SACOL_tRNA	gi 57650036 ref NC_002951.2 :2228142-2228226	q1	q2	NOTEST 0		0	0	0	1	1
gene2151	gene2151	SACOL_tRNA	gi 57650036 ref NC_002951.2 :2228255-2228331	q1	q2	NOTEST 0		0	0	0	1	1
gene2152	gene2152	SACOL_tRNA	gi 57650036 ref NC_002951.2 :2228338-2228410	q1	q2	NOTEST 0		0	0	0	1	1
gene2153	gene2153	SACOL_tRNA	gi 57650036 ref NC_002951.2 :2228411-2228486	q1	q2	NOTEST 0		0	0	0	1	1
gene2154	gene2154	rffF	gi 57650036 ref NC_002951.2 :2228496-2228611	q1	q2	OK	240382	221072	-0.120815	0.114489	0.90885	0.984151
gene2155	gene2155	rrfF	gi 57650036 ref NC_002951.2 :2228683-2231606	q1	q2	OK	43134.5	22925	-0.911919	1.34668	0.178084	0.842707
gene2156	gene2156	rrsF	gi 57650036 ref NC_002951.2 :2232152-2233707	q1	q2	OK	13294.5	6685.64	-0.991694	0.780934	0.434841	0.956269
gene2157	gene2157	SACOL2156	gi 57650036 ref NC_002951.2 :2234162-2235227	q1	q2	OK	368.108	227.126	-0.696636	0.626365	0.531075	0.963286
gene2158	gene2158	SACOL2157	gi 57650036 ref NC_002951.2 :2235374-2236817	q1	q2	OK	88.6369	67.2236	-0.398939	0.392995	0.694323	0.978191
gene2159	gene2159	SACOL2158	gi 57650036 ref NC_002951.2 :2237138-2237612	q1	q2	OK	252.185	69.2578	-1.86443	1.3506	0.176824	0.842707
gene216	gene216	SACOL0223	gi 57650036 ref NC_002951.2 :263370-263496	q1	q2	OK	0	71.7868	1.79769e+308	1.79769e+	0.207933	0.842707
gene2160	gene2160	SACOL2159	gi 57650036 ref NC_002951.2 :2237710-2239054	q1	q2	OK	49.1877	36.4771	-0.431307	0.354979	0.722605	0.978191
gene2161	gene2161	SACOL2160	gi 57650036 ref NC_002951.2 :2239230-2239914	q1	q2	OK	212.026	120.32	-0.81736	0.771944	0.440148	0.956269
gene2162	gene2162	SACOL2161	gi 57650036 ref NC_002951.2 :2239932-2241120	q1	q2	OK	225.255	167.814	-0.424697	0.400626	0.688696	0.978191
gene2163	gene2163	SACOL2162	gi 57650036 ref NC_002951.2 :2241163-2241679	q1	q2	OK	140.932	58.9469	-1.25751	0.853438	0.393417	0.940909
gene2164	gene2164	SACOL2163	gi 57650036 ref NC_002951.2 :2241856-2242117	q1	q2	OK	3481.42	941.418	-1.88677	1.78416	0.074398	0.754145

gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	q1	q2	OK	17.3132	43.7381	1.33701	-0.94338	0.345487	0.93284
gene2166	gene2166	SACOL2165	gi 57650036 ref NC_002951.2 :2243854-2245851	q1	q2	OK	9.45657	26.4662	1.48476	-0.70618	0.480077	0.957466
gene2167	gene2167	SACOL2166	gi 57650036 ref NC_002951.2 :2243854-2245851	q1	q2	OK	6.34154	34.4535	2.44175	-1.09789	0.272254	0.906044
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	q1	q2	OK	21.0683	27.6846	0.394011	-0.23994	0.810377	0.984151
gene2169	gene2169	SACOL2168	gi 57650036 ref NC_002951.2 :2247237-2248308	q1	q2	OK	21.4259	39.9572	0.899097	-0.58916	0.555752	0.976548
gene217	gene217	SACOL0224	gi 57650036 ref NC_002951.2 :263522-265052	q1	q2	OK	5.2322	56.2966	3.42756	-2.21413	0.02682	0.604847
gene2170	gene2170	SACOL2169	gi 57650036 ref NC_002951.2 :2248314-2251252	q1	q2	OK	16.0092	51.8371	1.69508	-1.15007	0.250114	0.889805
gene2171	gene2171	SACOL2170	gi 57650036 ref NC_002951.2 :2248314-2251252	q1	q2	OK	4.84263	53.5865	3.46801	-1.21492	0.224398	0.854232
gene2172	gene2172	SACOL2171	gi 57650036 ref NC_002951.2 :2251353-2253330	q1	q2	OK	18.7608	32.6167	0.797894	-0.62277	0.533434	0.963286
gene2173	gene2173	SACOL2172	gi 57650036 ref NC_002951.2 :2253785-2255410	q1	q2	OK	0.762111	22.4857	4.88286	-2.542	0.011022	0.500083
gene2174	gene2174	SACOL2173	gi 57650036 ref NC_002951.2 :2255445-2255955	q1	q2	OK	9590.38	4933.54	-0.958965	0.693329	0.488103	0.963286
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	q1	q2	OK	1910.54	4340.91	1.18402	-1.10875	0.267538	0.902533
gene2176	gene2176	SACOL2175	gi 57650036 ref NC_002951.2 :2256269-2256818	q1	q2	OK	2220.37	2013.98	-0.140754	0.106677	0.915045	0.984151
gene2177	gene2177	opuD2	gi 57650036 ref NC_002951.2 :2256980-2258543	q1	q2	OK	551.155	505.348	-0.125181	0.095044	0.92428	0.986264
gene2178	gene2178	SACOL2177	gi 57650036 ref NC_002951.2 :2258849-2259851	q1	q2	OK	55.7061	76.5874	0.459273	-0.38818	0.697885	0.978191
gene2179	gene2179	SACOL2178	gi 57650036 ref NC_002951.2 :2260084-2261086	q1	q2	OK	351.525	266.38	-0.400141	0.362188	0.717212	0.978191
gene218	gene218	SACOL0225	gi 57650036 ref NC_002951.2 :265413-266349	q1	q2	OK	29.0842	101.948	1.80953	-1.33504	0.181864	0.842707
gene2180	gene2180	SACOL2179	gi 57650036 ref NC_002951.2 :2261368-2262238	q1	q2	OK	113.014	188.124	0.73518	-0.71322	0.47571	0.956269
gene2181	gene2181	lacG	gi 57650036 ref NC_002951.2 :2262503-2263916	q1	q2	OK	13.4693	25.4157	0.916049	-0.58062	0.561494	0.976548
gene2182	gene2182	lacE	gi 57650036 ref NC_002951.2 :2263933-2265963	q1	q2	OK	5.85648	33.7621	2.5273	-1.35605	0.175085	0.842707
gene2183	gene2183	lacF	gi 57650036 ref NC_002951.2 :2263933-2265963	q1	q2	OK	4.37768	53.0106	3.59804	-0.55391	0.579638	0.976548
gene2184	gene2184	lacD	gi 57650036 ref NC_002951.2 :2265984-2266965	q1	q2	OK	7.61461	27.3916	1.84689	-1.0312	0.302445	0.927424
gene2185	gene2185	lacC	gi 57650036 ref NC_002951.2 :2266968-2267901	q1	q2	OK	6.92542	59.2733	3.09741	-1.85158	0.064086	0.722927
gene2186	gene2186	lacB	gi 57650036 ref NC_002951.2 :2267913-2268429	q1	q2	OK	8.76262	27.255	1.63709	-0.81718	0.413827	0.944754
gene2187	gene2187	SACOL2186	gi 57650036 ref NC_002951.2 :2268444-2268873	q1	q2	OK	6.21407	23.5863	1.92434	-0.90581	0.365036	0.93284
gene2188	gene2188	SACOL2187	gi 57650036 ref NC_002951.2 :2268887-2269004	q1	q2	OK	0	154.533	1.79769e+30	1.79769e+	0.207933	0.842707
gene2189	gene2189	lacR	gi 57650036 ref NC_002951.2 :2269240-2269996	q1	q2	OK	39.3184	51.2233	0.381595	-0.24675	0.805103	0.984151
gene219	gene219	SACOL0228	gi 57650036 ref NC_002951.2 :266687-269236	q1	q2	OK	2.50843	27.9233	3.47661	-2.0285	0.042509	0.649031
gene2190	gene2190	SACOL2189	gi 57650036 ref NC_002951.2 :2270246-2270978	q1	q2	OK	44.9559	55.7689	0.310951	-0.20439	0.838047	0.984151
gene2191	gene2191	SACOL2190	gi 57650036 ref NC_002951.2 :2271268-2271877	q1	q2	OK	6.09655	24.7787	2.02304	-1.01472	0.310238	0.927653
gene2192	gene2192	SACOL2191	gi 57650036 ref NC_002951.2 :2272138-2272264	q1	q2	OK	0	71.7868	1.79769e+30	1.79769e+	0.207933	0.842707
gene2193	gene2193	SACOL2192	gi 57650036 ref NC_002951.2 :2272483-2273332	q1	q2	OK	303.294	134.918	-1.16864	1.12786	0.259379	0.898005
gene2194	gene2194	SACOL2193	gi 57650036 ref NC_002951.2 :2273401-2273818	q1	q2	OK	17.5735	45.9811	1.38764	-0.71125	0.476932	0.956269

gene2195	gene2195	hysA	gi 57650036 ref NC_002951.2 :2274225-2276649	q1	q2	OK	3.88302	29.0812	2.90484	-1.90353	0.056971	0.696046
gene2196	gene2196	SACOL2195	gi 57650036 ref NC_002951.2 :2276708-2277563	q1	q2	OK	41.2728	95.0608	1.20366	-0.90798	0.363889	0.93284
gene2197	gene2197	SACOL2196	gi 57650036 ref NC_002951.2 :2277773-2278589	q1	q2	OK	29.2064	36.3626	0.316168	-0.19473	0.845607	0.984151
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	q1	q2	OK	390.856	358.155	-0.126052	0.122999	0.902108	0.984151
gene2199	gene2199	budA1	gi 57650036 ref NC_002951.2 :2279671-2280376	q1	q2	OK	2.21856	37.0112	4.06026	-2.03043	0.042313	0.649031
gene22	gene22	yycH	gi 57650036 ref NC_002951.2 :25665-28819	q1	q2	OK	171.245	96.6263	-0.825573	0.408679	0.682775	0.978191
gene220	gene220	SACOL0229	gi 57650036 ref NC_002951.2 :266687-269236	q1	q2	OK	2.61809	29.9887	3.51783	-0.77053	0.440989	0.956269
gene2200	gene2200	budB	gi 57650036 ref NC_002951.2 :2280412-2282077	q1	q2	OK	8.59516	40.6934	2.2432	-1.52147	0.128141	0.842707
gene2201	gene2201	SACOL2200	gi 57650036 ref NC_002951.2 :2282356-2282452	q1	q2	NOTEST 0		0	0	0	1	1
gene2202	gene2202	SACOL2201	gi 57650036 ref NC_002951.2 :2283266-2283866	q1	q2	OK	21.5642	30.3757	0.494278	-0.27107	0.786341	0.982219
gene2203	gene2203	SACOL2202	gi 57650036 ref NC_002951.2 :2283898-2284672	q1	q2	OK	17.0759	23.9388	0.487394	-0.27255	0.7852	0.982219
gene2204	gene2204	SACOL2203	gi 57650036 ref NC_002951.2 :2284800-2285937	q1	q2	OK	24.321	38.4115	0.659335	-0.44505	0.656288	0.978191
gene2205	gene2205	SACOL2204	gi 57650036 ref NC_002951.2 :2285937-2286729	q1	q2	OK	33.0702	55.9987	0.759861	-0.4966	0.619471	0.978191
gene2206	gene2206	SACOL2205	gi 57650036 ref NC_002951.2 :2286768-2288129	q1	q2	OK	8.82663	29.8544	1.75801	-1.08317	0.278734	0.914891
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	q1	q2	OK	1206.1	96.1911	-3.6483	2.66329	0.007738	0.480028
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	q1	q2	OK	247.268	80.2634	-1.62326	1.15399	0.248504	0.889805
gene2209	gene2209	truA	gi 57650036 ref NC_002951.2 :2289762-2290566	q1	q2	OK	33.8586	46.9262	0.47087	-0.30204	0.762624	0.978191
gene221	gene221	SACOL0230	gi 57650036 ref NC_002951.2 :269258-269537	q1	q2	OK	2.9413	76.3171	4.69748	-2.11402	0.034513	0.621406
gene2210	gene2210	SACOL2209	gi 57650036 ref NC_002951.2 :2290570-2293033	q1	q2	OK	61.877	33.3335	-0.892431	0.44503	0.656298	0.978191
gene2211	gene2211	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	q1	q2	OK	46.2462	56.2205	0.281763	-0.16057	0.872431	0.984151
gene2212	gene2212	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	q1	q2	OK	44.0758	83.3561	0.919302	-0.53967	0.589423	0.978191
gene2213	gene2213	rplQ	gi 57650036 ref NC_002951.2 :2293570-2293939	q1	q2	OK	343.075	150.203	-1.19161	0.881745	0.377915	0.940261
gene2214	gene2214	rpoA	gi 57650036 ref NC_002951.2 :2293955-2294900	q1	q2	OK	483.229	178.208	-1.43914	1.30267	0.192689	0.842707
gene2215	gene2215	rpsK	gi 57650036 ref NC_002951.2 :2294974-2295364	q1	q2	OK	495.228	139.591	-1.82689	1.43046	0.152585	0.842707
gene2216	gene2216	rpsM	gi 57650036 ref NC_002951.2 :2295387-2295753	q1	q2	OK	349.734	221.209	-0.660848	0.530086	0.596052	0.978191
gene2217	gene2217	rpmJ	gi 57650036 ref NC_002951.2 :2295775-2295889	q1	q2	OK	2871.4	865.044	-1.73091	0.715259	0.474449	0.956269
gene2218	gene2218	infA	gi 57650036 ref NC_002951.2 :2295920-2296139	q1	q2	OK	499.043	213.629	-1.22405	0.691031	0.489546	0.963286
gene2219	gene2219	adk	gi 57650036 ref NC_002951.2 :2296331-2296979	q1	q2	OK	349.798	120.321	-1.53963	1.42222	0.154962	0.842707
gene222	gene222	SACOL0231	gi 57650036 ref NC_002951.2 :269601-269736	q1	q2	NOTEST 0		0	0	0	1	1
gene2220	gene2220	secY	gi 57650036 ref NC_002951.2 :2296995-2298728	q1	q2	OK	669.336	168.594	-1.98917	1.36969	0.170783	0.842707
gene2221	gene2221	rplO	gi 57650036 ref NC_002951.2 :2296995-2298728	q1	q2	OK	865.948	363.943	-1.25057	0.50006	0.617033	0.978191
gene2222	gene2222	rpmD	gi 57650036 ref NC_002951.2 :2298744-2298924	q1	q2	OK	1530.63	162.18	-3.23846	1.71086	0.087107	0.771794
gene2223	gene2223	rpsE	gi 57650036 ref NC_002951.2 :2298940-2299441	q1	q2	OK	423.252	139.71	-1.59909	1.40412	0.160285	0.842707

gene2224	gene2224	rplR	gi 57650036 ref NC_002951.2 :2299461-2299821	q1	q2	OK	1007.21	245.948	-2.03394	1.7689	0.07691	0.758524
gene2225	gene2225	rplF	gi 57650036 ref NC_002951.2 :2299851-2300388	q1	q2	OK	652.796	112.994	-2.53039	2.11157	0.034723	0.621406
gene2226	gene2226	rpsH	gi 57650036 ref NC_002951.2 :2300412-2300811	q1	q2	OK	383.923	99.609	-1.94647	1.43292	0.151881	0.842707
gene2227	gene2227	rpsN	gi 57650036 ref NC_002951.2 :2300842-2301028	q1	q2	OK	155.205	74.3244	-1.06227	0.482591	0.629386	0.978191
gene2228	gene2228	rplE	gi 57650036 ref NC_002951.2 :2301050-2301590	q1	q2	OK	407.681	100.22	-2.02427	1.67173	0.094578	0.794532
gene2229	gene2229	rplX	gi 57650036 ref NC_002951.2 :2301616-2301934	q1	q2	OK	408.293	253.365	-0.688383	0.51085	0.609456	0.978191
gene223	gene223	SACOL0232	gi 57650036 ref NC_002951.2 :269763-271023	q1	q2	OK	3.50374	35.1047	3.3247	-1.90191	0.057183	0.696046
gene2230	gene2230	rplN	gi 57650036 ref NC_002951.2 :2301969-2302338	q1	q2	OK	501.64	120.729	-2.05488	1.53238	0.12543	0.842707
gene2231	gene2231	rpsQ	gi 57650036 ref NC_002951.2 :2302369-2302633	q1	q2	OK	576.766	238.679	-1.27291	0.843279	0.399073	0.940909
gene2232	gene2232	rpmC	gi 57650036 ref NC_002951.2 :2302656-2303290	q1	q2	OK	461.322	113.813	-2.01911	0.491547	0.62304	0.978191
gene2233	gene2233	rplP	gi 57650036 ref NC_002951.2 :2302656-2303290	q1	q2	OK	825.636	159.923	-2.36813	1.94966	0.051216	0.6872
gene2234	gene2234	rpsC	gi 57650036 ref NC_002951.2 :2303292-2303946	q1	q2	OK	570.733	116.1	-2.29745	2.0406	0.04129	0.643773
gene2235	gene2235	rplV	gi 57650036 ref NC_002951.2 :2303969-2304323	q1	q2	OK	377.19	128.194	-1.55696	1.10953	0.267203	0.902533
gene2236	gene2236	rpsS	gi 57650036 ref NC_002951.2 :2304351-2304630	q1	q2	OK	502.962	162.446	-1.63048	1.05693	0.290542	0.923259
gene2237	gene2237	rplB	gi 57650036 ref NC_002951.2 :2304696-2305530	q1	q2	OK	605.047	111.588	-2.43887	2.16646	0.030276	0.604847
gene2238	gene2238	rplW	gi 57650036 ref NC_002951.2 :2305562-2306461	q1	q2	OK	245.387	170.894	-0.521963	0.168879	0.865892	0.984151
gene2239	gene2239	rplD	gi 57650036 ref NC_002951.2 :2305562-2306461	q1	q2	OK	464.654	164.444	-1.49856	1.31184	0.189573	0.842707
gene224	gene224	gutB	gi 57650036 ref NC_002951.2 :271040-272096	q1	q2	OK	5.13225	37.9823	2.88767	-1.64391	0.100196	0.815096
gene2240	gene2240	rplC	gi 57650036 ref NC_002951.2 :2306487-2307150	q1	q2	OK	409.803	128.88	-1.66891	1.55658	0.119571	0.842061
gene2241	gene2241	rpsJ	gi 57650036 ref NC_002951.2 :2307177-2307486	q1	q2	OK	316.519	212.87	-0.572319	0.383168	0.701596	0.978191
gene2242	gene2242	SACOL2241	gi 57650036 ref NC_002951.2 :2307842-2308232	q1	q2	OK	407.61	425.906	0.0633427	-0.0609	0.95144	0.988316
gene2243	gene2243	SACOL2242	gi 57650036 ref NC_002951.2 :2308423-2309758	q1	q2	OK	168.938	49.0465	-1.78427	1.63085	0.102921	0.816291
gene2244	gene2244	topB	gi 57650036 ref NC_002951.2 :2309870-2312006	q1	q2	OK	76.3991	60.4102	-0.338762	0.333041	0.739103	0.978191
gene2245	gene2245	SACOL2245	gi 57650036 ref NC_002951.2 :2312192-2313080	q1	q2	OK	45.9743	48.0775	0.0645329	-0.0449	0.964184	0.989588
gene2246	gene2246	SACOL2246	gi 57650036 ref NC_002951.2 :2313260-2314124	q1	q2	OK	91.0584	73.6487	-0.306133	0.265156	0.790889	0.982405
gene2247	gene2247	SACOL2247	gi 57650036 ref NC_002951.2 :2314240-2314372	q1	q2	OK	308.285	0	-1.79769e+30	-1.79769e+30	0.201826	0.842707
gene2248	gene2248	SACOL2248	gi 57650036 ref NC_002951.2 :2314542-2315451	q1	q2	OK	28.36	46.2511	0.705631	-0.46173	0.644273	0.978191
gene2249	gene2249	SACOL2250	gi 57650036 ref NC_002951.2 :2315583-2315748	q1	q2	OK	202.09	32.7922	-2.62357	1.10284	0.270098	0.905515
gene225	gene225	SACOL0234	gi 57650036 ref NC_002951.2 :272097-272244	q1	q2	NOTEST 0		0	0	0	1	1
gene2250	gene2250	SACOL2251	gi 57650036 ref NC_002951.2 :2315992-2316310	q1	q2	OK	112.489	113.04	0.0070522	-0.00403	0.996781	0.998672
gene2251	gene2251	SACOL2252	gi 57650036 ref NC_002951.2 :2316496-2319664	q1	q2	OK	113.825	61.6438	-0.884788	0.79316	0.427684	0.954536
gene2252	gene2252	femX	gi 57650036 ref NC_002951.2 :2319780-2321046	q1	q2	OK	119.671	53.7306	-1.15525	1.08241	0.27907	0.914891
gene2253	gene2253	SACOL2255	gi 57650036 ref NC_002951.2 :2321677-2322442	q1	q2	OK	16.5706	52.2458	1.65668	-0.99038	0.321987	0.927653

gene2254	gene2254	SACOL2256	gi 57650036 ref NC_002951.2 :2322603-2324248	q1	q2	OK	4.8979	25.3533	2.37194	-0.69053	0.48986	0.963286
gene2255	gene2255	SACOL2257	gi 57650036 ref NC_002951.2 :2322603-2324248	q1	q2	OK	2.16111	28.0181	3.69651	-1.74606	0.0808	0.761588
gene2256	gene2256	sarV	gi 57650036 ref NC_002951.2 :2324349-2324700	q1	q2	OK	6.4991	29.4817	2.18151	-1.00077	0.316938	0.927653
gene2257	gene2257	SACOL2259	gi 57650036 ref NC_002951.2 :2324825-2324996	q1	q2	OK	0	8.91167	1.79769e+30	1.79769e+	0.207933	0.842707
gene2258	gene2258	SACOL2260	gi 57650036 ref NC_002951.2 :2325052-2325196	q1	q2	OK	0	25.4355	1.79769e+30	1.79769e+	0.207933	0.842707
gene2259	gene2259	moaA	gi 57650036 ref NC_002951.2 :2325390-2326413	q1	q2	OK	109.02	89.7591	-0.280461	0.272421	0.785298	0.982219
gene226	gene226	SACOL0235	gi 57650036 ref NC_002951.2 :272267-273311	q1	q2	OK	5.46768	67.7017	3.63019	-2.21815	0.026545	0.604847
gene2260	gene2260	mobA	gi 57650036 ref NC_002951.2 :2326432-2327032	q1	q2	OK	61.2878	53.9169	-0.184863	0.117051	0.906819	0.984151
gene2261	gene2261	moaD	gi 57650036 ref NC_002951.2 :2327038-2327272	q1	q2	OK	74.9098	40.785	-0.877115	0.410948	0.68111	0.978191
gene2262	gene2262	moaE	gi 57650036 ref NC_002951.2 :2327277-2327724	q1	q2	OK	61.036	83.925	0.45944	-0.27575	0.782743	0.982219
gene2263	gene2263	mobB	gi 57650036 ref NC_002951.2 :2327737-2329479	q1	q2	OK	53.678	198.161	1.88427	-0.95028	0.34197	0.93284
gene2264	gene2264	SACOL2266	gi 57650036 ref NC_002951.2 :2327737-2329479	q1	q2	OK	53.3805	70.2094	0.395353	-0.30932	0.757075	0.978191
gene2265	gene2265	moaC	gi 57650036 ref NC_002951.2 :2329541-2330036	q1	q2	OK	169.094	74.7481	-1.17772	0.833154	0.404758	0.940909
gene2266	gene2266	moaB	gi 57650036 ref NC_002951.2 :2330037-2330544	q1	q2	OK	58.7593	66.1197	0.170264	-0.10371	0.917401	0.984151
gene2267	gene2267	SACOL2269	gi 57650036 ref NC_002951.2 :2330574-2331579	q1	q2	OK	48.3848	63.59	0.394246	-0.31246	0.754691	0.978191
gene2268	gene2268	modC	gi 57650036 ref NC_002951.2 :2331748-2332354	q1	q2	OK	93.8412	50.9068	-0.882362	0.591093	0.554458	0.976548
gene2269	gene2269	modB	gi 57650036 ref NC_002951.2 :2332354-2333026	q1	q2	OK	62.8805	50.0856	-0.328218	0.215097	0.829692	0.984151
gene227	gene227	ispD	gi 57650036 ref NC_002951.2 :273838-275573	q1	q2	OK	71.432	78.2912	0.132279	-0.07749	0.938233	0.987716
gene2270	gene2270	modA	gi 57650036 ref NC_002951.2 :2333039-2333822	q1	q2	OK	152.356	118.252	-0.365584	0.35239	0.724546	0.978191
gene2271	gene2271	fdhD	gi 57650036 ref NC_002951.2 :2334111-2334909	q1	q2	OK	292.664	146.787	-0.995524	0.96875	0.33267	0.927653
gene2272	gene2272	SACOL2274	gi 57650036 ref NC_002951.2 :2335080-2335851	q1	q2	OK	12.8771	22.9835	0.835795	-0.45588	0.648477	0.978191
gene2273	gene2273	SACOL2275	gi 57650036 ref NC_002951.2 :2335922-2336477	q1	q2	OK	10.3115	125.69	3.60754	-2.10927	0.034922	0.621406
gene2274	gene2274	SACOL2276	gi 57650036 ref NC_002951.2 :2336597-2337539	q1	q2	OK	9.81198	38.9544	1.98917	-1.16118	0.24557	0.885853
gene2275	gene2275	SACOL2277	gi 57650036 ref NC_002951.2 :2337937-2338846	q1	q2	OK	124.348	81.0122	-0.618169	0.578187	0.563138	0.976548
gene2276	gene2276	SACOL2278	gi 57650036 ref NC_002951.2 :2339059-2340214	q1	q2	OK	306.394	120.163	-1.35039	1.25522	0.2094	0.842707
gene2277	gene2277	SACOL2279	gi 57650036 ref NC_002951.2 :2340430-2341336	q1	q2	OK	10.3296	41.0392	1.99022	-1.16225	0.245133	0.885853
gene2278	gene2278	ureA	gi 57650036 ref NC_002951.2 :2341595-2341898	q1	q2	OK	4.7268	74.465	3.97763	-1.83314	0.066781	0.73141
gene2279	gene2279	ureB	gi 57650036 ref NC_002951.2 :2341911-2344034	q1	q2	OK	9.05998	25.9075	1.51579	-0.3289	0.742233	0.978191
gene228	gene228	SACOL0237	gi 57650036 ref NC_002951.2 :273838-275573	q1	q2	OK	82.7902	90.943	0.135502	-0.10823	0.913815	0.984151
gene2280	gene2280	ureC	gi 57650036 ref NC_002951.2 :2341911-2344034	q1	q2	OK	11.3071	39.6154	1.80883	-1.16833	0.242672	0.883186
gene2281	gene2281	ureE	gi 57650036 ref NC_002951.2 :2344046-2345181	q1	q2	OK	11.1491	26.1818	1.23164	-0.40247	0.687339	0.978191
gene2282	gene2282	ureF	gi 57650036 ref NC_002951.2 :2344046-2345181	q1	q2	OK	11.9076	25.8201	1.11662	-0.48239	0.629527	0.978191
gene2283	gene2283	ureG	gi 57650036 ref NC_002951.2 :2345193-2346644	q1	q2	OK	16.3721	33.7201	1.04237	-0.42627	0.669912	0.978191

gene2284	gene2284	ureD	gi 57650036 ref NC_002951.2 :2345193-2346644	q1	q2	OK	18.1079	21.3111	0.234984	-0.11111	0.91153	0.984151
gene2285	gene2285	sarR	gi 57650036 ref NC_002951.2 :2346832-2347180	q1	q2	OK	81.2995	117.506	0.531417	-0.30775	0.758273	0.978191
gene2286	gene2286	SACOL2288	gi 57650036 ref NC_002951.2 :2347607-2347934	q1	q2	OK	319.905	106.754	-1.58336	1.01825	0.30856	0.927653
gene2287	gene2287	sarY	gi 57650036 ref NC_002951.2 :2347997-2348741	q1	q2	OK	14.3661	31.4286	1.12941	-0.63151	0.527705	0.963286
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	q1	q2	OK	16.029	44.0834	1.45955	-1.13073	0.25817	0.896403
gene2289	gene2289	SACOL2291	gi 57650036 ref NC_002951.2 :2351331-2352135	q1	q2	OK	279.702	96.7427	-1.53166	1.42927	0.152926	0.842707
gene229	gene229	SACOL0238	gi 57650036 ref NC_002951.2 :275594-277289	q1	q2	OK	91.4577	45.195	-1.01694	0.977337	0.328402	0.927653
gene2290	gene2290	nhaC	gi 57650036 ref NC_002951.2 :2352567-2353968	q1	q2	OK	42.8152	55.9276	0.385438	-0.34196	0.732385	0.978191
gene2291	gene2291	SACOL2293	gi 57650036 ref NC_002951.2 :2354062-2355145	q1	q2	OK	41.7564	54.6782	0.388968	-0.30106	0.763367	0.978191
gene2292	gene2292	SACOL2294	gi 57650036 ref NC_002951.2 :2355392-2355815	q1	q2	OK	179.109	32.5263	-2.46116	1.48632	0.137193	0.842707
gene2293	gene2293	SACOL2295	gi 57650036 ref NC_002951.2 :2356051-2356552	q1	q2	OK	1748.42	713.813	-1.29243	1.10035	0.271179	0.906044
gene2294	gene2294	SACOL2296	gi 57650036 ref NC_002951.2 :2356913-2357867	q1	q2	OK	338.947	117.237	-1.53164	1.44256	0.149145	0.842707
gene2295	gene2295	SACOL2297	gi 57650036 ref NC_002951.2 :2357958-2359083	q1	q2	OK	40.5218	64.2365	0.664698	-0.53468	0.592874	0.978191
gene2296	gene2296	SACOL2298	gi 57650036 ref NC_002951.2 :2359393-2360170	q1	q2	OK	49.7919	37.149	-0.422591	0.272703	0.785082	0.982219
gene2297	gene2297	SACOL2299	gi 57650036 ref NC_002951.2 :2360191-2360443	q1	q2	OK	70.9214	50.6553	-0.485507	0.234872	0.814308	0.984151
gene2298	gene2298	SACOL2300	gi 57650036 ref NC_002951.2 :2360652-2364080	q1	q2	OK	2133.35	522.515	-2.02957	0.496959	0.619218	0.978191
gene2299	gene2299	SACOL2301	gi 57650036 ref NC_002951.2 :2360652-2364080	q1	q2	OK	690.38	648.824	-0.089563	0.059356	0.952669	0.988316
gene23	gene23	yycI	gi 57650036 ref NC_002951.2 :28819-29608	q1	q2	OK	168.495	83.2812	-1.01665	0.922316	0.356364	0.93284
gene230	gene230	SACOL0239	gi 57650036 ref NC_002951.2 :277716-278886	q1	q2	OK	87.1209	37.0207	-1.23469	1.0213	0.307111	0.927653
gene2300	gene2300	SACOL2302	gi 57650036 ref NC_002951.2 :2364681-2365635	q1	q2	OK	56.15	116.963	1.05869	-0.90705	0.364379	0.93284
gene2301	gene2301	SACOL2303	gi 57650036 ref NC_002951.2 :2365761-2366559	q1	q2	OK	95.9431	77.0844	-0.315741	0.267153	0.789352	0.982219
gene2302	gene2302	SACOL2304	gi 57650036 ref NC_002951.2 :2366943-2367636	q1	q2	OK	100.567	77.2119	-0.381266	0.299234	0.764762	0.978191
gene2303	gene2303	SACOL2305	gi 57650036 ref NC_002951.2 :2367991-2369020	q1	q2	OK	6.40505	91.674	3.83923	-0.5265	0.598544	0.978191
gene2304	gene2304	SACOL2306	gi 57650036 ref NC_002951.2 :2367991-2369020	q1	q2	OK	56.0584	36.7142	-0.610595	0.365775	0.714533	0.978191
gene2305	gene2305	SACOL2307	gi 57650036 ref NC_002951.2 :2369068-2369398	q1	q2	OK	0	55.8762	1.79769e+30	1.79769e+	0.138827	0.842707
gene2306	gene2306	SACOL2308	gi 57650036 ref NC_002951.2 :2369842-2370715	q1	q2	OK	149.332	114.312	-0.385542	0.377454	0.705836	0.978191
gene2307	gene2307	SACOL2309	gi 57650036 ref NC_002951.2 :2371101-2372481	q1	q2	OK	504.456	101.024	-2.32004	2.00511	0.044952	0.650761
gene2308	gene2308	SACOL2310	gi 57650036 ref NC_002951.2 :2372760-2373299	q1	q2	OK	132.55	49.6706	-1.41607	0.678868	0.497222	0.963286
gene2309	gene2309	SACOL2311	gi 57650036 ref NC_002951.2 :2372760-2373299	q1	q2	OK	827.761	102.911	-3.00782	0.884659	0.376341	0.940261
gene231	gene231	ispD	gi 57650036 ref NC_002951.2 :279161-280896	q1	q2	OK	99.5719	54.3689	-0.872958	0.382074	0.702407	0.978191
gene2310	gene2310	SACOL2312	gi 57650036 ref NC_002951.2 :2373394-2373586	q1	q2	OK	66.4085	92.7147	0.48143	-0.21586	0.829099	0.984151
gene2311	gene2311	SACOL2313	gi 57650036 ref NC_002951.2 :2373596-2374232	q1	q2	OK	35.2206	50.3344	0.515124	-0.31176	0.755222	0.978191
gene2312	gene2312	SACOL2314	gi 57650036 ref NC_002951.2 :2374306-2375224	q1	q2	OK	15.3805	38.9329	1.33989	-0.80782	0.419197	0.949284

gene2313	gene2313	SACOL2315	gi 57650036 ref NC_002951.2 :2375491-2376022	q1	q2	OK	31.9555	15.1636	-1.07545	0.562362	0.573869	0.976548
gene2314	gene2314	SACOL2316	gi 57650036 ref NC_002951.2 :2376087-2377692	q1	q2	OK	31.6989	55.5563	0.809516	-0.70178	0.482816	0.960232
gene2315	gene2315	SACOL2317	gi 57650036 ref NC_002951.2 :2378021-2378786	q1	q2	OK	28.0123	27.5742	-0.0227429	0.013366	0.989336	0.997969
gene2316	gene2316	SACOL2318	gi 57650036 ref NC_002951.2 :2378843-2379350	q1	q2	OK	197.371	202.593	0.037678	-0.03406	0.972828	0.993959
gene2317	gene2317	SACOL2319	gi 57650036 ref NC_002951.2 :2379516-2380830	q1	q2	OK	18.6101	49.8636	1.4219	-1.0175	0.308916	0.927653
gene2318	gene2318	SACOL2320	gi 57650036 ref NC_002951.2 :2381054-2381624	q1	q2	OK	38.2288	49.3653	0.368836	-0.21762	0.827729	0.984151
gene2319	gene2319	SACOL2321	gi 57650036 ref NC_002951.2 :2382110-2382992	q1	q2	OK	321.509	229.459	-0.486623	0.461374	0.644531	0.978191
gene232	gene232	SACOL0241	gi 57650036 ref NC_002951.2 :279161-280896	q1	q2	OK	257.422	100.588	-1.35567	1.10168	0.270601	0.905515
gene2320	gene2320	SACOL2322	gi 57650036 ref NC_002951.2 :2383102-2384224	q1	q2	OK	36.6151	64.4417	0.815554	-0.63949	0.522508	0.963286
gene2321	gene2321	hutI	gi 57650036 ref NC_002951.2 :2384500-2387400	q1	q2	OK	49.6461	55.704	0.166103	-0.1058	0.91574	0.984151
gene2322	gene2322	hutU	gi 57650036 ref NC_002951.2 :2384500-2387400	q1	q2	OK	20.6417	78.4811	1.92678	-1.28384	0.199197	0.842707
gene2323	gene2323	SACOL2325	gi 57650036 ref NC_002951.2 :2387559-2388444	q1	q2	OK	65.5603	56.4052	-0.216994	0.167489	0.866985	0.984151
gene2324	gene2324	fosB	gi 57650036 ref NC_002951.2 :2388865-2389285	q1	q2	OK	32.4602	36.9432	0.186639	-0.09806	0.921888	0.985958
gene2325	gene2325	hutG	gi 57650036 ref NC_002951.2 :2389540-2390476	q1	q2	OK	132.828	321.97	1.27737	-1.20745	0.22726	0.855829
gene2326	gene2326	SACOL2328	gi 57650036 ref NC_002951.2 :2390765-2392025	q1	q2	OK	284.009	100.902	-1.49299	1.38362	0.166475	0.842707
gene2327	gene2327	rpiA	gi 57650036 ref NC_002951.2 :2392090-2392777	q1	q2	OK	53.9309	52.1568	-0.0482561	0.031421	0.974933	0.995537
gene2328	gene2328	SACOL2330	gi 57650036 ref NC_002951.2 :2392950-2393604	q1	q2	OK	80.3989	62.7565	-0.357411	0.248334	0.803876	0.984151
gene2329	gene2329	SACOL2331	gi 57650036 ref NC_002951.2 :2393733-2394859	q1	q2	NOTEST 0		0	0	0	1	1
gene233	gene233	SACOL0242	gi 57650036 ref NC_002951.2 :280917-282606	q1	q2	OK	208.007	83.807	-1.31149	1.20807	0.22702	0.855829
gene2330	gene2330	galM	gi 57650036 ref NC_002951.2 :2393733-2394859	q1	q2	OK	15.2881	35.9566	1.23385	-0.65911	0.509825	0.963286
gene2331	gene2331	SACOL2333	gi 57650036 ref NC_002951.2 :2394888-2395215	q1	q2	OK	11.6329	367.788	4.98259	-2.76267	0.005733	0.446636
gene2332	gene2332	SACOL2334	gi 57650036 ref NC_002951.2 :2395432-2397557	q1	q2	OK	56.7128	66.3818	0.227113	-0.18097	0.856394	0.984151
gene2333	gene2333	SACOL2335	gi 57650036 ref NC_002951.2 :2395432-2397557	q1	q2	OK	30.6321	58.3184	0.928905	-0.50615	0.612751	0.978191
gene2334	gene2334	SACOL2336	gi 57650036 ref NC_002951.2 :2397626-2397725	q1	q2	NOTEST 0		0	0	0	1	1
gene2335	gene2335	SACOL2338	gi 57650036 ref NC_002951.2 :2397787-2398435	q1	q2	OK	45.8008	70.3763	0.619716	-0.40385	0.686325	0.978191
gene2336	gene2336	SACOL2339	gi 57650036 ref NC_002951.2 :2398833-2399442	q1	q2	OK	14.41	49.0619	1.76753	-0.98058	0.326799	0.927653
gene2337	gene2337	gltS	gi 57650036 ref NC_002951.2 :2399778-2400987	q1	q2	OK	22.3272	37.5696	0.750763	-0.51074	0.609531	0.978191
gene2338	gene2338	fni	gi 57650036 ref NC_002951.2 :2401034-2402084	q1	q2	OK	89.4325	75.6375	-0.241696	0.228018	0.819633	0.984151
gene2339	gene2339	SACOL2342	gi 57650036 ref NC_002951.2 :2402114-2403062	q1	q2	OK	29.1921	35.8884	0.297938	-0.19124	0.848337	0.984151
gene234	gene234	SACOL0243	gi 57650036 ref NC_002951.2 :282641-284363	q1	q2	OK	359.239	111.52	-1.68764	1.45039	0.146949	0.842707
gene2340	gene2340	SACOL2343	gi 57650036 ref NC_002951.2 :2403158-2404066	q1	q2	OK	159.841	140.359	-0.187513	0.137861	0.89035	0.984151
gene2341	gene2341	SACOL2344	gi 57650036 ref NC_002951.2 :2403158-2404066	q1	q2	OK	176.367	98.812	-0.835822	0.497201	0.619047	0.978191
gene2342	gene2342	SACOL2345	gi 57650036 ref NC_002951.2 :2404173-2405076	q1	q2	OK	88.0322	34.1707	-1.36527	1.01271	0.311197	0.927653

gene2343	gene2343	SACOL2346	gi 57650036 ref NC_002951.2 :2405301-2405940	q1	q2	OK	51.9352	43.2901	-0.262677	0.162811	0.870667	0.984151
gene2344	gene2344	SACOL2347	gi 57650036 ref NC_002951.2 :2406185-2408117	q1	q2	OK	29.6326	31.4025	0.0836958	-0.07184	0.942728	0.987716
gene2345	gene2345	SACOL2348	gi 57650036 ref NC_002951.2 :2408129-2408777	q1	q2	OK	32.2116	29.2856	-0.137387	0.078931	0.937088	0.987716
gene2346	gene2346	SACOL2349	gi 57650036 ref NC_002951.2 :2408897-2409449	q1	q2	OK	76.7409	58.6358	-0.388214	0.247276	0.804695	0.984151
gene2347	gene2347	tcaB	gi 57650036 ref NC_002951.2 :2409678-2410887	q1	q2	OK	21.4601	37.1579	0.79201	-0.53505	0.592617	0.978191
gene2348	gene2348	SACOL2351	gi 57650036 ref NC_002951.2 :2410996-2411125	q1	q2	NOTEST 0		0	0	0	1	1
gene2349	gene2349	tcaA	gi 57650036 ref NC_002951.2 :2411155-2412538	q1	q2	OK	19.3449	30.8034	0.671139	-0.45426	0.649639	0.978191
gene235	gene235	scdA	gi 57650036 ref NC_002951.2 :284502-285177	q1	q2	OK	61.9894	75.7434	0.289098	-0.20204	0.839887	0.984151
gene2350	gene2350	tcaR	gi 57650036 ref NC_002951.2 :2412777-2413233	q1	q2	OK	116.491	32.4647	-1.84327	1.08698	0.277045	0.9146
gene2351	gene2351	SACOL2354	gi 57650036 ref NC_002951.2 :2413427-2414396	q1	q2	OK	57.5991	50.3798	-0.193203	0.148806	0.881707	0.984151
gene2352	gene2352	SACOL2355	gi 57650036 ref NC_002951.2 :2414970-2415327	q1	q2	OK	4.67822	32.1041	2.77873	-1.26574	0.205608	0.842707
gene2353	gene2353	SACOL2356	gi 57650036 ref NC_002951.2 :2415466-2417187	q1	q2	OK	4.34545	27.5393	2.66391	-1.00525	0.314776	0.927653
gene2354	gene2354	SACOL2357	gi 57650036 ref NC_002951.2 :2415466-2417187	q1	q2	OK	2.56612	28.4263	3.46956	-1.49658	0.134503	0.842707
gene2355	gene2355	SACOL2358	gi 57650036 ref NC_002951.2 :2417322-2419363	q1	q2	OK	11.83	50.2095	2.08551	-0.73417	0.462845	0.956269
gene2356	gene2356	SACOL2359	gi 57650036 ref NC_002951.2 :2417322-2419363	q1	q2	OK	34.5362	31.3908	-0.137765	0.100571	0.919891	0.984666
gene2357	gene2357	SACOL2360	gi 57650036 ref NC_002951.2 :2419525-2420421	q1	q2	OK	57.9879	31.9342	-0.860649	0.385433	0.699917	0.978191
gene2358	gene2358	SACOL2361	gi 57650036 ref NC_002951.2 :2419525-2420421	q1	q2	OK	33.0211	23.5756	-0.486095	0.185502	0.852835	0.984151
gene2359	gene2359	mqp1	gi 57650036 ref NC_002951.2 :2420486-2421965	q1	q2	OK	288.232	208.376	-0.468041	0.403417	0.686642	0.978191
gene236	gene236	lytS	gi 57650036 ref NC_002951.2 :285423-287178	q1	q2	OK	14.7852	79.0797	2.41915	-1.82198	0.068457	0.742019
gene2360	gene2360	SACOL2363	gi 57650036 ref NC_002951.2 :2422345-2423944	q1	q2	OK	125.796	39.7553	-1.66187	1.52536	0.127169	0.842707
gene2361	gene2361	SACOL2364	gi 57650036 ref NC_002951.2 :2424260-2425934	q1	q2	OK	36.8182	33.2224	-0.148262	0.125945	0.899776	0.984151
gene2362	gene2362	SACOL2365	gi 57650036 ref NC_002951.2 :2426086-2426716	q1	q2	OK	367.392	532.294	0.534902	-0.50326	0.614781	0.978191
gene2363	gene2363	SACOL2366	gi 57650036 ref NC_002951.2 :2427029-2427545	q1	q2	OK	15.3346	124.866	3.02552	-1.78028	0.07503	0.754145
gene2364	gene2364	SACOL2367	gi 57650036 ref NC_002951.2 :2427735-2428740	q1	q2	OK	97.043	65.0031	-0.578115	0.525525	0.599218	0.978191
gene2365	gene2365	SACOL2368	gi 57650036 ref NC_002951.2 :2428785-2429187	q1	q2	OK	35.632	78.5018	1.13955	-0.62873	0.529525	0.963286
gene2366	gene2366	SACOL2369	gi 57650036 ref NC_002951.2 :2429222-2430257	q1	q2	OK	23.4296	79.1996	1.75716	-1.26981	0.204154	0.842707
gene2367	gene2367	SACOL2371	gi 57650036 ref NC_002951.2 :2430488-2430920	q1	q2	OK	83.7285	34.3183	-1.28674	0.726571	0.467489	0.956269
gene2368	gene2368	SACOL2372	gi 57650036 ref NC_002951.2 :2430971-2431064	q1	q2	NOTEST 0		0	0	0	1	1
gene2369	gene2369	SACOL2373	gi 57650036 ref NC_002951.2 :2431126-2432404	q1	q2	OK	13.9783	28.741	1.03993	-0.65428	0.512934	0.963286
gene237	gene237	lytR	gi 57650036 ref NC_002951.2 :287180-287921	q1	q2	OK	19.8163	24.2185	0.289418	-0.16236	0.871022	0.984151
gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	q1	q2	OK	46.4121	34.4687	-0.429215	0.255659	0.798214	0.984151
gene2371	gene2371	SACOL2375	gi 57650036 ref NC_002951.2 :2433233-2434178	q1	q2	OK	122.584	42.6813	-1.52209	1.22537	0.220436	0.852509
gene2372	gene2372	SACOL2376	gi 57650036 ref NC_002951.2 :2434263-2435706	q1	q2	OK	11.5613	50.3758	2.12342	-1.46925	0.141764	0.842707

gene2373	gene2373	SACOL2377	gi 57650036 ref NC_002951.2 :2435888-2436272	q1	q2	OK	382.64	126.434	-1.5976	1.19688	0.231352	0.863636
gene2374	gene2374	SACOL2378	gi 57650036 ref NC_002951.2 :2437759-2439865	q1	q2	OK	36.1984	41.6889	0.203739	-0.19461	0.845701	0.984151
gene2375	gene2375	SACOL2379	gi 57650036 ref NC_002951.2 :2439935-2440358	q1	q2	OK	1120.5	571.848	-0.970436	0.921578	0.356749	0.93284
gene2376	gene2376	SACOL2380	gi 57650036 ref NC_002951.2 :2440453-2440576	q1	q2	NOTEST 0		0	0	0	1	1
gene2377	gene2377	SACOL2381	gi 57650036 ref NC_002951.2 :2440622-2440979	q1	q2	OK	121.634	61.7853	-0.977208	0.559762	0.575642	0.976548
gene2378	gene2378	SACOL2382	gi 57650036 ref NC_002951.2 :2441382-2442660	q1	q2	OK	513.145	97.9896	-2.38866	2.07893	0.037624	0.634426
gene2379	gene2379	SACOL2383	gi 57650036 ref NC_002951.2 :2442841-2443207	q1	q2	OK	55.8399	42.6288	-0.389467	0.206269	0.836581	0.984151
gene238	gene238	lrgA	gi 57650036 ref NC_002951.2 :288033-289171	q1	q2	OK	6.76526	25.4665	1.91239	-0.36439	0.715565	0.978191
gene2380	gene2380	sarZ	gi 57650036 ref NC_002951.2 :2443604-2444051	q1	q2	OK	60.0823	31.5718	-0.928304	0.512436	0.608346	0.978191
gene2381	gene2381	SACOL2385	gi 57650036 ref NC_002951.2 :2444266-2444695	q1	q2	OK	720.832	101.207	-2.83236	2.15831	0.030903	0.604847
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	q1	q2	OK	16.0248	35.4158	1.14408	-0.73354	0.463231	0.956269
gene2383	gene2383	SACOL2387	gi 57650036 ref NC_002951.2 :2446340-2447974	q1	q2	OK	3.08944	55.6814	4.17178	-1.80195	0.071553	0.754145
gene2384	gene2384	SACOL2388	gi 57650036 ref NC_002951.2 :2446340-2447974	q1	q2	OK	4.95408	25.7321	2.37688	-0.95175	0.341223	0.93284
gene2385	gene2385	SACOL2389	gi 57650036 ref NC_002951.2 :2448231-2448885	q1	q2	OK	59.0585	39.2228	-0.59045	0.370112	0.711299	0.978191
gene2386	gene2386	SACOL2390	gi 57650036 ref NC_002951.2 :2448907-2449942	q1	q2	OK	59.2321	66.0617	0.157435	-0.13415	0.89328	0.984151
gene2387	gene2387	SACOL2391	gi 57650036 ref NC_002951.2 :2449965-2450418	q1	q2	OK	52.0292	57.4437	0.142827	-0.08204	0.934615	0.987716
gene2388	gene2388	narI	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	45.1274	64.6211	0.518001	-0.2057	0.837028	0.984151
gene2389	gene2389	narJ	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	15.6971	16.5574	0.0769783	-0.01471	0.98826	0.997969
gene239	gene239	lrgB	gi 57650036 ref NC_002951.2 :288033-289171	q1	q2	OK	86.6201	29.902	-1.53446	0.834813	0.403823	0.940909
gene2390	gene2390	narH	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	18.2213	39.347	1.11063	-0.53483	0.592768	0.978191
gene2391	gene2391	narG	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	11.2151	36.9574	1.72042	-1.16038	0.245893	0.885853
gene2392	gene2392	SACOL2396	gi 57650036 ref NC_002951.2 :2457223-2458506	q1	q2	OK	17.8381	70.6633	1.986	-1.19685	0.231364	0.863636
gene2393	gene2393	nirD	gi 57650036 ref NC_002951.2 :2457223-2458506	q1	q2	OK	14.9451	50.2214	1.74863	-0.38793	0.698067	0.978191
gene2394	gene2394	nirB	gi 57650036 ref NC_002951.2 :2458509-2460915	q1	q2	OK	4.11079	48.6552	3.5651	-2.38598	0.017034	0.500083
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	q1	q2	OK	27.7298	77.8841	1.48989	-0.97945	0.327356	0.927653
gene2396	gene2396	SACOL2400	gi 57650036 ref NC_002951.2 :2461941-2462478	q1	q2	OK	34.0708	56.3478	0.725825	-0.42207	0.672975	0.978191
gene2397	gene2397	SACOL2401	gi 57650036 ref NC_002951.2 :2462710-2463535	q1	q2	OK	39.4247	48.8457	0.309133	-0.20487	0.837672	0.984151
gene2398	gene2398	SACOL2402	gi 57650036 ref NC_002951.2 :2464017-2464485	q1	q2	OK	32.2898	48.8705	0.597885	-0.3296	0.741706	0.978191
gene2399	gene2399	SACOL2403	gi 57650036 ref NC_002951.2 :2464670-2466221	q1	q2	OK	19.954	32.7346	0.714138	-0.51241	0.608367	0.978191
gene24	gene24	yycJ	gi 57650036 ref NC_002951.2 :29997-30798	q1	q2	OK	85.0863	75.0019	-0.181999	0.149683	0.881015	0.984151
gene240	gene240	SACOL0249	gi 57650036 ref NC_002951.2 :289278-289983	q1	q2	OK	148.2	80.8988	-0.873356	0.744007	0.456872	0.956269
gene2400	gene2400	SACOL2404	gi 57650036 ref NC_002951.2 :2466515-2467033	q1	q2	OK	9.97133	43.3892	2.12148	-0.44265	0.658018	0.978191
gene2401	gene2401	SACOL2405	gi 57650036 ref NC_002951.2 :2466515-2467033	q1	q2	OK	106.382	68.5337	-0.634371	0.248938	0.803409	0.984151

gene2402	gene2402	SACOL2406	gi 57650036 ref NC_002951.2 :2467197-2467296	q1	q2	NOTEST 0	0	0	0	1	1
gene2403	gene2403	SACOL2407	gi 57650036 ref NC_002951.2 :2467305-2467905	q1	q2	OK 54.4781	55.1825	0.0185364	-0.01162	0.990732	0.997969
gene2404	gene2404	SACOL2408	gi 57650036 ref NC_002951.2 :2467923-2468295	q1	q2	OK 94.7684	122.723	0.372933	-0.22583	0.821336	0.984151
gene2405	gene2405	fmhA	gi 57650036 ref NC_002951.2 :2468540-2469791	q1	q2	OK 12.2665	31.1484	1.34443	-0.83976	0.401045	0.940909
gene2406	gene2406	SACOL2410	gi 57650036 ref NC_002951.2 :2469887-2472095	q1	q2	OK 1556.65	235.191	-2.72654	1.48207	0.138322	0.842707
gene2407	gene2407	SACOL2411	gi 57650036 ref NC_002951.2 :2469887-2472095	q1	q2	OK 866.839	196.65	-2.14014	0.937937	0.348277	0.93284
gene2408	gene2408	SACOL2412	gi 57650036 ref NC_002951.2 :2469887-2472095	q1	q2	OK 598.121	98.5074	-2.60213	0.933249	0.350692	0.93284
gene2409	gene2409	SACOL2413	gi 57650036 ref NC_002951.2 :2472215-2473613	q1	q2	OK 68.934	60.238	-0.194541	0.187558	0.851223	0.984151
gene241	gene241	SACOL0250	gi 57650036 ref NC_002951.2 :290131-290923	q1	q2	OK 1.87899	20.111	3.41995	-1.66274	0.096364	0.803494
gene2410	gene2410	SACOL2414	gi 57650036 ref NC_002951.2 :2473829-2473934	q1	q2	NOTEST 0	0	0	0	1	1
gene2411	gene2411	gpmA	gi 57650036 ref NC_002951.2 :2474087-2474774	q1	q2	OK 430.525	156.889	-1.45635	1.38955	0.164667	0.842707
gene2412	gene2412	SACOL2416	gi 57650036 ref NC_002951.2 :2475099-2475966	q1	q2	OK 49.7988	38.4382	-0.373572	0.251792	0.801202	0.984151
gene2413	gene2413	SACOL2418	gi 57650036 ref NC_002951.2 :2476717-2478028	q1	q2	OK 18.6614	43.8168	1.23143	-0.86486	0.387116	0.940893
gene2414	gene2414	hlgA	gi 57650036 ref NC_002951.2 :2478563-2479493	q1	q2	OK 21.1669	51.7366	1.28938	-0.8391	0.401414	0.940909
gene2415	gene2415	SACOL2420	gi 57650036 ref NC_002951.2 :2479556-2479682	q1	q2	NOTEST 0	0	0	0	1	1
gene2416	gene2416	hlgC	gi 57650036 ref NC_002951.2 :2480060-2481008	q1	q2	OK 12.3845	60.5962	2.29069	-1.45389	0.145977	0.842707
gene2417	gene2417	hlgB	gi 57650036 ref NC_002951.2 :2481009-2481987	q1	q2	OK 12.4583	48.2158	1.95239	-1.21092	0.225925	0.855481
gene2418	gene2418	SACOL2423	gi 57650036 ref NC_002951.2 :2482038-2482506	q1	q2	OK 3.49079	17.7711	2.34791	-1.07821	0.280941	0.914891
gene2419	gene2419	bioW	gi 57650036 ref NC_002951.2 :2482516-2483209	q1	q2	OK 2.27528	49.6806	4.44857	-2.26786	0.023337	0.582014
gene242	gene242	bglA	gi 57650036 ref NC_002951.2 :290938-292375	q1	q2	OK 12.4987	54.4909	2.12424	-1.49187	0.135732	0.842707
gene2420	gene2420	SACOL2425	gi 57650036 ref NC_002951.2 :2483219-2485320	q1	q2	OK 1.43616	44.9351	4.96756	-1.63867	0.101282	0.815096
gene2421	gene2421	bioB	gi 57650036 ref NC_002951.2 :2483219-2485320	q1	q2	OK 5.17399	39.8073	2.94368	-1.50349	0.132714	0.842707
gene2422	gene2422	bioA	gi 57650036 ref NC_002951.2 :2485321-2487344	q1	q2	OK 2.44571	38.3469	3.97079	-2.1975	0.027985	0.604847
gene2423	gene2423	bioD	gi 57650036 ref NC_002951.2 :2485321-2487344	q1	q2	OK 0.460948	47.9675	6.70131	-1.15261	0.24907	0.889805
gene2424	gene2424	SACOL2429	gi 57650036 ref NC_002951.2 :2487564-2487708	q1	q2	OK 0	76.3066	1.79769e+30	1.79769e+30	0.209916	0.842707
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	q1	q2	OK 3.11129	32.7547	3.39611	-2.055	0.03988	0.641477
gene2426	gene2426	SACOL2431	gi 57650036 ref NC_002951.2 :2489553-2491317	q1	q2	OK 1.66402	31.2648	4.2318	-2.43852	0.014747	0.500083
gene2427	gene2427	SACOL2433	gi 57650036 ref NC_002951.2 :2491944-2492052	q1	q2	OK 2554	0	-1.79769e+30	-1.79769e+30	0.206988	0.842707
gene2428	gene2428	SACOL2434	gi 57650036 ref NC_002951.2 :2492186-2492573	q1	q2	OK 33.5921	57.896	0.785345	-0.41736	0.676412	0.978191
gene2429	gene2429	SACOL2435	gi 57650036 ref NC_002951.2 :2492840-2493983	q1	q2	OK 61.7998	66.1127	0.0973252	-0.08782	0.930022	0.987716
gene243	gene243	SACOL0252	gi 57650036 ref NC_002951.2 :292808-293570	q1	q2	OK 5.55433	41.9401	2.91665	-1.57228	0.115886	0.838847
gene2430	gene2430	SACOL2436	gi 57650036 ref NC_002951.2 :2494042-2494702	q1	q2	OK 103.767	112.427	0.115644	-0.09628	0.923295	0.986264
gene2431	gene2431	bcr	gi 57650036 ref NC_002951.2 :2494883-2496095	q1	q2	OK 141.769	66.1967	-1.09871	1.05385	0.291951	0.924214

gene2432	gene2432	SACOL2438	gi 57650036 ref NC_002951.2 :2496217-2496691	q1	q2	OK	31.5231	88.4759	1.48888	-0.865	0.387037	0.940893
gene2433	gene2433	SACOL2439	gi 57650036 ref NC_002951.2 :2496803-2497460	q1	q2	OK	99.5566	84.6309	-0.234332	0.181226	0.85619	0.984151
gene2434	gene2434	SACOL2440	gi 57650036 ref NC_002951.2 :2497522-2498329	q1	q2	OK	23.7988	62.9444	1.40319	-0.90847	0.363628	0.93284
gene2435	gene2435	SACOL2441	gi 57650036 ref NC_002951.2 :2498614-2500024	q1	q2	OK	246.48	80.9953	-1.60556	1.48817	0.136706	0.842707
gene2436	gene2436	SACOL2442	gi 57650036 ref NC_002951.2 :2500161-2502240	q1	q2	OK	62.7436	34.3162	-0.870577	0.833644	0.404482	0.940909
gene2437	gene2437	SACOL2443	gi 57650036 ref NC_002951.2 :2502379-2504209	q1	q2	OK	68.879	43.5433	-0.661611	0.642386	0.520623	0.963286
gene2438	gene2438	SACOL2445	gi 57650036 ref NC_002951.2 :2504440-2505937	q1	q2	OK	51.3295	42.6798	-0.266235	0.240624	0.809846	0.984151
gene2439	gene2439	SACOL2446	gi 57650036 ref NC_002951.2 :2506028-2506880	q1	q2	OK	76.4813	53.9777	-0.502743	0.387956	0.698048	0.978191
gene244	gene244	rbsK	gi 57650036 ref NC_002951.2 :293820-294735	q1	q2	OK	31.5123	85.2531	1.43584	-1.05039	0.293538	0.924214
gene2440	gene2440	SACOL2448	gi 57650036 ref NC_002951.2 :2507201-2508137	q1	q2	OK	29.6839	39.6854	0.418929	-0.27187	0.785719	0.982219
gene2441	gene2441	SACOL2449	gi 57650036 ref NC_002951.2 :2508362-2509763	q1	q2	OK	125.724	70.5815	-0.832901	0.814236	0.41551	0.947728
gene2442	gene2442	SACOL2450	gi 57650036 ref NC_002951.2 :2510056-2511693	q1	q2	OK	82.2942	52.4772	-0.649102	0.386907	0.698825	0.978191
gene2443	gene2443	SACOL2451	gi 57650036 ref NC_002951.2 :2510056-2511693	q1	q2	OK	68.3866	76.1003	0.154189	-0.11849	0.905677	0.984151
gene2444	gene2444	SACOL2452	gi 57650036 ref NC_002951.2 :2511709-2513568	q1	q2	OK	45.5796	48.7032	0.0956268	-0.04563	0.963605	0.989588
gene2445	gene2445	SACOL2453	gi 57650036 ref NC_002951.2 :2511709-2513568	q1	q2	OK	43.0019	79.3066	0.883042	-0.71985	0.471621	0.956269
gene2446	gene2446	SACOL2454	gi 57650036 ref NC_002951.2 :2513894-2514014	q1	q2	OK	0	115.984	1.79769e+30	1.79769e+	0.207933	0.842707
gene2447	gene2447	SACOL2456	gi 57650036 ref NC_002951.2 :2514237-2515000	q1	q2	OK	94.2017	59.2326	-0.66936	0.440682	0.659443	0.978191
gene2448	gene2448	SACOL2457	gi 57650036 ref NC_002951.2 :2514237-2515000	q1	q2	OK	0	26.735	1.79769e+30	1.79769e+	0.440965	0.956269
gene2449	gene2449	SACOL2458	gi 57650036 ref NC_002951.2 :2515016-2516654	q1	q2	OK	68.2616	38.4722	-0.82726	0.769208	0.44177	0.956269
gene245	gene245	SACOL0254	gi 57650036 ref NC_002951.2 :294762-295167	q1	q2	OK	21.0376	34.2081	0.701364	-0.35394	0.723382	0.978191
gene2450	gene2450	pnbA	gi 57650036 ref NC_002951.2 :2517261-2518614	q1	q2	OK	73.5719	111.749	0.603036	-0.59132	0.554305	0.976548
gene2451	gene2451	SACOL2460	gi 57650036 ref NC_002951.2 :2518675-2519863	q1	q2	OK	23.6993	38.6696	0.706354	-0.48364	0.628643	0.978191
gene2452	gene2452	SACOL2461	gi 57650036 ref NC_002951.2 :2520258-2521690	q1	q2	OK	106.918	65.0551	-0.716765	0.512076	0.608598	0.978191
gene2453	gene2453	SACOL2462	gi 57650036 ref NC_002951.2 :2520258-2521690	q1	q2	OK	39.3761	118.323	1.58734	-0.88203	0.377761	0.940261
gene2454	gene2454	pepA2	gi 57650036 ref NC_002951.2 :2521937-2523014	q1	q2	OK	150.429	103.712	-0.536506	0.529263	0.596623	0.978191
gene2455	gene2455	SACOL2464	gi 57650036 ref NC_002951.2 :2523368-2523892	q1	q2	OK	59.828	58.2655	-0.0381771	0.014211	0.988662	0.997969
gene2456	gene2456	SACOL2465	gi 57650036 ref NC_002951.2 :2523368-2523892	q1	q2	OK	73.4302	71.7282	-0.033833	0.013261	0.989419	0.997969
gene2457	gene2457	SACOL2466	gi 57650036 ref NC_002951.2 :2523997-2524192	q1	q2	OK	0	22.4638	1.79769e+30	1.79769e+	0.200139	0.842707
gene2458	gene2458	SACOL2467	gi 57650036 ref NC_002951.2 :2524250-2524706	q1	q2	OK	139.422	53.7213	-1.37589	0.869235	0.384719	0.940893
gene2459	gene2459	SACOL2469	gi 57650036 ref NC_002951.2 :2524873-2526451	q1	q2	OK	47.9443	69.6535	0.538837	-0.51553	0.606185	0.978191
gene246	gene246	SACOL0255	gi 57650036 ref NC_002951.2 :295181-296063	q1	q2	OK	27.9009	53.777	0.946681	-0.6273	0.530463	0.963286
gene2460	gene2460	SACOL2470	gi 57650036 ref NC_002951.2 :2526645-2527395	q1	q2	OK	35.303	28.4894	-0.309366	0.185281	0.853008	0.984151
gene2461	gene2461	SACOL2471	gi 57650036 ref NC_002951.2 :2527618-2528812	q1	q2	OK	7.04383	39.5892	2.49068	-1.50977	0.131103	0.842707

gene2462	gene2462	SACOL2472	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	6.08673	24.5791	2.01369	-0.69105	0.489534	0.963286
gene2463	gene2463	SACOL2473	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	3.24516	23.5189	2.85746	-0.83673	0.402747	0.940909
gene2464	gene2464	SACOL2474	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	2.31316	60.5564	4.71034	-1.35873	0.174233	0.842707
gene2465	gene2465	SACOL2475	gi 57650036 ref NC_002951.2 :2528823-2532179	q1	q2	OK	4.19772	29.729	2.82419	-1.02681	0.304509	0.927653
gene2466	gene2466	SACOL2476	gi 57650036 ref NC_002951.2 :2532191-2533790	q1	q2	OK	5.74623	37.6668	2.71261	-1.73029	0.083579	0.76604
gene2467	gene2467	SACOL2477	gi 57650036 ref NC_002951.2 :2533932-2535147	q1	q2	OK	1.07729	23.6387	4.45568	-2.26498	0.023514	0.582014
gene2468	gene2468	SACOL2478	gi 57650036 ref NC_002951.2 :2535226-2536045	q1	q2	OK	0	26.2303	1.79769e+30	1.79769e+	0.112485	0.836566
gene2469	gene2469	SACOL2479	gi 57650036 ref NC_002951.2 :2536055-2536877	q1	q2	OK	0.713916	23.7939	5.05869	-2.39939	0.016422	0.500083
gene247	gene247	SACOL0257	gi 57650036 ref NC_002951.2 :296294-297293	q1	q2	OK	19.5588	82.0452	2.0686	-1.45058	0.146897	0.842707
gene2470	gene2470	SACOL2480	gi 57650036 ref NC_002951.2 :2537024-2537156	q1	q2	NOTEST	0	0	0	0	1	1
gene2471	gene2471	SACOL2481	gi 57650036 ref NC_002951.2 :2537619-2537985	q1	q2	OK	82.2903	59.3347	-0.471847	0.263405	0.792239	0.982631
gene2472	gene2472	fabG2	gi 57650036 ref NC_002951.2 :2538247-2539066	q1	q2	OK	105.474	227.108	1.10648	-1.04656	0.295302	0.924214
gene2473	gene2473	SACOL2483	gi 57650036 ref NC_002951.2 :2539298-2540837	q1	q2	OK	125.038	72.0457	-0.795385	0.776862	0.43724	0.956269
gene2474	gene2474	SACOL2484	gi 57650036 ref NC_002951.2 :2540948-2541371	q1	q2	OK	172.712	391.635	1.18114	-0.96731	0.333389	0.927653
gene2475	gene2475	SACOL2485	gi 57650036 ref NC_002951.2 :2541822-2542242	q1	q2	OK	207.745	157.12	-0.402948	0.303147	0.761778	0.978191
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	q1	q2	OK	74.6584	145.992	0.967518	-0.61762	0.536826	0.963603
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	q1	q2	OK	5.33062	16.7027	1.64771	-0.75489	0.450316	0.956269
gene2478	gene2478	SACOL2488	gi 57650036 ref NC_002951.2 :2543618-2544314	q1	q2	OK	179.51	205.587	0.195685	-0.19277	0.847137	0.984151
gene2479	gene2479	SACOL2489	gi 57650036 ref NC_002951.2 :2544761-2544884	q1	q2	NOTEST	0	0	0	0	1	1
gene248	gene248	SACOL0258	gi 57650036 ref NC_002951.2 :297443-297623	q1	q2	OK	0	141.908	1.79769e+30	1.79769e+	0.173559	0.842707
gene2480	gene2480	SACOL2491	gi 57650036 ref NC_002951.2 :2545143-2545335	q1	q2	OK	387.383	43.9175	-3.14089	1.47816	0.139365	0.842707
gene2481	gene2481	SACOL2492	gi 57650036 ref NC_002951.2 :2545769-2545892	q1	q2	NOTEST	0	0	0	0	1	1
gene2482	gene2482	SACOL2493	gi 57650036 ref NC_002951.2 :2545895-2546690	q1	q2	OK	19.4389	29.5011	0.601824	-0.348	0.727837	0.978191
gene2483	gene2483	SACOL2494	gi 57650036 ref NC_002951.2 :2547225-2547513	q1	q2	NOTEST	0	0	0	0	1	1
gene2484	gene2484	SACOL2495	gi 57650036 ref NC_002951.2 :2547515-2547842	q1	q2	NOTEST	0	0	0	0	1	1
gene2485	gene2485	SACOL2496	gi 57650036 ref NC_002951.2 :2548053-2549948	q1	q2	NOTEST	0	0	0	0	1	1
gene2486	gene2486	SACOL2497	gi 57650036 ref NC_002951.2 :2548053-2549948	q1	q2	NOTEST	0	0	0	0	1	1
gene2487	gene2487	SACOL2498	gi 57650036 ref NC_002951.2 :2550059-2550836	q1	q2	OK	16.5973	45.1475	1.4437	-0.85288	0.393725	0.940909
gene2488	gene2488	SACOL2499	gi 57650036 ref NC_002951.2 :2551138-2554000	q1	q2	OK	25.0976	32.3312	0.365376	-0.34922	0.726927	0.978191
gene2489	gene2489	SACOL2500	gi 57650036 ref NC_002951.2 :2554001-2554394	q1	q2	OK	17.4765	81.858	2.22771	-1.16953	0.242191	0.882723
gene249	gene249	SACOL0259	gi 57650036 ref NC_002951.2 :297672-298065	q1	q2	OK	19.9731	27.1186	0.441223	-0.21748	0.827833	0.984151
gene2490	gene2490	SACOL2501	gi 57650036 ref NC_002951.2 :2554510-2556319	q1	q2	OK	54.7013	52.1602	-0.0686254	0.067247	0.946385	0.987716
gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	q1	q2	OK	43.2091	110.333	1.35245	-0.67934	0.496925	0.963286

gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	q1	q2	OK	44.8964	36.7306	-0.289617	0.14283	0.886424	0.984151
gene2493	gene2493	SACOL2504	gi 57650036 ref NC_002951.2 :2557642-2558836	q1	q2	OK	11.2261	62.9876	2.48821	-1.67134	0.094655	0.794532
gene2494	gene2494	SACOL2505	gi 57650036 ref NC_002951.2 :2559219-2562951	q1	q2	OK	8.09755	45.6576	2.4953	-1.94007	0.052371	0.688888
gene2495	gene2495	sarT	gi 57650036 ref NC_002951.2 :2563255-2563612	q1	q2	OK	0	19.9894	1.79769e+30	1.79769e+	0.163386	0.842707
gene2496	gene2496	sarU	gi 57650036 ref NC_002951.2 :2563935-2564679	q1	q2	OK	0	16.1848	1.79769e+30	1.79769e+	0.135526	0.842707
gene2497	gene2497	galU	gi 57650036 ref NC_002951.2 :2564889-2565756	q1	q2	OK	46.8109	42.9149	-0.125366	0.084941	0.932309	0.987716
gene2498	gene2498	fnbB	gi 57650036 ref NC_002951.2 :2565935-2568758	q1	q2	OK	17.1745	63.2968	1.88186	-1.63529	0.101989	0.815096
gene2499	gene2499	SACOL2510	gi 57650036 ref NC_002951.2 :2568918-2569041	q1	q2	NOTEST	0	0	0	0	1	1
gene25	gene25	SACOL0024	gi 57650036 ref NC_002951.2 :31025-33344	q1	q2	OK	15.3929	41.4884	1.43044	-1.14925	0.250453	0.889805
gene250	gene250	SACOL0260	gi 57650036 ref NC_002951.2 :298292-298697	q1	q2	NOTEST	0	0	0	0	1	1
gene2500	gene2500	fnbA	gi 57650036 ref NC_002951.2 :2569439-2572496	q1	q2	OK	66.8693	89.6782	0.423413	-0.38991	0.696604	0.978191
gene2501	gene2501	SACOL2513	gi 57650036 ref NC_002951.2 :2572737-2572932	q1	q2	OK	0	8.98551	1.79769e+30	1.79769e+	0.206623	0.842707
gene2502	gene2502	gntP	gi 57650036 ref NC_002951.2 :2572963-2574322	q1	q2	OK	13.3573	52.2667	1.96826	-1.36976	0.170762	0.842707
gene2503	gene2503	gntK	gi 57650036 ref NC_002951.2 :2574438-2575992	q1	q2	OK	8.99117	29.6586	1.72187	-1.10375	0.269701	0.905515
gene2504	gene2504	gntR	gi 57650036 ref NC_002951.2 :2576015-2576696	q1	q2	OK	7.00492	36.8858	2.39662	-1.26939	0.204303	0.842707
gene2505	gene2505	SACOL2517	gi 57650036 ref NC_002951.2 :2576849-2577614	q1	q2	OK	108.893	81.2712	-0.422093	0.36124	0.71792	0.978191
gene2506	gene2506	SACOL2518	gi 57650036 ref NC_002951.2 :2577778-2578471	q1	q2	OK	38.2247	56.0977	0.553436	-0.35074	0.725787	0.978191
gene2507	gene2507	SACOL2519	gi 57650036 ref NC_002951.2 :2578701-2579190	q1	q2	OK	2029.72	815.573	-1.31539	1.10185	0.270526	0.905515
gene2508	gene2508	SACOL2520	gi 57650036 ref NC_002951.2 :2579256-2581149	q1	q2	OK	57.9627	83.323	0.52359	-0.51511	0.606477	0.978191
gene2509	gene2509	SACOL2521	gi 57650036 ref NC_002951.2 :2581557-2582835	q1	q2	OK	561.967	133.482	-2.07384	1.78104	0.074906	0.754145
gene251	gene251	SACOL0261	gi 57650036 ref NC_002951.2 :298737-300114	q1	q2	OK	4.81508	48.737	3.33939	-2.0785	0.037664	0.634426
gene2510	gene2510	SACOL2522	gi 57650036 ref NC_002951.2 :2583381-2583993	q1	q2	OK	130.338	92.7631	-0.49064	0.391473	0.695448	0.978191
gene2511	gene2511	SACOL2523	gi 57650036 ref NC_002951.2 :2584089-2585710	q1	q2	OK	6.13283	32.7257	2.4158	-1.33443	0.182064	0.842707
gene2512	gene2512	SACOL2524	gi 57650036 ref NC_002951.2 :2584089-2585710	q1	q2	OK	4.41717	25.8174	2.54715	-0.62395	0.532662	0.963286
gene2513	gene2513	SACOL2525	gi 57650036 ref NC_002951.2 :2586137-2586833	q1	q2	OK	3.16516	33.5442	3.40571	-1.72135	0.085187	0.767592
gene2514	gene2514	SACOL2526	gi 57650036 ref NC_002951.2 :2586834-2587605	q1	q2	OK	9.36515	25.4974	1.44497	-0.77686	0.437242	0.956269
gene2515	gene2515	SACOL2527	gi 57650036 ref NC_002951.2 :2587977-2589942	q1	q2	OK	245.57	152.446	-0.68784	0.583056	0.559856	0.976548
gene2516	gene2516	SACOL2528	gi 57650036 ref NC_002951.2 :2590285-2591365	q1	q2	OK	56.1197	49.2101	-0.189552	0.153411	0.878074	0.984151
gene2517	gene2517	SACOL2529	gi 57650036 ref NC_002951.2 :2591469-2592063	q1	q2	OK	38.0602	63.949	0.74864	-0.45876	0.646407	0.978191
gene2518	gene2518	SACOL2530	gi 57650036 ref NC_002951.2 :2592084-2593053	q1	q2	OK	4.29844	71.8751	4.06361	-2.41052	0.01593	0.500083
gene2519	gene2519	SACOL2531	gi 57650036 ref NC_002951.2 :2593130-2593565	q1	q2	OK	52.3574	36.8409	-0.507084	0.278107	0.78093	0.982219
gene252	gene252	SACOL0262	gi 57650036 ref NC_002951.2 :300347-301340	q1	q2	OK	5.83011	37.4154	2.68204	-1.51625	0.129456	0.842707
gene2520	gene2520	SACOL2532	gi 57650036 ref NC_002951.2 :2593791-2594076	q1	q2	OK	324.987	83.2476	-1.9649	1.1456	0.251962	0.889805

gene2521	gene2521	SACOL2533	gi 57650036 ref NC_002951.2 :2594246-2595053	q1	q2	OK	191.123	191.033	-0.00068001	0.000674	0.999462	0.99997
gene2522	gene2522	frp	gi 57650036 ref NC_002951.2 :2595172-2595844	q1	q2	OK	236.278	327.067	0.469101	-0.45934	0.645989	0.978191
gene2523	gene2523	SACOL2535	gi 57650036 ref NC_002951.2 :2596113-2597106	q1	q2	OK	1317.33	775.554	-0.764314	0.575962	0.564641	0.976548
gene2524	gene2524	SACOL2536	gi 57650036 ref NC_002951.2 :2597354-2598155	q1	q2	OK	5.91905	61.6758	3.38127	-1.92795	0.053861	0.696046
gene2525	gene2525	SACOL2537	gi 57650036 ref NC_002951.2 :2598475-2599111	q1	q2	OK	6.73336	16.5451	1.29701	-0.64257	0.520502	0.963286
gene2526	gene2526	SACOL2538	gi 57650036 ref NC_002951.2 :2599116-2599848	q1	q2	OK	15.1253	22.8845	0.597402	-0.32613	0.744328	0.978191
gene2527	gene2527	srtA	gi 57650036 ref NC_002951.2 :2600007-2600628	q1	q2	OK	241.337	151.591	-0.67086	0.643945	0.519611	0.963286
gene2528	gene2528	SACOL2541	gi 57650036 ref NC_002951.2 :2600821-2601313	q1	q2	OK	31.8091	37.5657	0.239976	-0.13124	0.895585	0.984151
gene2529	gene2529	SACOL2542	gi 57650036 ref NC_002951.2 :2601750-2601921	q1	q2	OK	0	8.91167	1.79769e+30	1.79769e+	0.207933	0.842707
gene253	gene253	lytM	gi 57650036 ref NC_002951.2 :301647-302616	q1	q2	OK	293.727	133.137	-1.14156	1.09196	0.274852	0.909967
gene2530	gene2530	SACOL2543	gi 57650036 ref NC_002951.2 :2601982-2602081	q1	q2	NOTEST	0	0	0	0	1	1
gene2531	gene2531	sdaAA	gi 57650036 ref NC_002951.2 :2602099-2602999	q1	q2	OK	25.8952	47.126	0.863837	-0.55931	0.575948	0.976548
gene2532	gene2532	sdaAB	gi 57650036 ref NC_002951.2 :2603012-2603693	q1	q2	OK	9.33989	48.3331	2.37153	-1.30743	0.191067	0.842707
gene2533	gene2533	SACOL2546	gi 57650036 ref NC_002951.2 :2603695-2604739	q1	q2	OK	13.7994	32.747	1.24676	-0.75445	0.450581	0.956269
gene2534	gene2534	SACOL2547	gi 57650036 ref NC_002951.2 :2605290-2605494	q1	q2	OK	83.9935	14.1776	-2.56666	1.10886	0.267492	0.902533
gene2535	gene2535	SACOL2548	gi 57650036 ref NC_002951.2 :2605649-2606612	q1	q2	OK	28.0222	81.9043	1.54737	-1.12638	0.260006	0.898005
gene2536	gene2536	SACOL2549	gi 57650036 ref NC_002951.2 :2606693-2607662	q1	q2	OK	115.771	125.076	0.111528	-0.10989	0.912501	0.984151
gene2537	gene2537	SACOL2550	gi 57650036 ref NC_002951.2 :2607794-2608139	q1	q2	OK	77.9627	53.3317	-0.54779	0.29618	0.767093	0.978191
gene2538	gene2538	SACOL2551	gi 57650036 ref NC_002951.2 :2608180-2608591	q1	q2	OK	62.2874	74.9468	0.266927	-0.15436	0.877329	0.984151
gene2539	gene2539	SACOL2552	gi 57650036 ref NC_002951.2 :2608970-2611037	q1	q2	OK	6.37314	36.3288	2.51104	-1.71073	0.087131	0.771794
gene254	gene254	SACOL0264	gi 57650036 ref NC_002951.2 :302667-303327	q1	q2	OK	28.8785	36.738	0.347276	-0.20244	0.839572	0.984151
gene2540	gene2540	SACOL2553	gi 57650036 ref NC_002951.2 :2611337-2613077	q1	q2	OK	288.487	166.602	-0.792102	0.672907	0.501006	0.963286
gene2541	gene2541	SACOL2554	gi 57650036 ref NC_002951.2 :2613123-2614201	q1	q2	OK	140.143	206.561	0.559669	-0.51259	0.60824	0.978191
gene2542	gene2542	SACOL2554.1	gi 57650036 ref NC_002951.2 :2613123-2614201	q1	q2	OK	0	27.2327	1.79769e+30	1.79769e+	0.321427	0.927653
gene2543	gene2543	SACOL2555	gi 57650036 ref NC_002951.2 :2614413-2615298	q1	q2	OK	41.9844	35.4977	-0.24213	0.158702	0.873903	0.984151
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	q1	q2	OK	15413.5	556.962	-4.79047	3.35227	0.000802	0.281629
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	q1	q2	OK	374.736	45.3341	-3.04721	2.08167	0.037373	0.634426
gene2546	gene2546	SACOL2559	gi 57650036 ref NC_002951.2 :2617256-2617514	q1	q2	OK	25.7006	20.6908	-0.312809	0.139756	0.888853	0.984151
gene2547	gene2547	SACOL2560	gi 57650036 ref NC_002951.2 :2618092-2619370	q1	q2	OK	66.8526	83.6191	0.322848	-0.31196	0.755074	0.978191
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	q1	q2	OK	266.949	47.7584	-2.48273	2.12504	0.033584	0.620038
gene2549	gene2549	ogt	gi 57650036 ref NC_002951.2 :2620959-2621481	q1	q2	OK	431.495	194.883	-1.14673	1.09841	0.272024	0.906044
gene255	gene255	SACOL0265	gi 57650036 ref NC_002951.2 :303340-305424	q1	q2	OK	12.2514	27.3283	1.15744	-0.51744	0.604852	0.978191
gene2550	gene2550	SACOL2563	gi 57650036 ref NC_002951.2 :2621889-2623995	q1	q2	OK	195.744	152.09	-0.364036	0.310805	0.755949	0.978191

gene2551	gene2551	feoB	gi 57650036 ref NC_002951.2 :2624246-2626241	q1	q2	OK	3.37639	45.4664	3.75125	-2.39863	0.016456	0.500083
gene2552	gene2552	SACOL2565	gi 57650036 ref NC_002951.2 :2626252-2626480	q1	q2	OK	5.46018	12.8993	1.24027	-0.50667	0.612385	0.978191
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	q1	q2	OK	1.50798	24.8155	4.04056	-2.41135	0.015894	0.500083
gene2554	gene2554	SACOL2567	gi 57650036 ref NC_002951.2 :2629392-2629878	q1	q2	OK	12.1995	17.0648	0.484198	-0.23658	0.81298	0.984151
gene2555	gene2555	SACOL2568	gi 57650036 ref NC_002951.2 :2629954-2630122	q1	q2	OK	67.7747	0	-1.79769e+30	-1.79769e+	0.197167	0.842707
gene2556	gene2556	SACOL2569	gi 57650036 ref NC_002951.2 :2630233-2631778	q1	q2	OK	786.266	170.287	-2.20705	1.79158	0.0732	0.754145
gene2557	gene2557	SACOL2570	gi 57650036 ref NC_002951.2 :2631967-2632567	q1	q2	OK	44.8309	40.501	-0.146538	0.087337	0.930404	0.987716
gene2558	gene2558	SACOL2571	gi 57650036 ref NC_002951.2 :2632805-2632997	q1	q2	OK	0	43.9175	1.79769e+30	1.79769e+	0.190047	0.842707
gene2559	gene2559	SACOL2572	gi 57650036 ref NC_002951.2 :2633236-2635645	q1	q2	OK	100.381	90.6785	-0.14665	0.136552	0.891385	0.984151
gene256	gene256	SACOL0266	gi 57650036 ref NC_002951.2 :303340-305424	q1	q2	OK	14.2644	26.294	0.88231	-0.45016	0.652594	0.978191
gene2560	gene2560	SACOL2573	gi 57650036 ref NC_002951.2 :2635935-2636142	q1	q2	OK	639.507	49.4477	-3.69298	1.8729	0.061083	0.708721
gene2561	gene2561	SACOL2574	gi 57650036 ref NC_002951.2 :2636231-2637230	q1	q2	OK	148.481	80.1041	-0.890335	0.853345	0.393468	0.940909
gene2562	gene2562	SACOL2575	gi 57650036 ref NC_002951.2 :2637252-2638407	q1	q2	OK	46.0967	75.075	0.703669	-0.60324	0.546353	0.97151
gene2563	gene2563	crtN	gi 57650036 ref NC_002951.2 :2638833-2640342	q1	q2	OK	121.642	77.2595	-0.654855	0.641909	0.520932	0.963286
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	q1	q2	OK	122.412	101.403	-0.271649	0.259501	0.795249	0.983954
gene2565	gene2565	SACOL2578	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	158.321	187.298	0.242484	-0.12875	0.897553	0.984151
gene2566	gene2566	SACOL2579	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	130.14	177.232	0.445576	-0.26197	0.793349	0.9835
gene2567	gene2567	SACOL2580	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	73.1792	153.459	1.06835	-0.24397	0.807252	0.984151
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	q1	q2	OK	1013.87	129.043	-2.97396	2.55302	0.010679	0.500083
gene2569	gene2569	SACOL2582	gi 57650036 ref NC_002951.2 :2645663-2647475	q1	q2	OK	77.8627	45.0618	-0.789027	0.76681	0.443194	0.956269
gene257	gene257	SACOL0267	gi 57650036 ref NC_002951.2 :305491-307015	q1	q2	OK	67.3468	41.8207	-0.687394	0.637385	0.523874	0.963286
gene2570	gene2570	SACOL2583	gi 57650036 ref NC_002951.2 :2647986-2648475	q1	q2	NOTEST	0	0	0	0	1	1
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	q1	q2	OK	4031.85	301.461	-3.7414	3.06179	0.0022	0.338293
gene2572	gene2572	SACOL2585	gi 57650036 ref NC_002951.2 :2650059-2651115	q1	q2	OK	4.36241	45.482	3.3821	-1.9469	0.051547	0.6872
gene2573	gene2573	SACOL2587	gi 57650036 ref NC_002951.2 :2651491-2652094	q1	q2	OK	27.0237	26.8917	-0.00706479	0.003909	0.996881	0.998672
gene2574	gene2574	SACOL2588	gi 57650036 ref NC_002951.2 :2652291-2652792	q1	q2	OK	6.1564	15.2652	1.31009	-0.61914	0.535824	0.963603
gene2575	gene2575	SACOL2589	gi 57650036 ref NC_002951.2 :2653011-2653242	q1	q2	OK	10.4362	40.8303	1.96804	-0.85016	0.395237	0.940909
gene2576	gene2576	SACOL2590	gi 57650036 ref NC_002951.2 :2653391-2653769	q1	q2	OK	38.1649	50.287	0.397938	-0.20975	0.83386	0.984151
gene2577	gene2577	SACOL2591	gi 57650036 ref NC_002951.2 :2653785-2654607	q1	q2	OK	17.8479	55.1887	1.62862	-1.00984	0.312573	0.927653
gene2578	gene2578	SACOL2592	gi 57650036 ref NC_002951.2 :2654626-2654926	q1	q2	OK	7.27838	25.1503	1.78889	-0.79184	0.428454	0.954672
gene2579	gene2579	SACOL2593	gi 57650036 ref NC_002951.2 :2655056-2656311	q1	q2	OK	10.2191	28.4271	1.476	-0.6455	0.518602	0.963286
gene258	gene258	SACOL0268	gi 57650036 ref NC_002951.2 :307285-307939	q1	q2	NOTEST	0	0	0	0	1	1
gene2580	gene2580	SACOL2594	gi 57650036 ref NC_002951.2 :2655056-2656311	q1	q2	OK	2.21856	19.4157	3.12953	-0.93085	0.351933	0.93284

gene2581	gene2581	SACOL2595	gi 57650036 ref NC_002951.2 :2656320-2657419	q1	q2	NOTEST 0	0	0	0	1	1
gene2582	gene2582	SACOL2596	gi 57650036 ref NC_002951.2 :2656320-2657419	q1	q2	OK 11.6649	45.4022	1.96058	-1.02173	0.306907	0.927653
gene2583	gene2583	SACOL2597	gi 57650036 ref NC_002951.2 :2657438-2658269	q1	q2	OK 95.3023	60.4514	-0.656735	0.534322	0.593118	0.978191
gene2584	gene2584	SACOL2598	gi 57650036 ref NC_002951.2 :2658415-2659306	q1	q2	OK 13.7623	43.698	1.66684	-1.00066	0.31699	0.927653
gene2585	gene2585	SACOL2599	gi 57650036 ref NC_002951.2 :2659403-2660723	q1	q2	OK 13.0532	24.986	0.936722	-0.5799	0.561985	0.976548
gene2586	gene2586	SACOL2600	gi 57650036 ref NC_002951.2 :2660737-2661844	q1	q2	OK 9.67191	30.4008	1.65224	-0.97476	0.329682	0.927653
gene2587	gene2587	SACOL2601	gi 57650036 ref NC_002951.2 :2662177-2662830	q1	q2	OK 9.96492	21.1949	1.08879	-0.29886	0.765048	0.978191
gene2588	gene2588	SACOL2602	gi 57650036 ref NC_002951.2 :2662177-2662830	q1	q2	OK 10.0905	40.243	1.99575	-0.82278	0.410634	0.940909
gene2589	gene2589	SACOL2603	gi 57650036 ref NC_002951.2 :2662844-2663123	q1	q2	OK 5.8826	14.1732	1.26864	-0.53927	0.589701	0.978191
gene259	gene259	SACOL0269	gi 57650036 ref NC_002951.2 :307972-308560	q1	q2	NOTEST 0	0.781875	1.79769e+30	1.79769e+30	0.209916	1
gene2590	gene2590	SACOL2605	gi 57650036 ref NC_002951.2 :2663464-2664274	q1	q2	OK 33.5122	131.349	1.97065	-1.44726	0.147825	0.842707
gene2591	gene2591	pyrD	gi 57650036 ref NC_002951.2 :2664548-2665613	q1	q2	OK 16.2475	36.1581	1.1541	-0.72214	0.470207	0.956269
gene2592	gene2592	SACOL2607	gi 57650036 ref NC_002951.2 :2665767-2666043	q1	q2	OK 172.68	22.486	-2.941	1.48047	0.138748	0.842707
gene2593	gene2593	SACOL2608	gi 57650036 ref NC_002951.2 :2666228-2666951	q1	q2	OK 38.4948	45.1627	0.230469	-0.14438	0.885201	0.984151
gene2594	gene2594	SACOL2609	gi 57650036 ref NC_002951.2 :2667304-2667754	q1	q2	OK 2664.63	575.746	-2.21043	1.89162	0.058542	0.702279
gene2595	gene2595	SACOL2610	gi 57650036 ref NC_002951.2 :2667834-2668422	q1	q2	OK 29.8941	35.9662	0.266781	-0.15129	0.87975	0.984151
gene2596	gene2596	SACOL2612	gi 57650036 ref NC_002951.2 :2668554-2670237	q1	q2	OK 10.0992	44.7819	2.14868	-1.50182	0.133144	0.842707
gene2597	gene2597	panD	gi 57650036 ref NC_002951.2 :2670365-2670749	q1	q2	OK 81.5246	57.7086	-0.498449	0.281963	0.777972	0.981979
gene2598	gene2598	panC	gi 57650036 ref NC_002951.2 :2670750-2672413	q1	q2	OK 43.8493	120.74	1.46127	-0.99653	0.318992	0.927653
gene2599	gene2599	panB	gi 57650036 ref NC_002951.2 :2670750-2672413	q1	q2	OK 60.2711	69.062	0.196426	-0.12427	0.901101	0.984151
gene26	gene26	SACOL0025	gi 57650036 ref NC_002951.2 :33575-34055	q1	q2	OK 30.7913	115.824	1.91134	-1.14869	0.250683	0.889805
gene260	gene260	SACOL0270	gi 57650036 ref NC_002951.2 :308702-309596	q1	q2	OK 33.7739	71.1367	1.07469	-0.76907	0.441853	0.956269
gene2600	gene2600	SACOL2616	gi 57650036 ref NC_002951.2 :2672485-2673346	q1	q2	OK 44.2355	47.0321	0.0884429	-0.06014	0.952046	0.988316
gene2601	gene2601	budA2	gi 57650036 ref NC_002951.2 :2673431-2674136	q1	q2	OK 33.2785	54.2022	0.703762	-0.4403	0.659723	0.978191
gene2602	gene2602	ldh2	gi 57650036 ref NC_002951.2 :2674413-2675373	q1	q2	OK 20.5946	34.7908	0.756437	-0.46822	0.639626	0.978191
gene2603	gene2603	SACOL2619	gi 57650036 ref NC_002951.2 :2676059-2677508	q1	q2	OK 232.361	121.213	-0.938817	0.865354	0.386844	0.940893
gene2604	gene2604	SACOL2620	gi 57650036 ref NC_002951.2 :2677588-2678926	q1	q2	OK 76.2873	71.7786	-0.0878881	0.085908	0.93154	0.987716
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	q1	q2	OK 117.523	75.7335	-0.633939	0.391099	0.695724	0.978191
gene2606	gene2606	fdaB	gi 57650036 ref NC_002951.2 :2679722-2680613	q1	q2	OK 465.358	394.326	-0.238954	0.208564	0.834789	0.984151
gene2607	gene2607	mqs2	gi 57650036 ref NC_002951.2 :2680805-2682302	q1	q2	OK 831.839	184.705	-2.17109	1.75515	0.079234	0.758524
gene2608	gene2608	SACOL2624	gi 57650036 ref NC_002951.2 :2682986-2684585	q1	q2	OK 226.433	195.047	-0.215259	0.188034	0.85085	0.984151
gene2609	gene2609	SACOL2625	gi 57650036 ref NC_002951.2 :2684778-2685222	q1	q2	OK 210.689	135.417	-0.637706	0.486753	0.626433	0.978191
gene261	gene261	SACOL0271	gi 57650036 ref NC_002951.2 :309843-310137	q1	q2	OK 1783.38	594.1	-1.58584	1.51128	0.130717	0.842707

gene2610	gene2610	SACOL2626	gi 57650036 ref NC_002951.2 :2685502-2685715	q1	q2	OK	84.3557	23.0331	-1.87278	0.833899	0.404338	0.940909
gene2611	gene2611	betA	gi 57650036 ref NC_002951.2 :2685992-2687702	q1	q2	OK	119.132	43.5753	-1.45098	1.37055	0.170514	0.842707
gene2612	gene2612	betB	gi 57650036 ref NC_002951.2 :2687962-2689453	q1	q2	OK	134.493	28.2607	-2.25066	1.8569	0.063326	0.717594
gene2613	gene2613	SACOL2629	gi 57650036 ref NC_002951.2 :2689521-2689617	q1	q2	NOTEST 0		0	0	0	1	1
gene2614	gene2614	SACOL2630	gi 57650036 ref NC_002951.2 :2689705-2690269	q1	q2	OK	52.7058	33.5203	-0.652925	0.381849	0.702573	0.978191
gene2615	gene2615	SACOL2631	gi 57650036 ref NC_002951.2 :2690456-2691143	q1	q2	NOTEST 0		0	0	0	1	1
gene2616	gene2616	cudT	gi 57650036 ref NC_002951.2 :2691406-2693029	q1	q2	OK	96.9264	46.2073	-1.06877	1.02297	0.306322	0.927653
gene2617	gene2617	nrdG	gi 57650036 ref NC_002951.2 :2693547-2695931	q1	q2	OK	113.796	133.863	0.234306	-0.13601	0.891817	0.984151
gene2618	gene2618	nrdD	gi 57650036 ref NC_002951.2 :2693547-2695931	q1	q2	OK	35.8326	59.2055	0.724457	-0.57223	0.567166	0.976548
gene2619	gene2619	SACOL2636	gi 57650036 ref NC_002951.2 :2696177-2697548	q1	q2	OK	9.30819	36.7151	1.9798	-1.26783	0.204859	0.842707
gene262	gene262	SACOL0272	gi 57650036 ref NC_002951.2 :310220-313922	q1	q2	OK	24.5085	31.2769	0.351813	-0.32408	0.745878	0.978191
gene2620	gene2620	SACOL2637	gi 57650036 ref NC_002951.2 :2697869-2697965	q1	q2	NOTEST 0		0	0	0	1	1
gene2621	gene2621	SACOL2638	gi 57650036 ref NC_002951.2 :2698040-2698646	q1	q2	OK	30.7218	109.05	1.82766	-1.192	0.233261	0.867938
gene2622	gene2622	cysJ	gi 57650036 ref NC_002951.2 :2698708-2700589	q1	q2	OK	11.0836	31.5991	1.51145	-1.06029	0.289011	0.921417
gene2623	gene2623	SACOL2640	gi 57650036 ref NC_002951.2 :2700783-2700876	q1	q2	NOTEST 0		0	0	0	1	1
gene2624	gene2624	gpxA2	gi 57650036 ref NC_002951.2 :2700983-2701481	q1	q2	OK	45.8976	40.8711	-0.167339	0.095074	0.924256	0.986264
gene2625	gene2625	SACOL2642	gi 57650036 ref NC_002951.2 :2702175-2702289	q1	q2	NOTEST 0		0	0	0	1	1
gene2626	gene2626	SACOL2643	gi 57650036 ref NC_002951.2 :2702904-2705666	q1	q2	OK	18.2671	39.2741	1.10433	-0.82637	0.408597	0.940909
gene2627	gene2627	SACOL2644	gi 57650036 ref NC_002951.2 :2702904-2705666	q1	q2	OK	20.1215	48.2548	1.26193	-0.56374	0.572933	0.976548
gene2628	gene2628	nsaS	gi 57650036 ref NC_002951.2 :2705764-2706652	q1	q2	OK	30.5424	28.9064	-0.0794239	0.049073	0.960861	0.989588
gene2629	gene2629	SACOL2646	gi 57650036 ref NC_002951.2 :2706662-2707328	q1	q2	OK	54.0768	64.2584	0.248876	-0.16486	0.869053	0.984151
gene263	gene263	SACOL0273	gi 57650036 ref NC_002951.2 :310220-313922	q1	q2	OK	36.2281	37.082	0.033612	-0.01071	0.991457	0.997969
gene2630	gene2630	SACOL2647	gi 57650036 ref NC_002951.2 :2707353-2707554	q1	q2	OK	161.296	65.0177	-1.31081	0.61373	0.539394	0.965252
gene2631	gene2631	SACOL2648	gi 57650036 ref NC_002951.2 :2707751-2709176	q1	q2	OK	2.66694	26.2756	3.30047	-1.83813	0.066044	0.73141
gene2632	gene2632	SACOL2649	gi 57650036 ref NC_002951.2 :2709235-2709337	q1	q2	OK	12045.1	0	-1.79769e+30	-1.79769e+30	0.206988	0.842707
gene2633	gene2633	SACOL2650	gi 57650036 ref NC_002951.2 :2709458-2709914	q1	q2	OK	25.6831	24.735	-0.0542622	0.027903	0.977739	0.996527
gene2634	gene2634	SACOL2651	gi 57650036 ref NC_002951.2 :2710158-2710920	q1	q2	OK	16.663	40.299	1.2741	-0.74085	0.458785	0.956269
gene2635	gene2635	clfB	gi 57650036 ref NC_002951.2 :2711035-2713777	q1	q2	OK	99.2366	91.7586	-0.11303	0.102593	0.918286	0.984217
gene2636	gene2636	SACOL2653	gi 57650036 ref NC_002951.2 :2714126-2714813	q1	q2	OK	51.1652	25.7642	-0.989795	0.595365	0.5516	0.975381
gene2637	gene2637	arcC2	gi 57650036 ref NC_002951.2 :2714929-2715871	q1	q2	OK	20.516	47.1627	1.2009	-0.77065	0.440916	0.956269
gene2638	gene2638	arcD	gi 57650036 ref NC_002951.2 :2715887-2717318	q1	q2	OK	3.00752	61.5229	4.35448	-2.65788	0.007863	0.480028
gene2639	gene2639	arcB2	gi 57650036 ref NC_002951.2 :2717408-2718419	q1	q2	OK	1.62767	41.3211	4.666	-2.47082	0.01348	0.500083
gene264	gene264	SACOL0274	gi 57650036 ref NC_002951.2 :310220-313922	q1	q2	OK	8.82517	15.2034	0.784694	-0.06378	0.949143	0.987732

gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	q1	q2	OK	0.632964	32.0935	5.66401	-2.88093	0.003965	0.429773
gene2641	gene2641	SACOL2658	gi 57650036 ref NC_002951.2 :2720033-2720483	q1	q2	OK	5.6474	14.6209	1.37237	-0.63347	0.526426	0.963286
gene2642	gene2642	aur	gi 57650036 ref NC_002951.2 :2720849-2722379	q1	q2	OK	0.163506	8.46802	5.69461	-2.62025	0.008787	0.498321
gene2643	gene2643	isaB	gi 57650036 ref NC_002951.2 :2722802-2723330	q1	q2	NOTEST 0		0	0	0	1	1
gene2644	gene2644	SACOL2661	gi 57650036 ref NC_002951.2 :2723587-2724046	q1	q2	NOTEST 0		0	0	0	1	1
gene2645	gene2645	SACOL2662	gi 57650036 ref NC_002951.2 :2724285-2726160	q1	q2	OK	6.33803	19.4137	1.61497	-0.9891	0.322615	0.927653
gene2646	gene2646	SACOL2663	gi 57650036 ref NC_002951.2 :2726236-2728189	q1	q2	OK	8.52245	37.4747	2.13658	-1.49188	0.135731	0.842707
gene2647	gene2647	manA2	gi 57650036 ref NC_002951.2 :2728202-2729141	q1	q2	OK	14.929	43.2992	1.53622	-0.94223	0.346074	0.93284
gene2648	gene2648	SACOL2665	gi 57650036 ref NC_002951.2 :2729252-2732234	q1	q2	OK	45.5335	41.0213	-0.150556	0.148929	0.88161	0.984151
gene2649	gene2649	SACOL2666	gi 57650036 ref NC_002951.2 :2732444-2734304	q1	q2	OK	134.058	87.0407	-0.623092	0.591561	0.554144	0.976548
gene265	gene265	SACOL0275	gi 57650036 ref NC_002951.2 :313934-315269	q1	q2	OK	9.03311	38.6872	2.09856	-1.33963	0.180365	0.842707
gene2650	gene2650	SACOL2667	gi 57650036 ref NC_002951.2 :2734570-2735131	q1	q2	OK	147.494	266.101	0.851314	-0.77026	0.441144	0.956269
gene2651	gene2651	SACOL2668	gi 57650036 ref NC_002951.2 :2735298-2737206	q1	q2	OK	76.5953	59.0252	-0.375925	0.371591	0.710198	0.978191
gene2652	gene2652	SACOL2669	gi 57650036 ref NC_002951.2 :2737447-2740307	q1	q2	OK	73.3712	104.623	0.511917	-0.3176	0.750792	0.978191
gene2653	gene2653	SACOL2670	gi 57650036 ref NC_002951.2 :2737447-2740307	q1	q2	OK	74.4475	113.818	0.612439	-0.41448	0.678519	0.978191
gene2654	gene2654	SACOL2671	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	51.7405	109.5	1.08157	-0.82481	0.409479	0.940909
gene2655	gene2655	SACOL2672	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	5.22117	33.16	2.667	-0.50583	0.612974	0.978191
gene2656	gene2656	SACOL2673	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	4.763	46.0259	3.27251	-0.85641	0.391769	0.940909
gene2657	gene2657	SACOL2674	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	4.65614	33.5104	2.8474	-0.69843	0.484909	0.962734
gene2658	gene2658	secY	gi 57650036 ref NC_002951.2 :2746763-2747975	q1	q2	OK	2.37722	27.0944	3.51065	-1.88702	0.059157	0.702279
gene2659	gene2659	SACOL2676	gi 57650036 ref NC_002951.2 :2748104-2754890	q1	q2	OK	16.7632	20.0618	0.259154	-0.25601	0.79794	0.984151
gene266	gene266	yukA	gi 57650036 ref NC_002951.2 :315290-319730	q1	q2	OK	9.82813	27.7421	1.49709	-1.28902	0.197391	0.842707
gene2660	gene2660	SACOL2677	gi 57650036 ref NC_002951.2 :2755243-2755354	q1	q2	NOTEST 0		0	0	0	1	1
gene2661	gene2661	SACOL2678	gi 57650036 ref NC_002951.2 :2755434-2756127	q1	q2	OK	2.27528	4.14005	0.863604	-0.38482	0.700368	0.978191
gene2662	gene2662	SACOL2680	gi 57650036 ref NC_002951.2 :2756807-2757110	q1	q2	OK	2.3634	24.5296	3.37559	-1.45886	0.144602	0.842707
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	q1	q2	OK	250.657	262.027	0.0640022	-0.04872	0.961141	0.989588
gene2664	gene2664	SACOL2682	gi 57650036 ref NC_002951.2 :2757707-2758319	q1	q2	OK	17.5984	57.085	1.69766	-0.97015	0.331972	0.927653
gene2665	gene2665	SACOL2683	gi 57650036 ref NC_002951.2 :2758397-2758874	q1	q2	OK	8.41972	52.042	2.62783	-1.34321	0.179203	0.842707
gene2666	gene2666	SACOL2684	gi 57650036 ref NC_002951.2 :2758876-2759377	q1	q2	OK	4.6173	39.4904	3.09638	-1.52271	0.127832	0.842707
gene2667	gene2667	cap1C	gi 57650036 ref NC_002951.2 :2759611-2761068	q1	q2	OK	4.70838	31.5839	2.74588	-1.28731	0.197987	0.842707
gene2668	gene2668	cap1B	gi 57650036 ref NC_002951.2 :2759611-2761068	q1	q2	OK	0.910112	71.0019	6.28567	-1.53214	0.125488	0.842707
gene2669	gene2669	cap1A	gi 57650036 ref NC_002951.2 :2761084-2761747	q1	q2	OK	0	17.1546	1.79769e+30	1.79769e+	0.138827	0.842707
gene267	gene267	SACOL0277	gi 57650036 ref NC_002951.2 :319759-320152	q1	q2	NOTEST 0		0	0	0	1	1

gene2670	gene2670	icaR	gi 57650036 ref NC_002951.2 :2762595-2763156	q1	q2	OK	82.2929	67.293	-0.290311	0.190783	0.848695	0.984151
gene2671	gene2671	icaA	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	1.68292	46.3034	4.78208	-1.42305	0.15472	0.842707
gene2672	gene2672	icaD	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	11.515	20.5185	0.833409	-0.14268	0.88654	0.984151
gene2673	gene2673	icaB	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	0.977741	25.0321	4.67819	-0.85072	0.394924	0.940909
gene2674	gene2674	icaC	gi 57650036 ref NC_002951.2 :2763319-2766734	q1	q2	OK	9.0248	18.5925	1.04275	-0.46097	0.64482	0.978191
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	q1	q2	NOTEST 0		0	0	0	1	1
gene2676	gene2676	geh	gi 57650036 ref NC_002951.2 :2767124-2769167	q1	q2	OK	359.843	268.485	-0.422525	0.329443	0.741821	0.978191
gene2677	gene2677	SACOL2695	gi 57650036 ref NC_002951.2 :2769887-2770100	q1	q2	OK	0	11.5165	1.79769e+30	1.79769e+30	0.20195	0.842707
gene2678	gene2678	hisI	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	5.21746	35.891	2.78221	-0.73116	0.464684	0.956269
gene2679	gene2679	hisF	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	6.38337	55.3558	3.11635	-1.06483	0.286955	0.921417
gene268	gene268	SACOL0278	gi 57650036 ref NC_002951.2 :320167-321473	q1	q2	NOTEST 0		0	0	0	1	1
gene2680	gene2680	hisA	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	11.5365	69.9774	2.60068	-1.07957	0.280335	0.914891
gene2681	gene2681	hisH	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	2.40397	33.851	3.8157	-0.68647	0.492415	0.963286
gene2682	gene2682	hisB	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	3.00497	29.0532	3.27328	-0.63564	0.525009	0.963286
gene2683	gene2683	SACOL2701	gi 57650036 ref NC_002951.2 :2770259-2774476	q1	q2	OK	2.70248	23.0004	3.0893	-0.83022	0.406414	0.940909
gene2684	gene2684	hisD	gi 57650036 ref NC_002951.2 :2774491-2776349	q1	q2	OK	2.48041	19.7647	2.99428	-1.30942	0.190392	0.842707
gene2685	gene2685	hisG	gi 57650036 ref NC_002951.2 :2774491-2776349	q1	q2	OK	4.91163	20.5253	2.06313	-0.70917	0.47822	0.956269
gene2686	gene2686	hisZ	gi 57650036 ref NC_002951.2 :2776366-2777185	q1	q2	OK	3.22881	35.0291	3.43948	-1.79448	0.072736	0.754145
gene2687	gene2687	SACOL2705	gi 57650036 ref NC_002951.2 :2777489-2778614	q1	q2	OK	32.7018	60.6492	0.891119	-0.6774	0.498152	0.963286
gene2688	gene2688	SACOL2706	gi 57650036 ref NC_002951.2 :2778731-2779229	q1	q2	OK	7.77926	21.7756	1.48501	-0.7225	0.46999	0.956269
gene2689	gene2689	SACOL2707	gi 57650036 ref NC_002951.2 :2779275-2781818	q1	q2	OK	6.99881	25.6262	1.87244	-0.6866	0.492335	0.963286
gene269	gene269	SACOL0279	gi 57650036 ref NC_002951.2 :320167-321473	q1	q2	NOTEST 0		0	0	0	1	1
gene2690	gene2690	SACOL2708	gi 57650036 ref NC_002951.2 :2779275-2781818	q1	q2	OK	7.02741	34.8609	2.31055	-1.37778	0.168271	0.842707
gene2691	gene2691	SACOL2709	gi 57650036 ref NC_002951.2 :2781870-2782425	q1	q2	OK	5.80021	39.4376	2.76539	-1.40163	0.161027	0.842707
gene2692	gene2692	SACOL2710	gi 57650036 ref NC_002951.2 :2782453-2783302	q1	q2	OK	10.2464	62.7819	2.61523	-1.58595	0.11275	0.836566
gene2693	gene2693	SACOL2711	gi 57650036 ref NC_002951.2 :2783681-2784197	q1	q2	OK	825.877	298.22	-1.46955	1.39115	0.164179	0.842707
gene2694	gene2694	drp35	gi 57650036 ref NC_002951.2 :2784345-2785317	q1	q2	OK	15.127	35.4664	1.22933	-0.74328	0.45731	0.956269
gene2695	gene2695	SACOL2713	gi 57650036 ref NC_002951.2 :2785560-2786517	q1	q2	OK	78.3467	41.4741	-0.917661	0.710524	0.477379	0.956269
gene2696	gene2696	pcp	gi 57650036 ref NC_002951.2 :2786668-2787307	q1	q2	OK	15.4263	24.5388	0.66967	-0.35789	0.720425	0.978191
gene2697	gene2697	SACOL2715	gi 57650036 ref NC_002951.2 :2787425-2788521	q1	q2	NOTEST 0		0	0	0	1	1
gene2698	gene2698	SACOL2716	gi 57650036 ref NC_002951.2 :2787425-2788521	q1	q2	NOTEST 0		0	0	0	1	1
gene2699	gene2699	SACOL2717	gi 57650036 ref NC_002951.2 :2788687-2789152	q1	q2	OK	53.006	44.8998	-0.239448	0.136046	0.891785	0.984151
gene27	gene27	SACOL0026	gi 57650036 ref NC_002951.2 :34371-35667	q1	q2	NOTEST 0		0.0948871	1.79769e+30	1.79769e+30	0.207933	1

gene270	gene270	SACOL0280	gi 57650036 ref NC_002951.2 :320167-321473	q1	q2	NOTEST 0	0	0	0	1	1
gene2700	gene2700	SACOL2718	gi 57650036 ref NC_002951.2 :2789389-2790808	q1	q2	OK 23.9443	36.4005	0.604276	-0.43925	0.660481	0.978191
gene2701	gene2701	rarD	gi 57650036 ref NC_002951.2 :2791220-2792129	q1	q2	OK 54.8501	71.2675	0.377749	-0.29842	0.765382	0.978191
gene2702	gene2702	SACOL2720	gi 57650036 ref NC_002951.2 :2792353-2792929	q1	q2	OK 10.9099	18.8003	0.78512	-0.39552	0.692458	0.978191
gene2703	gene2703	nixA	gi 57650036 ref NC_002951.2 :2793057-2794110	q1	q2	OK 31.1624	33.865	0.119987	-0.07964	0.936523	0.987716
gene2704	gene2704	SACOL2722	gi 57650036 ref NC_002951.2 :2794352-2795147	q1	q2	NOTEST 0	0.172521	1.79769e+30	1.79769e+30	0.207933	1
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	q1	q2	OK 42.0525	66.5177	0.661549	-0.39261	0.694611	0.978191
gene2706	gene2706	SACOL2724	gi 57650036 ref NC_002951.2 :2796075-2798704	q1	q2	OK 5.18649	29.5109	2.50842	-0.99651	0.319004	0.927653
gene2707	gene2707	SACOL2725	gi 57650036 ref NC_002951.2 :2796075-2798704	q1	q2	OK 2.06207	19.9049	3.27096	-1.54129	0.123246	0.842707
gene2708	gene2708	SACOL2726	gi 57650036 ref NC_002951.2 :2798796-2798988	q1	q2	NOTEST 0	0	0	0	1	1
gene2709	gene2709	SACOL2727	gi 57650036 ref NC_002951.2 :2798999-2799536	q1	q2	OK 4.76991	4.77018	8.35E-05	-3.74E-05	0.99997	0.99997
gene271	gene271	SACOL0281	gi 57650036 ref NC_002951.2 :321482-323327	q1	q2	NOTEST 0	0	0	0	1	1
gene2710	gene2710	SACOL2728	gi 57650036 ref NC_002951.2 :2799595-2800093	q1	q2	OK 3.88963	11.7253	1.59192	-0.72657	0.467489	0.956269
gene2711	gene2711	SACOL2729	gi 57650036 ref NC_002951.2 :2800171-2800522	q1	q2	OK 9.74864	13.8	0.501391	-0.22615	0.821089	0.984151
gene2712	gene2712	SACOL2730	gi 57650036 ref NC_002951.2 :2800550-2800742	q1	q2	NOTEST 0	0	0	0	1	1
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	q1	q2	OK 3539.56	413.053	-3.09917	2.12497	0.033589	0.620038
gene2714	gene2714	SACOL2732	gi 57650036 ref NC_002951.2 :2801461-2802031	q1	q2	OK 24.6637	29.4555	0.256146	-0.13989	0.888746	0.984151
gene2715	gene2715	SACOL2733	gi 57650036 ref NC_002951.2 :2802290-2802671	q1	q2	OK 2.67716	208.76	6.285	-3.21409	0.001309	0.338293
gene2716	gene2716	SACOL2734	gi 57650036 ref NC_002951.2 :2802753-2803107	q1	q2	OK 4.77456	55.4685	3.53823	-1.65615	0.097692	0.809772
gene2717	gene2717	SACOL2735	gi 57650036 ref NC_002951.2 :2803560-2804400	q1	q2	OK 116.089	73.7663	-0.654198	0.57789	0.563338	0.976548
gene2718	gene2718	gidB	gi 57650036 ref NC_002951.2 :2804442-2807039	q1	q2	OK 92.0853	83.3589	-0.143634	0.07156	0.942952	0.987716
gene2719	gene2719	gidA	gi 57650036 ref NC_002951.2 :2804442-2807039	q1	q2	OK 73.5944	73.5916	-5.52E-05	4.53E-05	0.999964	0.99997
gene272	gene272	SACOL0282	gi 57650036 ref NC_002951.2 :323337-323829	q1	q2	OK 0	3.41507	1.79769e+30	1.79769e+30	0.188537	0.842707
gene2720	gene2720	trmE	gi 57650036 ref NC_002951.2 :2807105-2808485	q1	q2	OK 72.4083	57.085	-0.343043	0.328746	0.742348	0.978191
gene2721	gene2721	rnpA	gi 57650036 ref NC_002951.2 :2808623-2808971	q1	q2	OK 46.4569	31.2924	-0.57008	0.288385	0.773052	0.980274
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	q1	q2	OK 6554.64	308.159	-4.41077	2.15019	0.03154	0.604847
gene273	gene273	SACOL0283	gi 57650036 ref NC_002951.2 :324036-324720	q1	q2	NOTEST 0	0	0	0	1	1
gene274	gene274	SACOL0284	gi 57650036 ref NC_002951.2 :324866-325478	q1	q2	NOTEST 0	0	0	0	1	1
gene275	gene275	SACOL0285	gi 57650036 ref NC_002951.2 :325613-325832	q1	q2	OK 132.657	33.0617	-2.00447	0.934333	0.350132	0.93284
gene276	gene276	SACOL0286	gi 57650036 ref NC_002951.2 :325963-326464	q1	q2	OK 0.76955	16.2607	4.40123	-1.94764	0.051458	0.6872
gene277	gene277	SACOL0287	gi 57650036 ref NC_002951.2 :326474-326975	q1	q2	OK 0	1.65926	1.79769e+30	1.79769e+30	0.200139	0.842707
gene278	gene278	SACOL0288	gi 57650036 ref NC_002951.2 :326985-327481	q1	q2	OK 1.56722	32.029	4.3531	-2.01804	0.043587	0.650674
gene279	gene279	SACOL0289	gi 57650036 ref NC_002951.2 :327491-327983	q1	q2	OK 0	3.41507	1.79769e+30	1.79769e+30	0.188537	0.842707

gene28	gene28	SACOL0027	gi 57650036 ref NC_002951.2 :36081-36321	q1	q2	NOTEST	0	0	0	1	1	
gene280	gene280	SACOL0290	gi 57650036 ref NC_002951.2 :328192-328876	q1	q2	NOTEST	0	0	0	1	1	
gene281	gene281	SACOL0291	gi 57650036 ref NC_002951.2 :329461-329962	q1	q2	NOTEST	0	0	0	1	1	
gene282	gene282	SACOL0292	gi 57650036 ref NC_002951.2 :329973-330474	q1	q2	NOTEST	0	0	0	1	1	
gene283	gene283	SACOL0293	gi 57650036 ref NC_002951.2 :330484-330985	q1	q2	OK	3.0782	9.29185	1.59388	-0.71421	0.475095	0.956269
gene284	gene284	SACOL0294	gi 57650036 ref NC_002951.2 :330995-331496	q1	q2	OK	0	1.99111	1.79769e+30	1.79769e+30	0.197353	0.842707
gene285	gene285	SACOL0295	gi 57650036 ref NC_002951.2 :331506-332007	q1	q2	NOTEST	0	0	0	1	1	
gene286	gene286	SACOL0296	gi 57650036 ref NC_002951.2 :332017-332518	q1	q2	NOTEST	0	0	0	1	1	
gene287	gene287	SACOL0297	gi 57650036 ref NC_002951.2 :332528-333017	q1	q2	OK	0.804167	3.44851	2.10041	-0.87316	0.382575	0.940893
gene288	gene288	SACOL0299	gi 57650036 ref NC_002951.2 :333639-334014	q1	q2	OK	29.1545	43.9315	0.591537	-0.3032	0.761735	0.978191
gene289	gene289	SACOL0300	gi 57650036 ref NC_002951.2 :334166-334565	q1	q2	OK	79.6822	35.6444	-1.16058	0.639162	0.522718	0.963286
gene29	gene29	SACOL0028	gi 57650036 ref NC_002951.2 :36352-37027	q1	q2	OK	497.808	530.848	0.0927079	-0.0841	0.932973	0.987716
gene290	gene290	SACOL0301	gi 57650036 ref NC_002951.2 :334780-335626	q1	q2	OK	105.36	43.4772	-1.277	0.983054	0.325581	0.927653
gene291	gene291	brnQ2	gi 57650036 ref NC_002951.2 :335841-337149	q1	q2	OK	129.021	35.8604	-1.84715	1.57262	0.115808	0.838847
gene292	gene292	SACOL0303	gi 57650036 ref NC_002951.2 :337732-338623	q1	q2	OK	72.9722	30.7228	-1.24804	0.882803	0.377343	0.940261
gene293	gene293	SACOL0305	gi 57650036 ref NC_002951.2 :338871-339921	q1	q2	OK	116.314	186.475	0.68096	-0.66549	0.505736	0.963286
gene294	gene294	SACOL0306	gi 57650036 ref NC_002951.2 :339933-340611	q1	q2	OK	232.688	204.74	-0.184605	0.183009	0.854791	0.984151
gene295	gene295	pfoR	gi 57650036 ref NC_002951.2 :340818-341850	q1	q2	OK	149.29	107.216	-0.477596	0.471585	0.637223	0.978191
gene296	gene296	SACOL0308	gi 57650036 ref NC_002951.2 :342192-344209	q1	q2	OK	3.57836	33.96	3.24647	-1.48582	0.137325	0.842707
gene297	gene297	SACOL0309	gi 57650036 ref NC_002951.2 :342192-344209	q1	q2	OK	3.96466	44.6028	3.49186	-1.51995	0.128524	0.842707
gene298	gene298	SACOL0310	gi 57650036 ref NC_002951.2 :344219-345440	q1	q2	OK	3.21242	18.2116	2.50313	-1.32858	0.183986	0.842707
gene299	gene299	SACOL0311	gi 57650036 ref NC_002951.2 :345544-347077	q1	q2	OK	13.0505	35.5962	1.44761	-0.99053	0.321917	0.927653
gene3	gene3	recF	gi 57650036 ref NC_002951.2 :3696-5051	q1	q2	OK	283.877	134.218	-1.08069	0.903289	0.366373	0.93284
gene30	gene30	SACOL0029	gi 57650036 ref NC_002951.2 :37284-37452	q1	q2	OK	135.549	118.227	-0.197265	0.086822	0.930813	0.987716
gene300	gene300	nanA	gi 57650036 ref NC_002951.2 :347116-347998	q1	q2	OK	10.0573	30.8161	1.61544	-0.91022	0.362709	0.93284
gene301	gene301	SACOL0313	gi 57650036 ref NC_002951.2 :348155-349016	q1	q2	OK	18.0963	49.0567	1.43875	-0.89099	0.372933	0.93722
gene302	gene302	SACOL0314	gi 57650036 ref NC_002951.2 :349293-350094	q1	q2	OK	61.0402	58.7714	-0.0546439	0.039595	0.968416	0.992211
gene303	gene303	SACOL0315	gi 57650036 ref NC_002951.2 :350233-350902	q1	q2	OK	25.4175	37.1442	0.547314	-0.31699	0.75125	0.978191
gene304	gene304	SACOL0316	gi 57650036 ref NC_002951.2 :351028-352342	q1	q2	OK	1.56716	47.249	4.91406	-2.77702	0.005486	0.446636
gene305	gene305	SACOL0317	gi 57650036 ref NC_002951.2 :352759-354694	q1	q2	OK	15.2272	67.2189	2.14222	-1.6529	0.098352	0.81189
gene306	gene306	int	gi 57650036 ref NC_002951.2 :354784-355990	q1	q2	OK	5.65321	33.6537	2.57362	-1.50178	0.133155	0.842707
gene307	gene307	SACOL0319	gi 57650036 ref NC_002951.2 :356183-356897	q1	q2	OK	30.0543	34.5949	0.202987	-0.12045	0.904129	0.984151
gene308	gene308	SACOL0320	gi 57650036 ref NC_002951.2 :356974-357202	q1	q2	OK	27.3009	30.0983	0.140733	-0.06181	0.950711	0.988316

gene309	gene309	SACOL0321	gi 57650036 ref NC_002951.2 :357356-358076	q1	q2	NOTEST 0	0	0	0	1	1
gene31	gene31	SACOL0030	gi 57650036 ref NC_002951.2 :37549-37780	q1	q2	OK 0	6.12454	1.79769e+30	1.79769e+	0.209916	0.842707
gene310	gene310	SACOL0322	gi 57650036 ref NC_002951.2 :358217-358436	q1	q2	NOTEST 0	0	0	0	1	1
gene311	gene311	SACOL0323	gi 57650036 ref NC_002951.2 :358450-358759	q1	q2	NOTEST 0	0	0	0	1	1
gene312	gene312	SACOL0324	gi 57650036 ref NC_002951.2 :358762-358915	q1	q2	NOTEST 0	0	0	0	1	1
gene313	gene313	SACOL0325	gi 57650036 ref NC_002951.2 :358915-359707	q1	q2	NOTEST 0	0	0	0	1	1
gene314	gene314	SACOL0326	gi 57650036 ref NC_002951.2 :359707-359932	q1	q2	NOTEST 0	0	0	0	1	1
gene315	gene315	SACOL0327	gi 57650036 ref NC_002951.2 :359971-360551	q1	q2	NOTEST 0	0	0	0	1	1
gene316	gene316	SACOL0328	gi 57650036 ref NC_002951.2 :359971-360551	q1	q2	NOTEST 0	0	0	0	1	1
gene317	gene317	SACOL0329	gi 57650036 ref NC_002951.2 :360604-361172	q1	q2	NOTEST 0	0	0	0	1	1
gene318	gene318	SACOL0330	gi 57650036 ref NC_002951.2 :360604-361172	q1	q2	NOTEST 0	0	0	0	1	1
gene319	gene319	SACOL0331	gi 57650036 ref NC_002951.2 :361219-361640	q1	q2	NOTEST 0	0	0	0	1	1
gene32	gene32	SACOL0031	gi 57650036 ref NC_002951.2 :38328-39072	q1	q2	OK 256.538	80.9241	-1.66453	1.466	0.142648	0.842707
gene320	gene320	SACOL0332	gi 57650036 ref NC_002951.2 :361219-361640	q1	q2	NOTEST 0	0	0	0	1	1
gene321	gene321	SACOL0333	gi 57650036 ref NC_002951.2 :361694-361958	q1	q2	OK 10.2994	32.0806	1.63914	-0.72214	0.470206	0.956269
gene322	gene322	SACOL0334	gi 57650036 ref NC_002951.2 :361970-362132	q1	q2	NOTEST 0	0	0	0	1	1
gene323	gene323	SACOL0335	gi 57650036 ref NC_002951.2 :362221-362539	q1	q2	OK 2.08313	34.3018	4.04146	-1.77988	0.075096	0.754145
gene324	gene324	SACOL0336	gi 57650036 ref NC_002951.2 :362543-362804	q1	q2	OK 0	5.31875	1.79769e+30	1.79769e+	0.20195	0.842707
gene325	gene325	SACOL0337	gi 57650036 ref NC_002951.2 :362813-364070	q1	q2	NOTEST 0	0	0	0	1	1
gene326	gene326	SACOL0338	gi 57650036 ref NC_002951.2 :362813-364070	q1	q2	NOTEST 0	0	0	0	1	1
gene327	gene327	ssb1	gi 57650036 ref NC_002951.2 :362813-364070	q1	q2	NOTEST 0	0	0	0	1	1
gene328	gene328	SACOL0340	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 24.417	66.0595	1.43588	-0.74205	0.458055	0.956269
gene329	gene329	SACOL0341	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 3.6994	30.4108	3.03922	-0.8183	0.413184	0.94415
gene33	gene33	maoC	gi 57650036 ref NC_002951.2 :39168-39597	q1	q2	OK 60.0694	34.3074	-0.808111	0.443728	0.657239	0.978191
gene330	gene330	SACOL0342	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 3.11882	69.6599	4.48126	-0.58866	0.55609	0.976548
gene331	gene331	SACOL0343	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 1.46821	50.3606	5.10016	-1.26529	0.205766	0.842707
gene332	gene332	SACOL0344	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK 0	13.5125	1.79769e+30	1.79769e+	0.446447	0.956269
gene333	gene333	SACOL0345	gi 57650036 ref NC_002951.2 :367359-367581	q1	q2	OK 24.028	119.962	2.31979	-1.0674	0.285791	0.921417
gene334	gene334	SACOL0346	gi 57650036 ref NC_002951.2 :367590-368417	q1	q2	NOTEST 0	0	0	0	1	1
gene335	gene335	SACOL0347	gi 57650036 ref NC_002951.2 :367590-368417	q1	q2	OK 1.16876	17.5791	3.91082	-1.29002	0.197045	0.842707
gene336	gene336	SACOL0348	gi 57650036 ref NC_002951.2 :368421-368607	q1	q2	OK 0	5.71726	1.79769e+30	1.79769e+	0.207933	0.842707
gene337	gene337	SACOL0349	gi 57650036 ref NC_002951.2 :368607-368865	q1	q2	NOTEST 0	0	0	0	1	1
gene338	gene338	SACOL0350	gi 57650036 ref NC_002951.2 :368876-369233	q1	q2	NOTEST 0	0	0	0	1	1

gene339	gene339	SACOL0351	gi 57650036 ref NC_002951.2 :369236-369479	q1	q2	OK	4.41258	18.5819	2.0742	-0.86591	0.386538	0.940893
gene34	gene34	mecA	gi 57650036 ref NC_002951.2 :39642-41649	q1	q2	OK	530.598	423.241	-0.326141	0.243826	0.807366	0.984151
gene340	gene340	SACOL0352	gi 57650036 ref NC_002951.2 :369492-369699	q1	q2	OK	0	6.59303	1.79769e+30	1.79769e+	0.206623	0.842707
gene341	gene341	SACOL0353	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	1.18773	6.26088	2.39815	-0.29813	0.765605	0.978191
gene342	gene342	SACOL0354	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	18.2509	164.764	3.17436	-1.44899	0.147341	0.842707
gene343	gene343	SACOL0355	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	8.97928	156.94	4.12747	-1.22125	0.221993	0.854056
gene344	gene344	SACOL0356	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	9.57206	120.301	3.65168	-0.73826	0.460356	0.956269
gene345	gene345	dut	gi 57650036 ref NC_002951.2 :370985-371528	q1	q2	OK	14.7101	84.1404	2.51599	-1.42717	0.153531	0.842707
gene346	gene346	SACOL0358	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	7.89515	65.9303	3.0619	-0.74181	0.458205	0.956269
gene347	gene347	SACOL0359	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	NOTEST	0	0	0	0	1	1
gene348	gene348	SACOL0360	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	8.39935	450.14	5.74395	-2.01035	0.044394	0.650761
gene349	gene349	SACOL0361	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	0	51.651	1.79769e+30	1.79769e+	0.43258	0.956269
gene35	gene35	mecR1	gi 57650036 ref NC_002951.2 :41748-44481	q1	q2	OK	198.103	73.0248	-1.43979	1.26428	0.206128	0.842707
gene350	gene350	SACOL0362	gi 57650036 ref NC_002951.2 :372374-372882	q1	q2	OK	0	19.1228	1.79769e+30	1.79769e+	0.377571	0.940261
gene351	gene351	SACOL0363	gi 57650036 ref NC_002951.2 :372374-372882	q1	q2	OK	11.3734	31.3635	1.46342	-0.58434	0.558993	0.976548
gene352	gene352	SACOL0364	gi 57650036 ref NC_002951.2 :372894-373332	q1	q2	OK	2.97913	7.44712	1.32179	-0.57479	0.565432	0.976548
gene353	gene353	SACOL0365	gi 57650036 ref NC_002951.2 :373488-373803	q1	q2	OK	0	14.349	1.79769e+30	1.79769e+	0.17683	0.842707
gene354	gene354	SACOL0366	gi 57650036 ref NC_002951.2 :373931-375918	q1	q2	OK	6.909	12.824	0.892303	-0.15525	0.876627	0.984151
gene355	gene355	SACOL0367	gi 57650036 ref NC_002951.2 :373931-375918	q1	q2	OK	4.80043	6.29928	0.392023	-0.16799	0.866592	0.984151
gene356	gene356	SACOL0368	gi 57650036 ref NC_002951.2 :375922-377918	q1	q2	OK	38.4967	51.6037	0.42274	-0.33457	0.737952	0.978191
gene357	gene357	SACOL0369	gi 57650036 ref NC_002951.2 :375922-377918	q1	q2	OK	7.76176	21.4378	1.4657	-0.43797	0.661407	0.978191
gene358	gene358	SACOL0370	gi 57650036 ref NC_002951.2 :377929-379093	q1	q2	OK	8.40425	34.8787	2.05316	-1.23286	0.217627	0.850298
gene359	gene359	SACOL0371	gi 57650036 ref NC_002951.2 :379161-379440	q1	q2	OK	14.7065	22.8951	0.638588	-0.28512	0.775554	0.981122
gene36	gene36	SACOL0035	gi 57650036 ref NC_002951.2 :41748-44481	q1	q2	NOTEST	0	0	0	0	1	1
gene360	gene360	SACOL0372	gi 57650036 ref NC_002951.2 :379451-380182	q1	q2	OK	0	25.2763	1.79769e+30	1.79769e+	0.261153	0.898005
gene361	gene361	SACOL0373	gi 57650036 ref NC_002951.2 :379451-380182	q1	q2	OK	1.18773	39.0101	5.03756	-1.89059	0.058679	0.702279
gene362	gene362	SACOL0374	gi 57650036 ref NC_002951.2 :380182-380578	q1	q2	OK	6.13747	14.8542	1.27516	-0.57799	0.563274	0.976548
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	q1	q2	OK	3.57366	77.2752	4.43453	-2.37865	0.017376	0.500083
gene364	gene364	SACOL0376	gi 57650036 ref NC_002951.2 :381345-381801	q1	q2	OK	21.0968	60.6781	1.52415	-0.82319	0.410398	0.940909
gene365	gene365	SACOL0377	gi 57650036 ref NC_002951.2 :381858-382209	q1	q2	OK	1.62477	50.1817	4.94885	-2.24197	0.024964	0.598407
gene366	gene366	SACOL0378	gi 57650036 ref NC_002951.2 :382250-382409	q1	q2	OK	0	122.43	1.79769e+30	1.79769e+	0.190047	0.842707
gene367	gene367	SACOL0379	gi 57650036 ref NC_002951.2 :382422-389447	q1	q2	OK	3.07325	40.671	3.72616	-2.3797	0.017327	0.500083
gene368	gene368	SACOL0380	gi 57650036 ref NC_002951.2 :382422-389447	q1	q2	OK	2.48624	29.1101	3.54948	-0.69072	0.489742	0.963286

gene369	gene369	SACOL0381	gi 57650036 ref NC_002951.2 :389455-391329	q1	q2	OK	2.04121	22.3143	3.45047	-1.88799	0.059028	0.702279
gene37	gene37	SACOL0036	gi 57650036 ref NC_002951.2 :41748-44481	q1	q2	NOTEST	0	0	0	0	1	1
gene370	gene370	SACOL0382	gi 57650036 ref NC_002951.2 :389455-391329	q1	q2	OK	0	17.4927	1.79769e+30	1.79769e+	0.365609	0.93284
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	1.39247	45.9646	5.04481	-2.7676	0.005647	0.446636
gene372	gene372	SACOL0384	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	0.343581	12.2558	5.15667	-1.21587	0.224033	0.854232
gene373	gene373	SACOL0385	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	0	14.2648	1.79769e+30	1.79769e+	0.36308	0.93284
gene374	gene374	SACOL0386	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	0	21.8615	1.79769e+30	1.79769e+	0.462729	0.956269
gene375	gene375	SACOL0387	gi 57650036 ref NC_002951.2 :395312-395612	q1	q2	OK	0	11.6769	1.79769e+30	1.79769e+	0.18314	0.842707
gene376	gene376	SACOL0388	gi 57650036 ref NC_002951.2 :395747-396050	q1	q2	OK	0	1.75212	1.79769e+30	1.79769e+	0.206623	0.842707
gene377	gene377	SACOL0389	gi 57650036 ref NC_002951.2 :396061-397516	q1	q2	OK	1.04079	43.1753	5.37446	-2.98826	0.002806	0.346711
gene378	gene378	SACOL0390	gi 57650036 ref NC_002951.2 :398285-398408	q1	q2	NOTEST	0	0	0	0	1	1
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	q1	q2	OK	9.54219	5.56577	-0.777738	0.384615	0.700523	0.978191
gene38	gene38	SACOL0037	gi 57650036 ref NC_002951.2 :44616-45123	q1	q2	NOTEST	0	0	0	0	1	1
gene380	gene380	SACOL0392	gi 57650036 ref NC_002951.2 :399549-400749	q1	q2	OK	10.5008	32.0869	1.61148	-0.98416	0.325036	0.927653
gene381	gene381	SACOL0393	gi 57650036 ref NC_002951.2 :400844-400937	q1	q2	NOTEST	0	0	0	0	1	1
gene382	gene382	SACOL0394	gi 57650036 ref NC_002951.2 :401050-402052	q1	q2	OK	13.9951	48.8664	1.80392	-1.14258	0.253212	0.889805
gene383	gene383	SACOL0395	gi 57650036 ref NC_002951.2 :402085-402418	q1	q2	OK	29.6215	48.4463	0.709739	-0.35492	0.722651	0.978191
gene384	gene384	SACOL0396	gi 57650036 ref NC_002951.2 :402418-405153	q1	q2	OK	11.4682	61.505	2.42307	-1.04275	0.297062	0.924214
gene385	gene385	SACOL0397	gi 57650036 ref NC_002951.2 :402418-405153	q1	q2	OK	12.7321	34.5053	1.43834	-0.6607	0.508803	0.963286
gene386	gene386	SACOL0398	gi 57650036 ref NC_002951.2 :402418-405153	q1	q2	OK	8.01616	24.7655	1.62735	-0.63794	0.523514	0.963286
gene387	gene387	SACOL0399	gi 57650036 ref NC_002951.2 :405467-406493	q1	q2	OK	59.364	44.2188	-0.424928	0.329774	0.741571	0.978191
gene388	gene388	ulaA	gi 57650036 ref NC_002951.2 :406585-407932	q1	q2	OK	9.50705	36.3831	1.9362	-1.23447	0.21703	0.850298
gene389	gene389	SACOL0401	gi 57650036 ref NC_002951.2 :407946-408231	q1	q2	OK	2.77767	44.1932	3.99188	-1.7563	0.079038	0.758524
gene39	gene39	SACOL0038	gi 57650036 ref NC_002951.2 :45137-45449	q1	q2	OK	0	16.311	1.79769e+30	1.79769e+	0.17457	0.842707
gene390	gene390	SACOL0402	gi 57650036 ref NC_002951.2 :408232-408676	q1	q2	OK	1.93293	16.5735	3.10001	-1.37911	0.167861	0.842707
gene391	gene391	SACOL0403	gi 57650036 ref NC_002951.2 :408680-410636	q1	q2	OK	7.02809	23.531	1.74336	-1.12402	0.261003	0.898005
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	q1	q2	OK	83.3144	27.151	-1.61756	0.889661	0.373648	0.938071
gene393	gene393	SACOL0405	gi 57650036 ref NC_002951.2 :411373-412729	q1	q2	OK	3.58397	59.7832	4.06011	-2.49153	0.012719	0.500083
gene394	gene394	SACOL0406	gi 57650036 ref NC_002951.2 :412832-413273	q1	q2	OK	21.5507	19.6284	-0.134797	0.067161	0.946453	0.987716
gene395	gene395	glpT	gi 57650036 ref NC_002951.2 :413355-414714	q1	q2	OK	110.621	53.075	-1.05952	1.00598	0.314425	0.927653
gene396	gene396	SACOL0408	gi 57650036 ref NC_002951.2 :415021-415882	q1	q2	OK	114.61	248.087	1.11411	-1.06781	0.285605	0.921417
gene397	gene397	SACOL0409	gi 57650036 ref NC_002951.2 :415961-417023	q1	q2	OK	74.3945	150.772	1.0191	-0.96591	0.334088	0.927653
gene398	gene398	SACOL0410	gi 57650036 ref NC_002951.2 :417036-417603	q1	q2	OK	116.309	84.3836	-0.462931	0.336312	0.736635	0.978191

gene399	gene399	SACOL0411	gi 57650036 ref NC_002951.2 :417662-418658	q1	q2	OK	25.4422	38.1865	0.58584	-0.37913	0.704593	0.978191
gene4	gene4	gyrB	gi 57650036 ref NC_002951.2 :5060-6995	q1	q2	OK	189.216	138.658	-0.448506	0.394972	0.692864	0.978191
gene40	gene40	SACOL0039	gi 57650036 ref NC_002951.2 :45450-45886	q1	q2	NOTEST 0		0	0	0	1	1
gene400	gene400	SACOL0412	gi 57650036 ref NC_002951.2 :418755-419052	q1	q2	OK	7.47369	43.3114	2.53485	-1.14804	0.25095	0.889805
gene401	gene401	SACOL0413	gi 57650036 ref NC_002951.2 :419131-419677	q1	q2	OK	42.3955	71.2341	0.748657	-0.45664	0.647928	0.978191
gene402	gene402	SACOL0414	gi 57650036 ref NC_002951.2 :419944-423718	q1	q2	OK	2.70641	27.3398	3.33655	-0.98311	0.325556	0.927653
gene403	gene403	SACOL0415	gi 57650036 ref NC_002951.2 :419944-423718	q1	q2	OK	1.48572	43.4735	4.8709	-1.48479	0.1376	0.842707
gene404	gene404	SACOL0416	gi 57650036 ref NC_002951.2 :419944-423718	q1	q2	OK	3.15516	34.6538	3.45723	-1.70117	0.088912	0.775024
gene405	gene405	SACOL0417	gi 57650036 ref NC_002951.2 :423809-424466	q1	q2	OK	33.0213	67.2593	1.02634	-0.64509	0.518869	0.963286
gene406	gene406	SACOL0418	gi 57650036 ref NC_002951.2 :424527-424743	q1	q2	OK	53.253	70.2648	0.399939	-0.18395	0.854057	0.984151
gene407	gene407	SACOL0419	gi 57650036 ref NC_002951.2 :424851-425241	q1	q2	OK	104.125	42.7943	-1.28282	0.726435	0.467572	0.956269
gene408	gene408	SACOL0420	gi 57650036 ref NC_002951.2 :425481-426395	q1	q2	OK	58.7954	21.2664	-1.46713	0.187153	0.85154	0.984151
gene409	gene409	SACOL0421	gi 57650036 ref NC_002951.2 :425481-426395	q1	q2	OK	9.58253	64.6169	2.75343	-1.472	0.14102	0.842707
gene41	gene41	SACOL0040	gi 57650036 ref NC_002951.2 :45450-45886	q1	q2	NOTEST 0		0	0	0	1	1
gene410	gene410	SACOL0422	gi 57650036 ref NC_002951.2 :426419-427891	q1	q2	OK	8.96625	31.0363	1.79138	-0.60995	0.541898	0.967731
gene411	gene411	SACOL0424	gi 57650036 ref NC_002951.2 :426419-427891	q1	q2	OK	152.423	54.0795	-1.49493	1.03691	0.299779	0.924214
gene412	gene412	SACOL0425	gi 57650036 ref NC_002951.2 :428257-429391	q1	q2	OK	24.4012	41.3088	0.759498	-0.51911	0.603688	0.978191
gene413	gene413	SACOL0426	gi 57650036 ref NC_002951.2 :429929-431111	q1	q2	OK	102.523	41.4389	-1.30689	1.12496	0.260605	0.898005
gene414	gene414	SACOL0427	gi 57650036 ref NC_002951.2 :431193-431946	q1	q2	OK	18.1567	52.4189	1.52958	-0.91806	0.358588	0.93284
gene415	gene415	metE	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	8.52118	30.9748	1.86197	-0.99091	0.321732	0.927653
gene416	gene416	SACOL0429	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	6.33528	32.4691	2.35759	-1.04148	0.297653	0.924214
gene417	gene417	SACOL0430	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	5.24098	33.9059	2.69363	-0.85825	0.390754	0.940909
gene418	gene418	SACOL0431	gi 57650036 ref NC_002951.2 :431988-438284	q1	q2	OK	2.42622	31.1878	3.6842	-0.83947	0.401206	0.940909
gene419	gene419	SACOL0432	gi 57650036 ref NC_002951.2 :438947-439793	q1	q2	OK	12.355	42.2032	1.77226	-1.03592	0.300238	0.924214
gene42	gene42	ccrB	gi 57650036 ref NC_002951.2 :46351-47976	q1	q2	NOTEST 0		0	0	0	1	1
gene420	gene420	SACOL0433	gi 57650036 ref NC_002951.2 :439949-440831	q1	q2	OK	12.3283	36.7074	1.5741	-0.91615	0.359587	0.93284
gene421	gene421	SACOL0434	gi 57650036 ref NC_002951.2 :440860-441064	q1	q2	OK	83.9935	21.2664	-1.9817	0.865421	0.386808	0.940893
gene422	gene422	SACOL0435	gi 57650036 ref NC_002951.2 :441075-442173	q1	q2	OK	74.0188	46.8575	-0.659613	0.55821	0.576701	0.976548
gene423	gene423	SACOL0436	gi 57650036 ref NC_002951.2 :442258-442450	q1	q2	OK	785.834	136.632	-2.52393	1.31262	0.189311	0.842707
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	q1	q2	OK	700.035	70.9569	-3.30241	2.13832	0.032491	0.613628
gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	q1	q2	OK	248.962	111.119	-1.16382	0.946098	0.344099	0.93284
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	q1	q2	OK	1650.31	221.293	-2.8987	2.03027	0.042329	0.649031
gene427	gene427	SACOL0440	gi 57650036 ref NC_002951.2 :444073-445012	q1	q2	OK	5.67301	27.7953	2.29265	-1.24533	0.21301	0.849656

gene428	gene428	SACOL0441	gi 57650036 ref NC_002951.2 :445050-445598	q1	q2	OK	1.97506	117.688	5.89693	-3.07387	0.002113	0.338293
gene429	gene429	SACOL0442	gi 57650036 ref NC_002951.2 :445957-446569	q1	q2	OK	7.14937	30.0188	2.06998	-1.06107	0.288658	0.921417
gene43	gene43	ccrA1	gi 57650036 ref NC_002951.2 :47997-49347	q1	q2	NOTEST	0	0	0	0	1	1
gene430	gene430	SACOL0443	gi 57650036 ref NC_002951.2 :446937-447306	q1	q2	OK	0	31.1742	1.79769e+30	1.79769e+	0.149776	0.842707
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	q1	q2	OK	202.342	798.93	1.98127	-1.78823	0.07374	0.754145
gene432	gene432	SACOL0445	gi 57650036 ref NC_002951.2 :448196-448460	q1	q2	OK	484.072	57.745	-3.06745	1.74017	0.08183	0.761588
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	q1	q2	OK	11954.2	4953.79	-1.27091	1.01975	0.307846	0.927653
gene434	gene434	SACOL0447	gi 57650036 ref NC_002951.2 :449436-450018	q1	q2	OK	41.1217	54.4954	0.406235	-0.245	0.806455	0.984151
gene435	gene435	SACOL0448	gi 57650036 ref NC_002951.2 :450083-450467	q1	q2	OK	117.027	56.1347	-1.05988	0.61656	0.537525	0.964015
gene436	gene436	SACOL0449	gi 57650036 ref NC_002951.2 :450721-451348	q1	q2	OK	118.08	71.5626	-0.722482	0.541107	0.588434	0.978191
gene437	gene437	SACOL0450	gi 57650036 ref NC_002951.2 :451420-451714	q1	q2	OK	71.6422	38.7868	-0.885245	0.443266	0.657573	0.978191
gene438	gene438	ahpF	gi 57650036 ref NC_002951.2 :451792-453316	q1	q2	OK	1369.28	1655.66	0.27399	-0.19776	0.843236	0.984151
gene439	gene439	ahpC	gi 57650036 ref NC_002951.2 :453331-453901	q1	q2	OK	1588.96	3275.02	1.04342	-0.78748	0.431002	0.956269
gene44	gene44	SACOL0043	gi 57650036 ref NC_002951.2 :49534-51600	q1	q2	NOTEST	0	0	0	0	1	1
gene440	gene440	SACOL0453	gi 57650036 ref NC_002951.2 :454392-455148	q1	q2	OK	239.12	395.415	0.725629	-0.69016	0.490096	0.963286
gene441	gene441	SACOL0454	gi 57650036 ref NC_002951.2 :455228-456617	q1	q2	OK	140.032	65.679	-1.09226	1.05655	0.290717	0.923259
gene442	gene442	SACOL0455	gi 57650036 ref NC_002951.2 :457593-458550	q1	q2	OK	186.984	132.472	-0.497228	0.490458	0.62381	0.978191
gene443	gene443	SACOL0456	gi 57650036 ref NC_002951.2 :458667-459330	q1	q2	OK	83.6134	145.814	0.802325	-0.65726	0.511017	0.963286
gene444	gene444	SACOL0457	gi 57650036 ref NC_002951.2 :459472-459880	q1	q2	OK	2896.59	1238.54	-1.22571	1.01703	0.309139	0.927653
gene445	gene445	xpt	gi 57650036 ref NC_002951.2 :460391-462238	q1	q2	OK	106.977	49.8436	-1.10182	0.50185	0.615773	0.978191
gene446	gene446	pbuX	gi 57650036 ref NC_002951.2 :460391-462238	q1	q2	OK	125.253	67.3911	-0.894214	0.767726	0.44265	0.956269
gene447	gene447	guaB	gi 57650036 ref NC_002951.2 :462275-463742	q1	q2	OK	310.254	120.173	-1.36834	1.21883	0.222908	0.854232
gene448	gene448	guaA	gi 57650036 ref NC_002951.2 :463766-465308	q1	q2	OK	599.628	118.361	-2.34088	1.96522	0.049389	0.676522
gene449	gene449	SACOL0462	gi 57650036 ref NC_002951.2 :465420-465957	q1	q2	OK	6.81415	27.4286	2.00907	-0.99771	0.318419	0.927653
gene45	gene45	SACOL0044	gi 57650036 ref NC_002951.2 :49534-51600	q1	q2	NOTEST	0	0	0	0	1	1
gene450	gene450	SACOL0463	gi 57650036 ref NC_002951.2 :466349-467054	q1	q2	OK	3.5497	30.1348	3.08566	-1.56159	0.118385	0.840838
gene451	gene451	SACOL0464	gi 57650036 ref NC_002951.2 :467452-467725	q1	q2	OK	0	19.7274	1.79769e+30	1.79769e+	0.177853	0.842707
gene452	gene452	SACOL0465	gi 57650036 ref NC_002951.2 :467985-468138	q1	q2	OK	0	17.217	1.79769e+30	1.79769e+	0.207933	0.842707
gene453	gene453	SACOL0466	gi 57650036 ref NC_002951.2 :468661-469021	q1	q2	OK	68.7778	74.4395	0.114126	-0.06359	0.9493	0.987732
gene454	gene454	SACOL0467	gi 57650036 ref NC_002951.2 :469039-469885	q1	q2	OK	92.6623	71.5065	-0.373908	0.318979	0.749742	0.978191
gene455	gene455	SACOL0468	gi 57650036 ref NC_002951.2 :470356-471037	q1	q2	OK	117.683	103.026	-0.191896	0.164565	0.869287	0.984151
gene456	gene456	SACOL0469	gi 57650036 ref NC_002951.2 :471322-472018	q1	q2	OK	3.16516	68.529	4.43636	-2.37724	0.017443	0.500083
gene457	gene457	SACOL0470	gi 57650036 ref NC_002951.2 :472308-473367	q1	q2	OK	0.511382	76.1868	7.219	-3.82775	0.000129	0.14798

gene458	gene458	SACOL0471	gi 57650036 ref NC_002951.2 :473485-473623	q1	q2	OK	0	34.2398	1.79769e+30	1.79769e+30	0.207933	0.842707
gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	q1	q2	OK	0.91102	111.129	6.93053	-3.76192	0.000169	0.14798
gene46	gene46	SACOL0045	gi 57650036 ref NC_002951.2 :51770-53348	q1	q2	NOTEST	0	0	0	0	1	1
gene460	gene460	SACOL0473	gi 57650036 ref NC_002951.2 :475037-475736	q1	q2	OK	0.449313	26.1884	5.86507	-2.72327	0.006464	0.461354
gene461	gene461	SACOL0474	gi 57650036 ref NC_002951.2 :476101-476785	q1	q2	OK	2.31976	38.1401	4.03926	-2.01845	0.043544	0.650674
gene462	gene462	SACOL0475	gi 57650036 ref NC_002951.2 :476869-476971	q1	q2	NOTEST	0	0	0	0	1	1
gene463	gene463	hsdM1	gi 57650036 ref NC_002951.2 :477048-479809	q1	q2	OK	28.675	34.8208	0.280159	-0.18304	0.854766	0.984151
gene464	gene464	SACOL0477	gi 57650036 ref NC_002951.2 :477048-479809	q1	q2	OK	29.175	75.1255	1.36457	-0.92889	0.352944	0.93284
gene465	gene465	SACOL0478	gi 57650036 ref NC_002951.2 :480191-480869	q1	q2	OK	0	24.9527	1.79769e+30	1.79769e+30	0.12435	0.842707
gene466	gene466	SACOL0479	gi 57650036 ref NC_002951.2 :480890-482399	q1	q2	OK	7.14563	27.5586	1.94737	-1.19657	0.231473	0.863636
gene467	gene467	SACOL0480	gi 57650036 ref NC_002951.2 :482502-482811	q1	q2	OK	3418.86	6559.75	0.940125	-0.74925	0.453707	0.956269
gene468	gene468	SACOL0481	gi 57650036 ref NC_002951.2 :483148-483949	q1	q2	OK	0.739881	10.9342	3.88541	-1.76498	0.077567	0.758524
gene469	gene469	SACOL0482	gi 57650036 ref NC_002951.2 :483980-484772	q1	q2	NOTEST	0	0	0	0	1	1
gene47	gene47	SACOL0046	gi 57650036 ref NC_002951.2 :53427-54756	q1	q2	NOTEST	0	0	0	0	1	1
gene470	gene470	SACOL0483	gi 57650036 ref NC_002951.2 :484841-485618	q1	q2	NOTEST	0	0	0	0	1	1
gene471	gene471	SACOL0484	gi 57650036 ref NC_002951.2 :485793-486609	q1	q2	NOTEST	0	0.333602	1.79769e+30	1.79769e+30	0.206623	1
gene472	gene472	SACOL0485	gi 57650036 ref NC_002951.2 :486627-487413	q1	q2	OK	7.59614	27.8401	1.87382	-1.00375	0.315498	0.927653
gene473	gene473	SACOL0486	gi 57650036 ref NC_002951.2 :487592-490046	q1	q2	OK	68.8695	117.261	0.767786	-0.50182	0.615796	0.978191
gene474	gene474	SACOL0487	gi 57650036 ref NC_002951.2 :487592-490046	q1	q2	OK	43.0154	57.0092	0.406342	-0.26621	0.790075	0.982219
gene475	gene475	SACOL0488	gi 57650036 ref NC_002951.2 :487592-490046	q1	q2	OK	77.4195	129.169	0.738493	-0.22767	0.819901	0.984151
gene476	gene476	SACOL0489	gi 57650036 ref NC_002951.2 :490064-490379	q1	q2	OK	168.666	62.1789	-1.43968	0.808084	0.419042	0.949284
gene477	gene477	SACOL0490	gi 57650036 ref NC_002951.2 :490668-490929	q1	q2	OK	28.3908	31.9125	0.168698	-0.07731	0.938373	0.987716
gene478	gene478	SACOL0491	gi 57650036 ref NC_002951.2 :491047-492250	q1	q2	OK	3.05336	67.5053	4.46653	-2.6723	0.007533	0.480028
gene479	gene479	nuoF	gi 57650036 ref NC_002951.2 :493837-495322	q1	q2	OK	10.6684	47.5344	2.15563	-1.47989	0.138904	0.842707
gene48	gene48	SACOL0047	gi 57650036 ref NC_002951.2 :54774-55842	q1	q2	NOTEST	0	0	0	0	1	1
gene480	gene480	SACOL0495	gi 57650036 ref NC_002951.2 :495334-498040	q1	q2	OK	23.7492	78.2053	1.71939	-1.57933	0.11426	0.836663
gene481	gene481	SACOL0496	gi 57650036 ref NC_002951.2 :498201-498564	q1	q2	OK	197.792	105.999	-0.899932	0.573116	0.566566	0.976548
gene482	gene482	SACOL0497	gi 57650036 ref NC_002951.2 :498792-499140	q1	q2	OK	48.116	60.6689	0.33444	-0.17696	0.859544	0.984151
gene483	gene483	SACOL0498	gi 57650036 ref NC_002951.2 :499246-499921	q1	q2	OK	24.1333	41.8413	0.793902	-0.46376	0.642818	0.978191
gene484	gene484	SACOL0499	gi 57650036 ref NC_002951.2 :499957-500692	q1	q2	OK	48.4513	58.5262	0.272547	-0.18253	0.85517	0.984151
gene485	gene485	SACOL0500	gi 57650036 ref NC_002951.2 :500801-500918	q1	q2	OK	0	772.664	1.79769e+30	1.79769e+30	0.200139	0.842707
gene486	gene486	SACOL0501	gi 57650036 ref NC_002951.2 :501147-502485	q1	q2	OK	19.3593	36.9408	0.932188	-0.64411	0.519504	0.963286
gene487	gene487	SACOL0502	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	136.244	72.8474	-0.903247	0.417493	0.676318	0.978191

gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	372.193	69.7428	-2.41593	1.75782	0.078777	0.758524
gene489	gene489	SACOL0504	gi 57650036 ref NC_002951.2 :505035-506061	q1	q2	OK	67.6164	48.2273	-0.487523	0.39607	0.692053	0.978191
gene49	gene49	SACOL0048	gi 57650036 ref NC_002951.2 :55980-56241	q1	q2	NOTEST 0		0	0	0	1	1
gene490	gene490	SACOL0505	gi 57650036 ref NC_002951.2 :506064-506724	q1	q2	OK	58.2465	47.1397	-0.305228	0.195459	0.845033	0.984151
gene491	gene491	SACOL0506	gi 57650036 ref NC_002951.2 :506760-507603	q1	q2	OK	266.229	68.9517	-1.94901	1.70359	0.088457	0.775024
gene492	gene492	SACOL0507	gi 57650036 ref NC_002951.2 :507934-508939	q1	q2	OK	911.658	428.558	-1.089	0.868683	0.38502	0.940893
gene493	gene493	SACOL0508	gi 57650036 ref NC_002951.2 :509123-509393	q1	q2	OK	512.033	39.5617	-3.69406	2.07894	0.037622	0.634426
gene494	gene494	SACOL0509	gi 57650036 ref NC_002951.2 :509541-510412	q1	q2	OK	24.5499	28.7181	0.226245	-0.06496	0.948205	0.987716
gene495	gene495	SACOL0510	gi 57650036 ref NC_002951.2 :509541-510412	q1	q2	OK	94.3431	54.3288	-0.7962	0.458774	0.646396	0.978191
gene496	gene496	SACOL0511	gi 57650036 ref NC_002951.2 :510580-512472	q1	q2	OK	43.1484	34.842	-0.308479	0.173825	0.862003	0.984151
gene497	gene497	SACOL0512	gi 57650036 ref NC_002951.2 :510580-512472	q1	q2	OK	25.4577	30.2047	0.246676	-0.14707	0.883076	0.984151
gene498	gene498	gltC	gi 57650036 ref NC_002951.2 :512592-513477	q1	q2	OK	3.55253	41.063	3.53092	-1.90353	0.056972	0.696046
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	q1	q2	OK	7.14281	59.0685	3.04783	-2.34432	0.019062	0.51462
gene5	gene5	gyrA	gi 57650036 ref NC_002951.2 :7031-9695	q1	q2	OK	184.423	78.7627	-1.22743	1.0635	0.287553	0.921417
gene50	gene50	SACOL0049	gi 57650036 ref NC_002951.2 :56264-56996	q1	q2	NOTEST 0		0	0	0	1	1
gene500	gene500	gltD	gi 57650036 ref NC_002951.2 :518174-519638	q1	q2	OK	7.06045	46.005	2.70396	-1.76125	0.078196	0.758524
gene501	gene501	SACOL_tRNA	gi 57650036 ref NC_002951.2 :519906-519999	q1	q2	NOTEST 0		0	0	0	1	1
gene502	gene502	SACOL0516	gi 57650036 ref NC_002951.2 :520469-521897	q1	q2	OK	136.562	72.0203	-0.923081	0.899156	0.36857	0.93284
gene503	gene503	SACOL0517	gi 57650036 ref NC_002951.2 :521960-523601	q1	q2	OK	17.6321	54.6195	1.63121	-1.24189	0.214278	0.850184
gene504	gene504	SACOL0518	gi 57650036 ref NC_002951.2 :523625-524354	q1	q2	OK	19.4415	42.7331	1.13621	-0.66577	0.50556	0.963286
gene505	gene505	SACOL0519	gi 57650036 ref NC_002951.2 :524992-525517	q1	q2	OK	21.9628	24.687	0.168686	-0.08859	0.929405	0.987716
gene506	gene506	dnaX	gi 57650036 ref NC_002951.2 :525585-527283	q1	q2	OK	109.091	89.0258	-0.29324	0.285795	0.775035	0.981122
gene507	gene507	SACOL0521	gi 57650036 ref NC_002951.2 :527372-527690	q1	q2	OK	647.852	392.132	-0.724326	0.648471	0.51668	0.963286
gene508	gene508	recR	gi 57650036 ref NC_002951.2 :527696-528293	q1	q2	OK	470.215	90.5121	-2.37714	1.96607	0.049291	0.676522
gene509	gene509	rrsA	gi 57650036 ref NC_002951.2 :529145-530700	q1	q2	OK	13564.4	7000.1	-0.954375	0.755912	0.449702	0.956269
gene51	gene51	pls	gi 57650036 ref NC_002951.2 :57211-61858	q1	q2	NOTEST 0		0	0	0	1	1
gene510	gene510	rrlA	gi 57650036 ref NC_002951.2 :531064-533987	q1	q2	OK	34074.4	18743.7	-0.862281	0.91399	0.360722	0.93284
gene511	gene511	rrfA	gi 57650036 ref NC_002951.2 :534059-534174	q1	q2	OK	45071.6	92577.3	1.03844	-0.68515	0.493252	0.963286
gene512	gene512	SACOL0523	gi 57650036 ref NC_002951.2 :535056-536394	q1	q2	OK	23.7679	31.0888	0.387382	-0.2667	0.789698	0.982219
gene513	gene513	tmk	gi 57650036 ref NC_002951.2 :536395-537013	q1	q2	OK	46.0349	40.2823	-0.192579	0.115954	0.907689	0.984151
gene514	gene514	SACOL0525	gi 57650036 ref NC_002951.2 :537040-537370	q1	q2	OK	1469.94	649.023	-1.17942	1.15087	0.249785	0.889805
gene515	gene515	SACOL0526	gi 57650036 ref NC_002951.2 :537583-538510	q1	q2	OK	92.3167	94.807	0.0384014	-0.03599	0.971287	0.993606
gene516	gene516	SACOL0527	gi 57650036 ref NC_002951.2 :538510-539314	q1	q2	OK	88.6948	106.604	0.26534	-0.23575	0.813629	0.984151

gene517	gene517	SACOL0528	gi 57650036 ref NC_002951.2 :539330-539678	q1	q2	OK	174.213	56.1986	-1.63225	0.948302	0.342976	0.93284
gene518	gene518	SACOL0529	gi 57650036 ref NC_002951.2 :539951-540918	q1	q2	OK	19.1325	49.7741	1.37937	-0.70776	0.479093	0.956269
gene519	gene519	SACOL0530	gi 57650036 ref NC_002951.2 :539951-540918	q1	q2	OK	12.2622	57.4004	2.22684	-0.37666	0.706424	0.978191
gene52	gene52	SACOL0051	gi 57650036 ref NC_002951.2 :61981-63598	q1	q2	NOTEST 0		0	0	0	1	1
gene520	gene520	SACOL0531	gi 57650036 ref NC_002951.2 :540919-541759	q1	q2	OK	15.9406	38.0885	1.25665	-0.74146	0.458412	0.956269
gene521	gene521	SACOL0532	gi 57650036 ref NC_002951.2 :541783-541939	q1	q2	NOTEST 0		0	0	0	1	1
gene522	gene522	metS	gi 57650036 ref NC_002951.2 :542043-544017	q1	q2	OK	55.1584	44.643	-0.305148	0.299032	0.764916	0.978191
gene523	gene523	SACOL0534	gi 57650036 ref NC_002951.2 :544047-544821	q1	q2	OK	90.8126	89.324	-0.0238445	0.02025	0.983844	0.997969
gene524	gene524	SACOL0535	gi 57650036 ref NC_002951.2 :544987-545524	q1	q2	OK	38.8407	59.3292	0.611173	-0.36116	0.717979	0.978191
gene525	gene525	ksgA	gi 57650036 ref NC_002951.2 :545534-546428	q1	q2	OK	39.8277	45.7413	0.199727	-0.13524	0.892421	0.984151
gene526	gene526	SACOL0537	gi 57650036 ref NC_002951.2 :546527-546791	q1	q2	OK	7154.65	3415.94	-1.0666	0.898078	0.369144	0.932852
gene527	gene527	ipk	gi 57650036 ref NC_002951.2 :547100-547949	q1	q2	OK	85.3868	90.8435	0.0893698	-0.07899	0.937037	0.987716
gene528	gene528	purR	gi 57650036 ref NC_002951.2 :547962-548787	q1	q2	OK	157.344	97.0336	-0.697362	0.662138	0.507883	0.963286
gene529	gene529	SACOL0540	gi 57650036 ref NC_002951.2 :548803-549184	q1	q2	OK	669.289	1115.16	0.73655	-0.7039	0.481495	0.959525
gene53	gene53	SACOL0052	gi 57650036 ref NC_002951.2 :63757-65269	q1	q2	NOTEST 0		0	0	0	1	1
gene530	gene530	spoVG	gi 57650036 ref NC_002951.2 :549255-549558	q1	q2	OK	2647.01	2246.21	-0.236868	0.212881	0.83142	0.984151
gene531	gene531	SACOL0542	gi 57650036 ref NC_002951.2 :549747-549879	q1	q2	OK	0	48.2322	1.79769e+30	1.79769e+	0.207933	0.842707
gene532	gene532	glmU	gi 57650036 ref NC_002951.2 :549901-551254	q1	q2	OK	102.698	72.1224	-0.50989	0.501919	0.615724	0.978191
gene533	gene533	prsA	gi 57650036 ref NC_002951.2 :551400-552366	q1	q2	OK	203.131	89.1428	-1.18822	1.13962	0.254446	0.890115
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	q1	q2	OK	2062.58	154.65	-3.73737	3.10445	0.001906	0.338293
gene535	gene535	pth	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	83.1374	109.068	0.391658	-0.08236	0.934357	0.987716
gene536	gene536	mfd	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	89.6472	53.8005	-0.736637	0.407474	0.68366	0.978191
gene537	gene537	SACOL0548	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	77.3525	64.9092	-0.253026	0.089451	0.928723	0.987716
gene538	gene538	SACOL0549	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	117.544	102.681	-0.195026	0.07417	0.940875	0.987716
gene539	gene539	SACOL0550	gi 57650036 ref NC_002951.2 :553479-560527	q1	q2	OK	68.6626	100.091	0.543719	-0.04569	0.963557	0.989588
gene54	gene54	SACOL0054	gi 57650036 ref NC_002951.2 :65291-67344	q1	q2	NOTEST 0		0	0	0	1	1
gene540	gene540	SACOL0551	gi 57650036 ref NC_002951.2 :560544-560937	q1	q2	OK	181.007	114.501	-0.660684	0.437835	0.661506	0.978191
gene541	gene541	SACOL0552	gi 57650036 ref NC_002951.2 :561041-561443	q1	q2	OK	504.787	128.589	-1.97291	1.54168	0.123151	0.842707
gene542	gene542	SACOL0553	gi 57650036 ref NC_002951.2 :561622-562918	q1	q2	OK	16.333	28.2764	0.791804	-0.50705	0.612122	0.978191
gene543	gene543	hpt	gi 57650036 ref NC_002951.2 :562922-563462	q1	q2	OK	45.8978	39.6149	-0.212383	0.12302	0.902092	0.984151
gene544	gene544	SACOL0555	gi 57650036 ref NC_002951.2 :563718-565812	q1	q2	OK	482.164	269.114	-0.841303	0.644553	0.519217	0.963286
gene545	gene545	hslO	gi 57650036 ref NC_002951.2 :566040-566922	q1	q2	OK	95.7064	90.0312	-0.0881907	0.08098	0.935458	0.987716
gene546	gene546	cysK	gi 57650036 ref NC_002951.2 :567100-568033	q1	q2	OK	1069.22	366.199	-1.54586	1.256	0.209114	0.842707

gene547	gene547	folP	gi 57650036 ref NC_002951.2 :568248-569868	q1	q2	OK	42.3233	106.944	1.33733	-0.90455	0.365703	0.93284
gene548	gene548	folB	gi 57650036 ref NC_002951.2 :568248-569868	q1	q2	OK	38.2062	38.5963	0.0146568	-0.00404	0.996773	0.998672
gene549	gene549	folK	gi 57650036 ref NC_002951.2 :568248-569868	q1	q2	OK	112.824	55.2722	-1.02945	0.506832	0.612273	0.978191
gene55	gene55	SACOL0057	gi 57650036 ref NC_002951.2 :68406-68499	q1	q2	NOTEST	0	0	0	0	1	1
gene550	gene550	SACOL0561	gi 57650036 ref NC_002951.2 :570261-570354	q1	q2	NOTEST	0	0	0	0	1	1
gene551	gene551	lysS	gi 57650036 ref NC_002951.2 :570406-571894	q1	q2	OK	292.431	93.2318	-1.6492	1.48722	0.136958	0.842707
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	q1	q2	OK	95151.2	143284	0.59058	-0.44745	0.654549	0.978191
gene554	gene554	rrsB	gi 57650036 ref NC_002951.2 :572775-574330	q1	q2	OK	12940.6	6902.65	-0.906683	0.714797	0.474734	0.956269
gene555	gene555	SACOL_tRNA	gi 57650036 ref NC_002951.2 :574422-574499	q1	q2	NOTEST	0	0	0	0	1	1
gene556	gene556	rrlB	gi 57650036 ref NC_002951.2 :574666-577589	q1	q2	OK	43064.9	19131.2	-1.17058	1.63393	0.102274	0.815096
gene557	gene557	rrfB	gi 57650036 ref NC_002951.2 :577661-577776	q1	q2	OK	85969.9	115434	0.425159	-0.31202	0.755025	0.978191
gene558	gene558	rrsC	gi 57650036 ref NC_002951.2 :577987-579542	q1	q2	OK	13472.1	7233.97	-0.897119	0.712647	0.476064	0.956269
gene559	gene559	rrlC	gi 57650036 ref NC_002951.2 :579844-582767	q1	q2	OK	33161.6	16420.7	-1.014	1.05037	0.293548	0.924214
gene56	gene56	SACOL0058	gi 57650036 ref NC_002951.2 :68645-70391	q1	q2	NOTEST	0	0	0	0	1	1
gene560	gene560	rrfC	gi 57650036 ref NC_002951.2 :582839-582954	q1	q2	OK	80127.3	83934.2	0.0669651	-0.04658	0.962846	0.989588
gene561	gene561	SACOL0563	gi 57650036 ref NC_002951.2 :583478-584861	q1	q2	OK	3.5005	27.4591	2.97165	-1.68417	0.09215	0.784058
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	q1	q2	OK	192.899	57.0639	-1.7572	1.49855	0.133991	0.842707
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	q1	q2	OK	287.392	86.001	-1.74059	1.4043	0.16023	0.842707
gene564	gene564	nupC	gi 57650036 ref NC_002951.2 :586623-587838	q1	q2	OK	177.968	37.5559	-2.2445	1.87262	0.061121	0.708721
gene565	gene565	ctsR	gi 57650036 ref NC_002951.2 :587995-588457	q1	q2	OK	101.071	124.422	0.299878	-0.20266	0.8394	0.984151
gene566	gene566	SACOL0568	gi 57650036 ref NC_002951.2 :588475-590039	q1	q2	OK	97.028	210.822	1.11955	-0.66168	0.508179	0.963286
gene567	gene567	SACOL0569	gi 57650036 ref NC_002951.2 :588475-590039	q1	q2	OK	75.4313	149.117	0.983213	-0.74344	0.457218	0.956269
gene568	gene568	clpC	gi 57650036 ref NC_002951.2 :590052-592508	q1	q2	OK	141.708	139.316	-0.0245539	0.02112	0.98315	0.997969
gene569	gene569	radA	gi 57650036 ref NC_002951.2 :592994-594359	q1	q2	OK	57.4527	84.078	0.549353	-0.52663	0.598448	0.978191
gene57	gene57	SACOL0059	gi 57650036 ref NC_002951.2 :70484-70937	q1	q2	OK	41.8092	32.825	-0.349026	0.188738	0.850298	0.984151
gene570	gene570	SACOL0573	gi 57650036 ref NC_002951.2 :594383-595457	q1	q2	OK	59.0275	25.7189	-1.19856	0.85817	0.390798	0.940909
gene571	gene571	gltX	gi 57650036 ref NC_002951.2 :596013-597468	q1	q2	OK	104.773	45.9983	-1.18761	1.11298	0.265716	0.902533
gene572	gene572	cysE	gi 57650036 ref NC_002951.2 :597896-600319	q1	q2	OK	218.504	155.24	-0.493156	0.193558	0.846522	0.984151
gene573	gene573	cysS	gi 57650036 ref NC_002951.2 :597896-600319	q1	q2	OK	308.596	114.977	-1.42438	0.972283	0.33091	0.927653
gene574	gene574	SACOL0577	gi 57650036 ref NC_002951.2 :597896-600319	q1	q2	OK	323.746	112.126	-1.52974	0.430105	0.667119	0.978191
gene575	gene575	SACOL0578	gi 57650036 ref NC_002951.2 :600326-601597	q1	q2	OK	324.854	82.9274	-1.96987	1.36674	0.171706	0.842707
gene576	gene576	SACOL0579	gi 57650036 ref NC_002951.2 :600326-601597	q1	q2	OK	444.216	90.416	-2.29661	1.35973	0.173914	0.842707
gene577	gene577	SACOL0580	gi 57650036 ref NC_002951.2 :601677-602247	q1	q2	OK	225.673	51.8199	-2.12266	1.56016	0.118723	0.840841

gene578	gene578	secE	gi 57650036 ref NC_002951.2 :602560-602743	q1	q2	OK	351.197	93.0935	-1.91553	0.906444	0.364701	0.93284
gene579	gene579	nusG	gi 57650036 ref NC_002951.2 :602755-603304	q1	q2	OK	330.135	98.6227	-1.74307	1.44593	0.148197	0.842707
gene58	gene58	SACOL0061	gi 57650036 ref NC_002951.2 :71151-72167	q1	q2	NOTEST 0		0	0	0	1	1
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	q1	q2	OK	641.238	106.768	-2.58638	1.99876	0.045635	0.650761
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	q1	q2	OK	1165.85	82.801	-3.81559	2.98064	0.002876	0.346711
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	q1	q2	OK	319.363	95.9051	-1.73552	1.37692	0.168536	0.842707
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	q1	q2	OK	1543.84	81.6196	-4.24146	2.95916	0.003085	0.349558
gene584	gene584	SACOL0587	gi 57650036 ref NC_002951.2 :606164-606773	q1	q2	OK	72.6043	32.4601	-1.16139	0.715413	0.474354	0.956269
gene585	gene585	rpoB	gi 57650036 ref NC_002951.2 :606987-610539	q1	q2	OK	413.04	130.15	-1.66611	1.27456	0.202466	0.842707
gene586	gene586	rpoC	gi 57650036 ref NC_002951.2 :610675-614299	q1	q2	OK	512.717	111.955	-2.19524	1.68975	0.091075	0.784058
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	q1	q2	OK	300.339	55.8742	-2.42634	1.29708	0.194604	0.842707
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	q1	q2	OK	1560.12	184.938	-3.07654	2.53299	0.01131	0.500083
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	q1	q2	OK	2363.33	176.595	-3.74231	3.02857	0.002457	0.340313
gene59	gene59	SACOL0062	gi 57650036 ref NC_002951.2 :71151-72167	q1	q2	NOTEST 0		0	0	0	1	1
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	q1	q2	OK	1136.3	182.768	-2.63626	2.04442	0.040912	0.643773
gene591	gene591	tuf	gi 57650036 ref NC_002951.2 :618157-619342	q1	q2	OK	2226.03	370.358	-2.58748	1.99592	0.045942	0.650761
gene592	gene592	SACOL0595	gi 57650036 ref NC_002951.2 :619623-620799	q1	q2	OK	52.0329	81.9958	0.656125	-0.58866	0.55609	0.976548
gene593	gene593	SACOL0596	gi 57650036 ref NC_002951.2 :620969-622157	q1	q2	OK	493.257	288.236	-0.775088	0.647163	0.517526	0.963286
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	q1	q2	OK	1414.79	886.744	-0.673999	0.509973	0.61007	0.978191
gene595	gene595	SACOL0598	gi 57650036 ref NC_002951.2 :623460-625098	q1	q2	OK	24.3144	49.9412	1.03842	-0.83884	0.401561	0.940909
gene596	gene596	SACOL0599	gi 57650036 ref NC_002951.2 :625311-626277	q1	q2	OK	154.794	77.8145	-0.992236	0.939523	0.347463	0.93284
gene597	gene597	ilvE	gi 57650036 ref NC_002951.2 :626611-627834	q1	q2	OK	268.069	195.138	-0.458107	0.404982	0.685491	0.978191
gene598	gene598	SACOL0601	gi 57650036 ref NC_002951.2 :626611-627834	q1	q2	OK	36.8104	56.6759	0.622623	-0.02941	0.97654	0.996166
gene599	gene599	SACOL0602	gi 57650036 ref NC_002951.2 :627937-628621	q1	q2	OK	169.806	90.1876	-0.912889	0.797673	0.42506	0.951235
gene6	gene6	SACOL0007	gi 57650036 ref NC_002951.2 :9781-10483	q1	q2	OK	66.9743	51.6675	-0.374351	0.252995	0.800272	0.984151
gene60	gene60	SACOL0063	gi 57650036 ref NC_002951.2 :72303-73371	q1	q2	NOTEST 0		0	0	0	1	1
gene600	gene600	SACOL0603	gi 57650036 ref NC_002951.2 :628736-630009	q1	q2	OK	84.5857	47.725	-0.825667	0.530527	0.595746	0.978191
gene601	gene601	SACOL0604	gi 57650036 ref NC_002951.2 :628736-630009	q1	q2	OK	17.3308	27.9064	0.687263	-0.24434	0.806968	0.984151
gene602	gene602	SACOL0605	gi 57650036 ref NC_002951.2 :630075-630545	q1	q2	OK	21.642	44.4861	1.03952	-0.55404	0.579554	0.976548
gene603	gene603	SACOL0606	gi 57650036 ref NC_002951.2 :630692-631562	q1	q2	OK	22.8011	29.9708	0.394451	-0.2366	0.812965	0.984151
gene604	gene604	SACOL0607	gi 57650036 ref NC_002951.2 :631582-632149	q1	q2	OK	93.9182	43.4287	-1.11276	0.71155	0.476744	0.956269
gene605	gene605	sdrC	gi 57650036 ref NC_002951.2 :632578-635422	q1	q2	OK	5.46158	42.7911	2.96992	-2.09997	0.035731	0.626017
gene606	gene606	sdrD	gi 57650036 ref NC_002951.2 :635788-639934	q1	q2	OK	18.8968	49.7377	1.3962	-1.32585	0.18489	0.842707

gene607	gene607	sdrE	gi 57650036 ref NC_002951.2 :640327-643828	q1	q2	OK	67.1955	55.6488	-0.272015	0.254865	0.798828	0.984151
gene608	gene608	SACOL0611	gi 57650036 ref NC_002951.2 :643946-645419	q1	q2	OK	29.577	28.1637	-0.0706419	0.051692	0.958774	0.989588
gene609	gene609	SACOL0612	gi 57650036 ref NC_002951.2 :645542-647033	q1	q2	OK	112.077	77.9995	-0.522959	0.515043	0.606523	0.978191
gene61	gene61	SACOL0064	gi 57650036 ref NC_002951.2 :73401-74736	q1	q2	NOTEST	0	0	0	0	1	1
gene610	gene610	SACOL0613	gi 57650036 ref NC_002951.2 :647314-648193	q1	q2	OK	264.316	104.376	-1.34047	1.28189	0.199883	0.842707
gene611	gene611	SACOL0614	gi 57650036 ref NC_002951.2 :648205-648871	q1	q2	OK	76.2868	65.5698	-0.218403	0.15281	0.878548	0.984151
gene612	gene612	SACOL0615	gi 57650036 ref NC_002951.2 :648884-649247	q1	q2	OK	262.225	137.623	-0.930078	0.639323	0.522613	0.963286
gene613	gene613	nagB	gi 57650036 ref NC_002951.2 :649522-650281	q1	q2	OK	19.5491	38.4925	0.977476	-0.57303	0.566623	0.976548
gene614	gene614	SACOL0617	gi 57650036 ref NC_002951.2 :650357-650990	q1	q2	OK	260.351	266.72	0.0348662	-0.03454	0.972447	0.993959
gene615	gene615	SACOL0618	gi 57650036 ref NC_002951.2 :650991-651540	q1	q2	OK	584.793	237.906	-1.29754	1.25019	0.211229	0.846615
gene616	gene616	SACOL0619	gi 57650036 ref NC_002951.2 :651643-652300	q1	q2	OK	5.4214	46.1016	3.08808	-1.62715	0.103705	0.816291
gene617	gene617	proP	gi 57650036 ref NC_002951.2 :652801-654202	q1	q2	OK	430.511	251.631	-0.774739	0.640242	0.522015	0.963286
gene618	gene618	SACOL0621	gi 57650036 ref NC_002951.2 :654745-656122	q1	q2	OK	2.40754	31.6658	3.71729	-2.08734	0.036857	0.634426
gene619	gene619	atoB	gi 57650036 ref NC_002951.2 :656123-657603	q1	q2	OK	6.99272	62.4576	3.15895	-1.56856	0.11675	0.838847
gene62	gene62	SACOL0065	gi 57650036 ref NC_002951.2 :74754-75948	q1	q2	NOTEST	0	0	0	0	1	1
gene620	gene620	SACOL0623	gi 57650036 ref NC_002951.2 :656123-657603	q1	q2	OK	0	39.1724	1.79769e+30	1.79769e+	0.265991	0.902533
gene621	gene621	SACOL0624	gi 57650036 ref NC_002951.2 :657605-657875	q1	q2	OK	19.322	49.1524	1.34702	-0.62483	0.532086	0.963286
gene622	gene622	SACOL0625	gi 57650036 ref NC_002951.2 :658075-658243	q1	q2	OK	248.507	98.5221	-1.33477	0.596961	0.550533	0.974772
gene623	gene623	thiD1	gi 57650036 ref NC_002951.2 :658749-659580	q1	q2	OK	144.536	89.2921	-0.694824	0.648663	0.516556	0.963286
gene624	gene624	ung	gi 57650036 ref NC_002951.2 :659763-660420	q1	q2	OK	61.6068	44.0972	-0.482404	0.308197	0.757932	0.978191
gene625	gene625	SACOL0628	gi 57650036 ref NC_002951.2 :660420-660801	q1	q2	OK	72.2832	49.5272	-0.545441	0.301253	0.763221	0.978191
gene626	gene626	SACOL0629	gi 57650036 ref NC_002951.2 :660933-661302	q1	q2	OK	54.7767	56.1135	0.0347847	-0.01881	0.984996	0.997969
gene627	gene627	SACOL0630	gi 57650036 ref NC_002951.2 :661422-662907	q1	q2	OK	335.122	310.677	-0.10927	0.089328	0.928822	0.987716
gene628	gene628	SACOL0631	gi 57650036 ref NC_002951.2 :663048-663501	q1	q2	OK	23.2273	58.616	1.33547	-0.72288	0.469751	0.956269
gene629	gene629	SACOL0632	gi 57650036 ref NC_002951.2 :663513-664278	q1	q2	OK	49.7119	46.2593	-0.10385	0.068463	0.945417	0.987716
gene63	gene63	SACOL0066	gi 57650036 ref NC_002951.2 :76214-76316	q1	q2	NOTEST	0	0	0	0	1	1
gene630	gene630	SACOL0633	gi 57650036 ref NC_002951.2 :664826-665579	q1	q2	OK	405.096	202.452	-1.00069	0.958719	0.3377	0.93058
gene631	gene631	eutD	gi 57650036 ref NC_002951.2 :665746-666733	q1	q2	OK	206.217	75.2576	-1.45426	1.36096	0.173525	0.842707
gene632	gene632	SACOL0635	gi 57650036 ref NC_002951.2 :666735-667572	q1	q2	OK	242.716	64.7405	-1.90653	1.64145	0.100704	0.815096
gene633	gene633	mvk	gi 57650036 ref NC_002951.2 :668158-669079	q1	q2	OK	52.9875	74.2585	0.486905	-0.3869	0.698829	0.978191
gene634	gene634	mvaD	gi 57650036 ref NC_002951.2 :669083-670067	q1	q2	OK	104.499	80.2852	-0.380276	0.359892	0.718928	0.978191
gene635	gene635	SACOL0638	gi 57650036 ref NC_002951.2 :670079-671156	q1	q2	OK	109.13	66.7392	-0.709439	0.667859	0.504223	0.963286
gene636	gene636	SACOL0639	gi 57650036 ref NC_002951.2 :671332-671674	q1	q2	OK	22.5136	34.4549	0.613908	-0.29877	0.765114	0.978191

gene637	gene637	SACOL0640	gi 57650036 ref NC_002951.2 :671726-673476	q1	q2	OK	19.2349	36.4077	0.920519	-0.59824	0.549677	0.974547
gene638	gene638	SACOL0641	gi 57650036 ref NC_002951.2 :671726-673476	q1	q2	OK	3.91832	30.2604	2.94913	-0.48366	0.628624	0.978191
gene639	gene639	SACOL0642	gi 57650036 ref NC_002951.2 :673533-673635	q1	q2	NOTEST 0		0	0	0	1	1
gene64	gene64	SACOL0067	gi 57650036 ref NC_002951.2 :76614-77547	q1	q2	OK	25.5939	58.2878	1.18739	-0.80619	0.420136	0.949284
gene640	gene640	SACOL0643	gi 57650036 ref NC_002951.2 :674100-675510	q1	q2	OK	16.7441	44.3279	1.40456	-0.9974	0.318571	0.927653
gene641	gene641	SACOL0644	gi 57650036 ref NC_002951.2 :675513-676140	q1	q2	OK	6.88357	19.02	1.46629	-0.73168	0.464365	0.956269
gene642	gene642	SACOL0645	gi 57650036 ref NC_002951.2 :676265-676907	q1	q2	OK	6.6368	24.8385	1.90402	-0.96826	0.332913	0.927653
gene643	gene643	SACOL0646	gi 57650036 ref NC_002951.2 :676994-677612	q1	q2	OK	12.4565	28.1491	1.17619	-0.62165	0.534175	0.963286
gene644	gene644	SACOL0647	gi 57650036 ref NC_002951.2 :677686-678316	q1	q2	OK	9.46074	35.8956	1.92378	-1.02032	0.307575	0.927653
gene645	gene645	SACOL0648	gi 57650036 ref NC_002951.2 :678511-679132	q1	q2	OK	6.98748	16.3883	1.22982	-0.60773	0.543366	0.968963
gene646	gene646	SACOL0649	gi 57650036 ref NC_002951.2 :679262-679904	q1	q2	OK	5.61576	33.118	2.56006	-1.3146	0.188643	0.842707
gene647	gene647	SACOL0650	gi 57650036 ref NC_002951.2 :679950-680580	q1	q2	OK	7.88395	26.9217	1.77178	-0.91152	0.36202	0.93284
gene648	gene648	SACOL0651	gi 57650036 ref NC_002951.2 :681032-681662	q1	q2	OK	1.05119	22.6709	4.43074	-2.05518	0.039862	0.641477
gene649	gene649	SACOL0652	gi 57650036 ref NC_002951.2 :681776-682427	q1	q2	OK	1.99909	24.5867	3.62046	-1.73687	0.08241	0.763748
gene65	gene65	SACOL0068	gi 57650036 ref NC_002951.2 :77909-78113	q1	q2	OK	0	10.6332	1.79769e+30	1.79769e+30	0.209916	0.842707
gene650	gene650	SACOL0653	gi 57650036 ref NC_002951.2 :682463-683099	q1	q2	OK	5.69746	35.1875	2.62667	-1.35309	0.176028	0.842707
gene651	gene651	SACOL0654	gi 57650036 ref NC_002951.2 :683333-683960	q1	q2	OK	5.82456	23.0617	1.98528	-0.99388	0.320283	0.927653
gene652	gene652	SACOL0655	gi 57650036 ref NC_002951.2 :684229-685168	q1	q2	OK	332.618	181.019	-0.877727	0.828826	0.407203	0.940909
gene653	gene653	SACOL0656	gi 57650036 ref NC_002951.2 :685378-685915	q1	q2	OK	1452.78	350.31	-2.05211	1.81074	0.070181	0.754145
gene654	gene654	SACOL0657	gi 57650036 ref NC_002951.2 :686083-686560	q1	q2	OK	66.5158	49.8885	-0.414989	0.244263	0.807027	0.984151
gene655	gene655	SACOL0658	gi 57650036 ref NC_002951.2 :686599-687895	q1	q2	OK	112.738	66.2312	-0.767388	0.746501	0.455365	0.956269
gene656	gene656	SACOL0659	gi 57650036 ref NC_002951.2 :687922-688444	q1	q2	OK	348.488	97.1303	-1.84311	1.49279	0.135491	0.842707
gene657	gene657	adhP	gi 57650036 ref NC_002951.2 :688942-689953	q1	q2	OK	18.4469	46.9326	1.34721	-0.87483	0.381665	0.940893
gene658	gene658	SACOL0661	gi 57650036 ref NC_002951.2 :690027-690135	q1	q2	NOTEST 0		0	0	0	1	1
gene659	gene659	SACOL0662	gi 57650036 ref NC_002951.2 :690215-692302	q1	q2	OK	82.8543	82.7665	-0.00152942	0.000533	0.999575	0.99997
gene66	gene66	SACOL0069	gi 57650036 ref NC_002951.2 :78161-78458	q1	q2	OK	0	2.76456	1.79769e+30	1.79769e+30	0.209916	0.842707
gene660	gene660	argS	gi 57650036 ref NC_002951.2 :690215-692302	q1	q2	OK	113.455	52.2017	-1.11995	1.00063	0.317006	0.927653
gene661	gene661	SACOL0664	gi 57650036 ref NC_002951.2 :692690-693326	q1	q2	OK	23.3078	33.3232	0.515718	-0.29038	0.771527	0.980274
gene662	gene662	SACOL0665	gi 57650036 ref NC_002951.2 :693704-694592	q1	q2	OK	54.3333	38.9413	-0.480537	0.332862	0.739238	0.978191
gene663	gene663	SACOL0666	gi 57650036 ref NC_002951.2 :694739-695690	q1	q2	OK	29.9527	37.9482	0.341344	-0.22153	0.824682	0.984151
gene664	gene664	SACOL0667	gi 57650036 ref NC_002951.2 :695744-697248	q1	q2	OK	33.9941	28.5072	-0.253959	0.121513	0.903285	0.984151
gene665	gene665	SACOL0668	gi 57650036 ref NC_002951.2 :695744-697248	q1	q2	OK	44.7628	52.1084	0.219216	-0.14024	0.888469	0.984151
gene666	gene666	SACOL0669	gi 57650036 ref NC_002951.2 :697383-697890	q1	q2	OK	427.888	139.405	-1.61795	1.42637	0.15376	0.842707

gene667	gene667	SACOL0670	gi 57650036 ref NC_002951.2 :698051-698768	q1	q2	OK	85.2855	62.0794	-0.458187	0.337925	0.73542	0.978191
gene668	gene668	SACOL0671	gi 57650036 ref NC_002951.2 :698936-699725	q1	q2	OK	624.49	497.771	-0.327198	0.279688	0.779717	0.982219
gene669	gene669	sarA	gi 57650036 ref NC_002951.2 :699975-700350	q1	q2	OK	7682.91	1515.09	-2.34225	1.85912	0.06301	0.717594
gene67	gene67	SACOL0070	gi 57650036 ref NC_002951.2 :78529-80204	q1	q2	NOTEST 0		0	0	0	1	1
gene670	gene670	SACOL0673	gi 57650036 ref NC_002951.2 :700497-700617	q1	q2	NOTEST 0		0	0	0	1	1
gene671	gene671	SACOL0675	gi 57650036 ref NC_002951.2 :701297-702191	q1	q2	OK	34.0925	55.0975	0.692533	-0.47487	0.634877	0.978191
gene672	gene672	SACOL0676	gi 57650036 ref NC_002951.2 :702421-702646	q1	q2	OK	5.72229	18.1492	1.66524	-0.68748	0.491781	0.963286
gene673	gene673	SACOL0677	gi 57650036 ref NC_002951.2 :702662-702866	q1	q2	OK	0	10.6332	1.79769e+30	1.79769e+	0.209916	0.842707
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	q1	q2	OK	31.0181	105.826	1.77051	-1.11695	0.264018	0.901051
gene675	gene675	SACOL0679	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	39.3023	73.2241	0.897705	-0.56119	0.574671	0.976548
gene676	gene676	SACOL0680	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	74.5989	103.756	0.475976	-0.12104	0.903657	0.984151
gene677	gene677	SACOL0681	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	42.371	95.6068	1.17404	-0.20154	0.840275	0.984151
gene678	gene678	SACOL0682	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	69.949	81.0192	0.211961	-0.11882	0.905418	0.984151
gene679	gene679	SACOL0684	gi 57650036 ref NC_002951.2 :708245-709439	q1	q2	OK	25.502	29.1944	0.195085	-0.06468	0.948426	0.987716
gene68	gene68	SACOL0071	gi 57650036 ref NC_002951.2 :78529-80204	q1	q2	NOTEST 0		0	0	0	1	1
gene680	gene680	SACOL0685	gi 57650036 ref NC_002951.2 :708245-709439	q1	q2	OK	106.353	80.5974	-0.400056	0.150166	0.880634	0.984151
gene681	gene681	SACOL0686	gi 57650036 ref NC_002951.2 :708245-709439	q1	q2	OK	102.284	69.5064	-0.557357	0.298356	0.765432	0.978191
gene682	gene682	SACOL0687	gi 57650036 ref NC_002951.2 :709778-711821	q1	q2	OK	54.2406	92.0504	0.763052	-0.74364	0.457094	0.956269
gene683	gene683	SACOL0688	gi 57650036 ref NC_002951.2 :712980-715480	q1	q2	OK	253.7	260.379	0.0374919	-0.0194	0.984524	0.997969
gene684	gene684	SACOL0689	gi 57650036 ref NC_002951.2 :712980-715480	q1	q2	OK	153.221	219.407	0.518	-0.21312	0.831233	0.984151
gene685	gene685	SACOL0690	gi 57650036 ref NC_002951.2 :712980-715480	q1	q2	OK	202.357	343.645	0.764017	-0.34766	0.728096	0.978191
gene686	gene686	sirR	gi 57650036 ref NC_002951.2 :715601-716246	q1	q2	OK	134.832	155.833	0.208829	-0.19147	0.848154	0.984151
gene687	gene687	SACOL0692	gi 57650036 ref NC_002951.2 :716325-717078	q1	q2	OK	14.1219	25.1907	0.83496	-0.45945	0.645914	0.978191
gene688	gene688	tagA	gi 57650036 ref NC_002951.2 :717313-718078	q1	q2	OK	37.8758	48.4362	0.35481	-0.22771	0.819873	0.984151
gene689	gene689	SACOL0694	gi 57650036 ref NC_002951.2 :718138-718933	q1	q2	OK	207.473	89.8836	-1.20679	1.11826	0.263456	0.900955
gene69	gene69	SACOL0072	gi 57650036 ref NC_002951.2 :80405-81266	q1	q2	NOTEST 0		0	0	0	1	1
gene690	gene690	SACOL0695	gi 57650036 ref NC_002951.2 :719279-720092	q1	q2	OK	233.391	62.6804	-1.89666	1.60619	0.108232	0.825145
gene691	gene691	tagB	gi 57650036 ref NC_002951.2 :720190-722352	q1	q2	OK	76.1832	52.2854	-0.543066	0.3806	0.7035	0.978191
gene692	gene692	tagX	gi 57650036 ref NC_002951.2 :720190-722352	q1	q2	OK	77.1971	54.7827	-0.494827	0.3437	0.731072	0.978191
gene693	gene693	tagD	gi 57650036 ref NC_002951.2 :722414-722813	q1	q2	OK	120.731	69.824	-0.789997	0.476631	0.633625	0.978191
gene694	gene694	pbp4	gi 57650036 ref NC_002951.2 :722929-724225	q1	q2	OK	39.6375	57.7863	0.543861	-0.45882	0.646364	0.978191
gene695	gene695	abcA	gi 57650036 ref NC_002951.2 :724645-726373	q1	q2	OK	144.116	82.4439	-0.805749	0.769631	0.441519	0.956269
gene696	gene696	SACOL0701	gi 57650036 ref NC_002951.2 :726731-727961	q1	q2	OK	173.193	54.5688	-1.66623	1.53347	0.12516	0.842707

gene697	gene697	SACOL0702	gi 57650036 ref NC_002951.2 :728215-728308	q1	q2	NOTEST 0	0	0	0	1	1
gene698	gene698	SACOL0703	gi 57650036 ref NC_002951.2 :728485-729319	q1	q2	OK 61.2396	67.9581	0.150182	-0.11489	0.908535	0.984151
gene699	gene699	SACOL0704	gi 57650036 ref NC_002951.2 :729600-730398	q1	q2	OK 53.9215	67.8137	0.330715	-0.24024	0.810148	0.984151
gene7	gene7	hutH	gi 57650036 ref NC_002951.2 :10919-12434	q1	q2	OK 66.6583	36.9493	-0.851239	0.764657	0.444476	0.956269
gene70	gene70	SACOL0073	gi 57650036 ref NC_002951.2 :81620-82154	q1	q2	NOTEST 0	0	0	0	1	1
gene700	gene700	SACOL0705	gi 57650036 ref NC_002951.2 :730433-732451	q1	q2	OK 18.8619	58.323	1.62859	-0.81863	0.412995	0.94415
gene701	gene701	SACOL0706	gi 57650036 ref NC_002951.2 :730433-732451	q1	q2	OK 86.1524	54.5719	-0.658731	0.501407	0.616085	0.978191
gene702	gene702	SACOL0707	gi 57650036 ref NC_002951.2 :732687-733653	q1	q2	OK 62.1477	73.499	0.242024	-0.20503	0.837552	0.984151
gene703	gene703	SACOL0708	gi 57650036 ref NC_002951.2 :733694-734634	q1	q2	OK 73.8778	96.0999	0.379395	-0.25776	0.796593	0.984096
gene704	gene704	SACOL0709	gi 57650036 ref NC_002951.2 :733694-734634	q1	q2	OK 40.4576	63.2482	0.644616	-0.21617	0.828853	0.984151
gene705	gene705	SACOL0710	gi 57650036 ref NC_002951.2 :734749-735247	q1	q2	OK 748.364	410.721	-0.865583	0.830391	0.406318	0.940909
gene706	gene706	SACOL0711	gi 57650036 ref NC_002951.2 :735702-736770	q1	q2	OK 274.215	97.1291	-1.49733	1.41684	0.156529	0.842707
gene707	gene707	SACOL0712	gi 57650036 ref NC_002951.2 :736920-737964	q1	q2	OK 18.2256	34.0962	0.903643	-0.56403	0.572737	0.976548
gene708	gene708	SACOL0713	gi 57650036 ref NC_002951.2 :738292-738721	q1	q2	OK 92.1754	33.4497	-1.46239	0.82898	0.407116	0.940909
gene709	gene709	SACOL0714	gi 57650036 ref NC_002951.2 :738929-739436	q1	q2	OK 259.897	189.239	-0.457728	0.426966	0.669404	0.978191
gene71	gene71	SACOL0074	gi 57650036 ref NC_002951.2 :82253-82988	q1	q2	NOTEST 0	0	0	0	1	1
gene710	gene710	SACOL0715	gi 57650036 ref NC_002951.2 :739548-740472	q1	q2	OK 46.661	61.8454	0.406448	-0.30395	0.761166	0.978191
gene711	gene711	SACOL0716	gi 57650036 ref NC_002951.2 :740478-742195	q1	q2	OK 27.8371	37.2972	0.422059	-0.18668	0.851909	0.984151
gene712	gene712	SACOL0717	gi 57650036 ref NC_002951.2 :740478-742195	q1	q2	OK 74.2153	49.3538	-0.588556	0.464989	0.64194	0.978191
gene713	gene713	SACOL0718	gi 57650036 ref NC_002951.2 :742338-744979	q1	q2	OK 41.6574	93.5447	1.16708	-0.54546	0.585437	0.978191
gene714	gene714	SACOL0720	gi 57650036 ref NC_002951.2 :742338-744979	q1	q2	OK 41.0186	101.722	1.31029	-1.0496	0.293902	0.924214
gene715	gene715	SACOL0721	gi 57650036 ref NC_002951.2 :745703-746321	q1	q2	OK 150.019	59.6955	-1.32946	0.993513	0.32046	0.927653
gene716	gene716	SACOL0722	gi 57650036 ref NC_002951.2 :746336-747344	q1	q2	OK 151.407	51.9671	-1.54276	1.341	0.179919	0.842707
gene717	gene717	SACOL0723	gi 57650036 ref NC_002951.2 :747931-748729	q1	q2	OK 3542.83	766.037	-2.20942	1.67315	0.094299	0.794532
gene718	gene718	SACOL0724	gi 57650036 ref NC_002951.2 :749089-749734	q1	q2	OK 60.3198	50.2686	-0.262975	0.169034	0.86577	0.984151
gene719	gene719	SACOL0725	gi 57650036 ref NC_002951.2 :750430-752581	q1	q2	OK 11.6367	42.3996	1.86538	-1.39814	0.16207	0.842707
gene72	gene72	SACOL0075	gi 57650036 ref NC_002951.2 :83421-84024	q1	q2	OK 24.7717	31.9182	0.365684	-0.20364	0.838634	0.984151
gene720	gene720	sarX	gi 57650036 ref NC_002951.2 :752660-753086	q1	q2	OK 67.2441	34.7302	-0.953216	0.527315	0.597975	0.978191
gene721	gene721	SACOL0727	gi 57650036 ref NC_002951.2 :753275-754465	q1	q2	OK 100.005	112.296	0.167242	-0.13534	0.892344	0.984151
gene722	gene722	SACOL0728	gi 57650036 ref NC_002951.2 :753275-754465	q1	q2	OK 80.9376	71.796	-0.172907	0.086822	0.930813	0.987716
gene723	gene723	SACOL0730	gi 57650036 ref NC_002951.2 :754817-755462	q1	q2	OK 99.8571	102.594	0.0390028	-0.03112	0.975171	0.995537
gene724	gene724	SACOL0731	gi 57650036 ref NC_002951.2 :755577-756444	q1	q2	OK 89.6379	81.0443	-0.145398	0.128437	0.897803	0.984151
gene725	gene725	SACOL0733	gi 57650036 ref NC_002951.2 :756782-758488	q1	q2	OK 61.2501	41.612	-0.557711	0.429934	0.667243	0.978191

gene726	gene726	SACOL0734	gi 57650036 ref NC_002951.2 :756782-758488	q1	q2	OK	133.492	71.3842	-0.903073	0.51122	0.609197	0.978191
gene727	gene727	SACOL0735	gi 57650036 ref NC_002951.2 :758586-759276	q1	q2	OK	35.2647	42.4782	0.268499	-0.16343	0.870184	0.984151
gene728	gene728	SACOL0736	gi 57650036 ref NC_002951.2 :759402-759846	q1	q2	OK	0.966465	19.8073	4.35717	-1.92815	0.053837	0.696046
gene729	gene729	SACOL0737	gi 57650036 ref NC_002951.2 :759912-760308	q1	q2	OK	47.8723	137.649	1.52373	-0.90128	0.367439	0.93284
gene73	gene73	SACOL0076	gi 57650036 ref NC_002951.2 :84290-87443	q1	q2	OK	22.2399	27.0654	0.283299	-0.26888	0.788023	0.982219
gene730	gene730	SACOL0738	gi 57650036 ref NC_002951.2 :760445-760745	q1	q2	OK	320.249	131.141	-1.28807	0.802463	0.422285	0.949284
gene731	gene731	SACOL0739	gi 57650036 ref NC_002951.2 :760824-761367	q1	q2	OK	24.7397	52.771	1.09292	-0.61754	0.536881	0.963603
gene732	gene732	SACOL0740	gi 57650036 ref NC_002951.2 :761462-762029	q1	q2	OK	62.1975	66.7922	0.102825	-0.06554	0.947747	0.987716
gene733	gene733	SACOL0741	gi 57650036 ref NC_002951.2 :762030-762489	q1	q2	OK	24.4539	39.758	0.70118	-0.37157	0.710214	0.978191
gene734	gene734	SACOL0742	gi 57650036 ref NC_002951.2 :762491-763175	q1	q2	OK	211.562	432.395	1.03127	-0.98645	0.323915	0.927653
gene735	gene735	uppP	gi 57650036 ref NC_002951.2 :763346-764222	q1	q2	OK	75.3048	40.8342	-0.882965	0.650819	0.515163	0.963286
gene736	gene736	SACOL0744	gi 57650036 ref NC_002951.2 :764440-767742	q1	q2	OK	62.0308	70.0468	0.175333	-0.11708	0.906799	0.984151
gene737	gene737	SACOL0745	gi 57650036 ref NC_002951.2 :764440-767742	q1	q2	OK	66.1255	63.0447	-0.0688318	0.046134	0.963203	0.989588
gene738	gene738	norR	gi 57650036 ref NC_002951.2 :767868-768312	q1	q2	OK	1262.2	223.944	-2.49474	2.21726	0.026605	0.604847
gene739	gene739	SACOL0747	gi 57650036 ref NC_002951.2 :768538-769465	q1	q2	OK	29.76	25.4049	-0.228269	0.140414	0.888333	0.984151
gene74	gene74	SACOL0077	gi 57650036 ref NC_002951.2 :87499-87982	q1	q2	OK	78.9738	40.4501	-0.96523	0.568932	0.569402	0.976548
gene740	gene740	SACOL0748	gi 57650036 ref NC_002951.2 :769567-770476	q1	q2	OK	102.532	64.2862	-0.673499	0.588216	0.556388	0.976548
gene741	gene741	SACOL0749	gi 57650036 ref NC_002951.2 :770510-770798	q1	q2	OK	291.76	89.9123	-1.69819	0.991133	0.321621	0.927653
gene742	gene742	SACOL0750	gi 57650036 ref NC_002951.2 :771080-772634	q1	q2	OK	38.8547	58.6239	0.5934	-0.5375	0.590924	0.978191
gene743	gene743	SACOL0751	gi 57650036 ref NC_002951.2 :772719-774093	q1	q2	OK	67.7726	60.4761	-0.164337	0.157706	0.874688	0.984151
gene744	gene744	SACOL0752	gi 57650036 ref NC_002951.2 :774528-775146	q1	q2	OK	102.36	70.3728	-0.540561	0.389331	0.697031	0.978191
gene745	gene745	SACOL0753	gi 57650036 ref NC_002951.2 :775331-775754	q1	q2	OK	165.249	48.3499	-1.77306	1.09799	0.272207	0.906044
gene746	gene746	norA	gi 57650036 ref NC_002951.2 :775962-777129	q1	q2	OK	30.7931	87.897	1.51321	-1.18736	0.235087	0.873429
gene747	gene747	SACOL0755	gi 57650036 ref NC_002951.2 :777421-777874	q1	q2	OK	2276.28	636.961	-1.8374	1.5825	0.113535	0.836663
gene748	gene748	SACOL0756	gi 57650036 ref NC_002951.2 :778047-778530	q1	q2	OK	14.8076	37.2845	1.33224	-0.6893	0.490632	0.963286
gene749	gene749	SACOL0757	gi 57650036 ref NC_002951.2 :778779-780461	q1	q2	OK	1.9727	34.8305	4.14211	-1.57828	0.114502	0.836663
gene75	gene75	plc	gi 57650036 ref NC_002951.2 :88186-89173	q1	q2	OK	1.95864	32.9662	4.07306	-2.12425	0.033649	0.620038
gene750	gene750	fruK	gi 57650036 ref NC_002951.2 :778779-780461	q1	q2	OK	1.53143	82.271	5.74743	-2.45474	0.014099	0.500083
gene751	gene751	SACOL0759	gi 57650036 ref NC_002951.2 :780466-782424	q1	q2	OK	7.38946	39.0948	2.40344	-1.65576	0.09777	0.809772
gene752	gene752	nagA	gi 57650036 ref NC_002951.2 :782731-783913	q1	q2	OK	49.4784	48.3101	-0.0344744	0.028389	0.977352	0.996527
gene753	gene753	SACOL0762	gi 57650036 ref NC_002951.2 :784133-785483	q1	q2	OK	296.02	135.928	-1.12285	1.01508	0.310066	0.927653
gene754	gene754	SACOL0763	gi 57650036 ref NC_002951.2 :785704-786544	q1	q2	OK	133.069	158.622	0.253413	-0.24909	0.803292	0.984151
gene755	gene755	SACOL0764	gi 57650036 ref NC_002951.2 :786675-787659	q1	q2	OK	226.413	154.374	-0.552526	0.537786	0.590725	0.978191

gene756	gene756	saeS	gi 57650036 ref NC_002951.2 :787730-789920	q1	q2	OK	146.782	417.927	1.50957	-0.94454	0.344894	0.93284
gene757	gene757	saeR	gi 57650036 ref NC_002951.2 :787730-789920	q1	q2	OK	168.246	332.002	0.980621	-0.44337	0.657499	0.978191
gene758	gene758	SACOL0767	gi 57650036 ref NC_002951.2 :787730-789920	q1	q2	OK	109.053	329.246	1.59414	-0.49311	0.621939	0.978191
gene759	gene759	SACOL0768	gi 57650036 ref NC_002951.2 :790261-790702	q1	q2	OK	238.038	304.649	0.355957	-0.32228	0.747242	0.978191
gene76	gene76	SACOL0079	gi 57650036 ref NC_002951.2 :89393-90164	q1	q2	OK	2.34129	1.07735	-1.11981	0.479567	0.631535	0.978191
gene760	gene760	SACOL0769	gi 57650036 ref NC_002951.2 :790981-791566	q1	q2	OK	104.02	64.8543	-0.681585	0.472271	0.636733	0.978191
gene761	gene761	SACOL0770	gi 57650036 ref NC_002951.2 :791664-792378	q1	q2	OK	44.4281	75.9497	0.773572	-0.52991	0.596175	0.978191
gene762	gene762	SACOL0771	gi 57650036 ref NC_002951.2 :792381-792801	q1	q2	OK	31.3781	34.2726	0.127296	-0.0664	0.947062	0.987716
gene763	gene763	SACOL0772	gi 57650036 ref NC_002951.2 :792802-793471	q1	q2	OK	16.7852	36.2754	1.1118	-0.62167	0.534161	0.963286
gene764	gene764	pabA	gi 57650036 ref NC_002951.2 :793821-796158	q1	q2	OK	5.76669	38.5235	2.73992	-0.71797	0.472774	0.956269
gene765	gene765	SACOL0774	gi 57650036 ref NC_002951.2 :793821-796158	q1	q2	OK	11.4004	29	1.34697	-0.8507	0.394937	0.940909
gene766	gene766	SACOL0776	gi 57650036 ref NC_002951.2 :796517-798216	q1	q2	OK	16.6535	30.1925	0.858362	-0.34076	0.733283	0.978191
gene767	gene767	SACOL0777	gi 57650036 ref NC_002951.2 :796517-798216	q1	q2	OK	30.343	47.7889	0.655309	-0.39555	0.692437	0.978191
gene768	gene768	SACOL0778	gi 57650036 ref NC_002951.2 :798689-800630	q1	q2	OK	570.267	188.412	-1.59775	1.26233	0.206831	0.842707
gene769	gene769	SACOL0779	gi 57650036 ref NC_002951.2 :800906-802784	q1	q2	OK	64.4274	64.0577	-0.00830176	0.008233	0.993431	0.998638
gene77	gene77	SACOL0080	gi 57650036 ref NC_002951.2 :90215-90986	q1	q2	OK	0.780429	8.25971	3.40375	-1.5221	0.127985	0.842707
gene770	gene770	recQ1	gi 57650036 ref NC_002951.2 :802795-804577	q1	q2	OK	122.538	72.1302	-0.764549	0.739779	0.459434	0.956269
gene771	gene771	SACOL0781	gi 57650036 ref NC_002951.2 :804798-807283	q1	q2	OK	156.579	168.29	0.104064	-0.0544	0.956615	0.989561
gene772	gene772	opuBB	gi 57650036 ref NC_002951.2 :804798-807283	q1	q2	OK	201.629	108.786	-0.890207	0.588547	0.556165	0.976548
gene773	gene773	hisC	gi 57650036 ref NC_002951.2 :807522-808581	q1	q2	OK	34.2626	62.2031	0.860354	-0.64608	0.518226	0.963286
gene774	gene774	SACOL0785	gi 57650036 ref NC_002951.2 :808931-809474	q1	q2	OK	57.5031	67.7228	0.236002	-0.14716	0.88301	0.984151
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	q1	q2	OK	199.184	73.0504	-1.44714	0.62332	0.533074	0.963286
gene776	gene776	SACOL0787	gi 57650036 ref NC_002951.2 :810153-811071	q1	q2	OK	201.792	247.676	0.295589	-0.28547	0.775286	0.981122
gene777	gene777	SACOL0788	gi 57650036 ref NC_002951.2 :811340-812846	q1	q2	OK	332.299	48.6162	-2.77297	2.39462	0.016638	0.500083
gene778	gene778	SACOL0789	gi 57650036 ref NC_002951.2 :813186-813687	q1	q2	OK	73.1072	36.5037	-1.00197	0.587749	0.556701	0.976548
gene779	gene779	SACOL0790	gi 57650036 ref NC_002951.2 :813706-814573	q1	q2	OK	52.7868	39.3644	-0.423285	0.289139	0.772475	0.980274
gene78	gene78	SACOL0081	gi 57650036 ref NC_002951.2 :91049-91214	q1	q2	NOTEST 0		0	0	0	1	1
gene780	gene780	SACOL0790.1	gi 57650036 ref NC_002951.2 :814957-815224	q1	q2	OK	375.587	131.407	-1.5151	0.900921	0.36763	0.93284
gene781	gene781	nrdI	gi 57650036 ref NC_002951.2 :815373-817840	q1	q2	OK	724.383	411.131	-0.817154	0.199108	0.842179	0.984151
gene782	gene782	nrdE	gi 57650036 ref NC_002951.2 :815373-817840	q1	q2	OK	720.223	274.96	-1.38922	0.976984	0.328577	0.927653
gene783	gene783	nrdF	gi 57650036 ref NC_002951.2 :817957-818929	q1	q2	OK	1385.4	245.32	-2.49756	2.05187	0.040183	0.642147
gene784	gene784	SACOL0794	gi 57650036 ref NC_002951.2 :819061-819166	q1	q2	NOTEST 0		0	0	0	1	1
gene785	gene785	SACOL0796	gi 57650036 ref NC_002951.2 :819636-822309	q1	q2	OK	4.28121	36.8047	3.1038	-1.43056	0.152556	0.842707

gene786	gene786	SACOL0797	gi 57650036 ref NC_002951.2 :819636-822309	q1	q2	OK	2.03876	24.4206	3.58233	-1.17489	0.240037	0.879153
gene787	gene787	SACOL0798	gi 57650036 ref NC_002951.2 :819636-822309	q1	q2	OK	1.58695	33.1874	4.38631	-1.14343	0.252862	0.889805
gene788	gene788	SACOL0799	gi 57650036 ref NC_002951.2 :822427-823456	q1	q2	OK	5.03908	36.5728	2.85954	-1.60877	0.107666	0.823346
gene789	gene789	SACOL0800	gi 57650036 ref NC_002951.2 :823772-824087	q1	q2	OK	46.9704	26.3064	-0.836336	0.408285	0.683064	0.978191
gene79	gene79	SACOL0082	gi 57650036 ref NC_002951.2 :91226-91823	q1	q2	NOTEST 0		0.254964	1.79769e+30	1.79769e+30	0.207933	1
gene790	gene790	murB	gi 57650036 ref NC_002951.2 :824104-825028	q1	q2	OK	62.8247	48.8778	-0.362151	0.27475	0.783508	0.982219
gene791	gene791	SACOL0802	gi 57650036 ref NC_002951.2 :825154-825673	q1	q2	OK	36.8641	21.9864	-0.745604	0.401633	0.687954	0.978191
gene792	gene792	SACOL0803	gi 57650036 ref NC_002951.2 :825792-826671	q1	q2	OK	27.0508	37.9275	0.48757	-0.30566	0.759863	0.978191
gene793	gene793	SACOL0804	gi 57650036 ref NC_002951.2 :826824-827145	q1	q2	OK	235.852	193.741	-0.283753	0.18503	0.853205	0.984151
gene794	gene794	SACOL0805	gi 57650036 ref NC_002951.2 :827569-828694	q1	q2	OK	78.4368	91.9267	0.228952	-0.22077	0.825269	0.984151
gene795	gene795	pepT	gi 57650036 ref NC_002951.2 :828882-830109	q1	q2	OK	175.201	109.047	-0.684063	0.665905	0.505472	0.963286
gene796	gene796	SACOL0807	gi 57650036 ref NC_002951.2 :830122-830617	q1	q2	OK	31.4593	25.367	-0.310536	0.1652	0.868787	0.984151
gene797	gene797	SACOL0808	gi 57650036 ref NC_002951.2 :830634-831396	q1	q2	OK	25.7879	26.4405	0.036053	-0.02094	0.983291	0.997969
gene798	gene798	SACOL0809	gi 57650036 ref NC_002951.2 :831591-832662	q1	q2	OK	59.4885	34.0112	-0.806601	0.604063	0.545802	0.97151
gene799	gene799	SACOL0810	gi 57650036 ref NC_002951.2 :832979-834035	q1	q2	OK	66.7192	44.7562	-0.576013	0.46518	0.641802	0.978191
gene8	gene8	serS	gi 57650036 ref NC_002951.2 :12812-14099	q1	q2	OK	60.4616	42.9515	-0.49331	0.428019	0.668638	0.978191
gene80	gene80	SACOL0083	gi 57650036 ref NC_002951.2 :91889-92657	q1	q2	OK	0.392365	1.80479	2.20156	-0.91521	0.36008	0.93284
gene800	gene800	SACOL0811	gi 57650036 ref NC_002951.2 :834204-834846	q1	q2	OK	157.752	128.562	-0.295191	0.269893	0.787242	0.982219
gene801	gene801	SACOL0812	gi 57650036 ref NC_002951.2 :834989-835856	q1	q2	OK	154.376	73.7889	-1.06498	0.966933	0.333577	0.927653
gene802	gene802	SACOL0813	gi 57650036 ref NC_002951.2 :836219-837969	q1	q2	OK	3.9768	47.7555	3.58598	-1.80815	0.070583	0.754145
gene803	gene803	SACOL0814	gi 57650036 ref NC_002951.2 :836219-837969	q1	q2	OK	3.78561	64.3712	4.08782	-1.51633	0.129436	0.842707
gene804	gene804	SACOL0815	gi 57650036 ref NC_002951.2 :838029-838602	q1	q2	OK	2214.76	650.078	-1.76846	1.44489	0.148488	0.842707
gene805	gene805	secA	gi 57650036 ref NC_002951.2 :839015-841547	q1	q2	OK	255.393	94.9693	-1.42719	1.19833	0.23079	0.863636
gene806	gene806	SACOL0817	gi 57650036 ref NC_002951.2 :841588-841693	q1	q2	NOTEST 0		0	0	0	1	1
gene807	gene807	prfB	gi 57650036 ref NC_002951.2 :841861-842972	q1	q2	OK	82.5628	66.0019	-0.322985	0.301014	0.763404	0.978191
gene808	gene808	SACOL0819	gi 57650036 ref NC_002951.2 :843125-843233	q1	q2	NOTEST 0		0	0	0	1	1
gene809	gene809	SACOL0820	gi 57650036 ref NC_002951.2 :843380-844220	q1	q2	OK	11.7822	35.035	1.57219	-0.89752	0.369444	0.932852
gene81	gene81	SACOL0084	gi 57650036 ref NC_002951.2 :92789-94988	q1	q2	OK	32.8722	53.0215	0.689708	-0.66058	0.508883	0.963286
gene810	gene810	SACOL0821	gi 57650036 ref NC_002951.2 :844393-845277	q1	q2	OK	23.9891	40.6019	0.759168	-0.38217	0.702333	0.978191
gene811	gene811	SACOL0822	gi 57650036 ref NC_002951.2 :844393-845277	q1	q2	OK	38.2883	53.6729	0.487292	-0.10846	0.91363	0.984151
gene812	gene812	uvrB	gi 57650036 ref NC_002951.2 :845539-847531	q1	q2	OK	77.6678	87.6387	0.17425	-0.16984	0.865133	0.984151
gene813	gene813	uvrA	gi 57650036 ref NC_002951.2 :847538-850385	q1	q2	OK	111.386	80.9261	-0.460898	0.414681	0.678375	0.978191
gene814	gene814	hprK	gi 57650036 ref NC_002951.2 :850991-851924	q1	q2	OK	172.533	159.658	-0.111891	0.110679	0.911871	0.984151

gene815	gene815	lgt	gi 57650036 ref NC_002951.2 :851929-852769	q1	q2	OK	102.921	109.444	0.0886611	-0.08297	0.933874	0.987716
gene816	gene816	SACOL0827	gi 57650036 ref NC_002951.2 :852776-853262	q1	q2	OK	107.356	74.1797	-0.533306	0.345911	0.729409	0.978191
gene817	gene817	SACOL0828	gi 57650036 ref NC_002951.2 :853269-854709	q1	q2	OK	82.3582	42.6821	-0.948279	0.87387	0.382189	0.940893
gene818	gene818	trxB	gi 57650036 ref NC_002951.2 :854775-855711	q1	q2	OK	621.562	654.038	0.073475	-0.0589	0.953033	0.988316
gene819	gene819	SACOL0830	gi 57650036 ref NC_002951.2 :856420-858324	q1	q2	OK	93.0871	113.704	0.288627	-0.14284	0.886413	0.984151
gene82	gene82	SACOL0085	gi 57650036 ref NC_002951.2 :95138-96317	q1	q2	OK	8.2723	28.2039	1.76953	-1.03709	0.299692	0.924214
gene820	gene820	SACOL0831	gi 57650036 ref NC_002951.2 :856420-858324	q1	q2	OK	171.458	262.76	0.615886	-0.46558	0.641517	0.978191
gene821	gene821	SACOL0832	gi 57650036 ref NC_002951.2 :858433-859378	q1	q2	OK	235.101	266.065	0.178501	-0.16935	0.865525	0.984151
gene823	gene823	clpP	gi 57650036 ref NC_002951.2 :859950-860538	q1	q2	OK	777.833	322.914	-1.26831	1.17688	0.239242	0.879153
gene824	gene824	SACOL0834	gi 57650036 ref NC_002951.2 :860780-861683	q1	q2	OK	100.608	81.8336	-0.297982	0.273611	0.784383	0.982219
gene825	gene825	SACOL0835	gi 57650036 ref NC_002951.2 :862386-863016	q1	q2	OK	111.427	504.191	2.17788	-1.86394	0.06233	0.717594
gene826	gene826	SACOL0836	gi 57650036 ref NC_002951.2 :863204-863351	q1	q2	NOTEST 0	0	0	0	0	1	1
gene827	gene827	gapR	gi 57650036 ref NC_002951.2 :863775-864789	q1	q2	OK	249.169	429.764	0.786422	-0.69696	0.485826	0.96277
gene828	gene828	gapA1	gi 57650036 ref NC_002951.2 :864841-865852	q1	q2	OK	1250.59	577.857	-1.11382	0.854636	0.392753	0.940909
gene829	gene829	pgk	gi 57650036 ref NC_002951.2 :865990-867181	q1	q2	OK	231.622	210.164	-0.140252	0.129824	0.896706	0.984151
gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	q1	q2	OK	7.14825	85.2952	3.5768	-2.37428	0.017583	0.500083
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	q1	q2	OK	340.004	238.147	-0.513701	0.496243	0.619723	0.978191
gene831	gene831	pgm	gi 57650036 ref NC_002951.2 :868066-869584	q1	q2	OK	295.224	193.034	-0.612959	0.527723	0.597691	0.978191
gene832	gene832	eno	gi 57650036 ref NC_002951.2 :869713-871018	q1	q2	OK	766.992	247.176	-1.63368	1.32017	0.186779	0.842707
gene833	gene833	SACOL0843	gi 57650036 ref NC_002951.2 :871357-871816	q1	q2	OK	63.3991	59.637	-0.0882535	0.051919	0.958593	0.989588
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	q1	q2	OK	2102.47	215.578	-3.2858	2.26391	0.023579	0.582014
gene835	gene835	est	gi 57650036 ref NC_002951.2 :872231-872972	q1	q2	OK	56.1462	81.7373	0.541805	-0.39583	0.692234	0.978191
gene836	gene836	SACOL0846	gi 57650036 ref NC_002951.2 :873005-875378	q1	q2	OK	177.789	120.866	-0.556752	0.478154	0.632541	0.978191
gene837	gene837	smpB	gi 57650036 ref NC_002951.2 :875399-875864	q1	q2	OK	342.772	133.203	-1.36363	1.13695	0.25556	0.890872
gene838	gene838	SACOL_Satm	gi 57650036 ref NC_002951.2 :875954-876313	q1	q2	OK	308759	91711.5	-1.75131	1.52785	0.126549	0.842707
gene839	gene839	SACOL0848	gi 57650036 ref NC_002951.2 :876637-876919	q1	q2	OK	37.1475	63.4867	0.77319	-0.37932	0.704452	0.978191
gene84	gene84	SACOL0087	gi 57650036 ref NC_002951.2 :97874-97982	q1	q2	NOTEST 0	0	0	0	0	1	1
gene840	gene840	SACOL0849	gi 57650036 ref NC_002951.2 :877185-877509	q1	q2	OK	47.6428	40.3187	-0.240808	0.121399	0.903375	0.984151
gene841	gene841	SACOL0850	gi 57650036 ref NC_002951.2 :877524-877671	q1	q2	OK	0	22.191	1.79769e+30	1.79769e+	0.207933	0.842707
gene842	gene842	SACOL0851	gi 57650036 ref NC_002951.2 :877862-878591	q1	q2	OK	6.33963	41.9597	2.72653	-1.46906	0.141818	0.842707
gene843	gene843	SACOL0853	gi 57650036 ref NC_002951.2 :879026-879182	q1	q2	NOTEST 0	0	0	0	0	1	1
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	q1	q2	OK	2.86232	68.8006	4.58716	-2.29974	0.021463	0.545995
gene845	gene845	SACOL0855	gi 57650036 ref NC_002951.2 :879849-880380	q1	q2	OK	20.1459	53.6791	1.41388	-0.78331	0.433443	0.956269

gene846	gene846	clfA	gi 57650036 ref NC_002951.2 :880642-883444	q1	q2	OK	737.394	1284.56	0.800762	-0.57871	0.562785	0.976548
gene847	gene847	SACOL0857	gi 57650036 ref NC_002951.2 :883664-885191	q1	q2	OK	1.80271	33.3976	4.21151	-2.38726	0.016974	0.500083
gene848	gene848	empbp	gi 57650036 ref NC_002951.2 :885541-886564	q1	q2	OK	4.00808	39.3482	3.29531	-1.83802	0.06606	0.73141
gene849	gene849	SACOL0859	gi 57650036 ref NC_002951.2 :886898-887369	q1	q2	OK	2.58664	42.4999	4.03831	-1.91706	0.055231	0.696046
gene85	gene85	SACOL0088	gi 57650036 ref NC_002951.2 :98199-99861	q1	q2	OK	51.0845	122.899	1.26651	-1.20883	0.226729	0.855829
gene850	gene850	nuc	gi 57650036 ref NC_002951.2 :887709-888396	q1	q2	OK	14.2894	23.879	0.7408	-0.39889	0.689972	0.978191
gene851	gene851	SACOL0861	gi 57650036 ref NC_002951.2 :888752-888953	q1	q2	OK	25216	3434.46	-2.87618	2.47916	0.013169	0.500083
gene852	gene852	SACOL0862	gi 57650036 ref NC_002951.2 :889448-889667	q1	q2	OK	145.291	111.901	-0.376721	0.187236	0.851476	0.984151
gene853	gene853	SACOL0863	gi 57650036 ref NC_002951.2 :889728-890013	q1	q2	OK	72.2194	45.2209	-0.675396	0.338054	0.735322	0.978191
gene854	gene854	SACOL0864	gi 57650036 ref NC_002951.2 :890100-890670	q1	q2	OK	6.16594	44.456	2.84999	-1.46824	0.14204	0.842707
gene855	gene855	SACOL0865	gi 57650036 ref NC_002951.2 :891074-891335	q1	q2	OK	56.7816	14.6266	-1.95683	0.893884	0.371384	0.935213
gene856	gene856	SACOL0866	gi 57650036 ref NC_002951.2 :891639-891744	q1	q2	NOTEST 0	0	0	0	0	1	1
gene857	gene857	SACOL0868	gi 57650036 ref NC_002951.2 :891875-892112	q1	q2	OK	703.547	871.722	0.309222	-0.23282	0.815901	0.984151
gene858	gene858	SACOL0869	gi 57650036 ref NC_002951.2 :892327-892918	q1	q2	OK	17.4413	31.8213	0.86749	-0.46863	0.639338	0.978191
gene859	gene859	SACOL0870	gi 57650036 ref NC_002951.2 :892990-893608	q1	q2	OK	59.0329	66.2475	0.166345	-0.10865	0.913479	0.984151
gene86	gene86	SACOL0089	gi 57650036 ref NC_002951.2 :100186-101962	q1	q2	OK	14.4476	31.5598	1.12725	-0.80481	0.42093	0.949284
gene860	gene860	SACOL0871	gi 57650036 ref NC_002951.2 :893762-894257	q1	q2	OK	42.4701	61.5572	0.535481	-0.31236	0.754767	0.978191
gene861	gene861	SACOL0872	gi 57650036 ref NC_002951.2 :894655-895078	q1	q2	OK	234.547	134.94	-0.797559	0.598273	0.549657	0.974547
gene862	gene862	aroD	gi 57650036 ref NC_002951.2 :895225-895942	q1	q2	OK	19.4815	32.6213	0.743713	-0.42367	0.671805	0.978191
gene863	gene863	SACOL0874	gi 57650036 ref NC_002951.2 :896024-896564	q1	q2	OK	44.5479	83.073	0.899023	-0.55871	0.576361	0.976548
gene864	gene864	SACOL0875	gi 57650036 ref NC_002951.2 :896713-897034	q1	q2	OK	406.642	147.976	-1.4584	1.00119	0.316737	0.927653
gene865	gene865	SACOL0876	gi 57650036 ref NC_002951.2 :897177-897534	q1	q2	OK	227.674	115.09	-0.9842	0.638842	0.522926	0.963286
gene866	gene866	gcvH	gi 57650036 ref NC_002951.2 :897691-898072	q1	q2	OK	1278.34	390.892	-1.70943	1.62538	0.104082	0.816291
gene867	gene867	SACOL0879	gi 57650036 ref NC_002951.2 :898250-899129	q1	q2	OK	102.337	25.0321	-2.03147	1.45019	0.147004	0.842707
gene868	gene868	SACOL0880	gi 57650036 ref NC_002951.2 :899870-900546	q1	q2	OK	45.2201	71.8531	0.668088	-0.2794	0.779937	0.982219
gene869	gene869	SACOL0881	gi 57650036 ref NC_002951.2 :899870-900546	q1	q2	OK	124.561	58.0557	-1.10135	0.433797	0.664436	0.978191
gene87	gene87	SACOL0090	gi 57650036 ref NC_002951.2 :102135-103008	q1	q2	NOTEST 0	0	0	0	0	1	1
gene870	gene870	SACOL0882	gi 57650036 ref NC_002951.2 :900795-902509	q1	q2	OK	29.2827	30.9407	0.0794547	-0.04762	0.962021	0.989588
gene871	gene871	SACOL0883	gi 57650036 ref NC_002951.2 :900795-902509	q1	q2	OK	23.5126	36.6311	0.639633	-0.28859	0.772896	0.980274
gene872	gene872	SACOL0884	gi 57650036 ref NC_002951.2 :902526-903348	q1	q2	OK	69.9638	47.2574	-0.566069	0.409606	0.682095	0.978191
gene873	gene873	SACOL0885	gi 57650036 ref NC_002951.2 :903490-904711	q1	q2	OK	4.71154	24.5196	2.37966	-1.32714	0.184462	0.842707
gene874	gene874	sek	gi 57650036 ref NC_002951.2 :904799-905528	q1	q2	OK	34.6567	32.8716	-0.0762902	0.045883	0.963404	0.989588
gene875	gene875	sei	gi 57650036 ref NC_002951.2 :905551-906280	q1	q2	OK	16.9057	33.065	0.967795	-0.54782	0.583819	0.978191

gene876	gene876	SACOL0888	gi 57650036 ref NC_002951.2 :906349-906781	q1	q2	OK	25.527	41.0973	0.68702	-0.36053	0.71845	0.978191
gene877	gene877	SACOL0889	gi 57650036 ref NC_002951.2 :906797-907256	q1	q2	OK	12.6798	32.4945	1.35766	-0.68273	0.494777	0.963286
gene878	gene878	SACOL0890	gi 57650036 ref NC_002951.2 :907267-907600	q1	q2	OK	20.3648	47.7441	1.22925	-0.60237	0.546928	0.97184
gene879	gene879	SACOL0891	gi 57650036 ref NC_002951.2 :907792-908321	q1	q2	OK	10.2994	70.5772	2.77664	-0.99631	0.319101	0.927653
gene88	gene88	SACOL0091	gi 57650036 ref NC_002951.2 :103120-104518	q1	q2	NOTEST 0		0	0	0	1	1
gene880	gene880	SACOL0892	gi 57650036 ref NC_002951.2 :907792-908321	q1	q2	OK	9.36712	30.1714	1.6875	-0.51738	0.604894	0.978191
gene881	gene881	SACOL0893	gi 57650036 ref NC_002951.2 :908332-908681	q1	q2	NOTEST 0		0	0	0	1	1
gene882	gene882	SACOL0894	gi 57650036 ref NC_002951.2 :908332-908681	q1	q2	NOTEST 0		0	0	0	1	1
gene883	gene883	SACOL0895	gi 57650036 ref NC_002951.2 :908683-909004	q1	q2	NOTEST 0		0	0	0	1	1
gene884	gene884	SACOL0896	gi 57650036 ref NC_002951.2 :909067-909937	q1	q2	NOTEST 0		0	0	0	1	1
gene885	gene885	SACOL0897	gi 57650036 ref NC_002951.2 :909953-911411	q1	q2	NOTEST 0		0	0	0	1	1
gene886	gene886	SACOL0898	gi 57650036 ref NC_002951.2 :911711-912074	q1	q2	NOTEST 0		0	0	0	1	1
gene887	gene887	SACOL0899	gi 57650036 ref NC_002951.2 :912075-912998	q1	q2	NOTEST 0		0	0	0	1	1
gene888	gene888	SACOL0900	gi 57650036 ref NC_002951.2 :912075-912998	q1	q2	OK	7.14733	24.6085	1.78368	-0.82602	0.408792	0.940909
gene889	gene889	SACOL0901	gi 57650036 ref NC_002951.2 :913514-913856	q1	q2	OK	19.05	35.1175	0.882397	-0.4264	0.669819	0.978191
gene89	gene89	SACOL0092	gi 57650036 ref NC_002951.2 :104707-105181	q1	q2	OK	63.0462	105.518	0.743014	-0.46917	0.638947	0.978191
gene890	gene890	SACOL0902	gi 57650036 ref NC_002951.2 :913867-914446	q1	q2	OK	13.2218	35.7168	1.43368	-0.76325	0.445313	0.956269
gene891	gene891	SACOL0903	gi 57650036 ref NC_002951.2 :914463-914682	q1	q2	OK	88.4379	99.185	0.165456	-0.07959	0.936565	0.987716
gene892	gene892	SACOL0904	gi 57650036 ref NC_002951.2 :914732-915260	q1	q2	OK	4.20908	45.2741	3.42711	-1.708	0.087636	0.771999
gene893	gene893	SACOL0905	gi 57650036 ref NC_002951.2 :915262-916170	q1	q2	OK	5.19546	34.4549	2.72939	-0.71379	0.475357	0.956269
gene894	gene894	SACOL0906	gi 57650036 ref NC_002951.2 :915262-916170	q1	q2	OK	6.16594	37.6376	2.60978	-1.19584	0.231758	0.863636
gene895	gene895	seb	gi 57650036 ref NC_002951.2 :916477-917278	q1	q2	NOTEST 0		0	0	0	1	1
gene896	gene896	SACOL0908	gi 57650036 ref NC_002951.2 :917355-917913	q1	q2	NOTEST 0		0	0	0	1	1
gene897	gene897	SACOL0909	gi 57650036 ref NC_002951.2 :918285-918438	q1	q2	OK	598.227	172.17	-1.79686	0.811878	0.416861	0.948553
gene898	gene898	SACOL0910	gi 57650036 ref NC_002951.2 :918508-918806	q1	q2	NOTEST 0		0	0	0	1	1
gene899	gene899	SACOL0911	gi 57650036 ref NC_002951.2 :918508-918806	q1	q2	OK	170.257	76.4914	-1.15435	0.438011	0.661378	0.978191
gene9	gene9	SACOL0010	gi 57650036 ref NC_002951.2 :14748-15770	q1	q2	OK	19.8953	58.2394	1.54957	-0.84717	0.396901	0.940909
gene90	gene90	SACOL0093	gi 57650036 ref NC_002951.2 :105442-107035	q1	q2	OK	96.7101	69.5868	-0.474852	0.468684	0.639296	0.978191
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	q1	q2	OK	49199.6	37258.4	-0.401082	0.297455	0.76612	0.978191
gene901	gene901	SACOL0913	gi 57650036 ref NC_002951.2 :920063-920915	q1	q2	OK	69.683	203.285	1.54462	-1.34615	0.178254	0.842707
gene902	gene902	SACOL0914	gi 57650036 ref NC_002951.2 :921242-922004	q1	q2	OK	429.27	371.808	-0.207327	0.191093	0.848453	0.984151
gene903	gene903	sufD	gi 57650036 ref NC_002951.2 :922101-923409	q1	q2	OK	418.384	231.121	-0.856179	0.724849	0.468545	0.956269
gene904	gene904	SACOL0916	gi 57650036 ref NC_002951.2 :923523-925219	q1	q2	OK	394.321	241.731	-0.705966	0.527158	0.598084	0.978191

gene905	gene905	SACOL0917	gi 57650036 ref NC_002951.2 :923523-925219	q1	q2	OK	347.189	220.009	-0.658161	0.232363	0.816256	0.984151
gene906	gene906	sufB	gi 57650036 ref NC_002951.2 :925369-926767	q1	q2	OK	598.762	209.747	-1.51333	1.24277	0.213951	0.850184
gene907	gene907	SACOL0919	gi 57650036 ref NC_002951.2 :926953-927091	q1	q2	OK	0	34.2398	1.79769e+30	1.79769e+	0.207933	0.842707
gene908	gene908	SACOL0920	gi 57650036 ref NC_002951.2 :927096-927411	q1	q2	OK	6.40505	31.8866	2.31567	-1.041	0.297878	0.924214
gene909	gene909	SACOL0921	gi 57650036 ref NC_002951.2 :927775-928816	q1	q2	OK	38.1529	88.246	1.20974	-0.95737	0.338378	0.93058
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	q1	q2	OK	11.4718	39.3699	1.779	-1.21466	0.224496	0.854232
gene910	gene910	SACOL0922	gi 57650036 ref NC_002951.2 :928829-929897	q1	q2	OK	22.7669	118.369	2.37828	-1.74926	0.080246	0.760657
gene911	gene911	SACOL0924	gi 57650036 ref NC_002951.2 :930109-930958	q1	q2	OK	92.2178	82.9165	-0.153386	0.135389	0.892304	0.984151
gene912	gene912	SACOL0925	gi 57650036 ref NC_002951.2 :930970-931798	q1	q2	OK	59.727	47.8002	-0.321368	0.226685	0.820669	0.984151
gene913	gene913	SACOL0926	gi 57650036 ref NC_002951.2 :931824-933144	q1	q2	OK	80.2672	64.6479	-0.312208	0.302621	0.762178	0.978191
gene914	gene914	lipA	gi 57650036 ref NC_002951.2 :933227-934145	q1	q2	OK	567.539	269.369	-1.07513	0.942685	0.345842	0.93284
gene915	gene915	SACOL0928	gi 57650036 ref NC_002951.2 :934265-934658	q1	q2	OK	416.939	63.779	-2.70868	1.87948	0.060179	0.707666
gene916	gene916	SACOL0929	gi 57650036 ref NC_002951.2 :934736-934994	q1	q2	OK	264.349	45.5198	-2.53788	1.33397	0.182214	0.842707
gene917	gene917	SACOL0930	gi 57650036 ref NC_002951.2 :935100-936314	q1	q2	OK	193.32	73.2632	-1.39983	0.791726	0.42852	0.954672
gene918	gene918	SACOL0931	gi 57650036 ref NC_002951.2 :935100-936314	q1	q2	OK	78.7001	78.1692	-0.00976424	0.007235	0.994227	0.998672
gene919	gene919	SACOL0932	gi 57650036 ref NC_002951.2 :936346-937306	q1	q2	OK	96.3016	70.6688	-0.446487	0.405792	0.684895	0.978191
gene92	gene92	sarS	gi 57650036 ref NC_002951.2 :109310-110063	q1	q2	OK	189.637	52.9746	-1.83987	1.45999	0.144294	0.842707
gene920	gene920	SACOL0933	gi 57650036 ref NC_002951.2 :937559-937670	q1	q2	NOTEST 0		0	0	0	1	1
gene921	gene921	SACOL0934	gi 57650036 ref NC_002951.2 :937717-937870	q1	q2	OK	213.652	378.774	0.826072	-0.3695	0.711758	0.978191
gene922	gene922	dltA	gi 57650036 ref NC_002951.2 :937885-940554	q1	q2	OK	125.975	280.476	1.15474	-0.75445	0.450579	0.956269
gene923	gene923	dltB	gi 57650036 ref NC_002951.2 :937885-940554	q1	q2	OK	124.75	164.755	0.401285	-0.20186	0.840028	0.984151
gene924	gene924	dltC	gi 57650036 ref NC_002951.2 :940571-941980	q1	q2	OK	167.511	571.894	1.77149	-0.43328	0.664809	0.978191
gene925	gene925	dltD	gi 57650036 ref NC_002951.2 :940571-941980	q1	q2	OK	181.667	166.863	-0.12263	0.104455	0.916808	0.984151
gene926	gene926	SACOL0939	gi 57650036 ref NC_002951.2 :942242-942464	q1	q2	OK	252.294	115.164	-1.13142	0.586537	0.557515	0.976548
gene927	gene927	SACOL0940	gi 57650036 ref NC_002951.2 :942585-942909	q1	q2	OK	196.527	129.916	-0.597146	0.36667	0.713865	0.978191
gene928	gene928	SACOL0941	gi 57650036 ref NC_002951.2 :942969-944032	q1	q2	OK	135.634	86.8807	-0.642609	0.627971	0.530023	0.963286
gene929	gene929	SACOL0942	gi 57650036 ref NC_002951.2 :944348-944585	q1	q2	OK	789.695	642.224	-0.298219	0.216476	0.828617	0.984151
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	q1	q2	OK	169.969	58.4928	-1.53894	1.34995	0.177033	0.842707
gene930	gene930	SACOL0943	gi 57650036 ref NC_002951.2 :944597-944957	q1	q2	OK	356.116	230.465	-0.627802	0.502438	0.615359	0.978191
gene931	gene931	SACOL0944	gi 57650036 ref NC_002951.2 :945410-946619	q1	q2	OK	275.947	71.5367	-1.94764	1.79145	0.073221	0.754145
gene932	gene932	SACOL0945	gi 57650036 ref NC_002951.2 :946749-948225	q1	q2	OK	123.312	78.5774	-0.650128	0.63764	0.523708	0.963286
gene933	gene933	SACOL0946	gi 57650036 ref NC_002951.2 :948635-949952	q1	q2	OK	12.3075	52.8981	2.10367	-1.43978	0.149931	0.842707
gene934	gene934	SACOL0947	gi 57650036 ref NC_002951.2 :949970-950345	q1	q2	OK	91.6284	68.643	-0.416683	0.239377	0.810813	0.984151

gene935	gene935	SACOL0948	gi 57650036 ref NC_002951.2 :950400-951555	q1	q2	OK	2.98138	30.4211	3.35102	-1.82943	0.067336	0.733049
gene936	gene936	mnhG	gi 57650036 ref NC_002951.2 :951803-952910	q1	q2	OK	191.807	47.2476	-2.02134	0.867975	0.385408	0.940893
gene937	gene937	mnhF	gi 57650036 ref NC_002951.2 :951803-952910	q1	q2	OK	25.5865	36.8947	0.528032	-0.10503	0.916356	0.984151
gene938	gene938	mnhE	gi 57650036 ref NC_002951.2 :951803-952910	q1	q2	OK	123.165	65.3732	-0.913824	0.537261	0.591087	0.978191
gene939	gene939	mnhD	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	136.543	63.2561	-1.11008	0.454731	0.649302	0.978191
gene94	gene94	sirB	gi 57650036 ref NC_002951.2 :110431-112422	q1	q2	OK	1.65927	13.3783	3.01127	-0.39879	0.690046	0.978191
gene940	gene940	mnhC	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	114.3	121.917	0.0930759	-0.01357	0.98917	0.997969
gene941	gene941	mnhB	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	113.925	57.036	-0.998136	0.15937	0.873377	0.984151
gene942	gene942	mnhA	gi 57650036 ref NC_002951.2 :952911-957568	q1	q2	OK	162.278	117.314	-0.468095	0.304724	0.760576	0.978191
gene943	gene943	kapB	gi 57650036 ref NC_002951.2 :957698-958082	q1	q2	OK	95.9887	56.1347	-0.77397	0.442645	0.658022	0.978191
gene944	gene944	SACOL0957	gi 57650036 ref NC_002951.2 :958145-958739	q1	q2	OK	175.884	133.548	-0.397265	0.357311	0.720859	0.978191
gene945	gene945	SACOL0958	gi 57650036 ref NC_002951.2 :959154-959532	q1	q2	OK	857.347	241.702	-1.82665	1.62518	0.104124	0.816291
gene946	gene946	SACOL0959	gi 57650036 ref NC_002951.2 :959893-961021	q1	q2	OK	178.791	181.817	0.0242159	-0.02331	0.981402	0.997969
gene947	gene947	rocD	gi 57650036 ref NC_002951.2 :961328-962519	q1	q2	OK	722.465	559.67	-0.368352	0.283879	0.776503	0.981157
gene948	gene948	gluD	gi 57650036 ref NC_002951.2 :962627-963872	q1	q2	OK	1469.13	771.474	-0.929273	0.684947	0.493377	0.963286
gene949	gene949	SACOL0962	gi 57650036 ref NC_002951.2 :964374-965304	q1	q2	OK	76.2007	45.3756	-0.747889	0.580376	0.561661	0.976548
gene95	gene95	sirA	gi 57650036 ref NC_002951.2 :112437-113430	q1	q2	OK	6.66298	34.6776	2.37977	-1.34796	0.177672	0.842707
gene950	gene950	argH	gi 57650036 ref NC_002951.2 :965545-968120	q1	q2	OK	15.3313	37.2332	1.28011	-0.80431	0.421217	0.949284
gene951	gene951	argG	gi 57650036 ref NC_002951.2 :965545-968120	q1	q2	OK	3.91376	37.6798	3.26716	-1.13394	0.256819	0.892956
gene952	gene952	SACOL0965	gi 57650036 ref NC_002951.2 :968264-968399	q1	q2	OK	0	40.3683	1.79769e+30	1.79769e+30	0.207933	0.842707
gene953	gene953	pgi	gi 57650036 ref NC_002951.2 :968470-969802	q1	q2	OK	321.062	122.339	-1.39197	1.25555	0.209278	0.842707
gene954	gene954	SACOL0967	gi 57650036 ref NC_002951.2 :970126-970702	q1	q2	OK	76.9754	39.2121	-0.973098	0.603524	0.54616	0.97151
gene955	gene955	spsA	gi 57650036 ref NC_002951.2 :970706-971231	q1	q2	OK	174.994	56.78	-1.62385	1.1449	0.25225	0.889805
gene956	gene956	spsB	gi 57650036 ref NC_002951.2 :971237-971822	q1	q2	OK	249.411	41.7483	-2.57874	1.85811	0.063154	0.717594
gene957	gene957	rexB	gi 57650036 ref NC_002951.2 :971981-975458	q1	q2	OK	64.7367	69.7791	0.108212	-0.09998	0.92036	0.984745
gene958	gene958	rexA	gi 57650036 ref NC_002951.2 :975458-979112	q1	q2	OK	64.6344	51.2788	-0.333939	0.313436	0.75395	0.978191
gene959	gene959	SACOL0973	gi 57650036 ref NC_002951.2 :979277-980180	q1	q2	OK	663.071	247.554	-1.42142	1.23821	0.215638	0.850298
gene96	gene96	SACOL0100	gi 57650036 ref NC_002951.2 :113693-114641	q1	q2	OK	0	19.6006	1.79769e+30	1.79769e+30	0.116854	0.838847
gene960	gene960	SACOL0974	gi 57650036 ref NC_002951.2 :980508-980898	q1	q2	OK	210.789	87.1171	-1.27477	0.834714	0.403879	0.940909
gene961	gene961	SACOL0975	gi 57650036 ref NC_002951.2 :981068-982385	q1	q2	OK	173.282	182.256	0.0728439	-0.06851	0.94538	0.987716
gene962	gene962	SACOL0976	gi 57650036 ref NC_002951.2 :982436-983261	q1	q2	OK	141.716	239.295	0.755789	-0.73709	0.461069	0.956269
gene963	gene963	SACOL0977	gi 57650036 ref NC_002951.2 :983374-983683	q1	q2	OK	918.131	174.47	-2.39572	1.79397	0.072819	0.754145
gene964	gene964	SACOL0978	gi 57650036 ref NC_002951.2 :984229-986044	q1	q2	OK	3.22138	25.6283	2.99199	-1.7805	0.074994	0.754145

gene965	gene965	clpB	gi 57650036 ref NC_002951.2 :986246-988856	q1	q2	OK	57.1069	77.4249	0.439133	-0.4236	0.671858	0.978191
gene966	gene966	SACOL0980	gi 57650036 ref NC_002951.2 :988914-989784	q1	q2	OK	1.98271	19.8268	3.32191	-1.64161	0.10067	0.815096
gene967	gene967	SACOL0981	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	0.694723	21.9324	4.98048	-1.1196	0.262886	0.900241
gene968	gene968	SACOL0982	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	2.04209	17.4789	3.0975	-0.72596	0.467862	0.956269
gene969	gene969	SACOL0983	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	2.62413	23.5802	3.16767	-1.23276	0.217667	0.850298
gene97	gene97	SACOL0101	gi 57650036 ref NC_002951.2 :114649-115648	q1	q2	OK	0.550952	27.1759	5.62426	-2.7293	0.006347	0.461354
gene970	gene970	SACOL0984	gi 57650036 ref NC_002951.2 :989893-993274	q1	q2	OK	7.30218	40.8825	2.48508	-0.87044	0.38406	0.940893
gene971	gene971	SACOL0985	gi 57650036 ref NC_002951.2 :993584-994019	q1	q2	OK	119.818	61.1225	-0.971069	0.597865	0.54993	0.974547
gene972	gene972	SACOL0986	gi 57650036 ref NC_002951.2 :994275-994461	q1	q2	OK	3505.05	251.56	-3.80046	2.32748	0.01994	0.517412
gene973	gene973	fabH	gi 57650036 ref NC_002951.2 :994755-995697	q1	q2	OK	64.5212	52.8667	-0.287413	0.225713	0.821424	0.984151
gene974	gene974	fabF	gi 57650036 ref NC_002951.2 :995708-996953	q1	q2	OK	219.585	120.325	-0.867841	0.826191	0.408696	0.940909
gene975	gene975	SACOL0989	gi 57650036 ref NC_002951.2 :997007-997379	q1	q2	OK	32.5324	22.8712	-0.508347	0.251681	0.801288	0.984151
gene976	gene976	SACOL0990	gi 57650036 ref NC_002951.2 :997601-999618	q1	q2	NOTEST 0		0	0	0	1	1
gene977	gene977	oppB	gi 57650036 ref NC_002951.2 :997601-999618	q1	q2	OK	187.51	87.9898	-1.09156	0.623633	0.532868	0.963286
gene978	gene978	oppC	gi 57650036 ref NC_002951.2 :997601-999618	q1	q2	OK	179.726	129.029	-0.478108	0.342983	0.731611	0.978191
gene979	gene979	oppD	gi 57650036 ref NC_002951.2 :999634-1001648	q1	q2	OK	334.052	213.668	-0.644703	0.431974	0.66576	0.978191
gene98	gene98	SACOL0102	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	0.836899	20.6938	4.628	-0.89547	0.370536	0.93402
gene980	gene980	oppF	gi 57650036 ref NC_002951.2 :999634-1001648	q1	q2	OK	216.756	146.079	-0.569319	0.284942	0.775688	0.981122
gene981	gene981	SACOL0995	gi 57650036 ref NC_002951.2 :1001665-1003321	q1	q2	OK	373.703	165.632	-1.17391	0.985806	0.324228	0.927653
gene982	gene982	SACOL0996	gi 57650036 ref NC_002951.2 :1003532-1005248	q1	q2	OK	1.14503	34.5171	4.91386	-2.77445	0.005529	0.446636
gene983	gene983	SACOL0997	gi 57650036 ref NC_002951.2 :1005298-1006285	q1	q2	OK	0.839418	28.632	5.0921	-2.51179	0.012012	0.500083
gene984	gene984	SACOL0998	gi 57650036 ref NC_002951.2 :1006287-1008223	q1	q2	OK	1.41011	23.6865	4.07018	-1.17372	0.240506	0.879153
gene985	gene985	SACOL0999	gi 57650036 ref NC_002951.2 :1006287-1008223	q1	q2	OK	6.06665	31.5433	2.37836	-1.21366	0.224879	0.854232
gene986	gene986	SACOL1000	gi 57650036 ref NC_002951.2 :1008234-1009116	q1	q2	OK	8.11072	42.2965	2.38264	-1.36078	0.173582	0.842707
gene987	gene987	trpS	gi 57650036 ref NC_002951.2 :1009157-1010147	q1	q2	OK	132.945	59.1449	-1.1685	1.04613	0.295499	0.924214
gene988	gene988	spxA	gi 57650036 ref NC_002951.2 :1010441-1010837	q1	q2	OK	28010.2	9625.03	-1.54109	1.12147	0.262086	0.899266
gene989	gene989	SACOL1003	gi 57650036 ref NC_002951.2 :1011207-1011927	q1	q2	OK	173.413	87.4875	-0.987062	0.876145	0.380951	0.940893
gene99	gene99	SACOL0103	gi 57650036 ref NC_002951.2 :115668-124110	q1	q2	OK	0.826802	38.1527	5.5281	-0.9079	0.363932	0.93284
gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	q1	q2	OK	1.39903	27.844	4.31487	-2.17972	0.029278	0.604847
gene991	gene991	pepF	gi 57650036 ref NC_002951.2 :1013081-1014890	q1	q2	OK	131.364	72.4917	-0.857683	0.823658	0.410134	0.940909
gene992	gene992	SACOL1006	gi 57650036 ref NC_002951.2 :1015349-1016156	q1	q2	OK	217.851	175.297	-0.313541	0.310164	0.756436	0.978191
gene993	gene993	SACOL1007	gi 57650036 ref NC_002951.2 :1016178-1016544	q1	q2	OK	180.745	182.613	0.0148319	-0.01007	0.991964	0.997969
gene994	gene994	SACOL1008	gi 57650036 ref NC_002951.2 :1016647-1017241	q1	q2	OK	91.1137	25.9391	-1.81254	1.11641	0.264246	0.901051

gene995	gene995	SACOL1009	gi 57650036 ref NC_002951.2 :1017426-1017774	q1	q2	OK	109.505	61.9462	-0.821916	0.46258	0.643666	0.978191
gene996	gene996	relA1	gi 57650036 ref NC_002951.2 :1017790-1018426	q1	q2	OK	119.129	67.1125	-0.827866	0.618051	0.536542	0.963603
gene997	gene997	ppnK	gi 57650036 ref NC_002951.2 :1018442-1020103	q1	q2	OK	183.588	83.3561	-1.13911	0.921424	0.356829	0.93284
gene998	gene998	SACOL1012	gi 57650036 ref NC_002951.2 :1018442-1020103	q1	q2	OK	61.9092	41.4811	-0.5777	0.309019	0.757307	0.978191
gene999	gene999	mgtE	gi 57650036 ref NC_002951.2 :1020123-1021509	q1	q2	OK	68.1755	77.4311	0.183659	-0.17967	0.857413	0.984151

Supplementary Table S6. Results of Cuffdiff analysis of RNA-seq data for all annotated MRSA genes in MVR, MR150 and M36C05, related to Figure 2c

test_id	gene_id	gene	locus	sample_1	sample_2	status	value_1	value_2	log2(fold_c hange)	test_stat	p_value	q_value
gene0	gene0	dnaA	gi 57650036 ref NC_002951.2 :543-1905	MVR	MR150	OK	40.8055	58.652	0.523418	-0.678223	0.49763	0.999883
gene1	gene1	dnaN	gi 57650036 ref NC_002951.2 :2182-3316	MVR	MR150	OK	71.5909	101.985	0.510515	-0.636856	0.52422	0.999883
gene10	gene10	SACOL0011	gi 57650036 ref NC_002951.2 :14748-15770	MVR	MR150	OK	6.99565	14.7443	1.07563	-0.700357	0.4837	0.999883
gene100	gene100	SACOL0104	gi 57650036 ref NC_002951.2 :115668-124110	MVR	MR150	OK	1.12105	0.19931	-2.4918	0.966455	0.33382	0.999883
gene1000	gene1000	SACOL1014	gi 57650036 ref NC_002951.2 :1021518-1023363	MVR	MR150	OK	35.1437	31.4718	-0.159207	0.207348	0.83574	0.999883
gene1001	gene1001	fabI	gi 57650036 ref NC_002951.2 :1023640-1024411	MVR	MR150	OK	192.938	173.481	-0.15336	0.185517	0.85282	0.999883
gene1002	gene1002	SACOL1017	gi 57650036 ref NC_002951.2 :1024605-1025691	MVR	MR150	OK	79.3075	77.0879	-0.0409521	0.051998	0.95853	0.999883
gene1003	gene1003	SACOL1018	gi 57650036 ref NC_002951.2 :1026032-1027601	MVR	MR150	OK	45.4413	36.3605	-0.321629	0.418056	0.67591	0.999883
gene1004	gene1004	SACOL1019	gi 57650036 ref NC_002951.2 :1027742-1028501	MVR	MR150	OK	16.5023	15.6113	-0.0800773	0.117762	0.90626	0.999883
gene1005	gene1005	SACOL1020	gi 57650036 ref NC_002951.2 :1028694-1029204	MVR	MR150	OK	603.19	599.099	-0.0098199	0.011147	0.99111	0.999883
gene1006	gene1006	SACOL1021	gi 57650036 ref NC_002951.2 :1029316-1031660	MVR	MR150	OK	43.8463	57.9512	0.402382	-0.273464	0.7845	0.999883
gene1007	gene1007	ypfP	gi 57650036 ref NC_002951.2 :1029316-1031660	MVR	MR150	OK	91.3469	106.072	0.21561	-0.203099	0.83906	0.999883
gene1008	gene1008	murE	gi 57650036 ref NC_002951.2 :1032092-1035380	MVR	MR150	OK	37.8437	35.8406	-0.078459	0.057554	0.9541	0.999883
gene1009	gene1009	SACOL1024	gi 57650036 ref NC_002951.2 :1032092-1035380	MVR	MR150	OK	60.0679	42.368	-0.503619	0.096245	0.92333	0.999883
gene101	gene101	SACOL0105	gi 57650036 ref NC_002951.2 :115668-124110	MVR	MR150	OK	2.93381	1.35804	-1.11125	0.944085	0.34513	0.999883
gene1010	gene1010	prfC	gi 57650036 ref NC_002951.2 :1032092-1035380	MVR	MR150	OK	50.5369	55.8484	0.144177	-0.131067	0.89572	0.999883
gene1011	gene1011	SACOL1026	gi 57650036 ref NC_002951.2 :1035681-1036485	MVR	MR150	OK	27.6224	23.5746	-0.228607	0.332426	0.73957	0.999883
gene1012	gene1012	SACOL1027	gi 57650036 ref NC_002951.2 :1036543-1036639	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1013	gene1013	htrA	gi 57650036 ref NC_002951.2 :1036718-1039028	MVR	MR150	OK	13.2908	17.7133	0.414404	-0.569261	0.56918	0.999883
gene1014	gene1014	SACOL1030	gi 57650036 ref NC_002951.2 :1039044-1040403	MVR	MR150	OK	50.446	58.6716	0.217923	-0.279516	0.77985	0.999883
gene1015	gene1015	SACOL1031	gi 57650036 ref NC_002951.2 :1040541-1042053	MVR	MR150	OK	21.2057	22.2969	0.072389	-0.100816	0.9197	0.999883
gene1018	gene1018	SACOL1032	gi 57650036 ref NC_002951.2 :1042539-1043070	MVR	MR150	OK	2.47276	2.31133	-0.0974003	0.108456	0.91363	0.999883
gene1019	gene1019	SACOL1033	gi 57650036 ref NC_002951.2 :1043318-1043537	MVR	MR150	OK	585.86	573.859	-0.0298595	0.042314	0.96625	0.999883
gene102	gene102	SACOL0106	gi 57650036 ref NC_002951.2 :115668-124110	MVR	MR150	OK	2.74902	2.12276	-0.372978	0.204291	0.83813	0.999883
gene1020	gene1020	SACOL1034	gi 57650036 ref NC_002951.2 :1043617-1044604	MVR	MR150	OK	23.9888	20.0412	-0.259391	0.375252	0.70747	0.999883
gene1021	gene1021	SACOL1035	gi 57650036 ref NC_002951.2 :1044802-1044979	MVR	MR150	OK	133.854	286.672	1.09874	-1.52398	0.12751	0.707889
gene1022	gene1022	SACOL1036	gi 57650036 ref NC_002951.2 :1044993-1045596	MVR	MR150	OK	374.598	386.258	0.0442213	-0.051214	0.95916	0.999883
gene1023	gene1023	SACOL1037	gi 57650036 ref NC_002951.2 :1045867-1045975	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1024	gene1024	SACOL1038	gi 57650036 ref NC_002951.2 :1046940-1048905	MVR	MR150	OK	1.3774	0.60748	-1.18105	1.50535	0.13223	0.721045
gene1025	gene1025	SACOL1039	gi 57650036 ref NC_002951.2 :1048907-1049866	MVR	MR150	NOTEST	0.53302	0	-1.79769e+3	-1.79769e+3	0.27986	1

gene1026	gene1026	SACOL1040	gi 57650036 ref NC_002951.2 :1048907-1049866	MVR	MR150	OK	2.23763	1.03896	-1.10684	1.11758	0.26375	0.945311
gene1027	gene1027	SACOL1041	gi 57650036 ref NC_002951.2 :1049953-1050244	MVR	MR150	OK	52.7907	57.8526	0.1321	-0.191699	0.84798	0.999883
gene1028	gene1028	SACOL1042	gi 57650036 ref NC_002951.2 :1050522-1050810	MVR	MR150	OK	20.1498	21.8659	0.11792	-0.156084	0.87597	0.999883
gene1029	gene1029	SACOL1043	gi 57650036 ref NC_002951.2 :1050815-1052297	MVR	MR150	OK	31.335	34.2875	0.129909	-0.173787	0.86203	0.999883
gene103	gene103	SACOL0107	gi 57650036 ref NC_002951.2 :115668-124110	MVR	MR150	OK	3.5842	1.67957	-1.09356	0.818937	0.41282	0.999883
gene1030	gene1030	SACOL1044	gi 57650036 ref NC_002951.2 :1052385-1052742	MVR	MR150	OK	45.9306	87.0651	0.92264	-1.34834	0.17755	0.821737
gene1031	gene1031	SACOL1045	gi 57650036 ref NC_002951.2 :1053218-1054178	MVR	MR150	OK	6.59452	4.63413	-0.508968	0.72909	0.46595	0.999883
gene1032	gene1032	SACOL1046	gi 57650036 ref NC_002951.2 :1054223-1054355	MVR	MR150	OK	124.552	504.02	2.01674	-1.79469	0.0727	0.528391
gene1033	gene1033	SACOL1047	gi 57650036 ref NC_002951.2 :1054418-1054709	MVR	MR150	OK	52.1139	70.0321	0.42635	-0.620113	0.53518	0.999883
gene1034	gene1034	SACOL1048	gi 57650036 ref NC_002951.2 :1054852-1055350	MVR	MR150	OK	27.8892	30.2844	0.118865	-0.174726	0.8613	0.999883
gene1035	gene1035	menA	gi 57650036 ref NC_002951.2 :1055401-1056340	MVR	MR150	OK	37.0485	48.4864	0.388164	-0.53557	0.59226	0.999883
gene1036	gene1036	SACOL1050	gi 57650036 ref NC_002951.2 :1056490-1056595	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1037	gene1037	SACOL1051	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	MR150	OK	20.0663	26.1802	0.383705	-0.13368	0.89366	0.999883
gene1038	gene1038	menD	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	MR150	OK	23.3547	31.485	0.430956	-0.197412	0.84351	0.999883
gene1039	gene1039	SACOL1053	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	MR150	OK	23.6908	38.5306	0.701677	-0.214821	0.82991	0.999883
gene104	gene104	SACOL0108	gi 57650036 ref NC_002951.2 :124113-124878	MVR	MR150	OK	5.18763	4.06465	-0.351945	0.483177	0.62897	0.999883
gene1040	gene1040	menB	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	MR150	OK	238.287	254.036	0.0923353	-0.082259	0.93444	0.999883
gene1041	gene1041	sspC	gi 57650036 ref NC_002951.2 :1061385-1061715	MVR	MR150	OK	6.49596	4.53671	-0.517896	0.560807	0.57493	0.999883
gene1042	gene1042	sspB1	gi 57650036 ref NC_002951.2 :1061752-1062934	MVR	MR150	OK	3.17438	4.36666	0.460058	-0.65244	0.51412	0.999883
gene1043	gene1043	sspA	gi 57650036 ref NC_002951.2 :1063015-1064026	MVR	MR150	OK	4.97844	3.58757	-0.472687	0.666938	0.50481	0.999883
gene1044	gene1044	SACOL1058	gi 57650036 ref NC_002951.2 :1064553-1065708	MVR	MR150	OK	40.5789	41.0521	0.0167266	-0.02256	0.982	0.999883
gene1045	gene1045	SACOL1059	gi 57650036 ref NC_002951.2 :1065903-1066914	MVR	MR150	OK	12.0374	7.93042	-0.602058	0.883349	0.37705	0.999883
gene1046	gene1046	SACOL1060	gi 57650036 ref NC_002951.2 :1067066-1067486	MVR	MR150	OK	28.6067	35.3517	0.305427	-0.447096	0.65481	0.999883
gene1047	gene1047	atl	gi 57650036 ref NC_002951.2 :1067692-1071463	MVR	MR150	OK	557.285	494.397	-0.172745	0.180347	0.85688	0.999883
gene1048	gene1048	SACOL1063	gi 57650036 ref NC_002951.2 :1071690-1072125	MVR	MR150	OK	18.1401	16.2416	-0.159484	0.227597	0.81996	0.999883
gene1049	gene1049	SACOL1064	gi 57650036 ref NC_002951.2 :1072279-1072750	MVR	MR150	OK	531.705	515.641	-0.0442592	0.051779	0.95871	0.999883
gene105	gene105	SACOL0109	gi 57650036 ref NC_002951.2 :125073-125481	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1050	gene1050	SACOL1065	gi 57650036 ref NC_002951.2 :1072797-1074015	MVR	MR150	OK	157.326	139.758	-0.170824	0.197777	0.84322	0.999883
gene1051	gene1051	SACOL1066	gi 57650036 ref NC_002951.2 :1074465-1075659	MVR	MR150	OK	31.532	30.9681	-0.0260347	0.03596	0.97131	0.999883
gene1052	gene1052	qoxD	gi 57650036 ref NC_002951.2 :1076195-1076474	MVR	MR150	OK	1734.84	1757.72	0.018905	-0.021935	0.9825	0.999883
gene1053	gene1053	qoxC	gi 57650036 ref NC_002951.2 :1076482-1080166	MVR	MR150	OK	462.55	434.301	-0.0909135	0.035279	0.97186	0.999883
gene1054	gene1054	qoxA	gi 57650036 ref NC_002951.2 :1076482-1080166	MVR	MR150	OK	444.685	370.129	-0.264756	0.207697	0.83547	0.999883
gene1055	gene1055	qoxB	gi 57650036 ref NC_002951.2 :1076482-1080166	MVR	MR150	OK	398.026	354.04	-0.168948	0.09019	0.92814	0.999883

gene1056	gene1056	SACOL1071	gi 57650036 ref NC_002951.2 :1080737-1081055	MVR	MR150	OK	160.764	146.726	-0.131815	0.190332	0.84905	0.999883
gene1057	gene1057	folD	gi 57650036 ref NC_002951.2 :1081860-1082721	MVR	MR150	OK	196.9	171.416	-0.199959	0.23749	0.81228	0.999883
gene1058	gene1058	purE	gi 57650036 ref NC_002951.2 :1082921-1084515	MVR	MR150	OK	157.985	64.3048	-1.29679	0.670049	0.50283	0.999883
gene1059	gene1059	purK	gi 57650036 ref NC_002951.2 :1082921-1084515	MVR	MR150	OK	173.755	87.2493	-0.993836	1.03469	0.30081	0.984985
gene106	gene106	SACOL0110	gi 57650036 ref NC_002951.2 :125530-126157	MVR	MR150	OK	2.32081	3.22627	0.475239	-0.574925	0.56534	0.999883
gene1060	gene1060	purC	gi 57650036 ref NC_002951.2 :1084518-1085486	MVR	MR150	OK	142.82	65.1767	-1.13177	1.22575	0.22029	0.89416
gene1061	gene1061	purS	gi 57650036 ref NC_002951.2 :1084518-1085486	MVR	MR150	OK	417.889	142.889	-1.54822	1.02474	0.30549	0.99095
gene1062	gene1062	purQ	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	MR150	OK	281.872	119.027	-1.24374	0.377775	0.7056	0.999883
gene1063	gene1063	purL	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	MR150	OK	360.076	125.08	-1.52545	1.03813	0.29921	0.981582
gene1064	gene1064	purF	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	MR150	OK	364.643	112.754	-1.69331	0.903186	0.36643	0.999883
gene1065	gene1065	purM	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	MR150	OK	451.702	139.65	-1.69356	0.805523	0.42052	0.999883
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	MVR	MR150	OK	333.041	100.915	-1.72255	2.18126	0.02916	0.324708
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	MVR	MR150	OK	280.592	83.5847	-1.74716	1.96766	0.04911	0.435378
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	MVR	MR150	OK	480.77	123.484	-1.96103	2.15723	0.03099	0.336223
gene1069	gene1069	SACOL1084	gi 57650036 ref NC_002951.2 :1094420-1096620	MVR	MR150	OK	6.71965	9.33282	0.473927	-0.387471	0.69841	0.999883
gene107	gene107	SACOL0111	gi 57650036 ref NC_002951.2 :126368-127145	MVR	MR150	OK	509.943	702.367	0.461889	-0.492852	0.62212	0.999883
gene1070	gene1070	SACOL1085	gi 57650036 ref NC_002951.2 :1094420-1096620	MVR	MR150	OK	7.85099	9.30923	0.245787	-0.295187	0.76785	0.999883
gene1071	gene1071	SACOL1086	gi 57650036 ref NC_002951.2 :1096634-1097210	MVR	MR150	OK	6.80657	7.3267	0.106235	-0.146095	0.88385	0.999883
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1073	gene1073	SACOL1088	gi 57650036 ref NC_002951.2 :1098142-1099438	MVR	MR150	OK	192.472	183.893	-0.0657799	0.073689	0.94126	0.999883
gene1074	gene1074	SACOL1089	gi 57650036 ref NC_002951.2 :1099862-1101035	MVR	MR150	OK	16.6386	19.5169	0.230188	-0.332658	0.73939	0.999883
gene1075	gene1075	SACOL1090	gi 57650036 ref NC_002951.2 :1101088-1101631	MVR	MR150	OK	40.0997	37.4748	-0.0976678	0.142834	0.88642	0.999883
gene1076	gene1076	ptsH	gi 57650036 ref NC_002951.2 :1101784-1102051	MVR	MR150	OK	264.897	351.212	0.406911	-0.576397	0.56435	0.999883
gene1077	gene1077	ptsI	gi 57650036 ref NC_002951.2 :1102053-1103772	MVR	MR150	OK	344.433	411.804	0.257735	-0.265566	0.79057	0.999883
gene1078	gene1078	SACOL1093	gi 57650036 ref NC_002951.2 :1104008-1104242	MVR	MR150	OK	28.9618	30.7429	0.0861034	-0.109913	0.91248	0.999883
gene1079	gene1079	cydA	gi 57650036 ref NC_002951.2 :1104439-1106817	MVR	MR150	OK	3.54607	2.89965	-0.290341	0.308313	0.75784	0.999883
gene108	gene108	SACOL0112	gi 57650036 ref NC_002951.2 :127288-127411	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1080	gene1080	cydB	gi 57650036 ref NC_002951.2 :1104439-1106817	MVR	MR150	OK	4.55485	3.73496	-0.286309	0.289088	0.77251	0.999883
gene1081	gene1081	SACOL1096	gi 57650036 ref NC_002951.2 :1106949-1107612	MVR	MR150	OK	29.6967	21.8212	-0.444571	0.651566	0.51468	0.999883
gene1082	gene1082	SACOL1097	gi 57650036 ref NC_002951.2 :1107647-1107827	MVR	MR150	OK	112.304	90.3482	-0.313846	0.41056	0.6814	0.999883
gene1083	gene1083	SACOL1098	gi 57650036 ref NC_002951.2 :1107960-1109876	MVR	MR150	OK	166.852	200.301	0.263597	-0.282198	0.77779	0.999883
gene1084	gene1084	SACOL1099	gi 57650036 ref NC_002951.2 :1107960-1109876	MVR	MR150	OK	86.8525	97.9759	0.173859	-0.021956	0.98248	0.999883
gene1085	gene1085	def	gi 57650036 ref NC_002951.2 :1110356-1110908	MVR	MR150	OK	37.2244	38.6923	0.0557971	-0.081579	0.93498	0.999883

gene1086	gene1086	SACOL1101	gi 57650036 ref NC_002951.2 :1111272-1111899	MVR	MR150	OK	146.356	115.429	-0.342479	0.446236	0.65543	0.999883
gene1087	gene1087	pdhA	gi 57650036 ref NC_002951.2 :1112069-1113182	MVR	MR150	OK	218.989	259.819	0.246647	-0.274843	0.78344	0.999883
gene1088	gene1088	pdhB	gi 57650036 ref NC_002951.2 :1113185-1114163	MVR	MR150	OK	224.137	242.488	0.113534	-0.128934	0.89741	0.999883
gene1089	gene1089	pdhC	gi 57650036 ref NC_002951.2 :1114253-1115546	MVR	MR150	OK	259.045	294.953	0.187278	-0.202061	0.83987	0.999883
gene109	gene109	SACOL0113	gi 57650036 ref NC_002951.2 :127489-129116	MVR	MR150	NOTEST	0.85996	0.59506	-0.531226	0.484641	0.62793	1
gene1090	gene1090	pdhD	gi 57650036 ref NC_002951.2 :1115549-1116956	MVR	MR150	OK	518.949	527.735	0.0242211	-0.02486	0.98017	0.999883
gene1091	gene1091	SACOL1106	gi 57650036 ref NC_002951.2 :1117123-1117399	MVR	MR150	OK	61.3157	59.1421	-0.0520722	0.075422	0.93988	0.999883
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	MVR	MR150	OK	6.83875	9.00114	0.396376	-0.544333	0.58621	0.999883
gene1093	gene1093	SACOL1108	gi 57650036 ref NC_002951.2 :1118094-1119979	MVR	MR150	OK	7.7884	5.81759	-0.420906	0.520841	0.60248	0.999883
gene1094	gene1094	SACOL1109	gi 57650036 ref NC_002951.2 :1118094-1119979	MVR	MR150	OK	4.78766	3.58445	-0.417569	0.330147	0.74129	0.999883
gene1095	gene1095	SACOL1110	gi 57650036 ref NC_002951.2 :1119984-1121867	MVR	MR150	OK	7.18417	8.28296	0.205324	-0.154171	0.87748	0.999883
gene1096	gene1096	SACOL1111	gi 57650036 ref NC_002951.2 :1119984-1121867	MVR	MR150	OK	14.9983	13.842	-0.11575	0.142843	0.88641	0.999883
gene1097	gene1097	SACOL1112	gi 57650036 ref NC_002951.2 :1121940-1122960	MVR	MR150	OK	306.35	271.345	-0.175054	0.193504	0.84656	0.999883
gene1098	gene1098	SACOL1113	gi 57650036 ref NC_002951.2 :1123242-1123662	MVR	MR150	OK	165.152	177.451	0.103631	-0.140817	0.88802	0.999883
gene1099	gene1099	SACOL1114	gi 57650036 ref NC_002951.2 :1123743-1125096	MVR	MR150	OK	504.654	386.67	-0.38419	0.398073	0.69058	0.999883
gene11	gene11	SACOL0012	gi 57650036 ref NC_002951.2 :16111-17101	MVR	MR150	OK	3.58805	2.51987	-0.509849	0.692601	0.48856	0.999883
gene110	gene110	SACOL0114	gi 57650036 ref NC_002951.2 :127489-129116	MVR	MR150	NOTEST	0.99726	0	-1.79769e+3(-1.79769e+	0.05993	1	
gene1100	gene1100	SACOL1115	gi 57650036 ref NC_002951.2 :1125279-1125894	MVR	MR150	OK	179.992	197.324	0.132635	-0.1663	0.86792	0.999883
gene1101	gene1101	SACOL1116	gi 57650036 ref NC_002951.2 :1126050-1126878	MVR	MR150	OK	134.563	146.773	0.125304	-0.154666	0.87709	0.999883
gene1102	gene1102	SACOL1117	gi 57650036 ref NC_002951.2 :1127031-1127223	MVR	MR150	OK	383.619	372.293	-0.0432355	0.063571	0.94931	0.999883
gene1103	gene1103	typA	gi 57650036 ref NC_002951.2 :1127324-1129172	MVR	MR150	OK	92.487	93.3141	0.0128446	-0.014841	0.98816	0.999883
gene1104	gene1104	SACOL1119	gi 57650036 ref NC_002951.2 :1129311-1129479	MVR	MR150	OK	57.137	96.0281	0.749031	-0.854983	0.39256	0.999883
gene1105	gene1105	SACOL1120	gi 57650036 ref NC_002951.2 :1129480-1129963	MVR	MR150	OK	65.2647	91.864	0.493198	-0.702789	0.48219	0.999883
gene1106	gene1106	SACOL1121	gi 57650036 ref NC_002951.2 :1130103-1130379	MVR	MR150	OK	839.016	1125.44	0.423717	-0.52811	0.59742	0.999883
gene1107	gene1107	SACOL1122	gi 57650036 ref NC_002951.2 :1130692-1131919	MVR	MR150	OK	91.7762	93.7974	0.0314278	-0.038401	0.96937	0.999883
gene1108	gene1108	pyc	gi 57650036 ref NC_002951.2 :1132472-1135925	MVR	MR150	OK	71.1198	81.3258	0.193462	-0.21267	0.83159	0.999883
gene1109	gene1109	ctaA	gi 57650036 ref NC_002951.2 :1136064-1137135	MVR	MR150	OK	63.865	59.7782	-0.0954058	0.124561	0.90087	0.999883
gene111	gene111	SACOL0115	gi 57650036 ref NC_002951.2 :129325-133131	MVR	MR150	OK	1.4884	0.79185	-0.910454	0.542125	0.58773	0.999883
gene1110	gene1110	ctaB	gi 57650036 ref NC_002951.2 :1137415-1138327	MVR	MR150	OK	172.366	164.306	-0.0690899	0.082175	0.93451	0.999883
gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	MVR	MR150	OK	202.463	204.772	0.0163592	-0.021442	0.98289	0.999883
gene1112	gene1112	SACOL1127	gi 57650036 ref NC_002951.2 :1139024-1139228	MVR	MR150	OK	6.21505	13.7972	1.15054	-0.879145	0.37932	0.999883
gene1113	gene1113	SACOL1128	gi 57650036 ref NC_002951.2 :1139277-1140177	MVR	MR150	OK	40.6556	47.9051	0.236727	-0.327232	0.74349	0.999883
gene1114	gene1114	SACOL1129	gi 57650036 ref NC_002951.2 :1140192-1140627	MVR	MR150	OK	64.04	99.3989	0.634256	-0.912032	0.36175	0.999883

gene1115	gene1115	SACOL1130	gi 57650036 ref NC_002951.2 :1140689-1141616	MVR	MR150	OK	41.0079	36.6488	-0.162136	0.226237	0.82102	0.999883
gene1116	gene1116	SACOL1131	gi 57650036 ref NC_002951.2 :1141854-1142109	MVR	MR150	OK	20.3084	40.9563	1.01201	-1.3214	0.18637	0.840333
gene1117	gene1117	SACOL1132	gi 57650036 ref NC_002951.2 :1142111-1142501	MVR	MR150	OK	16.8603	23.9751	0.507908	-0.719597	0.47177	0.999883
gene1118	gene1118	SACOL1133	gi 57650036 ref NC_002951.2 :1142570-1143113	MVR	MR150	OK	15.93	21.8603	0.456568	-0.666603	0.50503	0.999883
gene1119	gene1119	coaD	gi 57650036 ref NC_002951.2 :1143114-1143597	MVR	MR150	OK	56.9378	61.6029	0.113612	-0.164765	0.86913	0.999883
gene112	gene112	SACOL0116	gi 57650036 ref NC_002951.2 :129325-133131	MVR	MR150	OK	1.09475	0.737	-0.570868	0.322527	0.74705	0.999883
gene1120	gene1120	SACOL1135	gi 57650036 ref NC_002951.2 :1143658-1144798	MVR	MR150	OK	13.8541	14.1738	0.0329135	-0.048115	0.96162	0.999883
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	MVR	MR150	OK	189.442	247.933	0.388197	-0.487164	0.62614	0.999883
gene1122	gene1122	rpmF	gi 57650036 ref NC_002951.2 :1145561-1145735	MVR	MR150	OK	2414.65	2356.8	-0.0349808	0.047689	0.96197	0.999883
gene1123	gene1123	isdB	gi 57650036 ref NC_002951.2 :1145888-1147826	MVR	MR150	OK	2.72995	1.85074	-0.560772	0.799347	0.42409	0.999883
gene1124	gene1124	isdA	gi 57650036 ref NC_002951.2 :1148028-1149081	MVR	MR150	OK	4.51468	8.43775	0.902236	-1.30428	0.19214	0.852075
gene1125	gene1125	isdC	gi 57650036 ref NC_002951.2 :1149289-1151924	MVR	MR150	OK	1.77932	2.53032	0.507994	-0.361667	0.7176	0.999883
gene1126	gene1126	isdD	gi 57650036 ref NC_002951.2 :1149289-1151924	MVR	MR150	OK	2.53664	0.17462	-3.86066	1.59397	0.11094	0.661451
gene1127	gene1127	SACOL1143	gi 57650036 ref NC_002951.2 :1149289-1151924	MVR	MR150	OK	2.49965	2.02956	-0.300563	0.273513	0.78446	0.999883
gene1128	gene1128	SACOL1144	gi 57650036 ref NC_002951.2 :1151936-1152902	MVR	MR150	OK	1.41858	2.39888	0.757916	-0.949186	0.34253	0.999883
gene1129	gene1129	srtB	gi 57650036 ref NC_002951.2 :1152963-1153698	MVR	MR150	OK	1.37301	1.4308	0.0594878	-0.065604	0.94769	0.999883
gene113	gene113	SACOL0117	gi 57650036 ref NC_002951.2 :129325-133131	MVR	MR150	OK	3.77949	2.986	-0.339978	0.407196	0.68386	0.999883
gene1130	gene1130	SACOL1146	gi 57650036 ref NC_002951.2 :1153716-1154040	MVR	MR150	OK	6.2582	5.90877	-0.0828917	0.091414	0.92716	0.999883
gene1131	gene1131	SACOL1147	gi 57650036 ref NC_002951.2 :1154423-1155164	MVR	MR150	OK	27.1416	28.5819	0.0745967	-0.108581	0.91353	0.999883
gene1132	gene1132	pheS	gi 57650036 ref NC_002951.2 :1155544-1159005	MVR	MR150	OK	18.9095	19.6101	0.0524838	-0.034226	0.9727	0.999883
gene1133	gene1133	pheT	gi 57650036 ref NC_002951.2 :1155544-1159005	MVR	MR150	OK	22.5751	19.9555	-0.177942	0.196174	0.84447	0.999883
gene1134	gene1134	rnhC	gi 57650036 ref NC_002951.2 :1159175-1160114	MVR	MR150	OK	6.78813	6.2162	-0.126982	0.183583	0.85434	0.999883
gene1135	gene1135	SACOL1151	gi 57650036 ref NC_002951.2 :1160483-1160750	MVR	MR150	OK	73.0164	91.1252	0.31963	-0.466465	0.64088	0.999883
gene1136	gene1136	SACOL1152	gi 57650036 ref NC_002951.2 :1160750-1161272	MVR	MR150	OK	71.1161	124.015	0.802266	-1.11021	0.26691	0.950133
gene1137	gene1137	SACOL1153	gi 57650036 ref NC_002951.2 :1161344-1163057	MVR	MR150	OK	30.2455	31.8885	0.0763129	-0.100928	0.91961	0.999883
gene1138	gene1138	SACOL1154	gi 57650036 ref NC_002951.2 :1163066-1165415	MVR	MR150	OK	38.5352	36.9222	-0.0616906	0.076813	0.93877	0.999883
gene1139	gene1139	trxA	gi 57650036 ref NC_002951.2 :1165587-1165902	MVR	MR150	OK	826.576	1223.6	0.565913	-0.675894	0.49911	0.999883
gene114	gene114	sodA1	gi 57650036 ref NC_002951.2 :133398-133998	MVR	MR150	OK	160.266	248.338	0.631838	-0.78932	0.42993	0.999883
gene1140	gene1140	SACOL1156	gi 57650036 ref NC_002951.2 :1165964-1166060	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1141	gene1141	uvrC	gi 57650036 ref NC_002951.2 :1166225-1168007	MVR	MR150	OK	15.9548	13.8451	-0.20461	0.289994	0.77182	0.999883
gene1142	gene1142	sdhC	gi 57650036 ref NC_002951.2 :1168330-1168945	MVR	MR150	OK	286.283	404.975	0.500393	-0.584853	0.55865	0.999883
gene1143	gene1143	sdhA	gi 57650036 ref NC_002951.2 :1168996-1171578	MVR	MR150	OK	619.83	711.391	0.198771	-0.142538	0.88666	0.999883
gene1144	gene1144	sdhB	gi 57650036 ref NC_002951.2 :1168996-1171578	MVR	MR150	OK	1927.68	2041.88	0.0830338	-0.064157	0.94885	0.999883

gene1145	gene1145	murI	gi 57650036 ref NC_002951.2 :1171813-1172614	MVR	MR150	OK	92.1142	122.282	0.408722	-0.523777	0.60043	0.999883
gene1146	gene1146	SACOL1162	gi 57650036 ref NC_002951.2 :1172625-1173709	MVR	MR150	OK	121.221	155.026	0.354862	-0.267176	0.78933	0.999883
gene1147	gene1147	SACOL1163	gi 57650036 ref NC_002951.2 :1172625-1173709	MVR	MR150	OK	247.143	265.689	0.104395	-0.094669	0.92458	0.999883
gene1148	gene1148	SACOL1164	gi 57650036 ref NC_002951.2 :1174197-1174527	MVR	MR150	OK	849.472	677.105	-0.327188	0.399172	0.68977	0.999883
gene1149	gene1149	SACOL1165	gi 57650036 ref NC_002951.2 :1174697-1174805	MVR	MR150	NOTEST	0	0	0	0	1	1
gene115	gene115	SACOL0119	gi 57650036 ref NC_002951.2 :134365-135091	MVR	MR150	OK	11.4138	22.4111	0.973436	-1.42328	0.15465	0.769852
gene1150	gene1150	SACOL1166	gi 57650036 ref NC_002951.2 :1174895-1175297	MVR	MR150	OK	27.1127	18.8325	-0.525742	0.755805	0.44977	0.999883
gene1151	gene1151	SACOL1167	gi 57650036 ref NC_002951.2 :1175968-1176475	MVR	MR150	OK	18.5578	15.9455	-0.21887	0.317597	0.75079	0.999883
gene1152	gene1152	efb	gi 57650036 ref NC_002951.2 :1176733-1177231	MVR	MR150	OK	246.745	180.68	-0.449588	0.578573	0.56288	0.999883
gene1153	gene1153	SACOL1169	gi 57650036 ref NC_002951.2 :1177384-1177735	MVR	MR150	OK	355.287	336.183	-0.0797398	0.10476	0.91657	0.999883
gene1154	gene1154	SACOL1170	gi 57650036 ref NC_002951.2 :1178160-1178406	MVR	MR150	OK	17.2158	0	-1.79769e+3(-1.79769e+	0.00868	0.152769	
gene1155	gene1155	SACOL1171	gi 57650036 ref NC_002951.2 :1178556-1178742	MVR	MR150	OK	52.6856	41.8899	-0.330809	0.387508	0.69838	0.999883
gene1156	gene1156	SACOL1172	gi 57650036 ref NC_002951.2 :1179363-1179597	MVR	MR150	OK	56.6644	86.6392	0.612577	-0.864636	0.38724	0.999883
gene1157	gene1157	hiY	gi 57650036 ref NC_002951.2 :1180073-1181033	MVR	MR150	OK	2.30411	2.41781	0.0694905	-0.09104	0.92746	0.999883
gene1158	gene1158	SACOL1174	gi 57650036 ref NC_002951.2 :1181705-1182033	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1159	gene1159	SACOL1175	gi 57650036 ref NC_002951.2 :1181705-1182033	MVR	MR150	OK	56.3055	67.9226	0.270616	-0.348291	0.72762	0.999883
gene116	gene116	SACOL0120	gi 57650036 ref NC_002951.2 :135282-136038	MVR	MR150	OK	17.5845	19.8259	0.173084	-0.254263	0.79929	0.999883
gene1160	gene1160	SACOL1176	gi 57650036 ref NC_002951.2 :1182064-1182421	MVR	MR150	OK	30.0837	48.489	0.688677	-0.848564	0.39612	0.999883
gene1161	gene1161	SACOL1177	gi 57650036 ref NC_002951.2 :1182064-1182421	MVR	MR150	OK	373.655	168.007	-1.15319	0.58895	0.5559	0.999883
gene1162	gene1162	SACOL1178	gi 57650036 ref NC_002951.2 :1182589-1183306	MVR	MR150	OK	2.37185	2.07281	-0.194419	0.235346	0.81394	0.999883
gene1163	gene1163	SACOL1179	gi 57650036 ref NC_002951.2 :1183413-1184139	MVR	MR150	OK	1.39761	1.45527	0.0583244	-0.064321	0.94871	0.999883
gene1164	gene1164	SACOL1180	gi 57650036 ref NC_002951.2 :1184233-1184959	MVR	MR150	OK	1.39761	0.58211	-1.2636	1.20427	0.22849	0.898537
gene1165	gene1165	arcB1	gi 57650036 ref NC_002951.2 :1185396-1186398	MVR	MR150	OK	2.63075	1.14563	-1.19934	1.48762	0.13685	0.732537
gene1166	gene1166	arcC1	gi 57650036 ref NC_002951.2 :1186420-1187353	MVR	MR150	OK	3.79392	3.13353	-0.275902	0.377958	0.70546	0.999883
gene1167	gene1167	SACOL1183	gi 57650036 ref NC_002951.2 :1187524-1189081	MVR	MR150	OK	4.78247	2.14449	-1.15712	1.65164	0.09861	0.633775
gene1168	gene1168	SACOL1184	gi 57650036 ref NC_002951.2 :1189920-1190868	MVR	MR150	OK	19.546	18.0149	-0.11768	0.171704	0.86367	0.999883
gene1169	gene1169	SACOL1185	gi 57650036 ref NC_002951.2 :1191116-1191305	MVR	MR150	OK	8.63929	25.8623	1.58186	-1.23583	0.21652	0.89416
gene117	gene117	deoD1	gi 57650036 ref NC_002951.2 :136273-136981	MVR	MR150	OK	6.03981	4.21902	-0.517596	0.708831	0.47843	0.999883
gene1170	gene1170	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1191779-1191853	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1171	gene1171	SACOL1186	gi 57650036 ref NC_002951.2 :1192216-1192351	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1172	gene1172	SACOL1187	gi 57650036 ref NC_002951.2 :1192407-1192542	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1173	gene1173	SACOL1188	gi 57650036 ref NC_002951.2 :1192665-1193361	MVR	MR150	OK	36.0448	37.9632	0.0748095	-0.107957	0.91403	0.999883
gene1174	gene1174	SACOL1189	gi 57650036 ref NC_002951.2 :1193469-1193910	MVR	MR150	OK	794.784	791.498	-0.0059782	0.006775	0.9946	0.999883

gene1175	gene1175	SACOL1190	gi 57650036 ref NC_002951.2 :1194104-1195718	MVR	MR150	OK	43.171	44.5191	0.0443638	-0.057013	0.95454	0.999883
gene1176	gene1176	mraZ	gi 57650036 ref NC_002951.2 :1195861-1196293	MVR	MR150	OK	270.857	247.385	-0.130769	0.169383	0.8655	0.999883
gene1177	gene1177	mraW	gi 57650036 ref NC_002951.2 :1196308-1197244	MVR	MR150	OK	119.252	107.77	-0.146049	0.181447	0.85602	0.999883
gene1178	gene1178	SACOL1193	gi 57650036 ref NC_002951.2 :1197272-1199874	MVR	MR150	OK	153.566	140.382	-0.129495	0.061915	0.95063	0.999883
gene1179	gene1179	pbp1	gi 57650036 ref NC_002951.2 :1197272-1199874	MVR	MR150	OK	68.1178	56.4529	-0.270983	0.284858	0.77575	0.999883
gene118	gene118	SACOL0122	gi 57650036 ref NC_002951.2 :136987-138340	MVR	MR150	OK	6.37163	6.77437	0.0884238	-0.129877	0.89666	0.999883
gene1180	gene1180	mraY	gi 57650036 ref NC_002951.2 :1200165-1201131	MVR	MR150	OK	38.3804	35.9832	-0.0930461	0.129701	0.8968	0.999883
gene1181	gene1181	murD	gi 57650036 ref NC_002951.2 :1201132-1202482	MVR	MR150	OK	54.5888	49.6751	-0.136082	0.175586	0.86062	0.999883
gene1182	gene1182	divIB	gi 57650036 ref NC_002951.2 :1202497-1203817	MVR	MR150	OK	65.4209	56.8852	-0.201698	0.256394	0.79765	0.999883
gene1183	gene1183	ftsA	gi 57650036 ref NC_002951.2 :1203922-1205335	MVR	MR150	OK	243.188	247.853	0.0274163	-0.029619	0.97637	0.999883
gene1184	gene1184	ftsZ	gi 57650036 ref NC_002951.2 :1205367-1206540	MVR	MR150	OK	517.276	499.255	-0.0511584	0.053065	0.95768	0.999883
gene1185	gene1185	SACOL1200	gi 57650036 ref NC_002951.2 :1206799-1207591	MVR	MR150	OK	15.8529	21.7245	0.454583	-0.666623	0.50501	0.999883
gene1186	gene1186	SACOL1201	gi 57650036 ref NC_002951.2 :1207608-1208843	MVR	MR150	OK	262.628	258.79	-0.0212399	0.019437	0.98449	0.999883
gene1187	gene1187	ylmF	gi 57650036 ref NC_002951.2 :1207608-1208843	MVR	MR150	OK	170.303	192.14	0.174047	-0.115684	0.9079	0.999883
gene1188	gene1188	ylmG	gi 57650036 ref NC_002951.2 :1208854-1209145	MVR	MR150	OK	272.075	353.206	0.376504	-0.522427	0.60137	0.999883
gene1189	gene1189	ylmH	gi 57650036 ref NC_002951.2 :1209254-1210034	MVR	MR150	OK	88.3355	97.934	0.148816	-0.194342	0.84591	0.999883
gene119	gene119	deoC1	gi 57650036 ref NC_002951.2 :138420-139083	MVR	MR150	OK	31.2947	31.4093	0.0052733	-0.007688	0.99387	0.999883
gene1190	gene1190	SACOL1205	gi 57650036 ref NC_002951.2 :1210057-1210675	MVR	MR150	OK	292.266	283.061	-0.0461692	0.054969	0.95616	0.999883
gene1191	gene1191	ileS	gi 57650036 ref NC_002951.2 :1210895-1213649	MVR	MR150	OK	69.4739	77.4304	0.156428	-0.176856	0.85962	0.999883
gene1192	gene1192	SACOL1207	gi 57650036 ref NC_002951.2 :1213938-1214736	MVR	MR150	OK	26.0775	25.3472	-0.040978	0.059601	0.95247	0.999883
gene1193	gene1193	lspA	gi 57650036 ref NC_002951.2 :1215559-1216968	MVR	MR150	OK	29.3761	28.2852	-0.0545991	0.033924	0.97294	0.999883
gene1194	gene1194	SACOL1209	gi 57650036 ref NC_002951.2 :1215559-1216968	MVR	MR150	OK	42.2978	42.866	0.0192532	-0.023075	0.98159	0.999883
gene1195	gene1195	pyrR	gi 57650036 ref NC_002951.2 :1217367-1217895	MVR	MR150	OK	92.1964	112.423	0.286151	-0.393111	0.69424	0.999883
gene1196	gene1196	uraA	gi 57650036 ref NC_002951.2 :1218112-1219420	MVR	MR150	OK	70.461	72.0145	0.0314626	-0.039325	0.96863	0.999883
gene1197	gene1197	pyrB	gi 57650036 ref NC_002951.2 :1219447-1220329	MVR	MR150	OK	109.217	118.993	0.12368	-0.154976	0.87684	0.999883
gene1198	gene1198	pyrC	gi 57650036 ref NC_002951.2 :1220346-1221621	MVR	MR150	OK	137.5	130.498	-0.0753978	0.087745	0.93008	0.999883
gene1199	gene1199	carA	gi 57650036 ref NC_002951.2 :1221622-1225889	MVR	MR150	OK	102.824	102.49	-0.0046947	0.002288	0.99818	0.999883
gene12	gene12	SACOL0013	gi 57650036 ref NC_002951.2 :17406-18330	MVR	MR150	OK	70.672	78.8885	0.158678	-0.207089	0.83594	0.999883
gene120	gene120	deoB	gi 57650036 ref NC_002951.2 :139110-140289	MVR	MR150	OK	54.0726	64.4492	0.253263	-0.327996	0.74292	0.999883
gene1200	gene1200	carB	gi 57650036 ref NC_002951.2 :1221622-1225889	MVR	MR150	OK	115.479	107.343	-0.105412	0.097661	0.9222	0.999883
gene1201	gene1201	pyrF	gi 57650036 ref NC_002951.2 :1225998-1227302	MVR	MR150	OK	94.7395	92.8457	-0.0291307	0.029101	0.97678	0.999883
gene1202	gene1202	pyrE	gi 57650036 ref NC_002951.2 :1225998-1227302	MVR	MR150	OK	62.8205	71.3305	0.183283	-0.141069	0.88782	0.999883
gene1203	gene1203	SACOL1218	gi 57650036 ref NC_002951.2 :1227331-1227544	MVR	MR150	OK	390.113	372.137	-0.0680611	0.099287	0.92091	0.999883

gene1204	gene1204	SACOL1219	gi 57650036 ref NC_002951.2 :1227980-1228382	MVR	MR150	OK	120.393	143.127	0.249543	-0.351022	0.72557	0.999883
gene1205	gene1205	SACOL1220	gi 57650036 ref NC_002951.2 :1228644-1230342	MVR	MR150	OK	37.7352	38.4447	0.0268731	-0.034849	0.9722	0.999883
gene1206	gene1206	gmk	gi 57650036 ref NC_002951.2 :1230616-1231458	MVR	MR150	OK	201.376	222.381	0.14314	-0.159786	0.87305	0.999883
gene1207	gene1207	rpoZ	gi 57650036 ref NC_002951.2 :1230616-1231458	MVR	MR150	OK	279.507	468.885	0.746348	-0.337717	0.73558	0.999883
gene1208	gene1208	coaBC	gi 57650036 ref NC_002951.2 :1231667-1235281	MVR	MR150	OK	27.0971	34.2525	0.338066	-0.186111	0.85236	0.999883
gene1209	gene1209	priA	gi 57650036 ref NC_002951.2 :1231667-1235281	MVR	MR150	OK	46.9	49.6493	0.0821852	-0.084707	0.9325	0.999883
gene121	gene121	SACOL0125	gi 57650036 ref NC_002951.2 :140419-142032	MVR	MR150	OK	3.65446	1.73989	-1.07067	1.08383	0.27844	0.964151
gene1210	gene1210	SACOL1225	gi 57650036 ref NC_002951.2 :1235786-1236740	MVR	MR150	OK	22.4294	26.1982	0.224078	-0.323181	0.74656	0.999883
gene1211	gene1211	SACOL1226	gi 57650036 ref NC_002951.2 :1236902-1237181	MVR	MR150	OK	1505.54	1740.8	0.209474	-0.245139	0.80635	0.999883
gene1212	gene1212	def2	gi 57650036 ref NC_002951.2 :1237404-1240125	MVR	MR150	OK	45.5463	58.2134	0.354017	-0.147903	0.88242	0.999883
gene1213	gene1213	fmt	gi 57650036 ref NC_002951.2 :1237404-1240125	MVR	MR150	OK	54.6981	54.0932	-0.0160417	0.011125	0.99112	0.999883
gene1214	gene1214	sun	gi 57650036 ref NC_002951.2 :1237404-1240125	MVR	MR150	OK	52.0635	61.6478	0.243777	-0.212637	0.83161	0.999883
gene1215	gene1215	SACOL1230	gi 57650036 ref NC_002951.2 :1240127-1241222	MVR	MR150	OK	49.1475	54.5826	0.151325	-0.200523	0.84107	0.999883
gene1216	gene1216	SACOL1231	gi 57650036 ref NC_002951.2 :1241228-1243963	MVR	MR150	OK	46.5493	50.3759	0.113975	-0.051475	0.95895	0.999883
gene1217	gene1217	SACOL1232	gi 57650036 ref NC_002951.2 :1241228-1243963	MVR	MR150	OK	72.8559	84.3085	0.210633	-0.221578	0.82464	0.999883
gene1218	gene1218	SACOL1234	gi 57650036 ref NC_002951.2 :1244190-1245066	MVR	MR150	OK	33.9005	44.1688	0.381719	-0.535955	0.59199	0.999883
gene1219	gene1219	rpe	gi 57650036 ref NC_002951.2 :1245066-1245711	MVR	MR150	OK	48.8776	45.7502	-0.0953937	0.136591	0.89135	0.999883
gene122	gene122	SACOL0126	gi 57650036 ref NC_002951.2 :140419-142032	MVR	MR150	OK	2.12805	2.03804	-0.06235	0.056696	0.95479	0.999883
gene1220	gene1220	SACOL1236	gi 57650036 ref NC_002951.2 :1245717-1246359	MVR	MR150	OK	46.4309	54.3721	0.227782	-0.324651	0.74545	0.999883
gene1221	gene1221	rpmB	gi 57650036 ref NC_002951.2 :1246739-1246928	MVR	MR150	OK	13523.4	19707	0.543257	-0.577529	0.56358	0.999883
gene1222	gene1222	SACOL1239	gi 57650036 ref NC_002951.2 :1247370-1247745	MVR	MR150	OK	99.6049	102.856	0.0463354	-0.067059	0.94654	0.999883
gene1223	gene1223	SACOL1240	gi 57650036 ref NC_002951.2 :1247759-1249406	MVR	MR150	OK	108.261	118.34	0.128419	-0.147314	0.88289	0.999883
gene1224	gene1224	recG	gi 57650036 ref NC_002951.2 :1249595-1251656	MVR	MR150	OK	26.6818	35.7212	0.420923	-0.544854	0.58585	0.999883
gene1225	gene1225	SACOL1242	gi 57650036 ref NC_002951.2 :1251858-1252431	MVR	MR150	OK	74.5089	79.5997	0.09535	-0.132991	0.8942	0.999883
gene1226	gene1226	plsX	gi 57650036 ref NC_002951.2 :1252435-1255068	MVR	MR150	OK	64.0723	59.54	-0.105844	0.06983	0.94433	0.999883
gene1227	gene1227	fabD	gi 57650036 ref NC_002951.2 :1252435-1255068	MVR	MR150	OK	58.6421	67.1894	0.196298	-0.125437	0.90018	0.999883
gene1228	gene1228	fabG1	gi 57650036 ref NC_002951.2 :1252435-1255068	MVR	MR150	OK	103.662	105.307	0.0227169	-0.016027	0.98721	0.999883
gene1229	gene1229	SACOL1246	gi 57650036 ref NC_002951.2 :1255190-1255289	MVR	MR150	NOTEST	0	0	0	0	1	1
gene123	gene123	SACOL0127	gi 57650036 ref NC_002951.2 :142033-142807	MVR	MR150	OK	2.87031	1.60038	-0.842792	1.02804	0.30393	0.988652
gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	MVR	MR150	OK	920.482	1173.82	0.350752	-0.457882	0.64704	0.999883
gene1231	gene1231	rnc	gi 57650036 ref NC_002951.2 :1255659-1256391	MVR	MR150	OK	18.5299	16.1153	-0.201423	0.296183	0.76709	0.999883
gene1232	gene1232	SACOL1250	gi 57650036 ref NC_002951.2 :1256537-1261673	MVR	MR150	OK	18.3023	19.791	0.112823	-0.113306	0.90979	0.999883
gene1233	gene1233	SACOL1251	gi 57650036 ref NC_002951.2 :1256537-1261673	MVR	MR150	OK	27.3907	27.3949	0.0002182	-0.000146	0.99988	0.999883

gene1234	gene1234	SACOL1252	gi 57650036 ref NC_002951.2 :1256537-1261673	MVR	MR150	OK	17.6157	15.563	-0.178736	0.032736	0.97389	0.999883
gene1235	gene1235	ffh	gi 57650036 ref NC_002951.2 :1261698-1263066	MVR	MR150	OK	115.282	110.408	-0.0623271	0.073258	0.9416	0.999883
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	MVR	MR150	OK	289.503	280.055	-0.0478692	0.067879	0.94588	0.999883
gene1237	gene1237	rimM	gi 57650036 ref NC_002951.2 :1263963-1265204	MVR	MR150	OK	8.96048	6.03839	-0.569413	0.48445	0.62807	0.999883
gene1238	gene1238	trmD	gi 57650036 ref NC_002951.2 :1263963-1265204	MVR	MR150	OK	7.27998	8.25241	0.180882	-0.212832	0.83146	0.999883
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	MVR	MR150	OK	891.905	802.277	-0.15279	0.180969	0.85639	0.999883
gene124	gene124	SACOL0128	gi 57650036 ref NC_002951.2 :143020-143977	MVR	MR150	OK	4.94618	4.85477	-0.0269119	0.038257	0.96948	0.999883
gene1240	gene1240	SACOL1259	gi 57650036 ref NC_002951.2 :1265900-1268507	MVR	MR150	OK	7.41273	6.23666	-0.24923	0.361244	0.71792	0.999883
gene1241	gene1241	rbgA	gi 57650036 ref NC_002951.2 :1268907-1270543	MVR	MR150	OK	17.3388	16.3179	-0.0875538	0.097877	0.92203	0.999883
gene1242	gene1242	rnhB	gi 57650036 ref NC_002951.2 :1268907-1270543	MVR	MR150	OK	13.0051	13.7469	0.0800278	-0.072485	0.94222	0.999883
gene1243	gene1243	sucC	gi 57650036 ref NC_002951.2 :1270651-1271818	MVR	MR150	OK	451.232	474.795	0.0734349	-0.076633	0.93892	0.999883
gene1244	gene1244	sucD	gi 57650036 ref NC_002951.2 :1271839-1272748	MVR	MR150	OK	866.883	840.122	-0.0452387	0.046504	0.96291	0.999883
gene1245	gene1245	lytN	gi 57650036 ref NC_002951.2 :1272941-1274093	MVR	MR150	OK	3.33998	2.41297	-0.469031	0.64694	0.51767	0.999883
gene1246	gene1246	eprH	gi 57650036 ref NC_002951.2 :1274120-1275365	MVR	MR150	OK	4.5824	5.27594	0.203325	-0.294966	0.76802	0.999883
gene1247	gene1247	SACOL1266	gi 57650036 ref NC_002951.2 :1275537-1276410	MVR	MR150	OK	4.32472	2.50267	-0.789137	1.05953	0.28936	0.975616
gene1248	gene1248	topA	gi 57650036 ref NC_002951.2 :1276589-1278659	MVR	MR150	OK	60.5177	55.6993	-0.119697	0.14387	0.8856	0.999883
gene1249	gene1249	gid	gi 57650036 ref NC_002951.2 :1278814-1280122	MVR	MR150	OK	81.4672	74.2261	-0.134292	0.166084	0.86809	0.999883
gene125	gene125	SACOL0129	gi 57650036 ref NC_002951.2 :144205-145750	MVR	MR150	OK	2.08089	1.13874	-0.86976	1.15718	0.2472	0.92193
gene1250	gene1250	xerC	gi 57650036 ref NC_002951.2 :1280538-1281977	MVR	MR150	OK	83.8456	76.6704	-0.129066	0.138049	0.8902	0.999883
gene1251	gene1251	hslV	gi 57650036 ref NC_002951.2 :1280538-1281977	MVR	MR150	OK	54.9665	67.6671	0.299903	-0.194835	0.84552	0.999883
gene1252	gene1252	hslU	gi 57650036 ref NC_002951.2 :1282042-1283446	MVR	MR150	OK	94.9141	102.019	0.104146	-0.123934	0.90137	0.999883
gene1253	gene1253	codY	gi 57650036 ref NC_002951.2 :1283470-1284244	MVR	MR150	OK	164.246	138.7	-0.24389	0.301779	0.76282	0.999883
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	MVR	MR150	OK	287.805	279.106	-0.0442814	0.050991	0.95933	0.999883
gene1255	gene1255	SACOL1275	gi 57650036 ref NC_002951.2 :1285395-1285509	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1256	gene1256	tsf	gi 57650036 ref NC_002951.2 :1285543-1286425	MVR	MR150	OK	501.029	509.425	0.0239734	-0.02556	0.97961	0.999883
gene1257	gene1257	pyrH	gi 57650036 ref NC_002951.2 :1286561-1287284	MVR	MR150	OK	52.4909	72.8877	0.473609	-0.651569	0.51468	0.999883
gene1258	gene1258	frr	gi 57650036 ref NC_002951.2 :1287302-1287857	MVR	MR150	OK	75.0129	89.6641	0.257391	-0.358432	0.72002	0.999883
gene1259	gene1259	uppS	gi 57650036 ref NC_002951.2 :1288229-1289000	MVR	MR150	OK	27.0433	34.857	0.366175	-0.529089	0.59674	0.999883
gene126	gene126	SACOL0130	gi 57650036 ref NC_002951.2 :145800-147336	MVR	MR150	OK	8.69271	8.48345	-0.0351534	0.051563	0.95888	0.999883
gene1260	gene1260	cdsA	gi 57650036 ref NC_002951.2 :1289006-1289789	MVR	MR150	OK	41.9435	62.5025	0.575467	-0.797461	0.42518	0.999883
gene1261	gene1261	SACOL1281	gi 57650036 ref NC_002951.2 :1290025-1291312	MVR	MR150	OK	28.9941	28.7422	-0.0125911	0.017371	0.98614	0.999883
gene1262	gene1262	proS	gi 57650036 ref NC_002951.2 :1291331-1293035	MVR	MR150	OK	41.9294	42.2631	0.0114384	-0.014665	0.9883	0.999883
gene1263	gene1263	polC	gi 57650036 ref NC_002951.2 :1293298-1297609	MVR	MR150	OK	24.6459	26.5688	0.108388	-0.130719	0.896	0.999883

gene1264	gene1264	SACOL1284	gi 57650036 ref NC_002951.2 :1297898-1298366	MVR	MR150	OK	37.2266	54.7613	0.556825	-0.814709	0.41524	0.999883
gene1265	gene1265	nusA	gi 57650036 ref NC_002951.2 :1298386-1299562	MVR	MR150	OK	78.2008	83.1626	0.0887517	-0.110983	0.91163	0.999883
gene1266	gene1266	SACOL1286	gi 57650036 ref NC_002951.2 :1299582-1300181	MVR	MR150	OK	42.8213	49.6961	0.214805	-0.166309	0.86791	0.999883
gene1267	gene1267	SACOL1287	gi 57650036 ref NC_002951.2 :1299582-1300181	MVR	MR150	OK	81.1993	98.6395	0.280698	-0.345887	0.72943	0.999883
gene1268	gene1268	infB	gi 57650036 ref NC_002951.2 :1300185-1302303	MVR	MR150	OK	125.133	138.32	0.144545	-0.15863	0.87396	0.999883
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	MVR	MR150	OK	86.7612	104.127	0.263228	-0.38383	0.7011	0.999883
gene127	gene127	SACOL0132	gi 57650036 ref NC_002951.2 :147862-148756	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1270	gene1270	truB	gi 57650036 ref NC_002951.2 :1303207-1304125	MVR	MR150	OK	9.85825	11.5163	0.224268	-0.329312	0.74192	0.999883
gene1271	gene1271	ribF	gi 57650036 ref NC_002951.2 :1304139-1305111	MVR	MR150	OK	60.0406	60.4979	0.0109456	-0.014501	0.98843	0.999883
gene1272	gene1272	rpsO	gi 57650036 ref NC_002951.2 :1305225-1305495	MVR	MR150	OK	2141.74	1739.44	-0.300162	0.347744	0.72803	0.999883
gene1273	gene1273	pnp	gi 57650036 ref NC_002951.2 :1305864-1307961	MVR	MR150	OK	111.359	100.285	-0.151104	0.169677	0.86526	0.999883
gene1274	gene1274	SACOL1294	gi 57650036 ref NC_002951.2 :1308298-1309870	MVR	MR150	OK	193.466	190.559	-0.0218386	0.023872	0.98096	0.999883
gene1275	gene1275	SACOL1295	gi 57650036 ref NC_002951.2 :1310116-1312495	MVR	MR150	OK	28.5263	25.6585	-0.152857	0.197457	0.84347	0.999883
gene1276	gene1276	SACOL1296	gi 57650036 ref NC_002951.2 :1312499-1313213	MVR	MR150	OK	12.4091	12.5094	0.0116205	-0.017	0.98644	0.999883
gene1277	gene1277	SACOL1297	gi 57650036 ref NC_002951.2 :1313243-1316499	MVR	MR150	OK	11.5058	9.91307	-0.214957	0.181506	0.85597	0.999883
gene1278	gene1278	SACOL1298	gi 57650036 ref NC_002951.2 :1313243-1316499	MVR	MR150	OK	11.8837	11.2715	-0.0763167	0.067732	0.946	0.999883
gene1279	gene1279	SACOL1299	gi 57650036 ref NC_002951.2 :1313243-1316499	MVR	MR150	OK	14.3428	12.1259	-0.242235	0.155465	0.87646	0.999883
gene128	gene128	SACOL0134	gi 57650036 ref NC_002951.2 :149516-150001	MVR	MR150	NOTEST	0.44671	0.5366	0.264534	-0.149122	0.88146	1
gene1280	gene1280	SACOL1300	gi 57650036 ref NC_002951.2 :1316603-1317431	MVR	MR150	OK	58.7624	63.1465	0.103809	-0.140381	0.88836	0.999883
gene1281	gene1281	SACOL1301	gi 57650036 ref NC_002951.2 :1317449-1317842	MVR	MR150	OK	42.6545	48.0205	0.170951	-0.251207	0.80165	0.999883
gene1282	gene1282	pgsA	gi 57650036 ref NC_002951.2 :1317875-1318454	MVR	MR150	OK	129.717	133.665	0.0432508	-0.056997	0.95455	0.999883
gene1283	gene1283	SACOL1303	gi 57650036 ref NC_002951.2 :1318680-1319832	MVR	MR150	OK	45.8145	47.1334	0.0409446	-0.054503	0.95653	0.999883
gene1284	gene1284	recA	gi 57650036 ref NC_002951.2 :1319996-1321040	MVR	MR150	OK	439.234	514.564	0.228361	-0.240323	0.81008	0.999883
gene1285	gene1285	SACOL1305	gi 57650036 ref NC_002951.2 :1321393-1322953	MVR	MR150	OK	476.648	409.482	-0.219124	0.225311	0.82174	0.999883
gene1286	gene1286	SACOL1306	gi 57650036 ref NC_002951.2 :1323249-1323465	MVR	MR150	OK	2621.91	3263.38	0.315749	-0.377761	0.70561	0.999883
gene1287	gene1287	SACOL1307	gi 57650036 ref NC_002951.2 :1323638-1324436	MVR	MR150	OK	90.0488	95.5	0.0847946	-0.110424	0.91207	0.999883
gene1288	gene1288	SACOL1308	gi 57650036 ref NC_002951.2 :1324575-1326336	MVR	MR150	OK	29.6817	40.8184	0.459647	-0.598489	0.54951	0.999883
gene1289	gene1289	SACOL1309	gi 57650036 ref NC_002951.2 :1326336-1327203	MVR	MR150	OK	52.3807	66.1136	0.335912	-0.452957	0.65058	0.999883
gene129	gene129	SACOL0135	gi 57650036 ref NC_002951.2 :150450-153060	MVR	MR150	OK	1.81408	0.9534	-0.92808	1.29594	0.195	0.856906
gene1290	gene1290	SACOL1310	gi 57650036 ref NC_002951.2 :1327296-1327590	MVR	MR150	OK	5.27671	1.48471	-1.82945	1.33411	0.18217	0.830192
gene1291	gene1291	miaB	gi 57650036 ref NC_002951.2 :1327723-1329268	MVR	MR150	OK	39.6698	38.1479	-0.0564368	0.07386	0.94112	0.999883
gene1292	gene1292	SACOL1313	gi 57650036 ref NC_002951.2 :1329268-1329634	MVR	MR150	OK	52.5351	69.9458	0.412956	-0.606061	0.54447	0.999883
gene1293	gene1293	SACOL1314	gi 57650036 ref NC_002951.2 :1329660-1330152	MVR	MR150	OK	56.1411	65.4749	0.221886	-0.32088	0.7483	0.999883

gene1294	gene1294	hexA	gi 57650036 ref NC_002951.2 :1330454-1333073	MVR	MR150	OK	17.9505	15.1977	-0.240173	0.322834	0.74682	0.999883
gene1295	gene1295	mutL	gi 57650036 ref NC_002951.2 :1333085-1335095	MVR	MR150	OK	17.2259	21.0717	0.290728	-0.396901	0.69144	0.999883
gene1296	gene1296	glpP	gi 57650036 ref NC_002951.2 :1335100-1335643	MVR	MR150	OK	15.1976	16.5068	0.119216	-0.173212	0.86248	0.999883
gene1297	gene1297	glpF	gi 57650036 ref NC_002951.2 :1336107-1336926	MVR	MR150	OK	170.108	151.626	-0.16593	0.20189	0.84	0.999883
gene1298	gene1298	glpK	gi 57650036 ref NC_002951.2 :1337054-1338551	MVR	MR150	OK	37.6276	28.4591	-0.402904	0.538487	0.59024	0.999883
gene1299	gene1299	glpD	gi 57650036 ref NC_002951.2 :1338708-1340382	MVR	MR150	OK	85.2707	91.7534	0.105712	-0.124374	0.90102	0.999883
gene13	gene13	SACOL0014	gi 57650036 ref NC_002951.2 :18344-20755	MVR	MR150	OK	104.1	112.713	0.114675	-0.117704	0.9063	0.999883
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	MVR	MR150	OK	3.6785	2.61118	-0.494414	0.624212	0.53249	0.999883
gene1300	gene1300	SACOL1322	gi 57650036 ref NC_002951.2 :1340531-1341446	MVR	MR150	OK	9.13941	11.3504	0.312568	-0.458462	0.64662	0.999883
gene1301	gene1301	miaA	gi 57650036 ref NC_002951.2 :1341463-1342399	MVR	MR150	OK	21.7642	19.3487	-0.169721	0.246971	0.80493	0.999883
gene1302	gene1302	SACOL1324	gi 57650036 ref NC_002951.2 :1342413-1342647	MVR	MR150	OK	39.0355	44.717	0.196037	-0.262888	0.79264	0.999883
gene1303	gene1303	gpxA1	gi 57650036 ref NC_002951.2 :1342868-1343345	MVR	MR150	OK	109.161	126.963	0.217951	-0.300361	0.7639	0.999883
gene1304	gene1304	SACOL1326	gi 57650036 ref NC_002951.2 :1343456-1344695	MVR	MR150	OK	14.6927	15.6244	0.0886986	-0.128832	0.89749	0.999883
gene1305	gene1305	SACOL1327	gi 57650036 ref NC_002951.2 :1344713-1345952	MVR	MR150	OK	20.2241	23.8788	0.239654	-0.340483	0.73349	0.999883
gene1306	gene1306	glnR	gi 57650036 ref NC_002951.2 :1346194-1346563	MVR	MR150	OK	295.223	242.071	-0.286379	0.381844	0.70258	0.999883
gene1307	gene1307	femC	gi 57650036 ref NC_002951.2 :1346581-1347922	MVR	MR150	OK	280.536	207.515	-0.434965	0.473477	0.63587	0.999883
gene1308	gene1308	SACOL1331	gi 57650036 ref NC_002951.2 :1348414-1348612	MVR	MR150	OK	0	5.22482	1.79769e+30	1.79769e+30	0.10824	0.653986
gene1309	gene1309	SACOL1332	gi 57650036 ref NC_002951.2 :1349300-1349525	MVR	MR150	NOTEST	0	0	0	0	1	1
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	MVR	MR150	OK	1.51526	0.94303	-0.684187	0.704622	0.48105	0.999883
gene1310	gene1310	SACOL1333	gi 57650036 ref NC_002951.2 :1349818-1350025	MVR	MR150	OK	3.90755	4.33328	0.149193	-0.084102	0.93298	0.999883
gene1311	gene1311	SACOL1334	gi 57650036 ref NC_002951.2 :1350725-1350836	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1312	gene1312	SACOL1335	gi 57650036 ref NC_002951.2 :1351263-1351449	MVR	MR150	OK	3.09916	0	-1.79769e+30	-1.79769e+30	0.22252	0.89416
gene1313	gene1313	SACOL1336	gi 57650036 ref NC_002951.2 :1351960-1352065	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1314	gene1314	SACOL1337	gi 57650036 ref NC_002951.2 :1352097-1352193	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1315	gene1315	SACOL1338	gi 57650036 ref NC_002951.2 :1352193-1352445	MVR	MR150	OK	5.00566	4.45979	-0.166584	0.141041	0.88784	0.999883
gene1316	gene1316	SACOL1339	gi 57650036 ref NC_002951.2 :1352649-1353075	MVR	MR150	OK	0.57315	4.05069	2.82117	-1.92184	0.05463	0.462964
gene1317	gene1317	SACOL1340	gi 57650036 ref NC_002951.2 :1353195-1353444	MVR	MR150	OK	13.4858	23.09	0.775829	-0.921775	0.35665	0.999883
gene1318	gene1318	SACOL1341	gi 57650036 ref NC_002951.2 :1353573-1353675	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1319	gene1319	SACOL1342	gi 57650036 ref NC_002951.2 :1353720-1353987	MVR	MR150	NOTEST	0.84903	0	-1.79769e+30	-1.79769e+30	0.22252	1
gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	MVR	MR150	OK	2.05344	1.08391	-0.921801	1.03647	0.29998	0.982854
gene1320	gene1320	SACOL1344	gi 57650036 ref NC_002951.2 :1354323-1354458	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1321	gene1321	SACOL1345	gi 57650036 ref NC_002951.2 :1354548-1354839	MVR	MR150	OK	16.2433	13.7019	-0.245463	0.309453	0.75698	0.999883
gene1322	gene1322	SACOL1346	gi 57650036 ref NC_002951.2 :1354849-1355044	MVR	MR150	OK	25.0546	27.9654	0.158567	-0.170752	0.86442	0.999883

gene1323	gene1323	SACOL1347	gi 57650036 ref NC_002951.2 :1355093-1355435	MVR	MR150	OK	6.44294	3.14579	-1.0343	1.08206	0.27923	0.965481
gene1324	gene1324	SACOL1348	gi 57650036 ref NC_002951.2 :1355441-1355633	MVR	MR150	OK	2.68265	0	-1.79769e+3(-1.79769e+	0.22252	0.89416	
gene1325	gene1325	SACOL1349	gi 57650036 ref NC_002951.2 :1356181-1357207	MVR	MR150	OK	2.62497	1.48314	-0.823649	1.05748	0.29029	0.975616
gene1326	gene1326	SACOL1350	gi 57650036 ref NC_002951.2 :1357476-1357674	MVR	MR150	OK	65.6898	83.5971	0.347784	-0.462639	0.64362	0.999883
gene1327	gene1327	cls1	gi 57650036 ref NC_002951.2 :1357731-1359213	MVR	MR150	OK	33.706	33.5707	-0.0058036	0.007743	0.99382	0.999883
gene1328	gene1328	SACOL1352	gi 57650036 ref NC_002951.2 :1359387-1360996	MVR	MR150	OK	2.81705	3.23954	0.201606	-0.198236	0.84286	0.999883
gene1329	gene1329	SACOL1353	gi 57650036 ref NC_002951.2 :1359387-1360996	MVR	MR150	OK	4.83388	4.3166	-0.163288	0.170494	0.86462	0.999883
gene133	gene133	cap5D	gi 57650036 ref NC_002951.2 :155561-158403	MVR	MR150	OK	1.75466	1.60336	-0.130085	0.149752	0.88096	0.999883
gene1330	gene1330	SACOL1354	gi 57650036 ref NC_002951.2 :1360999-1362690	MVR	MR150	OK	13.0704	10.1292	-0.367791	0.366137	0.71426	0.999883
gene1331	gene1331	SACOL1355	gi 57650036 ref NC_002951.2 :1360999-1362690	MVR	MR150	OK	25.1377	28.8649	0.199463	-0.20258	0.83946	0.999883
gene1332	gene1332	SACOL1356	gi 57650036 ref NC_002951.2 :1362962-1363070	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1333	gene1333	SACOL1357	gi 57650036 ref NC_002951.2 :1363129-1363663	MVR	MR150	OK	12.0566	14.66	0.282056	-0.40511	0.6854	0.999883
gene1334	gene1334	SACOL1358	gi 57650036 ref NC_002951.2 :1363805-1364660	MVR	MR150	OK	56.6198	55.6359	-0.0252885	0.03434	0.97261	0.999883
gene1335	gene1335	SACOL1359	gi 57650036 ref NC_002951.2 :1364975-1365566	MVR	MR150	OK	175.652	229.386	0.38506	-0.482432	0.6295	0.999883
gene1336	gene1336	SACOL1360	gi 57650036 ref NC_002951.2 :1365619-1367002	MVR	MR150	OK	46.2226	48.5488	0.0708364	-0.092054	0.92666	0.999883
gene1337	gene1337	SACOL1361	gi 57650036 ref NC_002951.2 :1367007-1367115	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1338	gene1338	hom	gi 57650036 ref NC_002951.2 :1367192-1368473	MVR	MR150	OK	211.525	238.864	0.175361	-0.193252	0.84676	0.999883
gene1339	gene1339	thrC	gi 57650036 ref NC_002951.2 :1368478-1369540	MVR	MR150	OK	328.615	339.673	0.0477463	-0.051769	0.95871	0.999883
gene134	gene134	cap5E	gi 57650036 ref NC_002951.2 :155561-158403	MVR	MR150	OK	2.17933	1.47777	-0.560458	0.472664	0.63645	0.999883
gene1340	gene1340	thrB	gi 57650036 ref NC_002951.2 :1369541-1370456	MVR	MR150	OK	195.059	207.091	0.0863561	-0.100584	0.91988	0.999883
gene1341	gene1341	SACOL1365	gi 57650036 ref NC_002951.2 :1370513-1371317	MVR	MR150	OK	328.949	333.847	0.0213228	-0.023981	0.98087	0.999883
gene1342	gene1342	SACOL1366	gi 57650036 ref NC_002951.2 :1371609-1371924	MVR	MR150	OK	126.522	138.616	0.131699	-0.191516	0.84812	0.999883
gene1343	gene1343	SACOL1367	gi 57650036 ref NC_002951.2 :1372141-1373596	MVR	MR150	OK	27.7937	38.5641	0.472501	-0.633638	0.52632	0.999883
gene1344	gene1344	kataA	gi 57650036 ref NC_002951.2 :1373895-1375317	MVR	MR150	OK	469.834	537.176	0.193245	-0.198578	0.84259	0.999883
gene1345	gene1345	rpmG	gi 57650036 ref NC_002951.2 :1375407-1375557	MVR	MR150	OK	429.349	694.511	0.693847	-0.967482	0.3333	0.999883
gene1346	gene1346	rpsN	gi 57650036 ref NC_002951.2 :1376010-1376280	MVR	MR150	OK	13.9983	16.5837	0.244508	-0.297882	0.76579	0.999883
gene1347	gene1347	guaC	gi 57650036 ref NC_002951.2 :1376436-1377515	MVR	MR150	OK	20.8626	6.69204	-1.6404	2.36693	0.01794	0.242627
gene1348	gene1348	SACOL1372	gi 57650036 ref NC_002951.2 :1376436-1377515	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1349	gene1349	SACOL1373	gi 57650036 ref NC_002951.2 :1377588-1378452	MVR	MR150	OK	22.3844	17.9866	-0.315567	0.461107	0.64472	0.999883
gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	MVR	MR150	OK	2.83821	1.51458	-0.90607	1.18858	0.23461	0.903063
gene1350	gene1350	lexA	gi 57650036 ref NC_002951.2 :1378831-1379455	MVR	MR150	OK	607.783	657.396	0.113208	-0.123776	0.90149	0.999883
gene1351	gene1351	SACOL1375	gi 57650036 ref NC_002951.2 :1379597-1379831	MVR	MR150	OK	180.067	363.326	1.01273	-1.47064	0.14139	0.739856
gene1352	gene1352	SACOL1376	gi 57650036 ref NC_002951.2 :1379966-1380206	MVR	MR150	OK	46.4522	77.4024	0.736632	-1.03152	0.3023	0.987655

gene1353	gene1353	tkt	gi 57650036 ref NC_002951.2 :1380326-1382315	MVR	MR150	OK	237.769	244.527	0.0404337	-0.042286	0.96627	0.999883
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	MVR	MR150	OK	463.645	484.291	0.0628525	-0.087914	0.92995	0.999883
gene1355	gene1355	SACOL1379	gi 57650036 ref NC_002951.2 :1382592-1382920	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1356	gene1356	SACOL1380	gi 57650036 ref NC_002951.2 :1383013-1383481	MVR	MR150	OK	44.3855	44.4936	0.003508	-0.005145	0.9959	0.999883
gene1357	gene1357	sbcd	gi 57650036 ref NC_002951.2 :1383604-1384726	MVR	MR150	OK	7.35893	8.96923	0.285489	-0.419029	0.6752	0.999883
gene1358	gene1358	sbcc	gi 57650036 ref NC_002951.2 :1384729-1387759	MVR	MR150	OK	10.9231	10.9881	0.00855655	-0.011811	0.99058	0.999883
gene1359	gene1359	mssl	gi 57650036 ref NC_002951.2 :1387829-1388192	MVR	MR150	OK	672.616	671.75	-0.0018574	0.002241	0.99821	0.999883
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	MVR	MR150	OK	2.9857	2.15226	-0.472216	0.640785	0.52166	0.999883
gene1360	gene1360	opuD1	gi 57650036 ref NC_002951.2 :1388395-1390042	MVR	MR150	OK	207.891	232.869	0.163691	-0.175684	0.86054	0.999883
gene1361	gene1361	acnA	gi 57650036 ref NC_002951.2 :1390933-1393639	MVR	MR150	OK	220.559	283.073	0.36001	-0.369798	0.71153	0.999883
gene1362	gene1362	SACOL1386	gi 57650036 ref NC_002951.2 :1393818-1394286	MVR	MR150	OK	75.8849	77.0081	0.0211972	-0.030432	0.97572	0.999883
gene1363	gene1363	SACOL1387	gi 57650036 ref NC_002951.2 :1394492-1394789	MVR	MR150	OK	78.4592	59.3894	-0.401737	0.588713	0.55605	0.999883
gene1364	gene1364	SACOL1388	gi 57650036 ref NC_002951.2 :1395164-1395773	MVR	MR150	OK	208.298	194.228	-0.100894	0.125764	0.89992	0.999883
gene1365	gene1365	parE	gi 57650036 ref NC_002951.2 :1395972-1400372	MVR	MR150	OK	54.7638	49.3251	-0.150902	0.110418	0.91208	0.999883
gene1366	gene1366	parC	gi 57650036 ref NC_002951.2 :1395972-1400372	MVR	MR150	OK	54.5452	56.9463	0.0621481	-0.052165	0.9584	0.999883
gene1367	gene1367	SACOL1392	gi 57650036 ref NC_002951.2 :1400621-1402097	MVR	MR150	OK	68.5759	75.3791	0.136462	-0.167454	0.86701	0.999883
gene1368	gene1368	SACOL1393	gi 57650036 ref NC_002951.2 :1402581-1404776	MVR	MR150	OK	22.6257	28.1807	0.316747	-0.155784	0.8762	0.999883
gene1369	gene1369	SACOL1394	gi 57650036 ref NC_002951.2 :1402581-1404776	MVR	MR150	OK	62.3313	108.032	0.793425	-0.094774	0.92449	0.999883
gene137	gene137	cap5H	gi 57650036 ref NC_002951.2 :160655-161282	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1370	gene1370	SACOL1395	gi 57650036 ref NC_002951.2 :1402581-1404776	MVR	MR150	OK	78.3128	84.9972	0.118167	-0.130413	0.89624	0.999883
gene1371	gene1371	fmtC	gi 57650036 ref NC_002951.2 :1405256-1407779	MVR	MR150	OK	223.026	262.31	0.234062	-0.241298	0.80933	0.999883
gene1372	gene1372	msrA	gi 57650036 ref NC_002951.2 :1407981-1408491	MVR	MR150	OK	25.9151	24.1811	-0.0999169	0.14676	0.88332	0.999883
gene1373	gene1373	SACOL1398	gi 57650036 ref NC_002951.2 :1408627-1409611	MVR	MR150	OK	28.777	22.0711	-0.382762	0.549352	0.58276	0.999883
gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	MVR	MR150	OK	142.561	314.174	1.13998	-1.62178	0.10485	0.650217
gene1375	gene1375	SACOL1400	gi 57650036 ref NC_002951.2 :1410031-1411294	MVR	MR150	OK	46.1561	80.825	0.808281	-1.0307	0.30268	0.987655
gene1376	gene1376	tyrA	gi 57650036 ref NC_002951.2 :1411430-1412522	MVR	MR150	OK	46.9592	68.844	0.551922	-0.724161	0.46897	0.999883
gene1377	gene1377	SACOL1402	gi 57650036 ref NC_002951.2 :1412686-1413718	MVR	MR150	OK	61.9527	66.2601	0.0969747	-0.126731	0.89915	0.999883
gene1378	gene1378	trpE	gi 57650036 ref NC_002951.2 :1414209-1416179	MVR	MR150	OK	1.33482	0.76134	-0.810035	0.911284	0.36215	0.999883
gene1379	gene1379	trpG	gi 57650036 ref NC_002951.2 :1414209-1416179	MVR	MR150	NOTEST	0.85177	0.83401	-0.0303913	0.01674	0.98664	1
gene138	gene138	cap5I	gi 57650036 ref NC_002951.2 :161286-162396	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1380	gene1380	trpD	gi 57650036 ref NC_002951.2 :1416184-1417183	MVR	MR150	OK	0.98092	1.14992	0.229334	-0.260581	0.79442	0.999883
gene1381	gene1381	trpC	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	MR150	OK	2.19654	0.52523	-2.06421	0.992087	0.32116	0.999883
gene1382	gene1382	trpF	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	MR150	OK	1.84452	1.75541	-0.0714421	0.039913	0.96816	0.999883

gene1383	gene1383	trpB	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	MR150	OK	1.71139	1.05619	-0.696304	0.524105	0.60021	0.999883
gene1384	gene1384	trpA	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	MR150	OK	5.20991	3.18344	-0.71067	0.670837	0.50233	0.999883
gene1385	gene1385	femA	gi 57650036 ref NC_002951.2 :1420809-1422111	MVR	MR150	OK	95.4835	98.534	0.0453697	-0.054664	0.95641	0.999883
gene1386	gene1386	SACOL1411	gi 57650036 ref NC_002951.2 :1422129-1423389	MVR	MR150	OK	182.731	167.453	-0.125967	0.142665	0.88656	0.999883
gene1387	gene1387	SACOL1412	gi 57650036 ref NC_002951.2 :1424071-1424839	MVR	MR150	OK	6.87871	5.66047	-0.281217	0.39802	0.69062	0.999883
gene1388	gene1388	SACOL1413	gi 57650036 ref NC_002951.2 :1424886-1425360	MVR	MR150	OK	63.8453	75.8909	0.249346	-0.359146	0.71949	0.999883
gene1389	gene1389	SACOL1414	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	MR150	OK	10.1519	7.01403	-0.533429	0.519323	0.60354	0.999883
gene139	gene139	cap5J	gi 57650036 ref NC_002951.2 :162409-164774	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1390	gene1390	SACOL1415	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	MR150	OK	2.33877	2.13384	-0.132299	0.071032	0.94337	0.999883
gene1391	gene1391	SACOL1416	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	MR150	OK	2.98622	2.4265	-0.299441	0.185209	0.85307	0.999883
gene1392	gene1392	SACOL1417	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	MR150	OK	2.52917	3.30778	0.387196	-0.27547	0.78296	0.999883
gene1393	gene1393	SACOL1418	gi 57650036 ref NC_002951.2 :1429050-1429395	MVR	MR150	OK	23.9096	26.7537	0.162147	-0.229613	0.81839	0.999883
gene1394	gene1394	SACOL1419	gi 57650036 ref NC_002951.2 :1429599-1431414	MVR	MR150	OK	37.9385	46.5669	0.295645	-0.37586	0.70702	0.999883
gene1395	gene1395	SACOL1420	gi 57650036 ref NC_002951.2 :1431553-1432195	MVR	MR150	OK	4.33542	6.92639	0.675933	-0.916511	0.3594	0.999883
gene1396	gene1396	SACOL1421	gi 57650036 ref NC_002951.2 :1432201-1433053	MVR	MR150	OK	4.09683	5.16647	0.334669	-0.466425	0.64091	0.999883
gene1397	gene1397	SACOL1422	gi 57650036 ref NC_002951.2 :1433099-1434017	MVR	MR150	OK	3.79163	4.47854	0.240209	-0.334531	0.73798	0.999883
gene1398	gene1398	SACOL1423	gi 57650036 ref NC_002951.2 :1434018-1434945	MVR	MR150	OK	2.91131	3.58063	0.298545	-0.405194	0.68534	0.999883
gene1399	gene1399	SACOL1424	gi 57650036 ref NC_002951.2 :1435135-1436119	MVR	MR150	OK	12.6188	16.2115	0.361441	-0.530056	0.59607	0.999883
gene14	gene14	rplI	gi 57650036 ref NC_002951.2 :18344-20755	MVR	MR150	OK	88.8435	93.3919	0.0720321	-0.025605	0.97957	0.999883
gene140	gene140	cap5K	gi 57650036 ref NC_002951.2 :162409-164774	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1400	gene1400	SACOL1425	gi 57650036 ref NC_002951.2 :1436658-1436955	MVR	MR150	NOTEST	0.64311	0	-1.79769e+3(-1.79769e+	0.22252	1	
gene1401	gene1401	SACOL1426	gi 57650036 ref NC_002951.2 :1437090-1437993	MVR	MR150	OK	163.11	180.348	0.144943	-0.172271	0.86323	0.999883
gene1402	gene1402	SACOL1427	gi 57650036 ref NC_002951.2 :1438139-1439741	MVR	MR150	OK	29.9225	28.2947	-0.080701	0.10828	0.91377	0.999883
gene1403	gene1403	lysC	gi 57650036 ref NC_002951.2 :1440600-1441806	MVR	MR150	OK	8.5758	8.37282	-0.0345573	0.050815	0.95947	0.999883
gene1404	gene1404	asd	gi 57650036 ref NC_002951.2 :1441869-1442859	MVR	MR150	OK	38.7815	36.6351	-0.0821417	0.113983	0.90925	0.999883
gene1405	gene1405	dapA	gi 57650036 ref NC_002951.2 :1442860-1444467	MVR	MR150	OK	35.93	36.9446	0.0401747	-0.04021	0.96793	0.999883
gene1406	gene1406	dapB	gi 57650036 ref NC_002951.2 :1442860-1444467	MVR	MR150	OK	33.5098	40.6883	0.280032	-0.245413	0.80614	0.999883
gene1407	gene1407	dapD	gi 57650036 ref NC_002951.2 :1444493-1445213	MVR	MR150	OK	80.0374	61.8259	-0.372462	0.506236	0.61269	0.999883
gene1408	gene1408	SACOL1433	gi 57650036 ref NC_002951.2 :1445355-1446507	MVR	MR150	OK	21.6784	29.2774	0.433529	-0.612891	0.53995	0.999883
gene1409	gene1409	SACOL1434	gi 57650036 ref NC_002951.2 :1446511-1448852	MVR	MR150	OK	11.7367	18.3213	0.642499	-0.390298	0.69632	0.999883
gene141	gene141	cap5L	gi 57650036 ref NC_002951.2 :164774-165980	MVR	MR150	OK	2.67994	0.9134	-1.55288	1.95105	0.05105	0.444597
gene1410	gene1410	lysA	gi 57650036 ref NC_002951.2 :1446511-1448852	MVR	MR150	OK	44.0027	39.2213	-0.165954	0.188257	0.85068	0.999883
gene1411	gene1411	SACOL1436	gi 57650036 ref NC_002951.2 :1449091-1449493	MVR	MR150	NOTEST	0	0	0	0	1	1

gene1412	gene1412	SACOL1437	gi 57650036 ref NC_002951.2 :1449689-1449890	MVR	MR150	OK	3893.23	3847.5	-0.0170453	0.020405	0.98372	0.999883
gene1413	gene1413	SACOL1438	gi 57650036 ref NC_002951.2 :1450060-1450369	MVR	MR150	OK	66.5397	57.9846	-0.198546	0.291011	0.77104	0.999883
gene1414	gene1414	SACOL1439	gi 57650036 ref NC_002951.2 :1450531-1450801	MVR	MR150	OK	194.33	270.866	0.479075	-0.689913	0.49025	0.999883
gene1415	gene1415	SACOL1440	gi 57650036 ref NC_002951.2 :1450819-1451449	MVR	MR150	OK	83.9405	105.369	0.328009	-0.441401	0.65892	0.999883
gene1416	gene1416	SACOL1441	gi 57650036 ref NC_002951.2 :1451480-1452617	MVR	MR150	OK	126.506	169.813	0.424743	-0.497087	0.61913	0.999883
gene1417	gene1417	SACOL1442	gi 57650036 ref NC_002951.2 :1452884-1453277	MVR	MR150	OK	1.01558	0	-1.79769e+3(-1.79769e+0.09295		0.611738	
gene1418	gene1418	brnQ3	gi 57650036 ref NC_002951.2 :1453629-1454973	MVR	MR150	OK	8.6682	11.1117	0.358271	-0.525383	0.59932	0.999883
gene1419	gene1419	SACOL1444	gi 57650036 ref NC_002951.2 :1455197-1457084	MVR	MR150	OK	6.99897	7.35433	0.0714507	-0.104672	0.91664	0.999883
gene142	gene142	cap5M	gi 57650036 ref NC_002951.2 :165990-167435	MVR	MR150	OK	2.274	1.70988	-0.411335	0.273978	0.7841	0.999883
gene1420	gene1420	SACOL1445	gi 57650036 ref NC_002951.2 :1457097-1457889	MVR	MR150	OK	12.5588	9.82777	-0.353758	0.517752	0.60463	0.999883
gene1421	gene1421	SACOL1446	gi 57650036 ref NC_002951.2 :1458069-1458273	MVR	MR150	OK	111.871	151.769	0.440045	-0.627954	0.53003	0.999883
gene1422	gene1422	SACOL1447	gi 57650036 ref NC_002951.2 :1458301-1459111	MVR	MR150	OK	119.337	171.934	0.526814	-0.65063	0.51529	0.999883
gene1423	gene1423	sucB	gi 57650036 ref NC_002951.2 :1459690-1460959	MVR	MR150	OK	230.071	255.441	0.150909	-0.16526	0.86874	0.999883
gene1424	gene1424	sucA	gi 57650036 ref NC_002951.2 :1460972-1463771	MVR	MR150	OK	197.783	227.68	0.203088	-0.209496	0.83406	0.999883
gene1425	gene1425	arlS	gi 57650036 ref NC_002951.2 :1464054-1466066	MVR	MR150	OK	9.04131	8.08166	-0.161881	0.178813	0.85808	0.999883
gene1426	gene1426	arlR	gi 57650036 ref NC_002951.2 :1464054-1466066	MVR	MR150	OK	13.2744	17.6373	0.409986	-0.378535	0.70503	0.999883
gene1427	gene1427	SACOL1452	gi 57650036 ref NC_002951.2 :1466853-1467468	MVR	MR150	OK	30.796	35.7765	0.216272	-0.315769	0.75218	0.999883
gene1428	gene1428	murG	gi 57650036 ref NC_002951.2 :1467484-1468555	MVR	MR150	OK	20.5058	17.2302	-0.251096	0.364095	0.71579	0.999883
gene1429	gene1429	SACOL1454	gi 57650036 ref NC_002951.2 :1468566-1469077	MVR	MR150	OK	8.33744	7.37864	-0.176249	0.239913	0.8104	0.999883
gene143	gene143	cap5N	gi 57650036 ref NC_002951.2 :165990-167435	MVR	MR150	OK	4.22706	2.44814	-0.78797	0.947233	0.34352	0.999883
gene1430	gene1430	SACOL1455	gi 57650036 ref NC_002951.2 :1469476-1470967	MVR	MR150	OK	33.1435	37.9636	0.195888	-0.259785	0.79503	0.999883
gene1431	gene1431	SACOL1456	gi 57650036 ref NC_002951.2 :1471158-1471880	MVR	MR150	OK	212.143	236.752	0.158343	-0.109507	0.9128	0.999883
gene1432	gene1432	SACOL1457	gi 57650036 ref NC_002951.2 :1471158-1471880	MVR	MR150	OK	87.616	99.0984	0.177667	-0.207267	0.8358	0.999883
gene1433	gene1433	SACOL1459	gi 57650036 ref NC_002951.2 :1471891-1473771	MVR	MR150	OK	86.1333	101.858	0.241911	-0.250113	0.8025	0.999883
gene1434	gene1434	SACOL1460	gi 57650036 ref NC_002951.2 :1471891-1473771	MVR	MR150	OK	39.1082	50.9581	0.38184	-0.232994	0.81577	0.999883
gene1435	gene1435	folA	gi 57650036 ref NC_002951.2 :1473785-1474265	MVR	MR150	OK	48.033	50.7905	0.080531	-0.117638	0.90636	0.999883
gene1436	gene1436	thyA	gi 57650036 ref NC_002951.2 :1474464-1475421	MVR	MR150	OK	20.1836	28.1172	0.478269	-0.689426	0.49056	0.999883
gene1437	gene1437	SACOL1464	gi 57650036 ref NC_002951.2 :1475844-1476282	MVR	MR150	OK	122.282	100.088	-0.288946	0.406955	0.68404	0.999883
gene1438	gene1438	SACOL1465	gi 57650036 ref NC_002951.2 :1476297-1477422	MVR	MR150	OK	60.6875	68.0445	0.165078	-0.213201	0.83117	0.999883
gene1439	gene1439	SACOL1466	gi 57650036 ref NC_002951.2 :1477459-1477711	MVR	MR150	OK	50.0566	55.7474	0.155344	-0.219059	0.8266	0.999883
gene144	gene144	cap5O	gi 57650036 ref NC_002951.2 :167488-168751	MVR	MR150	OK	3.88386	3.02553	-0.360303	0.511309	0.60913	0.999883
gene1440	gene1440	SACOL1467	gi 57650036 ref NC_002951.2 :1477722-1477917	MVR	MR150	OK	25.0546	22.3723	-0.163361	0.171373	0.86393	0.999883
gene1441	gene1441	SACOL1468	gi 57650036 ref NC_002951.2 :1478161-1478866	MVR	MR150	OK	4.98352	7.27554	0.54589	-0.760219	0.44712	0.999883

gene1442	gene1442	SACOL1469	gi 57650036 ref NC_002951.2 :1478930-1479062	MVR	MR150	OK	217.965	0	-1.79769e+31	-1.79769e+0.02679	0.309278	
gene1443	gene1443	SACOL1471	gi 57650036 ref NC_002951.2 :1479406-1479808	MVR	MR150	OK	3.87325	3.76651	-0.0403152	0.04446	0.96454	0.999883
gene1444	gene1444	ebh	gi 57650036 ref NC_002951.2 :1479866-1511363	MVR	MR150	OK	2.35691	1.93357	-0.285628	0.363527	0.71621	0.999883
gene1445	gene1445	SACOL1475	gi 57650036 ref NC_002951.2 :1511760-1513152	MVR	MR150	OK	2.70392	2.18426	-0.307905	0.42822	0.66849	0.999883
gene1446	gene1446	SACOL1476	gi 57650036 ref NC_002951.2 :1513308-1514631	MVR	MR150	OK	4.15082	2.31843	-0.840249	1.18401	0.23641	0.90647
gene1447	gene1447	ilvA1	gi 57650036 ref NC_002951.2 :1514661-1515702	MVR	MR150	OK	2.93468	1.82087	-0.688575	0.909707	0.36298	0.999883
gene1448	gene1448	ald1	gi 57650036 ref NC_002951.2 :1515796-1516915	MVR	MR150	OK	2.679	1.66639	-0.68497	0.904944	0.3655	0.999883
gene1449	gene1449	SACOL1479	gi 57650036 ref NC_002951.2 :1517389-1518268	MVR	MR150	OK	54.4567	52.092	-0.0640494	0.08712	0.93058	0.999883
gene145	gene145	cap5P	gi 57650036 ref NC_002951.2 :168797-169973	MVR	MR150	OK	8.60025	6.90407	-0.316932	0.465276	0.64173	0.999883
gene1450	gene1450	SACOL1480	gi 57650036 ref NC_002951.2 :1518287-1521728	MVR	MR150	OK	36.4016	35.0234	-0.0556825	0.066399	0.94706	0.999883
gene1451	gene1451	SACOL1481	gi 57650036 ref NC_002951.2 :1522031-1523372	MVR	MR150	OK	2.46084	1.87918	-0.389045	0.531172	0.5953	0.999883
gene1452	gene1452	SACOL1482	gi 57650036 ref NC_002951.2 :1523577-1523910	MVR	MR150	OK	17.6157	21.1213	0.261837	-0.358053	0.7203	0.999883
gene1453	gene1453	SACOL1483	gi 57650036 ref NC_002951.2 :1523993-1525139	MVR	MR150	OK	13.5737	13.4364	-0.0146658	0.021459	0.98288	0.999883
gene1454	gene1454	SACOL1484	gi 57650036 ref NC_002951.2 :1525789-1526134	MVR	MR150	OK	124.51	147.145	0.240975	-0.346381	0.72906	0.999883
gene1455	gene1455	SACOL1485	gi 57650036 ref NC_002951.2 :1526147-1527054	MVR	MR150	OK	75.614	81.9852	0.116709	-0.126595	0.89926	0.999883
gene1456	gene1456	SACOL1486	gi 57650036 ref NC_002951.2 :1526147-1527054	MVR	MR150	OK	106.716	92.2271	-0.210517	0.163942	0.86978	0.999883
gene1457	gene1457	SACOL1488	gi 57650036 ref NC_002951.2 :1527487-1530400	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1458	gene1458	recU	gi 57650036 ref NC_002951.2 :1527487-1530400	MVR	MR150	OK	72.3802	84.6	0.225062	-0.062827	0.9499	0.999883
gene1459	gene1459	pbp2	gi 57650036 ref NC_002951.2 :1527487-1530400	MVR	MR150	OK	206.954	218.413	0.0777473	-0.078051	0.93779	0.999883
gene146	gene146	SACOL0152	gi 57650036 ref NC_002951.2 :170037-170364	MVR	MR150	OK	27.0518	13.8904	-0.961639	1.30593	0.19158	0.851905
gene1460	gene1460	SACOL1491	gi 57650036 ref NC_002951.2 :1530965-1531307	MVR	MR150	OK	32.6749	44.041	0.430664	-0.624117	0.53255	0.999883
gene1461	gene1461	nth	gi 57650036 ref NC_002951.2 :1531311-1532647	MVR	MR150	OK	31.2417	35.6073	0.188703	-0.186828	0.8518	0.999883
gene1462	gene1462	SACOL1493	gi 57650036 ref NC_002951.2 :1531311-1532647	MVR	MR150	OK	28.9162	31.7487	0.13482	-0.130982	0.89579	0.999883
gene1463	gene1463	asnC	gi 57650036 ref NC_002951.2 :1532974-1534267	MVR	MR150	OK	89.0109	93.6001	0.0725279	-0.088118	0.92978	0.999883
gene1464	gene1464	SACOL1495	gi 57650036 ref NC_002951.2 :1534588-1537282	MVR	MR150	OK	26.1438	32.4296	0.310843	-0.391973	0.69508	0.999883
gene1465	gene1465	birA	gi 57650036 ref NC_002951.2 :1537305-1539466	MVR	MR150	OK	30.6457	39.4724	0.365157	-0.331177	0.74051	0.999883
gene1466	gene1466	papS	gi 57650036 ref NC_002951.2 :1537305-1539466	MVR	MR150	OK	26.8815	29.6215	0.140034	-0.130521	0.89615	0.999883
gene1467	gene1467	SACOL1498	gi 57650036 ref NC_002951.2 :1539470-1540625	MVR	MR150	OK	26.8223	31.9116	0.250649	-0.349787	0.7265	0.999883
gene1468	gene1468	SACOL1499	gi 57650036 ref NC_002951.2 :1540853-1541171	MVR	MR150	OK	53.9512	32.0578	-0.750979	1.08495	0.27794	0.963271
gene1469	gene1469	SACOL1500	gi 57650036 ref NC_002951.2 :1541507-1542215	MVR	MR150	OK	1473.11	1544.46	0.0682398	-0.069764	0.94438	0.999883
gene147	gene147	SACOL0153	gi 57650036 ref NC_002951.2 :170370-170754	MVR	MR150	OK	2.84558	3.29641	0.212172	-0.215793	0.82915	0.999883
gene1470	gene1470	SACOL1501	gi 57650036 ref NC_002951.2 :1542259-1543412	MVR	MR150	OK	16.3769	13.4119	-0.288153	0.275961	0.78258	0.999883
gene1471	gene1471	SACOL1502	gi 57650036 ref NC_002951.2 :1542259-1543412	MVR	MR150	OK	20.5857	19.9449	-0.045624	0.050291	0.95989	0.999883

gene1472	gene1472	SACOL1503	gi 57650036 ref NC_002951.2 :1543425-1544670	MVR	MR150	OK	28.64	25.94	-0.142851	0.199024	0.84224	0.999883
gene1473	gene1473	aroA	gi 57650036 ref NC_002951.2 :1544676-1545975	MVR	MR150	OK	26.44	26.1988	-0.013224	0.018396	0.98532	0.999883
gene1474	gene1474	aroB	gi 57650036 ref NC_002951.2 :1545984-1547049	MVR	MR150	OK	18.0793	15.7563	-0.198406	0.289044	0.77255	0.999883
gene1475	gene1475	aroC	gi 57650036 ref NC_002951.2 :1547074-1548241	MVR	MR150	OK	16.1863	22.647	0.484545	-0.697295	0.48562	0.999883
gene1476	gene1476	SACOL1507	gi 57650036 ref NC_002951.2 :1548626-1548827	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1477	gene1477	SACOL1508	gi 57650036 ref NC_002951.2 :1548855-1548981	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	MVR	MR150	OK	187.225	259.126	0.468879	-0.611866	0.54063	0.999883
gene1479	gene1479	SACOL1510	gi 57650036 ref NC_002951.2 :1549576-1550536	MVR	MR150	OK	58.7151	70.9224	0.27251	-0.359112	0.71951	0.999883
gene148	gene148	aldA1	gi 57650036 ref NC_002951.2 :171180-172668	MVR	MR150	OK	1009.67	1141.56	0.177125	-0.182224	0.85541	0.999883
gene1480	gene1480	ubiE	gi 57650036 ref NC_002951.2 :1550537-1551263	MVR	MR150	OK	114.72	129.81	0.178279	-0.228531	0.81923	0.999883
gene1481	gene1481	SACOL1512	gi 57650036 ref NC_002951.2 :1551265-1551838	MVR	MR150	OK	72.6671	93.9605	0.370751	-0.51314	0.60785	0.999883
gene1482	gene1482	hup	gi 57650036 ref NC_002951.2 :1552268-1552541	MVR	MR150	OK	8177.93	6953.02	-0.234095	0.240625	0.80985	0.999883
gene1483	gene1483	gpsA	gi 57650036 ref NC_002951.2 :1552711-1553710	MVR	MR150	OK	89.1127	88.9275	-0.0030008	0.003799	0.99697	0.999883
gene1484	gene1484	engA	gi 57650036 ref NC_002951.2 :1553726-1555037	MVR	MR150	OK	78.9289	69.201	-0.189761	0.236043	0.8134	0.999883
gene1485	gene1485	rpsA	gi 57650036 ref NC_002951.2 :1555258-1556434	MVR	MR150	OK	343.518	375.644	0.128979	-0.137239	0.89084	0.999883
gene1486	gene1486	cmk	gi 57650036 ref NC_002951.2 :1557145-1557805	MVR	MR150	OK	57.5222	68.5525	0.253088	-0.352475	0.72448	0.999883
gene1487	gene1487	ansA	gi 57650036 ref NC_002951.2 :1557881-1558850	MVR	MR150	OK	14.2072	16.1293	0.183066	-0.268413	0.78838	0.999883
gene1488	gene1488	SACOL1520	gi 57650036 ref NC_002951.2 :1558964-1559951	MVR	MR150	OK	51.5031	51.9515	0.0125062	-0.016795	0.9866	0.999883
gene1489	gene1489	SACOL1521	gi 57650036 ref NC_002951.2 :1560111-1560228	MVR	MR150	NOTEST	0	0	0	0	1	1
gene149	gene149	SACOL0155	gi 57650036 ref NC_002951.2 :173313-174273	MVR	MR150	OK	23.9945	23.1707	-0.0504057	0.072803	0.94196	0.999883
gene1490	gene1490	SACOL1522	gi 57650036 ref NC_002951.2 :1560352-1561813	MVR	MR150	OK	233.186	236.843	0.0224484	-0.024263	0.98064	0.999883
gene1491	gene1491	recQ2	gi 57650036 ref NC_002951.2 :1561965-1564288	MVR	MR150	OK	15.4812	16.3538	0.0791092	-0.07591	0.93949	0.999883
gene1492	gene1492	SACOL1524	gi 57650036 ref NC_002951.2 :1561965-1564288	MVR	MR150	OK	23.711	25.9951	0.13268	-0.126777	0.89912	0.999883
gene1493	gene1493	fer	gi 57650036 ref NC_002951.2 :1564395-1564644	MVR	MR150	OK	240.67	240.136	-0.003201	0.004659	0.99628	0.999883
gene1494	gene1494	SACOL1526	gi 57650036 ref NC_002951.2 :1564749-1565295	MVR	MR150	OK	78.0052	112.336	0.526181	-0.724427	0.4688	0.999883
gene1495	gene1495	SACOL1528	gi 57650036 ref NC_002951.2 :1565891-1566806	MVR	MR150	OK	2.53873	2.35574	-0.107924	0.140844	0.88799	0.999883
gene1496	gene1496	SACOL1529	gi 57650036 ref NC_002951.2 :1566820-1567898	MVR	MR150	OK	0	4.33328	1.79769e+30	1.79769e+30	0.14005	0.736107
gene1497	gene1497	SACOL1530	gi 57650036 ref NC_002951.2 :1566820-1567898	MVR	MR150	NOTEST	0.62491	0.45101	-0.470488	0.382072	0.70241	1
gene1498	gene1498	SACOL1531	gi 57650036 ref NC_002951.2 :1568015-1568933	MVR	MR150	OK	1.26388	0.21326	-2.56715	1.94566	0.0517	0.447556
gene1499	gene1499	SACOL1532	gi 57650036 ref NC_002951.2 :1569023-1572048	MVR	MR150	OK	19.0946	19.1956	0.0076141	-0.008502	0.99322	0.999883
gene15	gene15	dnaB	gi 57650036 ref NC_002951.2 :20786-22187	MVR	MR150	OK	78.7583	86.461	0.134617	-0.163662	0.87	0.999883
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	MVR	MR150	OK	60.0788	50.5897	-0.248011	0.322835	0.74682	0.999883
gene1500	gene1500	SACOL1533	gi 57650036 ref NC_002951.2 :1569023-1572048	MVR	MR150	OK	20.2757	22.3963	0.143509	-0.098161	0.92181	0.999883

gene1501	gene1501	srrB	gi 57650036 ref NC_002951.2 :1572352-1574810	MVR	MR150	OK	24.2297	23.1921	-0.0631387	0.044893	0.96419	0.999883
gene1502	gene1502	srrA	gi 57650036 ref NC_002951.2 :1572352-1574810	MVR	MR150	OK	135.801	130.683	-0.0554216	0.053975	0.95696	0.999883
gene1503	gene1503	rluB	gi 57650036 ref NC_002951.2 :1574942-1576939	MVR	MR150	OK	44.7036	49.7991	0.155727	-0.129174	0.89722	0.999883
gene1504	gene1504	scpB	gi 57650036 ref NC_002951.2 :1574942-1576939	MVR	MR150	OK	40.8321	40.5978	-0.0083034	0.005076	0.99595	0.999883
gene1505	gene1505	scpA	gi 57650036 ref NC_002951.2 :1574942-1576939	MVR	MR150	OK	41.5484	41.4393	-0.0037911	0.002932	0.99766	0.999883
gene1506	gene1506	SACOL1539	gi 57650036 ref NC_002951.2 :1577030-1577537	MVR	MR150	OK	8.2479	13.9523	0.75841	-1.05996	0.28916	0.975616
gene1507	gene1507	xerD	gi 57650036 ref NC_002951.2 :1577614-1578502	MVR	MR150	OK	21.3114	21.3656	0.00365986	-0.005332	0.99575	0.999883
gene1508	gene1508	SACOL1541	gi 57650036 ref NC_002951.2 :1578550-1579000	MVR	MR150	OK	120.616	89.8384	-0.425019	0.598917	0.54923	0.999883
gene1509	gene1509	SACOL1542	gi 57650036 ref NC_002951.2 :1579104-1579647	MVR	MR150	OK	24.3528	17.399	-0.485078	0.710726	0.47725	0.999883
gene151	gene151	SACOL0157	gi 57650036 ref NC_002951.2 :174716-175229	MVR	MR150	OK	21.6096	17.1072	-0.337069	0.491728	0.62291	0.999883
gene1510	gene1510	SACOL1543	gi 57650036 ref NC_002951.2 :1579728-1580637	MVR	MR150	OK	74.8652	74.0776	-0.0152588	0.019967	0.98407	0.999883
gene1511	gene1511	SACOL1544	gi 57650036 ref NC_002951.2 :1580852-1581101	MVR	MR150	OK	10.3737	6.927	-0.582625	0.587648	0.55677	0.999883
gene1512	gene1512	SACOL1545	gi 57650036 ref NC_002951.2 :1581116-1581872	MVR	MR150	OK	9.01204	8.53615	-0.0782686	0.113223	0.90985	0.999883
gene1513	gene1513	proC	gi 57650036 ref NC_002951.2 :1582013-1582829	MVR	MR150	OK	94.621	91.4684	-0.0488873	0.063445	0.94941	0.999883
gene1514	gene1514	SACOL1548	gi 57650036 ref NC_002951.2 :1582933-1583854	MVR	MR150	OK	21.3096	26.3347	0.305465	-0.441983	0.6585	0.999883
gene1515	gene1515	zwf	gi 57650036 ref NC_002951.2 :1584166-1585651	MVR	MR150	OK	100.692	110.37	0.132396	-0.155111	0.87673	0.999883
gene1516	gene1516	SACOL1550	gi 57650036 ref NC_002951.2 :1585853-1586747	MVR	MR150	OK	41.3686	45.0095	0.121695	-0.168787	0.86596	0.999883
gene1517	gene1517	malA	gi 57650036 ref NC_002951.2 :1586829-1588479	MVR	MR150	OK	15.7497	14.8939	-0.0806062	0.114801	0.9086	0.999883
gene1518	gene1518	malR	gi 57650036 ref NC_002951.2 :1588494-1589514	MVR	MR150	OK	4.26099	4.85545	0.188418	-0.267896	0.78878	0.999883
gene1519	gene1519	SACOL1553	gi 57650036 ref NC_002951.2 :1589707-1590079	MVR	MR150	OK	560.973	615.879	0.134716	-0.164167	0.8696	0.999883
gene152	gene152	SACOL0158	gi 57650036 ref NC_002951.2 :175570-178057	MVR	MR150	OK	4.11941	1.80313	-1.19193	1.5232	0.12771	0.708224
gene1520	gene1520	gnd	gi 57650036 ref NC_002951.2 :1590297-1591704	MVR	MR150	OK	244.816	301.11	0.29859	-0.319661	0.74923	0.999883
gene1521	gene1521	SACOL1555	gi 57650036 ref NC_002951.2 :1591771-1592905	MVR	MR150	OK	43.5072	58.535	0.428046	-0.566141	0.5713	0.999883
gene1522	gene1522	SACOL1556	gi 57650036 ref NC_002951.2 :1593167-1593347	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1523	gene1523	SACOL1557	gi 57650036 ref NC_002951.2 :1593473-1594454	MVR	MR150	OK	60.0996	67.8399	0.17478	-0.229946	0.81813	0.999883
gene1524	gene1524	SACOL1558	gi 57650036 ref NC_002951.2 :1594467-1594905	MVR	MR150	OK	52.3292	61.5926	0.235141	-0.343633	0.73112	0.999883
gene1525	gene1525	SACOL1559	gi 57650036 ref NC_002951.2 :1594977-1595076	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1526	gene1526	SACOL1560	gi 57650036 ref NC_002951.2 :1595255-1596530	MVR	MR150	OK	72.5059	93.7422	0.3706	-0.45664	0.64793	0.999883
gene1527	gene1527	SACOL1561	gi 57650036 ref NC_002951.2 :1596542-1598518	MVR	MR150	OK	58.0158	62.1115	0.0984157	-0.085011	0.93225	0.999883
gene1528	gene1528	SACOL1562	gi 57650036 ref NC_002951.2 :1596542-1598518	MVR	MR150	OK	56.6526	62.9517	0.152104	-0.131826	0.89512	0.999883
gene1529	gene1529	lpdA	gi 57650036 ref NC_002951.2 :1598533-1599955	MVR	MR150	OK	47.745	52.8905	0.147659	-0.189966	0.84934	0.999883
gene153	gene153	SACOL0159	gi 57650036 ref NC_002951.2 :175570-178057	MVR	MR150	OK	3.04298	1.36211	-1.15964	0.767036	0.44306	0.999883
gene1530	gene1530	recN	gi 57650036 ref NC_002951.2 :1600105-1601785	MVR	MR150	OK	65.919	72.3394	0.134088	-0.162378	0.87101	0.999883

gene1531	gene1531	argR	gi 57650036 ref NC_002951.2 :1601800-1602253	MVR	MR150	OK	87.0869	96.0311	0.141046	-0.20071	0.84093	0.999883
gene1532	gene1532	ispA	gi 57650036 ref NC_002951.2 :1602684-1605104	MVR	MR150	OK	69.1381	75.6616	0.130079	-0.102003	0.91876	0.999883
gene1533	gene1533	xseB	gi 57650036 ref NC_002951.2 :1602684-1605104	MVR	MR150	OK	69.6277	81.6062	0.229017	-0.049127	0.96082	0.999883
gene1534	gene1534	xseA	gi 57650036 ref NC_002951.2 :1602684-1605104	MVR	MR150	OK	52.7617	54.7745	0.0540123	-0.047325	0.96225	0.999883
gene1535	gene1535	nusB	gi 57650036 ref NC_002951.2 :1605120-1605510	MVR	MR150	OK	56.0861	74.3227	0.406158	-0.594553	0.55214	0.999883
gene1536	gene1536	SACOL1570	gi 57650036 ref NC_002951.2 :1605569-1605932	MVR	MR150	OK	66.7788	68.3762	0.0341041	-0.050081	0.96006	0.999883
gene1537	gene1537	accC	gi 57650036 ref NC_002951.2 :1605946-1607766	MVR	MR150	OK	51.148	46.6351	-0.13326	0.149747	0.88096	0.999883
gene1538	gene1538	accB	gi 57650036 ref NC_002951.2 :1605946-1607766	MVR	MR150	OK	54.1053	62.2989	0.203436	-0.11694	0.90691	0.999883
gene1539	gene1539	SACOL1573	gi 57650036 ref NC_002951.2 :1608120-1609141	MVR	MR150	OK	48.2795	47.3763	-0.0272468	0.036728	0.9707	0.999883
gene154	gene154	SACOL0160	gi 57650036 ref NC_002951.2 :178069-179101	MVR	MR150	OK	2.75023	2.39273	-0.200899	0.269698	0.78739	0.999883
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	MVR	MR150	OK	0	5.24298	1.79769e+30	1.79769e+30	0.01149	0.182325
gene1541	gene1541	SACOL1575	gi 57650036 ref NC_002951.2 :1609646-1610237	MVR	MR150	OK	1.91099	1.56578	-0.287443	0.308429	0.75776	0.999883
gene1542	gene1542	SACOL1576	gi 57650036 ref NC_002951.2 :1610243-1613127	MVR	MR150	OK	2.77118	2.35037	-0.237613	0.189067	0.85004	0.999883
gene1543	gene1543	SACOL1577	gi 57650036 ref NC_002951.2 :1610243-1613127	MVR	MR150	OK	3.60152	2.69533	-0.418145	0.514625	0.60682	0.999883
gene1544	gene1544	SACOL1578	gi 57650036 ref NC_002951.2 :1613131-1614490	MVR	MR150	OK	1.49432	0.79286	-0.914346	1.12091	0.26233	0.944538
gene1545	gene1545	SACOL1579	gi 57650036 ref NC_002951.2 :1614543-1617039	MVR	MR150	OK	3.19232	1.06745	-1.58044	2.23713	0.02528	0.302373
gene1546	gene1546	SACOL1580	gi 57650036 ref NC_002951.2 :1617073-1617457	MVR	MR150	OK	1.77849	0.8241	-1.10976	0.77016	0.44121	0.999883
gene1547	gene1547	SACOL1581	gi 57650036 ref NC_002951.2 :1617468-1617729	MVR	MR150	OK	20.8076	2.01969	-3.36491	2.59539	0.00945	0.161634
gene1548	gene1548	SACOL1582	gi 57650036 ref NC_002951.2 :1617733-1618789	MVR	MR150	OK	2.8115	1.96788	-0.514703	0.684487	0.49367	0.999883
gene1549	gene1549	SACOL1583	gi 57650036 ref NC_002951.2 :1618849-1619941	MVR	MR150	OK	5.18775	3.26193	-0.669381	0.948588	0.34283	0.999883
gene155	gene155	SACOL0161	gi 57650036 ref NC_002951.2 :179317-179677	MVR	MR150	OK	449.545	676.887	0.590448	-0.730338	0.46518	0.999883
gene1550	gene1550	SACOL1584	gi 57650036 ref NC_002951.2 :1620115-1620418	MVR	MR150	OK	3.67309	1.38047	-1.41184	1.00473	0.31503	0.998619
gene1551	gene1551	SACOL1585	gi 57650036 ref NC_002951.2 :1620431-1620752	MVR	MR150	OK	10.6605	7.24133	-0.557947	0.664045	0.50666	0.999883
gene1552	gene1552	SACOL1586	gi 57650036 ref NC_002951.2 :1620902-1621187	MVR	MR150	NOTEST	0.71369	0	-1.79769e+30	-1.79769e+30	0.22252	1
gene1553	gene1553	efp	gi 57650036 ref NC_002951.2 :1621581-1622139	MVR	MR150	OK	294.046	300.085	0.0293283	-0.035455	0.97172	0.999883
gene1554	gene1554	SACOL1588	gi 57650036 ref NC_002951.2 :1622164-1623226	MVR	MR150	OK	56.4556	57.0266	0.0145181	-0.019137	0.98473	0.999883
gene1555	gene1555	SACOL1589	gi 57650036 ref NC_002951.2 :1623330-1623912	MVR	MR150	OK	24.3229	22.8373	-0.0909213	0.133708	0.89363	0.999883
gene1556	gene1556	SACOL1590	gi 57650036 ref NC_002951.2 :1623925-1624144	MVR	MR150	OK	93.1691	111.972	0.265221	-0.37969	0.70418	0.999883
gene1557	gene1557	SACOL1591	gi 57650036 ref NC_002951.2 :1624207-1625038	MVR	MR150	OK	53.0776	57.5081	0.115662	-0.157947	0.8745	0.999883
gene1558	gene1558	SACOL1592	gi 57650036 ref NC_002951.2 :1625195-1625582	MVR	MR150	OK	92.6991	116.85	0.33403	-0.48041	0.63094	0.999883
gene1559	gene1559	SACOL1593	gi 57650036 ref NC_002951.2 :1625946-1628758	MVR	MR150	OK	32.4036	44.5159	0.458165	-0.400922	0.68848	0.999883
gene156	gene156	SACOL0162	gi 57650036 ref NC_002951.2 :179849-180875	MVR	MR150	OK	4.44787	4.26402	-0.0608992	0.086372	0.93117	0.999883
gene1560	gene1560	SACOL1594	gi 57650036 ref NC_002951.2 :1625946-1628758	MVR	MR150	OK	32.1846	49.6714	0.626048	-0.534014	0.59333	0.999883

gene1561	gene1561	gcvT	gi 57650036 ref NC_002951.2 :1628777-1629869	MVR	MR150	OK	20.3467	27.984	0.459802	-0.655884	0.5119	0.999883
gene1562	gene1562	aroK	gi 57650036 ref NC_002951.2 :1630027-1630552	MVR	MR150	OK	27.7385	33.8961	0.28923	-0.424888	0.67092	0.999883
gene1563	gene1563	SACOL1597	gi 57650036 ref NC_002951.2 :1630784-1631282	MVR	MR150	OK	0.42579	2.05318	2.26965	-1.51879	0.12882	0.710909
gene1564	gene1564	SACOL1598	gi 57650036 ref NC_002951.2 :1631485-1632221	MVR	MR150	NOTEST	0.26054	0	-1.79769e+3(-1.79769e+0.27986		1	
gene1565	gene1565	comGC	gi 57650036 ref NC_002951.2 :1631485-1632221	MVR	MR150	NOTEST	0.57026	0	-1.79769e+3(-1.79769e+0.27986		1	
gene1566	gene1566	SACOL1600	gi 57650036 ref NC_002951.2 :1632234-1634251	MVR	MR150	OK	1.86417	0.87909	-1.08445	0.903139	0.36645	0.999883
gene1567	gene1567	SACOL1601	gi 57650036 ref NC_002951.2 :1632234-1634251	MVR	MR150	OK	1.79091	2.56862	0.5203	-0.539252	0.58971	0.999883
gene1568	gene1568	SACOL1602	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	MR150	OK	68.2459	72.9237	0.0956462	-0.054418	0.9566	0.999883
gene1569	gene1569	SACOL1603	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	MR150	OK	57.964	52.1722	-0.151875	0.042124	0.9664	0.999883
gene157	gene157	SACOL0163	gi 57650036 ref NC_002951.2 :181260-182511	MVR	MR150	OK	24.6004	33.0779	0.427183	-0.591646	0.55409	0.999883
gene1570	gene1570	glk	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	MR150	OK	50.1236	54.6756	0.125407	-0.084296	0.93282	0.999883
gene1571	gene1571	SACOL1605	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	MR150	OK	10.3584	18.3963	0.82861	-0.055514	0.95573	0.999883
gene1572	gene1572	SACOL1606	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	MR150	OK	37.7798	39.2589	0.0554054	-0.04059	0.96762	0.999883
gene1573	gene1573	SACOL1607	gi 57650036 ref NC_002951.2 :1637893-1638433	MVR	MR150	OK	41.2173	45.4558	0.141212	-0.20579	0.83696	0.999883
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	MVR	MR150	OK	2264.82	2056.82	-0.138977	0.20358	0.83868	0.999883
gene1575	gene1575	pbp3	gi 57650036 ref NC_002951.2 :1638903-1640979	MVR	MR150	OK	87.0716	106.062	0.284632	-0.323151	0.74658	0.999883
gene1576	gene1576	sodA2	gi 57650036 ref NC_002951.2 :1641099-1641699	MVR	MR150	OK	128.244	153.441	0.2588	-0.336797	0.73627	0.999883
gene1577	gene1577	SACOL1611	gi 57650036 ref NC_002951.2 :1641974-1643235	MVR	MR150	OK	26.2032	33.9359	0.373072	-0.337336	0.73586	0.999883
gene1578	gene1578	SACOL1612	gi 57650036 ref NC_002951.2 :1641974-1643235	MVR	MR150	OK	14.3443	14.2971	-0.0047561	0.005378	0.99571	0.999883
gene1579	gene1579	SACOL1613	gi 57650036 ref NC_002951.2 :1643276-1644062	MVR	MR150	OK	21.0159	22.9919	0.129646	-0.189663	0.84957	0.999883
gene158	gene158	SACOL0164	gi 57650036 ref NC_002951.2 :182957-190133	MVR	MR150	OK	20.8002	24.4419	0.232764	-0.267995	0.7887	0.999883
gene1580	gene1580	nfo	gi 57650036 ref NC_002951.2 :1644187-1645078	MVR	MR150	OK	73.7287	75.1198	0.0269672	-0.035384	0.97177	0.999883
gene1581	gene1581	SACOL1615	gi 57650036 ref NC_002951.2 :1645087-1646434	MVR	MR150	OK	52.5473	54.2113	0.0449774	-0.057895	0.95383	0.999883
gene1582	gene1582	SACOL1616	gi 57650036 ref NC_002951.2 :1646547-1647648	MVR	MR150	OK	43.1433	47.5906	0.141539	-0.189989	0.84932	0.999883
gene1583	gene1583	SACOL1617	gi 57650036 ref NC_002951.2 :1647650-1648328	MVR	MR150	OK	22.0202	25.6206	0.218479	-0.320503	0.74859	0.999883
gene1584	gene1584	rpoD	gi 57650036 ref NC_002951.2 :1648458-1649565	MVR	MR150	OK	101.728	105.189	0.0482661	-0.059096	0.95288	0.999883
gene1585	gene1585	dnaG	gi 57650036 ref NC_002951.2 :1649788-1651588	MVR	MR150	OK	74.1867	83.8594	0.176813	-0.208796	0.83461	0.999883
gene1586	gene1586	SACOL1620	gi 57650036 ref NC_002951.2 :1651648-1652467	MVR	MR150	OK	48.9392	48.4809	-0.0135751	0.018822	0.98498	0.999883
gene1587	gene1587	SACOL1621	gi 57650036 ref NC_002951.2 :1652477-1653017	MVR	MR150	OK	16.6348	17.1022	0.0399752	-0.058224	0.95357	0.999883
gene1588	gene1588	glyS	gi 57650036 ref NC_002951.2 :1653435-1654827	MVR	MR150	OK	394.572	233.331	-0.757912	0.805557	0.4205	0.999883
gene1589	gene1589	SACOL1623	gi 57650036 ref NC_002951.2 :1654976-1655729	MVR	MR150	OK	79.9102	102.159	0.354358	-0.466283	0.64101	0.999883
gene159	gene159	SACOL0165	gi 57650036 ref NC_002951.2 :190145-190790	MVR	MR150	OK	36.6582	50.2221	0.454186	-0.652911	0.51381	0.999883
gene1590	gene1590	era	gi 57650036 ref NC_002951.2 :1655750-1656650	MVR	MR150	OK	62.6269	75.0295	0.260676	-0.344342	0.73059	0.999883

gene1591	gene1591	cdd	gi 57650036 ref NC_002951.2 :1656650-1657055	MVR	MR150	OK	38.1365	61.6357	0.692595	-1.01468	0.31026	0.993597
gene1592	gene1592	dgkA	gi 57650036 ref NC_002951.2 :1657065-1657410	MVR	MR150	OK	53.2327	71.0001	0.415509	-0.609826	0.54198	0.999883
gene1593	gene1593	SACOL1627	gi 57650036 ref NC_002951.2 :1657412-1657880	MVR	MR150	OK	86.862	90.6984	0.0623529	-0.088548	0.92944	0.999883
gene1594	gene1594	SACOL1628	gi 57650036 ref NC_002951.2 :1657880-1658801	MVR	MR150	OK	56.7137	65.1997	0.201169	-0.268161	0.78858	0.999883
gene1595	gene1595	SACOL1629	gi 57650036 ref NC_002951.2 :1659131-1659830	MVR	MR150	OK	365.435	333.787	-0.130687	0.149176	0.88141	0.999883
gene1596	gene1596	SACOL1630	gi 57650036 ref NC_002951.2 :1659846-1660836	MVR	MR150	OK	277.043	281.257	0.0217761	-0.02424	0.98066	0.999883
gene1597	gene1597	SACOL1631	gi 57650036 ref NC_002951.2 :1660853-1661561	MVR	MR150	OK	270.946	292.921	0.112504	-0.131204	0.89561	0.999883
gene1598	gene1598	rpsU	gi 57650036 ref NC_002951.2 :1661780-1661957	MVR	MR150	OK	11432.7	9074.96	-0.333204	0.382251	0.70228	0.999883
gene1599	gene1599	SACOL1633	gi 57650036 ref NC_002951.2 :1662249-1663596	MVR	MR150	OK	50.6204	57.95	0.195091	-0.250661	0.80208	0.999883
gene16	gene16	SACOL0017	gi 57650036 ref NC_002951.2 :22262-22355	MVR	MR150	NOTEST	0	0	0	0	1	1
gene160	gene160	SACOL0166	gi 57650036 ref NC_002951.2 :191117-191612	MVR	MR150	OK	49.7165	34.7391	-0.517164	0.757479	0.44876	0.999883
gene1600	gene1600	SACOL1634	gi 57650036 ref NC_002951.2 :1663602-1664355	MVR	MR150	OK	34.042	42.6353	0.324733	-0.464173	0.64252	0.999883
gene1601	gene1601	prmA	gi 57650036 ref NC_002951.2 :1664356-1665295	MVR	MR150	OK	80.2308	130.747	0.704554	-0.884007	0.37669	0.999883
gene1602	gene1602	dnaJ	gi 57650036 ref NC_002951.2 :1665298-1666438	MVR	MR150	OK	54.7142	93.3518	0.770761	-0.979539	0.32731	0.999883
gene1603	gene1603	dnaK	gi 57650036 ref NC_002951.2 :1666573-1668406	MVR	MR150	OK	449.442	964.784	1.10207	-1.13384	0.25686	0.934592
gene1604	gene1604	grpE	gi 57650036 ref NC_002951.2 :1668474-1669101	MVR	MR150	OK	195.383	527.674	1.43334	-1.68072	0.09282	0.611738
gene1605	gene1605	hrcA	gi 57650036 ref NC_002951.2 :1669132-1670110	MVR	MR150	OK	166.745	424.354	1.34762	-1.50984	0.13108	0.718382
gene1606	gene1606	SACOL1640	gi 57650036 ref NC_002951.2 :1670209-1671367	MVR	MR150	OK	6.63707	4.31616	-0.620799	0.899058	0.36862	0.999883
gene1607	gene1607	lepA	gi 57650036 ref NC_002951.2 :1671896-1673720	MVR	MR150	OK	28.0014	31.5014	0.169918	-0.224131	0.82266	0.999883
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	MVR	MR150	OK	900.018	887.499	-0.0202087	0.0262	0.9791	0.999883
gene1609	gene1609	holA	gi 57650036 ref NC_002951.2 :1674361-1675336	MVR	MR150	OK	17.2862	16.3997	-0.075954	0.111076	0.91156	0.999883
gene161	gene161	argB	gi 57650036 ref NC_002951.2 :191866-192631	MVR	MR150	OK	1.51306	1.62586	0.103734	-0.118905	0.90535	0.999883
gene1610	gene1610	SACOL1644	gi 57650036 ref NC_002951.2 :1675392-1677540	MVR	MR150	OK	2.97923	4.32474	0.537673	-0.787424	0.43103	0.999883
gene1611	gene1611	SACOL1645	gi 57650036 ref NC_002951.2 :1677598-1678030	MVR	MR150	OK	30.0952	40.7923	0.438763	-0.643586	0.51984	0.999883
gene1612	gene1612	comEA	gi 57650036 ref NC_002951.2 :1678151-1678838	MVR	MR150	OK	5.93476	7.54424	0.346186	-0.485889	0.62705	0.999883
gene1613	gene1613	SACOL1647	gi 57650036 ref NC_002951.2 :1678877-1679594	MVR	MR150	OK	91.1975	110.155	0.272473	-0.357284	0.72088	0.999883
gene1614	gene1614	SACOL1648	gi 57650036 ref NC_002951.2 :1679596-1679950	MVR	MR150	OK	98.3024	97.3941	-0.0133922	0.01951	0.98443	0.999883
gene1615	gene1615	SACOL1649	gi 57650036 ref NC_002951.2 :1679950-1681094	MVR	MR150	OK	47.1095	67.9788	0.529066	-0.478012	0.63264	0.999883
gene1616	gene1616	nadD	gi 57650036 ref NC_002951.2 :1679950-1681094	MVR	MR150	OK	59.7842	77.3487	0.371612	-0.36024	0.71867	0.999883
gene1617	gene1617	SACOL1651	gi 57650036 ref NC_002951.2 :1681096-1681387	MVR	MR150	OK	11.5057	22.8366	0.989003	-1.24663	0.21253	0.892138
gene1618	gene1618	aroE	gi 57650036 ref NC_002951.2 :1681390-1682197	MVR	MR150	OK	37.5097	41.3671	0.14122	-0.200065	0.84143	0.999883
gene1619	gene1619	SACOL1653	gi 57650036 ref NC_002951.2 :1682210-1683311	MVR	MR150	OK	29.6736	32.8035	0.144674	-0.20184	0.84004	0.999883
gene162	gene162	argJ	gi 57650036 ref NC_002951.2 :192646-193888	MVR	MR150	OK	2.18305	1.46976	-0.570769	0.750805	0.45277	0.999883

gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	MVR	MR150	OK	39.5676	41.9835	0.0855044	-0.125012	0.90051	0.999883
gene1621	gene1621	mtn	gi 57650036 ref NC_002951.2 :1683858-1684545	MVR	MR150	OK	19.3195	26.0905	0.433464	-0.635766	0.52493	0.999883
gene1622	gene1622	SACOL1656	gi 57650036 ref NC_002951.2 :1684858-1685128	MVR	MR150	OK	15.6452	14.741	-0.0858821	0.104808	0.91653	0.999883
gene1623	gene1623	SACOL1657	gi 57650036 ref NC_002951.2 :1685329-1686034	MVR	MR150	OK	4.61887	2.72833	-0.759523	0.989621	0.32236	0.999883
gene1624	gene1624	SACOL1658	gi 57650036 ref NC_002951.2 :1686495-1687716	MVR	MR150	OK	9.56132	11.5498	0.272586	-0.40014	0.68905	0.999883
gene1625	gene1625	SACOL1659	gi 57650036 ref NC_002951.2 :1688004-1689234	MVR	MR150	OK	37.8451	36.5771	-0.0491669	0.066425	0.94704	0.999883
gene1626	gene1626	SACOL1660	gi 57650036 ref NC_002951.2 :1689246-1691360	MVR	MR150	OK	33.3788	26.301	-0.343816	0.237181	0.81252	0.999883
gene1627	gene1627	SACOL1661	gi 57650036 ref NC_002951.2 :1689246-1691360	MVR	MR150	OK	35.2551	35.0594	-0.008031	0.008806	0.99297	0.999883
gene1628	gene1628	SACOL1662	gi 57650036 ref NC_002951.2 :1691373-1691823	MVR	MR150	OK	19.5455	12.8341	-0.606857	0.863803	0.3877	0.999883
gene1629	gene1629	SACOL1663	gi 57650036 ref NC_002951.2 :1691824-1693559	MVR	MR150	OK	24.595	27.3788	0.154696	-0.179852	0.85727	0.999883
gene163	gene163	argC	gi 57650036 ref NC_002951.2 :193899-194931	MVR	MR150	OK	1.95411	1.47245	-0.408299	0.514071	0.6072	0.999883
gene1630	gene1630	SACOL1664	gi 57650036 ref NC_002951.2 :1691824-1693559	MVR	MR150	OK	15.7896	17.742	0.168194	-0.127066	0.89889	0.999883
gene1631	gene1631	greA	gi 57650036 ref NC_002951.2 :1693884-1694361	MVR	MR150	OK	211.183	225.222	0.092852	-0.12009	0.90441	0.999883
gene1632	gene1632	udk	gi 57650036 ref NC_002951.2 :1694388-1696280	MVR	MR150	OK	52.9015	72.2017	0.448724	-0.327026	0.74365	0.999883
gene1633	gene1633	SACOL1667	gi 57650036 ref NC_002951.2 :1694388-1696280	MVR	MR150	OK	43.4846	51.2888	0.238137	-0.242818	0.80815	0.999883
gene1634	gene1634	SACOL1668	gi 57650036 ref NC_002951.2 :1696291-1697215	MVR	MR150	OK	32.4957	37.6465	0.212267	-0.299086	0.76488	0.999883
gene1635	gene1635	SACOL1669	gi 57650036 ref NC_002951.2 :1697217-1697856	MVR	MR150	OK	11.9733	19.1776	0.679608	-0.992186	0.32111	0.999883
gene1636	gene1636	SACOL1670	gi 57650036 ref NC_002951.2 :1698140-1698449	MVR	MR150	OK	1320.87	1313.88	-0.0076584	0.008914	0.99289	0.999883
gene1637	gene1637	SACOL1671	gi 57650036 ref NC_002951.2 :1698463-1698892	MVR	MR150	OK	256.854	315.883	0.298446	-0.382749	0.70191	0.999883
gene1638	gene1638	SACOL1672	gi 57650036 ref NC_002951.2 :1698895-1699156	MVR	MR150	OK	330.208	296.894	-0.153428	0.218588	0.82697	0.999883
gene1639	gene1639	alaS	gi 57650036 ref NC_002951.2 :1699218-1701849	MVR	MR150	OK	68.2365	76.9997	0.17431	-0.198341	0.84278	0.999883
gene164	gene164	rocD1	gi 57650036 ref NC_002951.2 :194969-196154	MVR	MR150	OK	3.10361	2.17668	-0.511817	0.701568	0.48295	0.999883
gene1640	gene1640	SACOL1674	gi 57650036 ref NC_002951.2 :1702191-1704669	MVR	MR150	OK	23.6924	27.5695	0.218647	-0.282772	0.77735	0.999883
gene1641	gene1641	SACOL1675	gi 57650036 ref NC_002951.2 :1704670-1705339	MVR	MR150	OK	25.3554	34.9246	0.461951	-0.673565	0.50059	0.999883
gene1642	gene1642	mnmA	gi 57650036 ref NC_002951.2 :1705800-1706919	MVR	MR150	OK	55.9323	68.9885	0.302674	-0.392479	0.69471	0.999883
gene1643	gene1643	SACOL1677	gi 57650036 ref NC_002951.2 :1706919-1708062	MVR	MR150	OK	37.9904	38.1639	0.00657171	-0.008941	0.99287	0.999883
gene1644	gene1644	SACOL1678	gi 57650036 ref NC_002951.2 :1708373-1709387	MVR	MR150	OK	73.875	84.6558	0.196523	-0.25161	0.80134	0.999883
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	MVR	MR150	OK	149.794	31.5869	-2.24558	1.68207	0.09256	0.611738
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	MVR	MR150	OK	23.4188	7.56139	-1.63094	1.17665	0.23934	0.9107
gene1647	gene1647	SACOL1681	gi 57650036 ref NC_002951.2 :1710091-1710514	MVR	MR150	OK	143.02	152.538	0.0929536	-0.128082	0.89808	0.999883
gene1648	gene1648	SACOL1682	gi 57650036 ref NC_002951.2 :1710598-1711873	MVR	MR150	OK	79.3503	93.0299	0.229459	-0.281379	0.77842	0.999883
gene1649	gene1649	SACOL1683	gi 57650036 ref NC_002951.2 :1712033-1712807	MVR	MR150	OK	26.0454	37.3423	0.519778	-0.749499	0.45356	0.999883
gene165	gene165	brnQ1	gi 57650036 ref NC_002951.2 :196406-197762	MVR	MR150	OK	24.179	29.9419	0.308407	-0.425678	0.67034	0.999883

gene1650	gene1650	aspS	gi 57650036 ref NC_002951.2 :1713267-1715034	MVR	MR150	OK	33.1294	32.4515	-0.0298263	0.039102	0.96881	0.999883
gene1651	gene1651	hisS	gi 57650036 ref NC_002951.2 :1715049-1716312	MVR	MR150	OK	18.4624	17.2888	-0.094757	0.136414	0.89149	0.999883
gene1652	gene1652	SACOL1687	gi 57650036 ref NC_002951.2 :1716772-1718097	MVR	MR150	OK	47.6222	52.776	0.14825	-0.160252	0.87268	0.999883
gene1653	gene1653	SACOL1688	gi 57650036 ref NC_002951.2 :1716772-1718097	MVR	MR150	OK	61.6972	70.6644	0.19578	-0.146553	0.88349	0.999883
gene1654	gene1654	relA2	gi 57650036 ref NC_002951.2 :1718108-1720298	MVR	MR150	OK	53.641	62.0397	0.209857	-0.250548	0.80216	0.999883
gene1655	gene1655	apt	gi 57650036 ref NC_002951.2 :1720725-1721244	MVR	MR150	OK	37.4008	47.4813	0.344293	-0.50294	0.61501	0.999883
gene1656	gene1656	recJ	gi 57650036 ref NC_002951.2 :1721265-1723539	MVR	MR150	OK	12.7253	14.9188	0.229432	-0.3193	0.7495	0.999883
gene1657	gene1657	SACOL1692	gi 57650036 ref NC_002951.2 :1723741-1726021	MVR	MR150	OK	95.9294	93.5995	-0.0354711	0.039898	0.96817	0.999883
gene1658	gene1658	yajC	gi 57650036 ref NC_002951.2 :1726295-1726556	MVR	MR150	OK	464.101	363.543	-0.35231	0.489807	0.62427	0.999883
gene1659	gene1659	tgt	gi 57650036 ref NC_002951.2 :1726574-1727714	MVR	MR150	OK	66.0146	60.7682	-0.119467	0.154289	0.87738	0.999883
gene166	gene166	entB	gi 57650036 ref NC_002951.2 :198037-198535	MVR	MR150	OK	7.87711	13.3457	0.760631	-1.05522	0.29133	0.975616
gene1660	gene1660	queA	gi 57650036 ref NC_002951.2 :1727736-1728762	MVR	MR150	OK	31.4997	32.9998	0.0671221	-0.094153	0.92499	0.999883
gene1661	gene1661	ruvB	gi 57650036 ref NC_002951.2 :1728763-1729768	MVR	MR150	OK	59.4514	50.0295	-0.248931	0.331715	0.7401	0.999883
gene1662	gene1662	ruvA	gi 57650036 ref NC_002951.2 :1729799-1730402	MVR	MR150	OK	43.0271	48.2348	0.164827	-0.237863	0.81199	0.999883
gene1663	gene1663	SACOL1698	gi 57650036 ref NC_002951.2 :1730415-1730874	MVR	MR150	OK	24.7572	23.604	-0.0688163	0.100532	0.91992	0.999883
gene1664	gene1664	obgE	gi 57650036 ref NC_002951.2 :1730883-1732176	MVR	MR150	OK	64.9391	61.3725	-0.081495	0.10349	0.91757	0.999883
gene1665	gene1665	rpmA	gi 57650036 ref NC_002951.2 :1732530-1732815	MVR	MR150	OK	1647.91	1497.3	-0.138275	0.161355	0.87181	0.999883
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	MVR	MR150	OK	173.233	201.55	0.218427	-0.310634	0.75608	0.999883
gene1667	gene1667	rplU	gi 57650036 ref NC_002951.2 :1733152-1733461	MVR	MR150	OK	565.003	651.009	0.204417	-0.260662	0.79435	0.999883
gene1668	gene1668	SACOL1703	gi 57650036 ref NC_002951.2 :1733627-1735000	MVR	MR150	OK	19.4017	19.4152	0.00100345	-0.000695	0.99945	0.999883
gene1669	gene1669	mreC	gi 57650036 ref NC_002951.2 :1733627-1735000	MVR	MR150	OK	31.4562	29.7656	-0.0796996	0.097523	0.92231	0.999883
gene167	gene167	ipdC	gi 57650036 ref NC_002951.2 :198661-200302	MVR	MR150	OK	12.4652	10.2038	-0.28879	0.418748	0.6754	0.999883
gene1670	gene1670	SACOL1705	gi 57650036 ref NC_002951.2 :1735392-1735866	MVR	MR150	OK	27.0294	31.2492	0.209289	-0.307309	0.75861	0.999883
gene1671	gene1671	SACOL1706	gi 57650036 ref NC_002951.2 :1736339-1736624	MVR	MR150	OK	268.347	246.878	-0.120303	0.170874	0.86432	0.999883
gene1672	gene1672	radC	gi 57650036 ref NC_002951.2 :1736691-1738082	MVR	MR150	OK	5.3034	6.60121	0.315813	-0.331626	0.74017	0.999883
gene1673	gene1673	SACOL1708	gi 57650036 ref NC_002951.2 :1736691-1738082	MVR	MR150	OK	5.19424	5.1231	-0.0198963	0.019917	0.98411	0.999883
gene1674	gene1674	folC	gi 57650036 ref NC_002951.2 :1738351-1739623	MVR	MR150	OK	47.9362	53.7168	0.16426	-0.21412	0.83045	0.999883
gene1675	gene1675	valS	gi 57650036 ref NC_002951.2 :1739635-1742266	MVR	MR150	OK	58.9293	53.6856	-0.134451	0.157273	0.87503	0.999883
gene1676	gene1676	SACOL1711	gi 57650036 ref NC_002951.2 :1742668-1743229	MVR	MR150	OK	91.0209	108.101	0.248108	-0.338313	0.73513	0.999883
gene1677	gene1677	SACOL1712	gi 57650036 ref NC_002951.2 :1743451-1744525	MVR	MR150	OK	33.987	37.8464	0.155174	-0.21414	0.83044	0.999883
gene1678	gene1678	hemL1	gi 57650036 ref NC_002951.2 :1744720-1746007	MVR	MR150	OK	27.5087	30.4329	0.145746	-0.201009	0.84069	0.999883
gene1679	gene1679	hemB	gi 57650036 ref NC_002951.2 :1746054-1747029	MVR	MR150	OK	18.7656	21.5369	0.198717	-0.288751	0.77277	0.999883
gene168	gene168	SACOL0174	gi 57650036 ref NC_002951.2 :200495-202621	MVR	MR150	NOTEST	0	0	0	0	1	1

gene1680	gene1680	hemD	gi 57650036 ref NC_002951.2 :1747031-1747700	MVR	MR150	OK	8.01388	6.20156	-0.369869	0.520072	0.60301	0.999883
gene1681	gene1681	hemC	gi 57650036 ref NC_002951.2 :1747721-1748648	MVR	MR150	OK	30.444	28.8556	-0.0773031	0.110418	0.91208	0.999883
gene1682	gene1682	SACOL1718	gi 57650036 ref NC_002951.2 :1748689-1749505	MVR	MR150	OK	26.964	33.8035	0.326138	-0.469791	0.63851	0.999883
gene1683	gene1683	hemA	gi 57650036 ref NC_002951.2 :1749526-1750873	MVR	MR150	OK	240.707	269.988	0.165618	-0.179244	0.85775	0.999883
gene1684	gene1684	engB	gi 57650036 ref NC_002951.2 :1751089-1751680	MVR	MR150	OK	11.3067	18.7893	0.732735	-1.06341	0.2876	0.975616
gene1685	gene1685	clpX	gi 57650036 ref NC_002951.2 :1751833-1753096	MVR	MR150	OK	271.082	277.629	0.0344256	-0.037272	0.97027	0.999883
gene1686	gene1686	tig	gi 57650036 ref NC_002951.2 :1753246-1754548	MVR	MR150	OK	386.817	384.964	-0.0069285	0.007255	0.99421	0.999883
gene1687	gene1687	SACOL1723	gi 57650036 ref NC_002951.2 :1754710-1755640	MVR	MR150	OK	24.6824	28.5274	0.208862	-0.300263	0.76398	0.999883
gene1688	gene1688	SACOL1724	gi 57650036 ref NC_002951.2 :1755658-1756267	MVR	MR150	OK	30.2123	23.5768	-0.357765	0.525234	0.59942	0.999883
gene1689	gene1689	rplT	gi 57650036 ref NC_002951.2 :1756408-1756765	MVR	MR150	OK	395.003	428.628	0.117864	-0.151367	0.87969	0.999883
gene169	gene169	SACOL0175	gi 57650036 ref NC_002951.2 :200495-202621	MVR	MR150	OK	11.7814	13.9399	0.242706	-0.343687	0.73108	0.999883
gene1690	gene1690	rpmI	gi 57650036 ref NC_002951.2 :1756811-1757012	MVR	MR150	OK	96.8904	151.746	0.647236	-0.912375	0.36157	0.999883
gene1691	gene1691	infC	gi 57650036 ref NC_002951.2 :1757040-1757568	MVR	MR150	OK	124.081	157.672	0.345641	-0.45958	0.64582	0.999883
gene1692	gene1692	SACOL1728	gi 57650036 ref NC_002951.2 :1757796-1759290	MVR	MR150	OK	14.6445	12.5463	-0.223099	0.322414	0.74714	0.999883
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	MVR	MR150	OK	140.831	138.365	-0.0254904	0.028084	0.9776	0.999883
gene1694	gene1694	dnaI	gi 57650036 ref NC_002951.2 :1762065-1764386	MVR	MR150	OK	102.185	112.772	0.142223	-0.114321	0.90898	0.999883
gene1695	gene1695	SACOL1732	gi 57650036 ref NC_002951.2 :1762065-1764386	MVR	MR150	OK	60.4228	74.9839	0.311488	-0.256876	0.79727	0.999883
gene1696	gene1696	nrdR	gi 57650036 ref NC_002951.2 :1764386-1764857	MVR	MR150	OK	153.97	186.172	0.273985	-0.364558	0.71544	0.999883
gene1697	gene1697	gapA2	gi 57650036 ref NC_002951.2 :1765066-1766092	MVR	MR150	OK	506.911	777.35	0.616831	-0.639924	0.52222	0.999883
gene1698	gene1698	coaE	gi 57650036 ref NC_002951.2 :1766261-1766885	MVR	MR150	OK	61.3774	80.5049	0.391368	-0.543231	0.58697	0.999883
gene1699	gene1699	fpg	gi 57650036 ref NC_002951.2 :1766900-1767773	MVR	MR150	OK	36.3997	47.0958	0.371669	-0.518825	0.60388	0.999883
gene17	gene17	purA	gi 57650036 ref NC_002951.2 :22464-23748	MVR	MR150	OK	32.5521	10.3137	-1.65819	2.34309	0.01912	0.252566
gene170	gene170	SACOL0176	gi 57650036 ref NC_002951.2 :203206-205158	MVR	MR150	OK	14.5495	19.6788	0.435667	-0.478864	0.63204	0.999883
gene1700	gene1700	polA	gi 57650036 ref NC_002951.2 :1767788-1770419	MVR	MR150	OK	49.2333	55.2608	0.166623	-0.196596	0.84414	0.999883
gene1701	gene1701	SACOL1738	gi 57650036 ref NC_002951.2 :1770712-1772200	MVR	MR150	OK	7.17192	7.61039	0.0856116	-0.12587	0.89984	0.999883
gene1702	gene1702	SACOL1739	gi 57650036 ref NC_002951.2 :1772698-1775064	MVR	MR150	OK	81.1355	113.331	0.482141	-0.466987	0.64051	0.999883
gene1703	gene1703	phoP	gi 57650036 ref NC_002951.2 :1772698-1775064	MVR	MR150	OK	97.604	104.283	0.0954881	-0.055076	0.95608	0.999883
gene1704	gene1704	icd	gi 57650036 ref NC_002951.2 :1775453-1776722	MVR	MR150	OK	867.062	1064.74	0.296298	-0.302903	0.76196	0.999883
gene1705	gene1705	gltA	gi 57650036 ref NC_002951.2 :1776770-1777892	MVR	MR150	OK	567.028	720.86	0.3463	-0.356608	0.72139	0.999883
gene1706	gene1706	SACOL1743	gi 57650036 ref NC_002951.2 :1778239-1779601	MVR	MR150	OK	188.456	201.789	0.0986254	-0.109433	0.91286	0.999883
gene1707	gene1707	SACOL1744	gi 57650036 ref NC_002951.2 :1779633-1781285	MVR	MR150	NOTEST	0.69628	0.52743	-0.400696	0.45941	0.64594	1
gene1708	gene1708	pyk	gi 57650036 ref NC_002951.2 :1781925-1783683	MVR	MR150	OK	120.484	125.05	0.0536677	-0.060565	0.95171	0.999883
gene1709	gene1709	pfkA	gi 57650036 ref NC_002951.2 :1783704-1784673	MVR	MR150	OK	44.1913	48.7862	0.142708	-0.194318	0.84593	0.999883

gene171	gene171	murQ	gi 57650036 ref NC_002951.2 :203206-205158	MVR	MR150	OK	12.9752	14.2184	0.132006	-0.117182	0.90672	0.999883
gene1710	gene1710	accA	gi 57650036 ref NC_002951.2 :1784941-1786743	MVR	MR150	OK	51.7446	51.1792	-0.0158524	0.014878	0.98813	0.999883
gene1711	gene1711	accD	gi 57650036 ref NC_002951.2 :1784941-1786743	MVR	MR150	OK	48.6047	47.9361	-0.0199854	0.017054	0.98639	0.999883
gene1712	gene1712	SACOL1749	gi 57650036 ref NC_002951.2 :1786937-1788167	MVR	MR150	OK	40.7518	37.0231	-0.138436	0.186184	0.8523	0.999883
gene1713	gene1713	dnaE	gi 57650036 ref NC_002951.2 :1788616-1791814	MVR	MR150	OK	52.5927	59.0155	0.166231	-0.190206	0.84915	0.999883
gene1714	gene1714	SACOL1751	gi 57650036 ref NC_002951.2 :1791834-1792776	MVR	MR150	OK	59.535	69.7529	0.228515	-0.301942	0.7627	0.999883
gene1715	gene1715	SACOL1752	gi 57650036 ref NC_002951.2 :1793036-1794335	MVR	MR150	OK	33.186	37.0685	0.159617	-0.215491	0.82938	0.999883
gene1716	gene1716	SACOL1753	gi 57650036 ref NC_002951.2 :1794539-1794953	MVR	MR150	OK	547.266	564.035	0.0435416	-0.05204	0.9585	0.999883
gene1717	gene1717	SACOL1754	gi 57650036 ref NC_002951.2 :1795257-1795946	MVR	MR150	OK	64.7503	58.2289	-0.153151	0.212538	0.83169	0.999883
gene1718	gene1718	pepQ	gi 57650036 ref NC_002951.2 :1796120-1797176	MVR	MR150	OK	32.0511	35.2429	0.136956	-0.190652	0.8488	0.999883
gene1719	gene1719	SACOL1757	gi 57650036 ref NC_002951.2 :1797269-1797368	MVR	MR150	NOTEST	0	0	0	0	1	1
gene172	gene172	SACOL0178	gi 57650036 ref NC_002951.2 :205169-206624	MVR	MR150	OK	23.4702	23.1873	-0.0174989	0.02431	0.98061	0.999883
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	MVR	MR150	OK	305.929	318.613	0.0586117	-0.063568	0.94931	0.999883
gene1721	gene1721	SACOL1759	gi 57650036 ref NC_002951.2 :1798750-1799251	MVR	MR150	OK	935.132	1138.87	0.28436	-0.306811	0.75899	0.999883
gene1722	gene1722	ackA	gi 57650036 ref NC_002951.2 :1799496-1800699	MVR	MR150	OK	166.844	224.299	0.426921	-0.481296	0.63031	0.999883
gene1723	gene1723	SACOL1761	gi 57650036 ref NC_002951.2 :1800786-1801734	MVR	MR150	OK	85.13	106.861	0.327998	-0.414952	0.67818	0.999883
gene1724	gene1724	tpx	gi 57650036 ref NC_002951.2 :1801856-1802351	MVR	MR150	OK	684.409	773.593	0.176716	-0.197747	0.84324	0.999883
gene1725	gene1725	SACOL1763	gi 57650036 ref NC_002951.2 :1802448-1803219	MVR	MR150	OK	14.9647	9.65271	-0.632557	0.925613	0.35465	0.999883
gene1726	gene1726	thiI	gi 57650036 ref NC_002951.2 :1803262-1805625	MVR	MR150	OK	10.8193	9.57172	-0.176752	0.195105	0.84531	0.999883
gene1727	gene1727	SACOL1765	gi 57650036 ref NC_002951.2 :1803262-1805625	MVR	MR150	OK	8.68277	7.16837	-0.27651	0.257309	0.79694	0.999883
gene1728	gene1728	SACOL1766	gi 57650036 ref NC_002951.2 :1805782-1805923	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1729	gene1729	SACOL1767	gi 57650036 ref NC_002951.2 :1805996-1807691	MVR	MR150	OK	126.915	127.245	0.00374293	-0.004227	0.99663	0.999883
gene173	gene173	SACOL0179	gi 57650036 ref NC_002951.2 :206626-207502	MVR	MR150	OK	16.2328	16.082	-0.0134672	0.019774	0.98422	0.999883
gene1730	gene1730	SACOL1768	gi 57650036 ref NC_002951.2 :1807827-1808292	MVR	MR150	OK	7.72933	10.3831	0.425828	-0.575948	0.56465	0.999883
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	MVR	MR150	OK	373.056	412.464	0.144877	-0.167226	0.86719	0.999883
gene1732	gene1732	SACOL1770	gi 57650036 ref NC_002951.2 :1809353-1810097	MVR	MR150	OK	2.58607	2.53287	-0.0299907	0.037669	0.96995	0.999883
gene1733	gene1733	SACOL1771	gi 57650036 ref NC_002951.2 :1810176-1810623	MVR	MR150	OK	16.4139	12.3698	-0.408097	0.575974	0.56463	0.999883
gene1734	gene1734	SACOL1772	gi 57650036 ref NC_002951.2 :1810736-1813488	MVR	MR150	OK	11.8586	11.1551	-0.0882226	0.075893	0.9395	0.999883
gene1735	gene1735	serA	gi 57650036 ref NC_002951.2 :1810736-1813488	MVR	MR150	OK	11.8583	13.4086	0.177256	-0.193579	0.84651	0.999883
gene1736	gene1736	SACOL1774	gi 57650036 ref NC_002951.2 :1813637-1814768	MVR	MR150	OK	37.5257	34.8723	-0.1058	0.14492	0.88477	0.999883
gene1737	gene1737	SACOL1775	gi 57650036 ref NC_002951.2 :1814874-1816341	MVR	MR150	OK	29.3604	35.056	0.255787	-0.34337	0.73132	0.999883
gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	MVR	MR150	OK	48.3649	46.8717	-0.045242	0.065021	0.94816	0.999883
gene1739	gene1739	SACOL1777	gi 57650036 ref NC_002951.2 :1817257-1818532	MVR	MR150	OK	29.3251	30.7725	0.0695061	-0.095607	0.92383	0.999883

gene174	gene174	SACOL0180	gi 57650036 ref NC_002951.2 :208189-210979	MVR	MR150	OK	16.025	15.4365	-0.0539798	0.072409	0.94228	0.999883
gene1740	gene1740	tyrS	gi 57650036 ref NC_002951.2 :1818625-1819888	MVR	MR150	OK	21.896	23.1958	0.0831949	-0.117777	0.90624	0.999883
gene1741	gene1741	SACOL1779	gi 57650036 ref NC_002951.2 :1820269-1821175	MVR	MR150	OK	18.7772	20.8211	0.149069	-0.217519	0.8278	0.999883
gene1742	gene1742	SACOL1781	gi 57650036 ref NC_002951.2 :1821377-1824065	MVR	MR150	OK	6.10083	5.3564	-0.187742	0.27367	0.78434	0.999883
gene1743	gene1743	fhs	gi 57650036 ref NC_002951.2 :1824398-1826066	MVR	MR150	OK	336.019	402.735	0.261289	-0.26987	0.78726	0.999883
gene1744	gene1744	acs	gi 57650036 ref NC_002951.2 :1826505-1828212	MVR	MR150	OK	384.568	370.87	-0.0523225	0.053899	0.95702	0.999883
gene1745	gene1745	acuA	gi 57650036 ref NC_002951.2 :1828380-1829013	MVR	MR150	OK	63.0302	68.9347	0.129188	-0.180214	0.85699	0.999883
gene1746	gene1746	acuC	gi 57650036 ref NC_002951.2 :1829037-1830207	MVR	MR150	OK	69.9182	74.8355	0.0980541	-0.12429	0.90109	0.999883
gene1747	gene1747	ccpA	gi 57650036 ref NC_002951.2 :1830304-1831294	MVR	MR150	OK	334.605	320.993	-0.0599154	0.065646	0.94766	0.999883
gene1748	gene1748	SACOL1787	gi 57650036 ref NC_002951.2 :1831833-1832925	MVR	MR150	OK	66.3627	58.1998	-0.18936	0.24643	0.80535	0.999883
gene1749	gene1749	SACOL1788	gi 57650036 ref NC_002951.2 :1833624-1835142	MVR	MR150	OK	70.6896	66.0053	-0.098916	0.12166	0.90317	0.999883
gene175	gene175	SACOL0181	gi 57650036 ref NC_002951.2 :211183-212026	MVR	MR150	OK	51.1045	54.7686	0.0998997	-0.136771	0.89121	0.999883
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	MVR	MR150	OK	442.383	383.945	-0.204396	0.243667	0.80749	0.999883
gene1751	gene1751	murC	gi 57650036 ref NC_002951.2 :1835780-1837094	MVR	MR150	OK	84.8284	94.1734	0.150773	-0.183217	0.85463	0.999883
gene1752	gene1752	SACOL1791	gi 57650036 ref NC_002951.2 :1837117-1840942	MVR	MR150	OK	46.7173	53.7532	0.202393	-0.229525	0.81846	0.999883
gene1753	gene1753	SACOL1792	gi 57650036 ref NC_002951.2 :1840962-1841559	MVR	MR150	OK	23.034	37.0114	0.684201	-1.00108	0.31679	0.999883
gene1754	gene1754	SACOL1793	gi 57650036 ref NC_002951.2 :1841587-1842445	MVR	MR150	OK	30.5278	42.8167	0.488048	-0.690405	0.48994	0.999883
gene1755	gene1755	SACOL1794	gi 57650036 ref NC_002951.2 :1842544-1842856	MVR	MR150	OK	134.581	173.933	0.370057	-0.534665	0.59288	0.999883
gene1756	gene1756	pepA1	gi 57650036 ref NC_002951.2 :1842920-1843997	MVR	MR150	OK	77.1274	92.3718	0.260208	-0.327741	0.74311	0.999883
gene1757	gene1757	SACOL1796	gi 57650036 ref NC_002951.2 :1844083-1844395	MVR	MR150	OK	434.538	436.766	0.00737856	-0.009728	0.99224	0.999883
gene1758	gene1758	SACOL1797	gi 57650036 ref NC_002951.2 :1844519-1845296	MVR	MR150	OK	21.8864	22.8196	0.0602391	-0.088132	0.92977	0.999883
gene1759	gene1759	trmB	gi 57650036 ref NC_002951.2 :1845831-1846476	MVR	MR150	OK	130.525	130.371	-0.0017074	0.002215	0.99823	0.999883
gene176	gene176	SACOL0182	gi 57650036 ref NC_002951.2 :212027-214050	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1760	gene1760	SACOL1799	gi 57650036 ref NC_002951.2 :1846490-1847282	MVR	MR150	OK	128.058	135.003	0.0761872	-0.095487	0.92393	0.999883
gene1761	gene1761	dat	gi 57650036 ref NC_002951.2 :1847831-1848680	MVR	MR150	OK	115.262	120.321	0.0619801	-0.077835	0.93796	0.999883
gene1762	gene1762	SACOL1801	gi 57650036 ref NC_002951.2 :1848683-1850093	MVR	MR150	OK	62.2328	68.9836	0.148579	-0.185573	0.85278	0.999883
gene1763	gene1763	SACOL1802	gi 57650036 ref NC_002951.2 :1851012-1851435	MVR	MR150	OK	26.4529	26.6771	0.0121758	-0.017747	0.98584	0.999883
gene1764	gene1764	SACOL1803	gi 57650036 ref NC_002951.2 :1851451-1853805	MVR	MR150	OK	40.3801	33.0249	-0.290091	0.187707	0.85111	0.999883
gene1765	gene1765	SACOL1804	gi 57650036 ref NC_002951.2 :1851451-1853805	MVR	MR150	OK	31.318	37.5054	0.260106	-0.283505	0.77679	0.999883
gene1766	gene1766	SACOL1805	gi 57650036 ref NC_002951.2 :1854211-1855480	MVR	MR150	OK	19.4198	17.335	-0.163837	0.235386	0.81391	0.999883
gene1767	gene1767	SACOL1806	gi 57650036 ref NC_002951.2 :1855596-1862157	MVR	MR150	OK	3.06465	2.38426	-0.362177	0.523487	0.60064	0.999883
gene1768	gene1768	SACOL1807	gi 57650036 ref NC_002951.2 :1862482-1862794	MVR	MR150	OK	20.5294	29.6331	0.529521	-0.730031	0.46537	0.999883
gene1769	gene1769	leuS	gi 57650036 ref NC_002951.2 :1862815-1865233	MVR	MR150	OK	22.4474	19.2681	-0.220334	0.291881	0.77038	0.999883

gene177	gene177	SACOL0183	gi 57650036 ref NC_002951.2 :212027-214050	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1770	gene1770	SACOL1809	gi 57650036 ref NC_002951.2 :1865520-1866702	MVR	MR150	OK	24.3572	30.4107	0.320228	-0.448659	0.65368	0.999883
gene1771	gene1771	SACOL1810	gi 57650036 ref NC_002951.2 :1866811-1868325	MVR	MR150	OK	26.6749	30.2599	0.181923	-0.210383	0.83337	0.999883
gene1772	gene1772	SACOL1811	gi 57650036 ref NC_002951.2 :1866811-1868325	MVR	MR150	OK	25.9494	25.6466	-0.0169292	0.012842	0.98975	0.999883
gene1773	gene1773	rot	gi 57650036 ref NC_002951.2 :1868444-1868945	MVR	MR150	OK	250.211	213.951	-0.225866	0.28746	0.77376	0.999883
gene1774	gene1774	SACOL1813	gi 57650036 ref NC_002951.2 :1869365-1870078	MVR	MR150	OK	1.79343	0.89527	-1.00232	1.05569	0.29111	0.975616
gene1775	gene1775	SACOL1814	gi 57650036 ref NC_002951.2 :1870424-1871252	MVR	MR150	OK	105.714	110.202	0.0599752	-0.076388	0.93911	0.999883
gene1776	gene1776	SACOL1815	gi 57650036 ref NC_002951.2 :1871254-1871374	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1777	gene1777	putA	gi 57650036 ref NC_002951.2 :1871485-1872487	MVR	MR150	OK	149.201	117.236	-0.347849	0.419673	0.67473	0.999883
gene1778	gene1778	ribH	gi 57650036 ref NC_002951.2 :1872608-1873073	MVR	MR150	OK	4.83083	8.07578	0.74133	-0.948131	0.34306	0.999883
gene1779	gene1779	ribBA	gi 57650036 ref NC_002951.2 :1873085-1874267	MVR	MR150	OK	5.55516	4.36666	-0.347297	0.502153	0.61556	0.999883
gene178	gene178	SACOL0184	gi 57650036 ref NC_002951.2 :214314-215907	MVR	MR150	OK	9.74068	9.67574	-0.0096512	0.014096	0.98875	0.999883
gene1780	gene1780	ribE	gi 57650036 ref NC_002951.2 :1874277-1874910	MVR	MR150	OK	4.00192	4.24214	0.0841	-0.109877	0.91251	0.999883
gene1781	gene1781	ribD	gi 57650036 ref NC_002951.2 :1874916-1875960	MVR	MR150	OK	5.56263	3.81024	-0.545885	0.777589	0.43681	0.999883
gene1782	gene1782	SACOL1821	gi 57650036 ref NC_002951.2 :1876440-1877943	MVR	MR150	OK	3.56678	3.64386	0.0308466	-0.044561	0.96446	0.999883
gene1783	gene1783	arsR	gi 57650036 ref NC_002951.2 :1878465-1880072	MVR	MR150	OK	19.5079	23.9427	0.295532	-0.202277	0.8397	0.999883
gene1784	gene1784	arsB	gi 57650036 ref NC_002951.2 :1878465-1880072	MVR	MR150	OK	7.49508	8.68744	0.212986	-0.275953	0.78258	0.999883
gene1785	gene1785	arsC	gi 57650036 ref NC_002951.2 :1880089-1880485	MVR	MR150	OK	10.6601	7.75603	-0.458828	0.596941	0.55055	0.999883
gene1786	gene1786	SACOL1825	gi 57650036 ref NC_002951.2 :1880779-1881634	MVR	MR150	OK	219.529	247.089	0.170619	-0.197457	0.84347	0.999883
gene1787	gene1787	SACOL1826	gi 57650036 ref NC_002951.2 :1881909-1882134	MVR	MR150	OK	130.665	235.556	0.850195	-1.24174	0.21433	0.89416
gene1788	gene1788	SACOL1827	gi 57650036 ref NC_002951.2 :1882332-1882803	MVR	MR150	OK	5.42315	12.4115	1.19447	-1.58359	0.11329	0.667905
gene1789	gene1789	SACOL1828	gi 57650036 ref NC_002951.2 :1882915-1883789	MVR	MR150	OK	17.4228	15.0242	-0.213694	0.160486	0.8725	0.999883
gene179	gene179	SACOL0185	gi 57650036 ref NC_002951.2 :216034-217342	MVR	MR150	OK	5.34123	5.2525	-0.0241669	0.035268	0.97187	0.999883
gene1790	gene1790	SACOL1829	gi 57650036 ref NC_002951.2 :1882915-1883789	MVR	MR150	OK	43.2931	45.6985	0.0780098	-0.097299	0.92249	0.999883
gene1791	gene1791	SACOL1830	gi 57650036 ref NC_002951.2 :1884084-1884720	MVR	MR150	OK	4.25659	4.21297	-0.0148585	0.019517	0.98443	0.999883
gene1792	gene1792	tal	gi 57650036 ref NC_002951.2 :1885159-1885873	MVR	MR150	OK	267.272	294.567	0.140286	-0.163459	0.87016	0.999883
gene1793	gene1793	crcB	gi 57650036 ref NC_002951.2 :1886612-1887406	MVR	MR150	OK	5.01567	5.00806	-0.0021903	0.001967	0.99843	0.999883
gene1794	gene1794	SACOL1833	gi 57650036 ref NC_002951.2 :1886612-1887406	MVR	MR150	OK	11.0643	10.7134	-0.0465075	0.048718	0.96114	0.999883
gene1795	gene1795	SACOL1834	gi 57650036 ref NC_002951.2 :1887816-1889426	MVR	MR150	NOTEST	0.37979	0.10863	-1.80581	1.32825	0.18409	1
gene1796	gene1796	SACOL1835	gi 57650036 ref NC_002951.2 :1889488-1890322	MVR	MR150	OK	35.7543	39.848	0.156388	-0.221513	0.82469	0.999883
gene1797	gene1797	SACOL1836	gi 57650036 ref NC_002951.2 :1890533-1891442	MVR	MR150	OK	141.877	135.413	-0.0672736	0.081944	0.93469	0.999883
gene1798	gene1798	metK	gi 57650036 ref NC_002951.2 :1891566-1892760	MVR	MR150	OK	38.0434	39.1338	0.0407692	-0.055077	0.95608	0.999883
gene1799	gene1799	pckA	gi 57650036 ref NC_002951.2 :1893130-1894723	MVR	MR150	OK	504.593	558.994	0.147712	-0.151048	0.87994	0.999883

gene18	gene18	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :24177-24252	MVR	MR150	NOTEST	0	0	0	0	1	1
gene180	gene180	SACOL0186	gi 57650036 ref NC_002951.2 :217347-218511	MVR	MR150	OK	2.98629	3.97158	0.411359	-0.578867	0.56268	0.999883
gene1800	gene1800	SACOL1839	gi 57650036 ref NC_002951.2 :1894858-1895344	MVR	MR150	OK	103.914	114.434	0.139128	-0.192616	0.84726	0.999883
gene1801	gene1801	SACOL1840	gi 57650036 ref NC_002951.2 :1895718-1896949	MVR	MR150	OK	10.3684	8.84832	-0.228718	0.266543	0.78982	0.999883
gene1802	gene1802	SACOL1841	gi 57650036 ref NC_002951.2 :1895718-1896949	MVR	MR150	OK	11.3822	12.015	0.0780468	-0.069555	0.94455	0.999883
gene1803	gene1803	SACOL1842	gi 57650036 ref NC_002951.2 :1897008-1898264	MVR	MR150	OK	634.836	798.797	0.331445	-0.361213	0.71794	0.999883
gene1804	gene1804	SACOL1843	gi 57650036 ref NC_002951.2 :1897008-1898264	MVR	MR150	OK	18.0395	27.495	0.608014	-0.400314	0.68893	0.999883
gene1805	gene1805	SACOL1844	gi 57650036 ref NC_002951.2 :1898268-1899747	MVR	MR150	OK	16.6836	20.3573	0.287118	-0.406722	0.68421	0.999883
gene1806	gene1806	SACOL1845	gi 57650036 ref NC_002951.2 :1899905-1900388	MVR	MR150	OK	15.5285	10.8075	-0.52288	0.740361	0.45908	0.999883
gene1807	gene1807	SACOL1846	gi 57650036 ref NC_002951.2 :1900663-1901314	MVR	MR150	OK	145.122	143.912	-0.0120853	0.015476	0.98765	0.999883
gene1808	gene1808	SACOL1847	gi 57650036 ref NC_002951.2 :1901394-1902390	MVR	MR150	OK	299.055	264.325	-0.178098	0.197954	0.84308	0.999883
gene1809	gene1809	SACOL1848	gi 57650036 ref NC_002951.2 :1902465-1903092	MVR	MR150	OK	10.5887	11.1127	0.0696862	-0.100467	0.91997	0.999883
gene181	gene181	SACOL0187	gi 57650036 ref NC_002951.2 :218527-220303	MVR	MR150	OK	3.1656	3.30437	0.0618978	-0.089802	0.92845	0.999883
gene1810	gene1810	SACOL1849	gi 57650036 ref NC_002951.2 :1903132-1903477	MVR	MR150	OK	10.827	10.2899	-0.0734064	0.093372	0.92561	0.999883
gene1811	gene1811	SACOL1850	gi 57650036 ref NC_002951.2 :1903574-1904126	MVR	MR150	OK	12.4675	7.39066	-0.754397	1.05963	0.28931	0.975616
gene1812	gene1812	SACOL1851	gi 57650036 ref NC_002951.2 :1904343-1904985	MVR	MR150	OK	6.4332	6.23375	-0.045436	0.062891	0.94985	0.999883
gene1813	gene1813	SACOL1853	gi 57650036 ref NC_002951.2 :1905285-1905462	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1814	gene1814	SACOL1854	gi 57650036 ref NC_002951.2 :1905472-1905856	MVR	MR150	OK	12.8051	16.4821	0.364175	-0.499176	0.61766	0.999883
gene1815	gene1815	SACOL1855	gi 57650036 ref NC_002951.2 :1905957-1906735	MVR	MR150	OK	9.39313	11.3901	0.278101	-0.405723	0.68495	0.999883
gene1816	gene1816	SACOL1857	gi 57650036 ref NC_002951.2 :1907605-1907983	MVR	MR150	OK	3.31212	7.65471	1.20859	-1.35013	0.17697	0.821477
gene1817	gene1817	SACOL1858	gi 57650036 ref NC_002951.2 :1908503-1909064	MVR	MR150	OK	2.08048	2.54355	0.289928	-0.326137	0.74432	0.999883
gene1818	gene1818	SACOL1859	gi 57650036 ref NC_002951.2 :1909268-1912319	MVR	MR150	OK	1.20007	1.88054	0.648037	-0.928946	0.35292	0.999883
gene1819	gene1819	SACOL1860	gi 57650036 ref NC_002951.2 :1912385-1912616	MVR	MR150	NOTEST	0	0	0	0	1	1
gene182	gene182	ggt	gi 57650036 ref NC_002951.2 :220340-222347	MVR	MR150	OK	3.37881	3.39064	0.0050403	-0.007367	0.99412	0.999883
gene1820	gene1820	hsdS	gi 57650036 ref NC_002951.2 :1913465-1916214	MVR	MR150	OK	6.65114	5.9727	-0.155218	0.117265	0.90665	0.999883
gene1821	gene1821	hsdM2	gi 57650036 ref NC_002951.2 :1913465-1916214	MVR	MR150	OK	11.2322	12.3026	0.131318	-0.158286	0.87423	0.999883
gene1822	gene1822	SACOL1863	gi 57650036 ref NC_002951.2 :1916377-1916512	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1823	gene1823	SACOL1864	gi 57650036 ref NC_002951.2 :1916576-1917296	MVR	MR150	OK	2.12176	0.88323	-1.2644	1.35331	0.17596	0.821477
gene1824	gene1824	SACOL1865	gi 57650036 ref NC_002951.2 :1917446-1918163	MVR	MR150	OK	0.71155	1.18447	0.735191	-0.713803	0.47535	0.999883
gene1825	gene1825	SACOL1866	gi 57650036 ref NC_002951.2 :1918320-1919040	MVR	MR150	OK	1.06088	0.58882	-0.849365	0.786232	0.43173	0.999883
gene1826	gene1826	splC	gi 57650036 ref NC_002951.2 :1919160-1919880	MVR	MR150	NOTEST	0.943	0.58882	-0.67944	0.620463	0.53495	1
gene1827	gene1827	splB	gi 57650036 ref NC_002951.2 :1919937-1920660	MVR	MR150	OK	1.17167	0.29272	-2.00097	1.48223	0.13828	0.733494
gene1828	gene1828	splA	gi 57650036 ref NC_002951.2 :1920784-1921501	MVR	MR150	OK	2.01607	0.59223	-1.76731	1.73343	0.08302	0.574038

gene1829	gene1829	SACOL1870	gi 57650036 ref NC_002951.2 :1922464-1923031	MVR	MR150	OK	1.87389	1.25102	-0.582932	0.594541	0.55215	0.999883
gene183	gene183	SACOL0189	gi 57650036 ref NC_002951.2 :222644-223418	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1830	gene1830	epiG	gi 57650036 ref NC_002951.2 :1923504-1925650	MVR	MR150	OK	15.0162	12.8852	-0.220808	0.180765	0.85655	0.999883
gene1831	gene1831	epiE	gi 57650036 ref NC_002951.2 :1923504-1925650	MVR	MR150	OK	14.3455	8.7175	-0.71861	0.558426	0.57655	0.999883
gene1832	gene1832	epiF	gi 57650036 ref NC_002951.2 :1923504-1925650	MVR	MR150	OK	16.2054	15.526	-0.0617884	0.053584	0.95727	0.999883
gene1833	gene1833	epiP	gi 57650036 ref NC_002951.2 :1925672-1927046	MVR	MR150	OK	4.9839	3.65275	-0.448291	0.649139	0.51625	0.999883
gene1834	gene1834	epiD	gi 57650036 ref NC_002951.2 :1927055-1927574	MVR	MR150	NOTEST	0.39578	0.95922	1.27718	-0.813377	0.416	1
gene1835	gene1835	epiC	gi 57650036 ref NC_002951.2 :1927589-1931820	MVR	MR150	NOTEST	0.91648	0.58622	-0.644672	0.574642	0.56553	1
gene1836	gene1836	epiB	gi 57650036 ref NC_002951.2 :1927589-1931820	MVR	MR150	NOTEST	0.42233	0.16448	-1.36048	1.15113	0.24968	1
gene1837	gene1837	epiA	gi 57650036 ref NC_002951.2 :1931884-1932028	MVR	MR150	OK	0	37.5783	1.79769e+30	1.79769e+30	0.10824	0.653986
gene1838	gene1838	SACOL1879	gi 57650036 ref NC_002951.2 :1932919-1934239	MVR	MR150	OK	1.01386	0.68372	-0.568394	0.658674	0.51011	0.999883
gene1839	gene1839	lukD	gi 57650036 ref NC_002951.2 :1934670-1935654	MVR	MR150	OK	2.53915	1.56255	-0.700441	0.894473	0.37107	0.999883
gene184	gene184	acpD	gi 57650036 ref NC_002951.2 :223607-224234	MVR	MR150	OK	39.4537	56.639	0.521632	-0.746887	0.45513	0.999883
gene1840	gene1840	lukE	gi 57650036 ref NC_002951.2 :1935655-1936591	MVR	MR150	OK	1.47833	0.62415	-1.24399	1.33146	0.18304	0.831533
gene1841	gene1841	SACOL1882	gi 57650036 ref NC_002951.2 :1937390-1937930	MVR	MR150	OK	4.06628	2.25029	-0.853603	1.00181	0.31643	0.999883
gene1842	gene1842	SACOL1883	gi 57650036 ref NC_002951.2 :1937942-1938731	MVR	MR150	OK	21.4218	21.8351	0.0275709	-0.040351	0.96781	0.999883
gene1843	gene1843	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1939973-1940062	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1844	gene1844	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940116-1940188	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1845	gene1845	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940189-1940264	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1846	gene1846	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940278-1940352	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1847	gene1847	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940367-1940443	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1849	gene1849	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940545-1940621	MVR	MR150	NOTEST	0	0	0	0	1	1
gene185	gene185	SACOL0191	gi 57650036 ref NC_002951.2 :224442-225021	MVR	MR150	OK	13.4985	9.2879	-0.539375	0.772407	0.43987	0.999883
gene1850	gene1850	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940642-1940716	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1851	gene1851	SACOL1885	gi 57650036 ref NC_002951.2 :1941187-1941742	MVR	MR150	OK	9.00155	12.0702	0.4232	-0.599604	0.54877	0.999883
gene1852	gene1852	SACOL1886	gi 57650036 ref NC_002951.2 :1941835-1942063	MVR	MR150	OK	35.684	15.218	-1.22949	1.46145	0.14389	0.743774
gene1853	gene1853	hemG	gi 57650036 ref NC_002951.2 :1942064-1943465	MVR	MR150	OK	25.4909	27.4176	0.105121	-0.144828	0.88485	0.999883
gene1854	gene1854	hemH	gi 57650036 ref NC_002951.2 :1943488-1944412	MVR	MR150	OK	27.0659	32.1476	0.248237	-0.354554	0.72292	0.999883
gene1855	gene1855	hemE	gi 57650036 ref NC_002951.2 :1944469-1945607	MVR	MR150	OK	16.308	20.4667	0.327703	-0.476308	0.63386	0.999883
gene1856	gene1856	SACOL1890	gi 57650036 ref NC_002951.2 :1944469-1945607	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1857	gene1857	SACOL1891	gi 57650036 ref NC_002951.2 :1945769-1946273	MVR	MR150	OK	79.1857	72.4607	-0.128041	0.182288	0.85536	0.999883
gene1858	gene1858	SACOL1892	gi 57650036 ref NC_002951.2 :1946396-1948353	MVR	MR150	OK	65.091	59.8233	-0.121752	0.115203	0.90829	0.999883
gene1859	gene1859	SACOL1893	gi 57650036 ref NC_002951.2 :1946396-1948353	MVR	MR150	OK	72.4907	77.822	0.102383	-0.076816	0.93877	0.999883

gene186	gene186	SACOL0192	gi 57650036 ref NC_002951.2 :225403-226501	MVR	MR150	OK	1.60586	0.5116	-1.65025	1.80403	0.07123	0.523314
gene1860	gene1860	SACOL1894	gi 57650036 ref NC_002951.2 :1948486-1948909	MVR	MR150	OK	64.8242	96.448	0.57322	-0.827585	0.40791	0.999883
gene1861	gene1861	SACOL1895	gi 57650036 ref NC_002951.2 :1949050-1949416	MVR	MR150	OK	131.93	150.792	0.192787	-0.274026	0.78407	0.999883
gene1862	gene1862	SACOL1896	gi 57650036 ref NC_002951.2 :1950148-1950706	MVR	MR150	OK	5.07277	6.41207	0.338015	-0.449286	0.65323	0.999883
gene1863	gene1863	SACOL1897	gi 57650036 ref NC_002951.2 :1950910-1951873	MVR	MR150	OK	58.3186	48.9689	-0.252089	0.338511	0.73498	0.999883
gene1864	gene1864	cbf1	gi 57650036 ref NC_002951.2 :1951993-1957054	MVR	MR150	OK	151.484	133.108	-0.186568	0.097002	0.92273	0.999883
gene1865	gene1865	SACOL1899	gi 57650036 ref NC_002951.2 :1951993-1957054	MVR	MR150	OK	91.9755	88.7084	-0.0521785	0.041817	0.96664	0.999883
gene1866	gene1866	SACOL1900	gi 57650036 ref NC_002951.2 :1951993-1957054	MVR	MR150	OK	66.3558	76.189	0.19936	-0.085066	0.93221	0.999883
gene1867	gene1867	SACOL1902	gi 57650036 ref NC_002951.2 :1957825-1958170	MVR	MR150	OK	640.597	786.146	0.295382	-0.358804	0.71974	0.999883
gene1868	gene1868	SACOL1903	gi 57650036 ref NC_002951.2 :1958238-1959363	MVR	MR150	OK	22.8471	24.8338	0.120293	-0.171461	0.86386	0.999883
gene1869	gene1869	SACOL1904	gi 57650036 ref NC_002951.2 :1959541-1960006	MVR	MR150	OK	73.9117	111.907	0.598428	-0.845985	0.39756	0.999883
gene187	gene187	SACOL0193	gi 57650036 ref NC_002951.2 :226513-227785	MVR	MR150	OK	2.06477	0.71432	-1.53134	1.85993	0.06289	0.504373
gene1870	gene1870	SACOL1905	gi 57650036 ref NC_002951.2 :1960361-1960985	MVR	MR150	OK	14.4675	19.4945	0.430244	-0.630195	0.52857	0.999883
gene1871	gene1871	SACOL1906	gi 57650036 ref NC_002951.2 :1961006-1962119	MVR	MR150	OK	13.2222	14.4251	0.125612	-0.183838	0.85414	0.999883
gene1872	gene1872	SACOL1907	gi 57650036 ref NC_002951.2 :1962281-1963103	MVR	MR150	OK	78.8097	73.3555	-0.103469	0.136909	0.8911	0.999883
gene1873	gene1873	fumC	gi 57650036 ref NC_002951.2 :1963565-1964951	MVR	MR150	OK	196.744	198.224	0.0108083	-0.011953	0.99046	0.999883
gene1874	gene1874	SACOL1909	gi 57650036 ref NC_002951.2 :1965146-1965542	MVR	MR150	OK	41.641	41.107	-0.0186202	0.027358	0.97817	0.999883
gene1875	gene1875	SACOL1910	gi 57650036 ref NC_002951.2 :1965660-1966023	MVR	MR150	OK	0.80456	1.84801	1.19969	-0.764028	0.44485	0.999883
gene1876	gene1876	SACOL1911	gi 57650036 ref NC_002951.2 :1966318-1966471	MVR	MR150	OK	698.883	569.717	-0.294805	0.422492	0.67267	0.999883
gene1877	gene1877	SACOL1912	gi 57650036 ref NC_002951.2 :1966495-1967095	MVR	MR150	OK	105.859	114.029	0.10725	-0.143124	0.88619	0.999883
gene1878	gene1878	SACOL1913	gi 57650036 ref NC_002951.2 :1967253-1967724	MVR	MR150	OK	21.9284	20.8739	-0.0711033	0.103585	0.9175	0.999883
gene1879	gene1879	SACOL1914	gi 57650036 ref NC_002951.2 :1967728-1968856	MVR	MR150	OK	33.8335	35.9751	0.0885478	-0.121786	0.90307	0.999883
gene188	gene188	SACOL0194	gi 57650036 ref NC_002951.2 :227787-229056	MVR	MR150	OK	2.91017	1.28938	-1.17442	1.55435	0.1201	0.688173
gene1880	gene1880	SACOL1915	gi 57650036 ref NC_002951.2 :1969006-1971179	MVR	MR150	OK	26.3969	27.204	0.04345	-0.036483	0.9709	0.999883
gene1881	gene1881	SACOL1916	gi 57650036 ref NC_002951.2 :1969006-1971179	MVR	MR150	OK	17.394	18.5056	0.0893714	-0.095317	0.92406	0.999883
gene1882	gene1882	SACOL1917	gi 57650036 ref NC_002951.2 :1971436-1972498	MVR	MR150	OK	49.4772	47.7887	-0.050095	0.067063	0.94653	0.999883
gene1883	gene1883	SACOL1918	gi 57650036 ref NC_002951.2 :1972990-1974310	MVR	MR150	OK	1.01386	0.13674	-2.89032	2.21372	0.02685	0.309278
gene1884	gene1884	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974496-1974580	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1885	gene1885	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974796-1974871	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1886	gene1886	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974878-1974952	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1887	gene1887	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974957-1975029	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1888	gene1888	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975040-1975113	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1889	gene1889	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975115-1975189	MVR	MR150	NOTEST	0	0	0	0	1	1

gene189	gene189	SACOL0195	gi 57650036 ref NC_002951.2 :229057-229897	MVR	MR150	OK	2.65784	1.43544	-0.888761	1.08692	0.27707	0.9631
gene1890	gene1890	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975204-1975285	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1891	gene1891	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975290-1975366	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1892	gene1892	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975373-1975446	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1893	gene1893	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975464-1975540	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1894	gene1894	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975549-1975623	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1896	gene1896	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975768-1975844	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1898	gene1898	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1975953-1976027	MVR	MR150	NOTEST	0	0	0	0	1	1
gene19	gene19	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :24259-24332	MVR	MR150	NOTEST	0	0	0	0	1	1
gene190	gene190	SACOL0196	gi 57650036 ref NC_002951.2 :229970-231047	MVR	MR150	OK	2.46808	1.74616	-0.499203	0.654495	0.51279	0.999883
gene1905	gene1905	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976595-1976677	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1906	gene1906	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976680-1976756	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1907	gene1907	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976761-1976837	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1908	gene1908	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1976853-1976929	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1909	gene1909	rrfD	gi 57650036 ref NC_002951.2 :1976940-1977055	MVR	MR150	OK	776204	277239	-1.48531	1.71176	0.08694	0.59079
gene191	gene191	SACOL0197	gi 57650036 ref NC_002951.2 :231071-232112	MVR	MR150	OK	2.43364	1.63878	-0.570489	0.738281	0.46034	0.999883
gene1910	gene1910	rrlD	gi 57650036 ref NC_002951.2 :1977127-1980050	MVR	MR150	HIDATA	0	36607.2	0	0	1	1
gene1913	gene1913	rrsD	gi 57650036 ref NC_002951.2 :1980523-1982078	MVR	MR150	OK	10090.9	14328.8	0.505859	-0.713496	0.47554	0.999883
gene1914	gene1914	SACOL1919	gi 57650036 ref NC_002951.2 :1982817-1983264	MVR	MR150	OK	805.323	877.637	0.124056	-0.139375	0.88915	0.999883
gene1915	gene1915	SACOL1920	gi 57650036 ref NC_002951.2 :1983360-1984311	MVR	MR150	OK	38.1263	38.9444	0.0306288	-0.042626	0.966	0.999883
gene1916	gene1916	bcp	gi 57650036 ref NC_002951.2 :1984316-1984772	MVR	MR150	OK	77.7159	60.2925	-0.366231	0.530158	0.596	0.999883
gene1917	gene1917	hemL2	gi 57650036 ref NC_002951.2 :1984852-1986142	MVR	MR150	OK	88.4933	100.602	0.185018	-0.223954	0.82279	0.999883
gene1918	gene1918	SACOL1923	gi 57650036 ref NC_002951.2 :1986434-1987529	MVR	MR150	OK	40.0162	40.8942	0.0313109	-0.042564	0.96605	0.999883
gene1919	gene1919	SACOL1924	gi 57650036 ref NC_002951.2 :1987719-1989456	MVR	MR150	OK	20.2949	15.4462	-0.393865	0.550636	0.58188	0.999883
gene192	gene192	SACOL0198	gi 57650036 ref NC_002951.2 :232166-233135	MVR	MR150	OK	2.90423	1.99127	-0.544464	0.715059	0.47457	0.999883
gene1920	gene1920	SACOL1925	gi 57650036 ref NC_002951.2 :1989746-1990289	MVR	MR150	OK	58.41	64.2426	0.137314	-0.196644	0.84411	0.999883
gene1921	gene1921	mutY	gi 57650036 ref NC_002951.2 :1990590-1991628	MVR	MR150	OK	8.18991	10.4161	0.346896	-0.509263	0.61057	0.999883
gene1922	gene1922	SACOL1927	gi 57650036 ref NC_002951.2 :1991779-1992757	MVR	MR150	OK	126.571	165.726	0.388852	-0.465769	0.64138	0.999883
gene1923	gene1923	SACOL1928	gi 57650036 ref NC_002951.2 :1993017-1993854	MVR	MR150	OK	32.7178	27.8825	-0.230718	0.331962	0.73992	0.999883
gene1924	gene1924	SACOL1929	gi 57650036 ref NC_002951.2 :1993862-1995380	MVR	MR150	OK	20.0227	24.752	0.305908	-0.424666	0.67108	0.999883
gene1925	gene1925	SACOL1930	gi 57650036 ref NC_002951.2 :1995394-1996505	MVR	MR150	OK	31.2126	34.0239	0.124421	-0.103649	0.91745	0.999883
gene1926	gene1926	recX	gi 57650036 ref NC_002951.2 :1995394-1996505	MVR	MR150	OK	12.8736	12.3676	-0.0578498	0.069634	0.94449	0.999883
gene1927	gene1927	SACOL1932	gi 57650036 ref NC_002951.2 :1996765-1997575	MVR	MR150	OK	70.6443	63.5027	-0.153757	0.206509	0.83639	0.999883

gene1928	gene1928	SACOL1933	gi 57650036 ref NC_002951.2 :1997915-1998431	MVR	MR150	OK	58.1717	66.8126	0.199805	-0.28725	0.77392	0.999883
gene1929	gene1929	SACOL1934	gi 57650036 ref NC_002951.2 :1998561-1998723	MVR	MR150	OK	12.8485	30.2084	1.23336	-0.785468	0.43218	0.999883
gene193	gene193	SACOL0199	gi 57650036 ref NC_002951.2 :233495-234068	MVR	MR150	OK	3.85102	4.51339	0.228968	-0.292283	0.77007	0.999883
gene1930	gene1930	SACOL1935	gi 57650036 ref NC_002951.2 :1998946-2000098	MVR	MR150	OK	13.2969	12.7083	-0.0653191	0.095653	0.9238	0.999883
gene1931	gene1931	SACOL1936	gi 57650036 ref NC_002951.2 :2000357-2000888	MVR	MR150	OK	89.0195	78.123	-0.188374	0.263888	0.79187	0.999883
gene1932	gene1932	pepS	gi 57650036 ref NC_002951.2 :2000977-2002234	MVR	MR150	OK	40.9324	34.7737	-0.235247	0.316483	0.75164	0.999883
gene1933	gene1933	SACOL1938	gi 57650036 ref NC_002951.2 :2002236-2002443	MVR	MR150	OK	17.584	25.9997	0.56423	-0.609719	0.54205	0.999883
gene1934	gene1934	SACOL1939	gi 57650036 ref NC_002951.2 :2002583-2003048	MVR	MR150	OK	42.5113	27.6884	-0.618566	0.908569	0.36358	0.999883
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	MVR	MR150	OK	256.905	187.863	-0.451554	0.651537	0.5147	0.999883
gene1936	gene1936	SACOL1941	gi 57650036 ref NC_002951.2 :2003607-2004825	MVR	MR150	OK	11.7082	10.5308	-0.152917	0.22436	0.82248	0.999883
gene1937	gene1937	vraR	gi 57650036 ref NC_002951.2 :2004940-2007301	MVR	MR150	OK	28.2201	25.6302	-0.138877	0.106753	0.91499	0.999883
gene1938	gene1938	vraS	gi 57650036 ref NC_002951.2 :2004940-2007301	MVR	MR150	OK	18.8274	18.6883	-0.0106937	0.009688	0.99227	0.999883
gene1939	gene1939	SACOL1944	gi 57650036 ref NC_002951.2 :2004940-2007301	MVR	MR150	OK	16.5121	17.6876	0.0992138	-0.065807	0.94753	0.999883
gene194	gene194	uhpT	gi 57650036 ref NC_002951.2 :234222-235602	MVR	MR150	OK	9.05602	8.04713	-0.170402	0.250417	0.80227	0.999883
gene1940	gene1940	SACOL1945	gi 57650036 ref NC_002951.2 :2007315-2007702	MVR	MR150	OK	9.095	5.6802	-0.679131	0.840894	0.40041	0.999883
gene1941	gene1941	SACOL1946	gi 57650036 ref NC_002951.2 :2007918-2008677	MVR	MR150	OK	97.5933	116.674	0.257631	-0.332822	0.73927	0.999883
gene1942	gene1942	SACOL1947	gi 57650036 ref NC_002951.2 :2009204-2010191	MVR	MR150	OK	9.0437	12.6474	0.483852	-0.710389	0.47746	0.999883
gene1943	gene1943	SACOL1948	gi 57650036 ref NC_002951.2 :2010621-2011035	MVR	MR150	OK	3.64439	0.71217	-2.35539	1.76432	0.07768	0.554396
gene1944	gene1944	SACOL1949	gi 57650036 ref NC_002951.2 :2011063-2011174	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1945	gene1945	SACOL1950	gi 57650036 ref NC_002951.2 :2011259-2011991	MVR	MR150	OK	69.4007	61.2957	-0.179166	0.24489	0.80654	0.999883
gene1946	gene1946	SACOL1951	gi 57650036 ref NC_002951.2 :2011992-2013306	MVR	MR150	OK	47.8065	48.2553	0.0134805	-0.017605	0.98595	0.999883
gene1947	gene1947	SACOL1952	gi 57650036 ref NC_002951.2 :2013597-2014098	MVR	MR150	OK	187.026	203.279	0.120217	-0.155912	0.8761	0.999883
gene1948	gene1948	SACOL1953	gi 57650036 ref NC_002951.2 :2014179-2014272	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1949	gene1949	SACOL1954	gi 57650036 ref NC_002951.2 :2014486-2015041	MVR	MR150	OK	57.8923	63.7994	0.140172	-0.200357	0.8412	0.999883
gene195	gene195	SACOL0201	gi 57650036 ref NC_002951.2 :235960-239233	MVR	MR150	OK	7.5408	6.84707	-0.139231	0.107273	0.91457	0.999883
gene1950	gene1950	dinP	gi 57650036 ref NC_002951.2 :2015108-2016179	MVR	MR150	OK	22.0938	22.8564	0.0489526	-0.070357	0.94391	0.999883
gene1951	gene1951	SACOL1956	gi 57650036 ref NC_002951.2 :2016425-2016956	MVR	MR150	OK	65.2429	52.2361	-0.320774	0.461829	0.6442	0.999883
gene1952	gene1952	SACOL1957	gi 57650036 ref NC_002951.2 :2017125-2018487	MVR	MR150	OK	11.2549	10.9396	-0.0409963	0.059965	0.95218	0.999883
gene1953	gene1953	SACOL1958	gi 57650036 ref NC_002951.2 :2018567-2019515	MVR	MR150	OK	39.5766	35.8251	-0.143675	0.200486	0.8411	0.999883
gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	MVR	MR150	OK	112.259	134.075	0.256211	-0.296646	0.76674	0.999883
gene1955	gene1955	gatA	gi 57650036 ref NC_002951.2 :2021723-2023181	MVR	MR150	OK	61.5188	79.6227	0.372152	-0.45883	0.64636	0.999883
gene1956	gene1956	gatC	gi 57650036 ref NC_002951.2 :2023182-2023485	MVR	MR150	OK	84.481	121.481	0.524034	-0.767798	0.44261	0.999883
gene1957	gene1957	SACOL1963	gi 57650036 ref NC_002951.2 :2023852-2025391	MVR	MR150	OK	124.445	123.764	-0.0079125	0.009063	0.99277	0.999883

gene1958	gene1958	camS	gi 57650036 ref NC_002951.2 :2025479-2026679	MVR	MR150	OK	90.9588	89.5905	-0.0218676	0.026897	0.97854	0.999883
gene1959	gene1959	ligA	gi 57650036 ref NC_002951.2 :2026691-2028695	MVR	MR150	OK	42.4213	45.1705	0.0905895	-0.113161	0.9099	0.999883
gene196	gene196	SACOL0202	gi 57650036 ref NC_002951.2 :235960-239233	MVR	MR150	OK	5.13347	4.06324	-0.337306	0.324581	0.7455	0.999883
gene1960	gene1960	pcrA	gi 57650036 ref NC_002951.2 :2028698-2031580	MVR	MR150	OK	32.2009	30.8195	-0.0632595	0.073807	0.94116	0.999883
gene1961	gene1961	SACOL1967	gi 57650036 ref NC_002951.2 :2028698-2031580	MVR	MR150	OK	19.4465	22.047	0.181068	-0.084525	0.93264	0.999883
gene1962	gene1962	SACOL1968	gi 57650036 ref NC_002951.2 :2031751-2032054	MVR	MR150	OK	220.385	162.895	-0.436083	0.626122	0.53124	0.999883
gene1963	gene1963	purB	gi 57650036 ref NC_002951.2 :2032162-2033458	MVR	MR150	OK	82.1061	61.7636	-0.410734	0.513854	0.60735	0.999883
gene1964	gene1964	sspB2	gi 57650036 ref NC_002951.2 :2034318-2035485	MVR	MR150	OK	1.61243	0.79185	-1.02593	1.21949	0.22266	0.894222
gene1965	gene1965	SACOL1971	gi 57650036 ref NC_002951.2 :2035515-2035842	MVR	MR150	OK	6.63535	2.31506	-1.51912	1.45824	0.14478	0.743774
gene1966	gene1966	SACOL1972	gi 57650036 ref NC_002951.2 :2036133-2036890	MVR	MR150	OK	85.9305	78.5602	-0.129373	0.044382	0.9646	0.999883
gene1967	gene1967	SACOL1973	gi 57650036 ref NC_002951.2 :2036133-2036890	MVR	MR150	OK	48.1163	52.0328	0.112894	-0.156703	0.87548	0.999883
gene1968	gene1968	nadE	gi 57650036 ref NC_002951.2 :2037160-2039444	MVR	MR150	OK	50.6494	60.309	0.251828	-0.183658	0.85428	0.999883
gene1969	gene1969	SACOL1975	gi 57650036 ref NC_002951.2 :2037160-2039444	MVR	MR150	OK	48.1591	48.2389	0.00238737	-0.002335	0.99814	0.999883
gene197	gene197	SACOL0203	gi 57650036 ref NC_002951.2 :235960-239233	MVR	MR150	OK	4.86654	5.57556	0.19622	-0.150926	0.88003	0.999883
gene1970	gene1970	SACOL1976	gi 57650036 ref NC_002951.2 :2039627-2040704	MVR	MR150	OK	27.8344	26.5416	-0.0686149	0.097207	0.92256	0.999883
gene1971	gene1971	pheA	gi 57650036 ref NC_002951.2 :2040723-2041518	MVR	MR150	OK	29.696	35.5105	0.257976	-0.370911	0.7107	0.999883
gene1972	gene1972	SACOL1978	gi 57650036 ref NC_002951.2 :2041542-2041665	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1973	gene1973	SACOL1979	gi 57650036 ref NC_002951.2 :2041707-2043270	MVR	MR150	OK	90.5471	94.2792	0.0582709	-0.068838	0.94512	0.999883
gene1974	gene1974	SACOL1980	gi 57650036 ref NC_002951.2 :2043474-2044572	MVR	MR150	OK	6.75801	7.16243	0.0838518	-0.122608	0.90242	0.999883
gene1975	gene1975	SACOL1981	gi 57650036 ref NC_002951.2 :2044943-2045504	MVR	MR150	OK	54.4392	55.1102	0.0176748	-0.025416	0.97972	0.999883
gene1976	gene1976	ppaC	gi 57650036 ref NC_002951.2 :2045556-2046486	MVR	MR150	OK	199.033	224.443	0.173342	-0.200317	0.84123	0.999883
gene1977	gene1977	SACOL1983	gi 57650036 ref NC_002951.2 :2046680-2046854	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1978	gene1978	aldA2	gi 57650036 ref NC_002951.2 :2046905-2048285	MVR	MR150	OK	108.571	121.745	0.165227	-0.193562	0.84652	0.999883
gene1979	gene1979	SACOL1985	gi 57650036 ref NC_002951.2 :2048404-2049433	MVR	MR150	OK	23.682	19.0263	-0.315795	0.45633	0.64815	0.999883
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	MVR	MR150	OK	17.1776	9.41471	-0.867544	1.21352	0.22493	0.89446
gene1980	gene1980	SACOL1986	gi 57650036 ref NC_002951.2 :2049702-2050104	MVR	MR150	OK	16.7841	24.1057	0.522279	-0.743407	0.45724	0.999883
gene1981	gene1981	SACOL1987	gi 57650036 ref NC_002951.2 :2050676-2050850	MVR	MR150	OK	1039.76	1001.64	-0.0538829	0.078405	0.93751	0.999883
gene1982	gene1982	SACOL1988	gi 57650036 ref NC_002951.2 :2051300-2052341	MVR	MR150	OK	13.4566	16.5699	0.300255	-0.439322	0.66043	0.999883
gene1983	gene1983	SACOL1989	gi 57650036 ref NC_002951.2 :2052397-2053794	MVR	MR150	OK	32.6842	44.7674	0.453855	-0.500919	0.61643	0.999883
gene1984	gene1984	SACOL1990	gi 57650036 ref NC_002951.2 :2052397-2053794	MVR	MR150	OK	31.1363	40.6098	0.383227	-0.301947	0.76269	0.999883
gene1985	gene1985	SACOL1991	gi 57650036 ref NC_002951.2 :2053853-2054378	MVR	MR150	OK	44.0324	42.8409	-0.0395771	0.057775	0.95393	0.999883
gene1986	gene1986	SACOL1992	gi 57650036 ref NC_002951.2 :2054498-2055062	MVR	MR150	OK	78.0199	92.0756	0.238977	-0.330882	0.74073	0.999883
gene1987	gene1987	SACOL1993	gi 57650036 ref NC_002951.2 :2055127-2057417	MVR	MR150	OK	17.8682	20.9412	0.228948	-0.196673	0.84408	0.999883

gene1988	gene1988	SACOL1994	gi 57650036 ref NC_002951.2 :2055127-2057417	MVR	MR150	OK	19.3711	20.2489	0.0639346	-0.062106	0.95048	0.999883
gene1989	gene1989	SACOL1995	gi 57650036 ref NC_002951.2 :2055127-2057417	MVR	MR150	OK	7.80362	8.2748	0.0845816	-0.04409	0.96483	0.999883
gene199	gene199	pflA	gi 57650036 ref NC_002951.2 :242092-242848	MVR	MR150	OK	13.9577	11.2897	-0.306046	0.448637	0.65369	0.999883
gene1990	gene1990	SACOL1996	gi 57650036 ref NC_002951.2 :2057417-2058691	MVR	MR150	OK	14.8576	17.7946	0.260234	-0.313572	0.75385	0.999883
gene1991	gene1991	SACOL1997	gi 57650036 ref NC_002951.2 :2057417-2058691	MVR	MR150	OK	23.8764	34.3219	0.523542	-0.418951	0.67525	0.999883
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1993	gene1993	SACOL1999	gi 57650036 ref NC_002951.2 :2059373-2059472	MVR	MR150	NOTEST	0	0	0	0	1	1
gene1994	gene1994	SACOL2000	gi 57650036 ref NC_002951.2 :2059671-2060958	MVR	MR150	OK	111.355	138.498	0.314697	-0.368925	0.71218	0.999883
gene1995	gene1995	map	gi 57650036 ref NC_002951.2 :2061281-2063337	MVR	MR150	OK	7.94976	5.52941	-0.523785	0.766165	0.44358	0.999883
gene1996	gene1996	hIb	gi 57650036 ref NC_002951.2 :2063725-2064718	MVR	MR150	OK	10.7982	9.26897	-0.220312	0.323733	0.74614	0.999883
gene1997	gene1997	SACOL2004	gi 57650036 ref NC_002951.2 :2064955-2065828	MVR	MR150	OK	1.98216	1.36509	-0.538075	0.645875	0.51836	0.999883
gene1998	gene1998	SACOL2006	gi 57650036 ref NC_002951.2 :2065993-2067049	MVR	MR150	OK	1.96805	0.3578	-2.45956	2.48541	0.01294	0.195099
gene1999	gene1999	SACOL2007	gi 57650036 ref NC_002951.2 :2067483-2068708	MVR	MR150	OK	5.84241	4.63178	-0.334996	0.486722	0.62646	0.999883
gene2	gene2	SACOL0003	gi 57650036 ref NC_002951.2 :3696-5051	MVR	MR150	OK	334.631	418.84	0.323827	-0.121	0.90369	0.999883
gene20	gene20	yycF	gi 57650036 ref NC_002951.2 :24951-25653	MVR	MR150	OK	103.598	97.8915	-0.0817403	0.107507	0.91439	0.999883
gene200	gene200	SACOL0206	gi 57650036 ref NC_002951.2 :242951-243146	MVR	MR150	OK	2.50546	0	-1.79769e+3(-1.79769e+	0.22252	0.89416	
gene2000	gene2000	SACOL2009	gi 57650036 ref NC_002951.2 :2069079-2069925	MVR	MR150	OK	1.88015	0	-1.79769e+3(-1.79769e+	0.00637	0.125174	
gene2001	gene2001	SACOL2010	gi 57650036 ref NC_002951.2 :2069986-2070898	MVR	MR150	OK	1.44488	0.64518	-1.16318	1.23901	0.21534	0.89416
gene2002	gene2002	SACOL2011	gi 57650036 ref NC_002951.2 :2071058-2072366	MVR	MR150	OK	6.47421	8.56987	0.404568	-0.594212	0.55237	0.999883
gene2003	gene2003	SACOL2012	gi 57650036 ref NC_002951.2 :2073218-2073662	MVR	MR150	OK	12.4072	11.8941	-0.0609241	0.084654	0.93254	0.999883
gene2004	gene2004	SACOL2013	gi 57650036 ref NC_002951.2 :2073767-2074205	MVR	MR150	OK	4.33817	3.84954	-0.172402	0.200642	0.84098	0.999883
gene2005	gene2005	SACOL2014	gi 57650036 ref NC_002951.2 :2074522-2075113	MVR	MR150	OK	4.45898	2.74011	-0.70248	0.874637	0.38177	0.999883
gene2006	gene2006	SACOL2015	gi 57650036 ref NC_002951.2 :2075454-2075929	MVR	MR150	NOTEST	0.9284	0.556	-0.739652	0.492583	0.62231	1
gene2007	gene2007	groEL	gi 57650036 ref NC_002951.2 :2076023-2077640	MVR	MR150	OK	61.2161	121.925	0.994013	-1.17808	0.23877	0.9107
gene2008	gene2008	groES	gi 57650036 ref NC_002951.2 :2077715-2078000	MVR	MR150	OK	16.4148	36.8713	1.1675	-1.55032	0.12106	0.691506
gene2009	gene2009	SACOL2018	gi 57650036 ref NC_002951.2 :2078174-2078918	MVR	MR150	OK	29.2338	33.4901	0.196096	-0.283932	0.77646	0.999883
gene201	gene201	SACOL0207	gi 57650036 ref NC_002951.2 :243183-244947	MVR	MR150	OK	4.44358	4.79871	0.110926	-0.162804	0.87067	0.999883
gene2010	gene2010	SACOL2019	gi 57650036 ref NC_002951.2 :2078942-2080202	MVR	MR150	OK	85.5794	79.0309	-0.114847	0.141845	0.8872	0.999883
gene2011	gene2011	SACOL2020	gi 57650036 ref NC_002951.2 :2080398-2081025	MVR	MR150	OK	92.9774	112.202	0.271153	-0.362096	0.71728	0.999883
gene2012	gene2012	SACOL2021	gi 57650036 ref NC_002951.2 :2081385-2082171	MVR	MR150	OK	46.8176	64.7954	0.468841	-0.645022	0.51891	0.999883
gene2013	gene2013	hIb	gi 57650036 ref NC_002951.2 :2082767-2082902	MVR	MR150	OK	100.672	335.279	1.73571	-1.52542	0.12715	0.707854
gene2014	gene2014	agrB	gi 57650036 ref NC_002951.2 :2083137-2083844	MVR	MR150	OK	101.836	111.68	0.133125	-0.179399	0.85763	0.999883
gene2015	gene2015	agrD	gi 57650036 ref NC_002951.2 :2083137-2083844	MVR	MR150	OK	17.282	44.9172	1.378	-0.088761	0.92927	0.999883

gene2016	gene2016	argC2	gi 57650036 ref NC_002951.2 :2083868-2085161	MVR	MR150	OK	41.4691	49.3222	0.2502	-0.329297	0.74193	0.999883
gene2017	gene2017	agrA	gi 57650036 ref NC_002951.2 :2085179-2085896	MVR	MR150	OK	86.3352	105.417	0.288093	-0.379702	0.70417	0.999883
gene2018	gene2018	SACOL2028	gi 57650036 ref NC_002951.2 :2086262-2088703	MVR	MR150	OK	36.2302	39.6924	0.131671	-0.109221	0.91303	0.999883
gene2019	gene2019	cscA	gi 57650036 ref NC_002951.2 :2086262-2088703	MVR	MR150	OK	29.6371	30.751	0.0532269	-0.051383	0.95902	0.999883
gene202	gene202	SACOL0208	gi 57650036 ref NC_002951.2 :245110-245455	MVR	MR150	OK	4.96237	3.08696	-0.684841	0.698479	0.48488	0.999883
gene2020	gene2020	scrR	gi 57650036 ref NC_002951.2 :2088851-2089802	MVR	MR150	OK	41.022	40.1678	-0.0303584	0.04203	0.96648	0.999883
gene2021	gene2021	SACOL2031	gi 57650036 ref NC_002951.2 :2089984-2091235	MVR	MR150	OK	1.70836	1.31146	-0.381443	0.489449	0.62452	0.999883
gene2022	gene2022	SACOL2033	gi 57650036 ref NC_002951.2 :2091441-2091666	MVR	MR150	OK	5.74352	12.7327	1.14854	-0.991807	0.32129	0.999883
gene2023	gene2023	SACOL2034	gi 57650036 ref NC_002951.2 :2091725-2092805	MVR	MR150	OK	3.68915	2.78433	-0.405955	0.56262	0.57369	0.999883
gene2024	gene2024	SACOL2035	gi 57650036 ref NC_002951.2 :2093108-2093744	MVR	MR150	OK	78.3212	91.6322	0.226451	-0.307615	0.75838	0.999883
gene2025	gene2025	SACOL2036	gi 57650036 ref NC_002951.2 :2093996-2095925	MVR	MR150	OK	11.6292	11.9595	0.0404071	-0.057901	0.95383	0.999883
gene2026	gene2026	SACOL2037	gi 57650036 ref NC_002951.2 :2096286-2097897	MVR	MR150	OK	4.97582	5.53601	0.153913	-0.22597	0.82123	0.999883
gene2027	gene2027	SACOL2038	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	MR150	OK	28.583	38.9324	0.445812	-0.472604	0.6365	0.999883
gene2028	gene2028	SACOL2039	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	MR150	OK	21.7387	27.6884	0.349013	-0.17707	0.85945	0.999883
gene2029	gene2029	SACOL2040	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	MR150	OK	11.852	17.5231	0.564122	-0.29268	0.76977	0.999883
gene203	gene203	SACOL0209	gi 57650036 ref NC_002951.2 :245644-247555	MVR	MR150	OK	0.9361	1.87994	1.00595	-1.35129	0.1766	0.821477
gene2030	gene2030	SACOL2041	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	MR150	OK	12.6431	14.9423	0.241054	-0.085944	0.93151	0.999883
gene2031	gene2031	ilvD	gi 57650036 ref NC_002951.2 :2101068-2102757	MVR	MR150	OK	3.63302	2.77734	-0.387464	0.559568	0.57577	0.999883
gene2032	gene2032	ilvB	gi 57650036 ref NC_002951.2 :2102784-2104808	MVR	MR150	OK	4.57766	2.92676	-0.645306	0.920372	0.35738	0.999883
gene2033	gene2033	SACOL2044	gi 57650036 ref NC_002951.2 :2102784-2104808	MVR	MR150	OK	9.67064	0	-1.79769e+31	-1.79769e+31	0.20473	0.877017
gene2034	gene2034	ilvC	gi 57650036 ref NC_002951.2 :2104944-2105949	MVR	MR150	OK	4.11817	5.13611	0.318673	-0.452598	0.65084	0.999883
gene2035	gene2035	leuA	gi 57650036 ref NC_002951.2 :2105978-2107508	MVR	MR150	OK	4.79175	3.80022	-0.334469	0.487275	0.62606	0.999883
gene2036	gene2036	leuB	gi 57650036 ref NC_002951.2 :2107510-2108557	MVR	MR150	OK	5.40025	4.70074	-0.200138	0.28734	0.77385	0.999883
gene2037	gene2037	leuC	gi 57650036 ref NC_002951.2 :2108570-2109941	MVR	MR150	OK	3.87517	2.87737	-0.42951	0.612645	0.54011	0.999883
gene2038	gene2038	leuD	gi 57650036 ref NC_002951.2 :2109941-2110514	MVR	MR150	OK	3.68359	3.69277	0.00359203	-0.004493	0.99642	0.999883
gene2039	gene2039	ilvA2	gi 57650036 ref NC_002951.2 :2110528-2111797	MVR	MR150	OK	3.86157	4.01141	0.0549226	-0.078803	0.93719	0.999883
gene204	gene204	SACOL0210	gi 57650036 ref NC_002951.2 :248020-249342	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2040	gene2040	rrfE	gi 57650036 ref NC_002951.2 :2112006-2112121	MVR	MR150	OK	867420	414494	-1.06538	1.19461	0.23224	0.902162
gene2041	gene2041	rrfE	gi 57650036 ref NC_002951.2 :2112193-2115116	MVR	MR150	HIDATA	0	44241.6	0	0	1	1
gene2042	gene2042	rrsE	gi 57650036 ref NC_002951.2 :2115662-2117217	MVR	MR150	OK	11237.5	16702.6	0.571748	-0.830336	0.40635	0.999883
gene2043	gene2043	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117334-2117408	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2044	gene2044	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117427-2117513	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2045	gene2045	SACOL2052	gi 57650036 ref NC_002951.2 :2118159-2120758	MVR	MR150	OK	22.312	26.863	0.267801	-0.093838	0.92524	0.999883

gene2046	gene2046	SACOL2053	gi 57650036 ref NC_002951.2 :2118159-2120758	MVR	MR150	OK	37.6681	34.1522	-0.141365	0.17008	0.86495	0.999883
gene2047	gene2047	rpoF	gi 57650036 ref NC_002951.2 :2121191-2122416	MVR	MR150	OK	104.005	111.006	0.0939921	-0.107832	0.91413	0.999883
gene2048	gene2048	rsbW	gi 57650036 ref NC_002951.2 :2121191-2122416	MVR	MR150	OK	42.1143	50.7905	0.270249	-0.140877	0.88797	0.999883
gene2049	gene2049	rsbV	gi 57650036 ref NC_002951.2 :2122417-2122744	MVR	MR150	OK	74.5201	69.4519	-0.101615	0.149427	0.88122	0.999883
gene205	gene205	SACOL0211	gi 57650036 ref NC_002951.2 :248020-249342	MVR	MR150	OK	121.224	145.216	0.26053	-0.303069	0.76184	0.999883
gene2050	gene2050	rsbU	gi 57650036 ref NC_002951.2 :2122863-2123865	MVR	MR150	OK	62.2361	62.6275	0.00904418	-0.011896	0.99051	0.999883
gene2051	gene2051	SACOL2058	gi 57650036 ref NC_002951.2 :2124214-2124744	MVR	MR150	OK	95.7431	96.0963	0.00531209	-0.007171	0.99428	0.999883
gene2052	gene2052	SACOL2059	gi 57650036 ref NC_002951.2 :2124214-2124744	MVR	MR150	OK	113.077	216.427	0.936571	-0.463078	0.64331	0.999883
gene2053	gene2053	alr	gi 57650036 ref NC_002951.2 :2124828-2125977	MVR	MR150	OK	63.7919	69.7132	0.128058	-0.16425	0.86953	0.999883
gene2054	gene2054	acpS	gi 57650036 ref NC_002951.2 :2126042-2126402	MVR	MR150	OK	45.4873	61.1078	0.425895	-0.624838	0.53208	0.999883
gene2055	gene2055	SACOL2062	gi 57650036 ref NC_002951.2 :2126405-2128939	MVR	MR150	OK	36.1575	40.961	0.179959	-0.08386	0.93317	0.999883
gene2056	gene2056	SACOL2063	gi 57650036 ref NC_002951.2 :2126405-2128939	MVR	MR150	OK	43.263	43.1599	-0.0034422	0.003745	0.99701	0.999883
gene2057	gene2057	SACOL2064	gi 57650036 ref NC_002951.2 :2126405-2128939	MVR	MR150	OK	29.3662	30.0374	0.0326038	-0.013007	0.98962	0.999883
gene2058	gene2058	SACOL2065	gi 57650036 ref NC_002951.2 :2129034-2129708	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2059	gene2059	kdpC	gi 57650036 ref NC_002951.2 :2129034-2129708	MVR	MR150	OK	14.2166	9.75027	-0.544062	0.778118	0.4365	0.999883
gene206	gene206	SACOL0212	gi 57650036 ref NC_002951.2 :249371-251633	MVR	MR150	OK	110.495	127.548	0.207053	-0.227892	0.81973	0.999883
gene2060	gene2060	kdpB	gi 57650036 ref NC_002951.2 :2129727-2131755	MVR	MR150	OK	2.95042	1.84343	-0.678526	0.972233	0.33094	0.999883
gene2061	gene2061	kdpA	gi 57650036 ref NC_002951.2 :2131773-2133450	MVR	MR150	OK	1.48936	0.5185	-1.52227	1.84892	0.06447	0.508201
gene2062	gene2062	kdpF	gi 57650036 ref NC_002951.2 :2133473-2133584	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2063	gene2063	kdpD	gi 57650036 ref NC_002951.2 :2133721-2137074	MVR	MR150	OK	2.11475	1.49566	-0.499702	0.647016	0.51762	0.999883
gene2064	gene2064	kdpE	gi 57650036 ref NC_002951.2 :2133721-2137074	MVR	MR150	OK	4.21142	0.92593	-2.18533	1.23801	0.21571	0.89416
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	MVR	MR150	OK	230.427	217.624	-0.0824719	0.089149	0.92896	0.999883
gene2066	gene2066	murF	gi 57650036 ref NC_002951.2 :2139479-2140838	MVR	MR150	OK	79.0441	76.7753	-0.0420161	0.051667	0.95879	0.999883
gene2067	gene2067	ddl	gi 57650036 ref NC_002951.2 :2140852-2141923	MVR	MR150	OK	87.5468	83.8653	-0.0619807	0.078014	0.93782	0.999883
gene2068	gene2068	ftsW	gi 57650036 ref NC_002951.2 :2142240-2143443	MVR	MR150	OK	58.2432	67.0302	0.202721	-0.260247	0.79467	0.999883
gene2069	gene2069	SACOL2076	gi 57650036 ref NC_002951.2 :2143706-2143844	MVR	MR150	OK	16790.5	19238	0.196319	-0.257495	0.7968	0.999883
gene207	gene207	SACOL0213	gi 57650036 ref NC_002951.2 :251818-253030	MVR	MR150	OK	122.114	143.764	0.235473	-0.276282	0.78233	0.999883
gene2070	gene2070	SACOL2077	gi 57650036 ref NC_002951.2 :2143971-2144181	MVR	MR150	OK	9.23386	0	-1.79769e+30	-1.79769e+30	0.04385	0.40838
gene2071	gene2071	SACOL2078	gi 57650036 ref NC_002951.2 :2144192-2144486	MVR	MR150	OK	4.61712	7.42357	0.68512	-0.698807	0.48467	0.999883
gene2072	gene2072	cls2	gi 57650036 ref NC_002951.2 :2144651-2146136	MVR	MR150	OK	19.1551	21.335	0.15549	-0.218479	0.82706	0.999883
gene2073	gene2073	SACOL2080	gi 57650036 ref NC_002951.2 :2146163-2146811	MVR	MR150	OK	20.9571	16.4009	-0.353662	0.519721	0.60326	0.999883
gene2074	gene2074	SACOL2081	gi 57650036 ref NC_002951.2 :2146985-2147078	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2075	gene2075	SACOL2082	gi 57650036 ref NC_002951.2 :2147623-2148496	MVR	MR150	OK	227.048	208.177	-0.125186	0.145536	0.88429	0.999883

gene2076	gene2076	thiE	gi 57650036 ref NC_002951.2 :2148581-2149223	MVR	MR150	OK	2.23763	2.07792	-0.106837	0.124336	0.90105	0.999883
gene2077	gene2077	thiM	gi 57650036 ref NC_002951.2 :2149224-2151512	MVR	MR150	OK	2.67646	1.29313	-1.04946	0.823484	0.41023	0.999883
gene2078	gene2078	thiD2	gi 57650036 ref NC_002951.2 :2149224-2151512	MVR	MR150	OK	3.46787	1.69855	-1.02974	0.96007	0.33702	0.999883
gene2079	gene2079	SACOL2086	gi 57650036 ref NC_002951.2 :2149224-2151512	MVR	MR150	OK	1.00367	1.87452	0.901233	-0.521045	0.60234	0.999883
gene208	gene208	SACOL0214	gi 57650036 ref NC_002951.2 :253141-254647	MVR	MR150	OK	130.43	146.358	0.166222	-0.18875	0.85029	0.999883
gene2080	gene2080	SACOL2088	gi 57650036 ref NC_002951.2 :2151897-2152593	MVR	MR150	OK	20.4378	32.4076	0.665094	-0.971189	0.33145	0.999883
gene2081	gene2081	SACOL2089	gi 57650036 ref NC_002951.2 :2152981-2153377	MVR	MR150	OK	5.33004	2.32681	-1.19579	1.26691	0.20519	0.877103
gene2082	gene2082	ywpF	gi 57650036 ref NC_002951.2 :2153570-2154011	MVR	MR150	OK	41.7322	25.9819	-0.683653	1.0028	0.31596	0.999465
gene2083	gene2083	fabZ	gi 57650036 ref NC_002951.2 :2154069-2154510	MVR	MR150	OK	75.7065	86.8176	0.197571	-0.284294	0.77619	0.999883
gene2084	gene2084	murAA	gi 57650036 ref NC_002951.2 :2154543-2155809	MVR	MR150	OK	59.2128	63.0701	0.0910484	-0.116387	0.90735	0.999883
gene2085	gene2085	SACOL2093	gi 57650036 ref NC_002951.2 :2155919-2156153	MVR	MR150	OK	147.327	139.741	-0.0762748	0.111963	0.91085	0.999883
gene2086	gene2086	atpC	gi 57650036 ref NC_002951.2 :2156714-2157119	MVR	MR150	OK	389.945	369.814	-0.0764712	0.096193	0.92337	0.999883
gene2087	gene2087	atpD	gi 57650036 ref NC_002951.2 :2157138-2158551	MVR	MR150	OK	215.593	201.01	-0.101043	0.11092	0.91168	0.999883
gene2088	gene2088	atpG	gi 57650036 ref NC_002951.2 :2158572-2159439	MVR	MR150	OK	187.516	191.913	0.0334429	-0.039528	0.96847	0.999883
gene2089	gene2089	atpA	gi 57650036 ref NC_002951.2 :2159469-2160978	MVR	MR150	OK	202.585	216.343	0.0947928	-0.103226	0.91778	0.999883
gene209	gene209	SACOL0215	gi 57650036 ref NC_002951.2 :254672-256244	MVR	MR150	OK	302.89	317.264	0.0668914	-0.070037	0.94417	0.999883
gene2090	gene2090	atpH	gi 57650036 ref NC_002951.2 :2160999-2162060	MVR	MR150	OK	151.746	175.522	0.209993	-0.189136	0.84999	0.999883
gene2091	gene2091	atpF	gi 57650036 ref NC_002951.2 :2160999-2162060	MVR	MR150	OK	139.489	144.922	0.055118	-0.045024	0.96409	0.999883
gene2092	gene2092	atpE	gi 57650036 ref NC_002951.2 :2162257-2162470	MVR	MR150	OK	568.551	534.947	-0.0878951	0.12601	0.89972	0.999883
gene2093	gene2093	atpB	gi 57650036 ref NC_002951.2 :2162512-2163241	MVR	MR150	OK	232.709	226.314	-0.0402039	0.047777	0.96189	0.999883
gene2094	gene2094	SACOL2102	gi 57650036 ref NC_002951.2 :2163261-2163615	MVR	MR150	OK	175.327	195.762	0.159052	-0.222189	0.82417	0.999883
gene2095	gene2095	SACOL2103	gi 57650036 ref NC_002951.2 :2163781-2164909	MVR	MR150	OK	158.623	156.937	-0.0154112	0.017905	0.98572	0.999883
gene2096	gene2096	upp	gi 57650036 ref NC_002951.2 :2164932-2165562	MVR	MR150	OK	108.273	94.6895	-0.193399	0.258272	0.7962	0.999883
gene2097	gene2097	glyA	gi 57650036 ref NC_002951.2 :2165589-2166828	MVR	MR150	OK	172.567	167.446	-0.0434616	0.049475	0.96054	0.999883
gene2098	gene2098	SACOL2106	gi 57650036 ref NC_002951.2 :2166854-2167379	MVR	MR150	OK	97.3756	113.458	0.220523	-0.302292	0.76243	0.999883
gene2099	gene2099	SACOL2107	gi 57650036 ref NC_002951.2 :2167485-2168957	MVR	MR150	OK	27.427	33.9653	0.308465	-0.27072	0.78661	0.999883
gene21	gene21	yycG	gi 57650036 ref NC_002951.2 :25665-28819	MVR	MR150	OK	99.6093	114.382	0.19951	-0.16852	0.86618	0.999883
gene210	gene210	SACOL0216	gi 57650036 ref NC_002951.2 :256690-257833	MVR	MR150	OK	9.4817	9.41917	-0.0095456	0.014038	0.9888	0.999883
gene2100	gene2100	SACOL2108	gi 57650036 ref NC_002951.2 :2167485-2168957	MVR	MR150	OK	13.2141	12.3439	-0.0982706	0.112223	0.91065	0.999883
gene2101	gene2101	SACOL2109	gi 57650036 ref NC_002951.2 :2169031-2170931	MVR	MR150	OK	73.2574	76.4364	0.0612862	-0.053637	0.95723	0.999883
gene2102	gene2102	prfA	gi 57650036 ref NC_002951.2 :2169031-2170931	MVR	MR150	OK	51.7611	52.2101	0.0124624	-0.010694	0.99147	0.999883
gene2103	gene2103	tdk	gi 57650036 ref NC_002951.2 :2170931-2171531	MVR	MR150	OK	63.1114	62.754	-0.0081918	0.011567	0.99077	0.999883
gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	MVR	MR150	OK	659.538	700.567	0.0870684	-0.115684	0.9079	0.999883

gene2105	gene2105	rho	gi 57650036 ref NC_002951.2 :2172249-2173566	MVR	MR150	OK	139.441	132.586	-0.0727288	0.084137	0.93295	0.999883
gene2106	gene2106	SACOL2114	gi 57650036 ref NC_002951.2 :2173812-2175240	MVR	MR150	OK	41.3865	42.0309	0.022287	-0.029233	0.97668	0.999883
gene2107	gene2107	SACOL2115	gi 57650036 ref NC_002951.2 :2175477-2175813	MVR	MR150	OK	839.249	1077.9	0.361056	-0.426681	0.66961	0.999883
gene2108	gene2108	murAB	gi 57650036 ref NC_002951.2 :2175901-2177161	MVR	MR150	OK	77.2812	82.7874	0.0992943	-0.123045	0.90207	0.999883
gene2109	gene2109	fbaA	gi 57650036 ref NC_002951.2 :2177626-2178487	MVR	MR150	OK	213.607	194.581	-0.134588	0.157928	0.87451	0.999883
gene211	gene211	SACOL0217	gi 57650036 ref NC_002951.2 :258146-259622	MVR	MR150	OK	12.2857	14.4036	0.229449	-0.332075	0.73983	0.999883
gene2110	gene2110	SACOL2118	gi 57650036 ref NC_002951.2 :2178704-2179226	MVR	MR150	OK	22.9217	33.7359	0.557568	-0.818076	0.41331	0.999883
gene2111	gene2111	pyrG	gi 57650036 ref NC_002951.2 :2179334-2180945	MVR	MR150	OK	38.6259	40.706	0.075674	-0.09834	0.92166	0.999883
gene2112	gene2112	rpoE	gi 57650036 ref NC_002951.2 :2181280-2181811	MVR	MR150	OK	130.866	106.321	-0.299663	0.405095	0.68541	0.999883
gene2113	gene2113	SACOL2121	gi 57650036 ref NC_002951.2 :2181922-2182783	MVR	MR150	OK	30.4759	33.3567	0.130307	-0.186394	0.85214	0.999883
gene2114	gene2114	SACOL2122	gi 57650036 ref NC_002951.2 :2183206-2184010	MVR	MR150	OK	16.9364	21.0397	0.312988	-0.458957	0.64627	0.999883
gene2115	gene2115	SACOL2123	gi 57650036 ref NC_002951.2 :2184139-2184811	MVR	MR150	OK	38.3658	47.0272	0.293672	-0.421297	0.67354	0.999883
gene2116	gene2116	SACOL2124	gi 57650036 ref NC_002951.2 :2185209-2187587	MVR	MR150	OK	41.1786	48.0699	0.223241	-0.217673	0.82768	0.999883
gene2117	gene2117	SACOL2125	gi 57650036 ref NC_002951.2 :2185209-2187587	MVR	MR150	OK	30.9753	28.9188	-0.0991097	0.078802	0.93719	0.999883
gene2118	gene2118	luxS	gi 57650036 ref NC_002951.2 :2187897-2188368	MVR	MR150	OK	111.293	88.5729	-0.32942	0.462805	0.6435	0.999883
gene2119	gene2119	SACOL2127	gi 57650036 ref NC_002951.2 :2188519-2188870	MVR	MR150	OK	277.636	283.623	0.0307816	-0.041296	0.96706	0.999883
gene212	gene212	SACOL0218	gi 57650036 ref NC_002951.2 :259819-260176	MVR	MR150	OK	3.75796	6.69732	0.833635	-0.913484	0.36099	0.999883
gene2120	gene2120	pdp	gi 57650036 ref NC_002951.2 :2188883-2190185	MVR	MR150	OK	102.157	110.347	0.111266	-0.132617	0.8945	0.999883
gene2121	gene2121	deoC2	gi 57650036 ref NC_002951.2 :2190463-2191126	MVR	MR150	OK	68.8484	74.7211	0.118093	-0.162205	0.87114	0.999883
gene2122	gene2122	deoD	gi 57650036 ref NC_002951.2 :2191440-2192151	MVR	MR150	OK	107.927	124.33	0.204117	-0.264002	0.79178	0.999883
gene2123	gene2123	SACOL2131	gi 57650036 ref NC_002951.2 :2192271-2192715	MVR	MR150	OK	1579.41	2855.22	0.854218	-0.890471	0.37321	0.999883
gene2124	gene2124	SACOL2132	gi 57650036 ref NC_002951.2 :2192914-2193328	MVR	MR150	OK	4.85919	5.69732	0.229568	-0.274964	0.78334	0.999883
gene2125	gene2125	SACOL2133	gi 57650036 ref NC_002951.2 :2193785-2195159	MVR	MR150	OK	31.1748	36.2666	0.218261	-0.293908	0.76883	0.999883
gene2126	gene2126	SACOL2134	gi 57650036 ref NC_002951.2 :2195830-2196061	MVR	MR150	OK	23.6471	23.316	-0.0203428	0.024686	0.98031	0.999883
gene2127	gene2127	manA1	gi 57650036 ref NC_002951.2 :2196091-2197030	MVR	MR150	OK	34.1042	45.9999	0.431679	-0.599521	0.54883	0.999883
gene2128	gene2128	SACOL2136	gi 57650036 ref NC_002951.2 :2197464-2198130	MVR	MR150	OK	15.7397	10.1834	-0.62818	0.914935	0.36023	0.999883
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	MVR	MR150	OK	42.1089	62.7582	0.575678	-0.838655	0.40166	0.999883
gene213	gene213	SACOL0219	gi 57650036 ref NC_002951.2 :260332-260506	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2130	gene2130	SACOL2138	gi 57650036 ref NC_002951.2 :2198603-2199584	MVR	MR150	OK	32.4445	40.5863	0.323019	-0.450167	0.65259	0.999883
gene2131	gene2131	SACOL2139	gi 57650036 ref NC_002951.2 :2199793-2200941	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2132	gene2132	SACOL2140	gi 57650036 ref NC_002951.2 :2199793-2200941	MVR	MR150	OK	159.54	133.872	-0.253059	0.293476	0.76916	0.999883
gene2133	gene2133	SACOL2141	gi 57650036 ref NC_002951.2 :2201903-2202107	MVR	MR150	OK	6.21505	4.59906	-0.434425	0.271934	0.78567	0.999883
gene2134	gene2134	SACOL2142	gi 57650036 ref NC_002951.2 :2202165-2203302	MVR	MR150	OK	11.914	13.8923	0.221632	-0.324671	0.74543	0.999883

gene2135	gene2135	SACOL2143	gi 57650036 ref NC_002951.2 :2204387-2205257	MVR	MR150	OK	39.4652	43.4214	0.137826	-0.19262	0.84726	0.999883
gene2136	gene2136	SACOL2144	gi 57650036 ref NC_002951.2 :2205312-2206095	MVR	MR150	OK	7.11261	6.04016	-0.235793	0.335769	0.73705	0.999883
gene2137	gene2137	glmS	gi 57650036 ref NC_002951.2 :2206326-2208132	MVR	MR150	OK	30.3164	37.2906	0.298715	-0.38941	0.69697	0.999883
gene2138	gene2138	SACOL2146	gi 57650036 ref NC_002951.2 :2208812-2210351	MVR	MR150	OK	4.09182	2.40207	-0.768462	1.09903	0.27176	0.956024
gene2139	gene2139	SACOL2147	gi 57650036 ref NC_002951.2 :2210385-2212518	MVR	MR150	OK	4.62651	2.69422	-0.780059	1.14016	0.25422	0.932194
gene214	gene214	SACOL0220	gi 57650036 ref NC_002951.2 :260531-261677	MVR	MR150	OK	61.5257	72.0387	0.227582	-0.292007	0.77028	0.999883
gene2140	gene2140	SACOL2148	gi 57650036 ref NC_002951.2 :2212529-2214070	MVR	MR150	OK	10.4443	7.14632	-0.547442	0.39024	0.69636	0.999883
gene2141	gene2141	mtlD	gi 57650036 ref NC_002951.2 :2212529-2214070	MVR	MR150	OK	8.54356	5.74065	-0.573624	0.735931	0.46177	0.999883
gene2142	gene2142	fmtB	gi 57650036 ref NC_002951.2 :2214388-2221825	MVR	MR150	OK	2.4735	1.92633	-0.360701	0.523393	0.6007	0.999883
gene2143	gene2143	glmM	gi 57650036 ref NC_002951.2 :2222101-2223457	MVR	MR150	OK	97.9045	90.4881	-0.113648	0.136629	0.89132	0.999883
gene2144	gene2144	SACOL2152	gi 57650036 ref NC_002951.2 :2223483-2224416	MVR	MR150	OK	36.5371	35.0955	-0.0580763	0.081594	0.93497	0.999883
gene2145	gene2145	SACOL2153	gi 57650036 ref NC_002951.2 :2224417-2225227	MVR	MR150	OK	74.0369	75.0486	0.0195817	-0.026013	0.97925	0.999883
gene2146	gene2146	rocF	gi 57650036 ref NC_002951.2 :2225415-2226324	MVR	MR150	OK	239.278	247.069	0.0462248	-0.052785	0.9579	0.999883
gene2147	gene2147	SACOL2155	gi 57650036 ref NC_002951.2 :2226549-2227752	MVR	MR150	OK	1.01552	0.76344	-0.411633	0.471948	0.63696	0.999883
gene2149	gene2149	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228058-2228133	MVR	MR150	NOTEST	0	0	0	0	1	1
gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	MVR	MR150	OK	16.9822	6.90495	-1.29832	1.89336	0.05831	0.483937
gene2150	gene2150	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228142-2228226	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2151	gene2151	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228255-2228331	MVR	MR150	OK	0	#####	1.79769e+30	1.79769e+	0.10824	0.653986
gene2152	gene2152	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228338-2228410	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2153	gene2153	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228411-2228486	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2154	gene2154	rrfF	gi 57650036 ref NC_002951.2 :2228496-2228611	MVR	MR150	OK	863085	485395	-0.830344	0.923812	0.35558	0.999883
gene2155	gene2155	rrlF	gi 57650036 ref NC_002951.2 :2228683-2231606	MVR	MR150	HIDATA	0	51023.7	0	0	1	1
gene2156	gene2156	rrsF	gi 57650036 ref NC_002951.2 :2232152-2233707	MVR	MR150	OK	10681	15148.8	0.504166	-0.719857	0.47161	0.999883
gene2157	gene2157	SACOL2156	gi 57650036 ref NC_002951.2 :2234162-2235227	MVR	MR150	OK	240.941	300.786	0.320059	-0.354292	0.72312	0.999883
gene2158	gene2158	SACOL2157	gi 57650036 ref NC_002951.2 :2235374-2236817	MVR	MR150	OK	26.292	25.8754	-0.0230464	0.031684	0.97472	0.999883
gene2159	gene2159	SACOL2158	gi 57650036 ref NC_002951.2 :2237138-2237612	MVR	MR150	OK	106.253	116.626	0.134384	-0.186494	0.85206	0.999883
gene216	gene216	SACOL0223	gi 57650036 ref NC_002951.2 :263370-263496	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2160	gene2160	SACOL2159	gi 57650036 ref NC_002951.2 :2237710-2239054	MVR	MR150	OK	29.9209	25.5702	-0.226692	0.312427	0.75472	0.999883
gene2161	gene2161	SACOL2160	gi 57650036 ref NC_002951.2 :2239230-2239914	MVR	MR150	OK	138.914	154.982	0.157909	-0.200147	0.84137	0.999883
gene2162	gene2162	SACOL2161	gi 57650036 ref NC_002951.2 :2239932-2241120	MVR	MR150	OK	126.913	147.565	0.217514	-0.254974	0.79874	0.999883
gene2163	gene2163	SACOL2162	gi 57650036 ref NC_002951.2 :2241163-2241679	MVR	MR150	OK	124.14	144.761	0.221708	-0.297231	0.76629	0.999883
gene2164	gene2164	SACOL2163	gi 57650036 ref NC_002951.2 :2241856-2242117	MVR	MR150	OK	1523.48	2716.48	0.834366	-0.971361	0.33137	0.999883
gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	MVR	MR150	OK	70.263	74.4193	0.0829107	-0.102747	0.91816	0.999883

gene2166	gene2166	SACOL2165	gi 57650036 ref NC_002951.2 :2243854-2245851	MVR	MR150	OK	6.43639	8.96072	0.477362	-0.511924	0.6087	0.999883
gene2167	gene2167	SACOL2166	gi 57650036 ref NC_002951.2 :2243854-2245851	MVR	MR150	OK	6.80321	4.96951	-0.453113	0.441492	0.65886	0.999883
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	MVR	MR150	OK	28.2384	25.3915	-0.153315	0.219362	0.82637	0.999883
gene2169	gene2169	SACOL2168	gi 57650036 ref NC_002951.2 :2247237-2248308	MVR	MR150	OK	5.24728	3.69218	-0.507097	0.721804	0.47042	0.999883
gene217	gene217	SACOL0224	gi 57650036 ref NC_002951.2 :263522-265052	MVR	MR150	OK	2.73175	1.3819	-0.983171	1.34272	0.17936	0.824159
gene2170	gene2170	SACOL2169	gi 57650036 ref NC_002951.2 :2248314-2251252	MVR	MR150	OK	4.30844	4.71888	0.131277	-0.159594	0.8732	0.999883
gene2171	gene2171	SACOL2170	gi 57650036 ref NC_002951.2 :2248314-2251252	MVR	MR150	OK	4.40122	2.00291	-1.1358	0.876647	0.38068	0.999883
gene2172	gene2172	SACOL2171	gi 57650036 ref NC_002951.2 :2251353-2253330	MVR	MR150	OK	13.5463	15.6016	0.203794	-0.286405	0.77457	0.999883
gene2173	gene2173	SACOL2172	gi 57650036 ref NC_002951.2 :2253785-2255410	MVR	MR150	NOTEST	0.54271	0.32245	-0.7511	0.780063	0.43535	1
gene2174	gene2174	SACOL2173	gi 57650036 ref NC_002951.2 :2255445-2255955	MVR	MR150	OK	613.801	508.79	-0.270702	0.309675	0.75681	0.999883
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	MVR	MR150	OK	111.485	159.965	0.520903	-0.762523	0.44575	0.999883
gene2176	gene2176	SACOL2175	gi 57650036 ref NC_002951.2 :2256269-2256818	MVR	MR150	OK	99.038	95.149	-0.0577948	0.079296	0.9368	0.999883
gene2177	gene2177	opuD2	gi 57650036 ref NC_002951.2 :2256980-2258543	MVR	MR150	OK	26.0328	17.867	-0.543037	0.7532	0.45133	0.999883
gene2178	gene2178	SACOL2177	gi 57650036 ref NC_002951.2 :2258849-2259851	MVR	MR150	OK	20.8957	22.5306	0.108681	-0.157176	0.87511	0.999883
gene2179	gene2179	SACOL2178	gi 57650036 ref NC_002951.2 :2260084-2261086	MVR	MR150	OK	188.888	215.568	0.190614	-0.219101	0.82657	0.999883
gene218	gene218	SACOL0225	gi 57650036 ref NC_002951.2 :265413-266349	MVR	MR150	OK	10.6768	10.6106	-0.0089736	0.013186	0.98948	0.999883
gene2180	gene2180	SACOL2179	gi 57650036 ref NC_002951.2 :2261368-2262238	MVR	MR150	OK	54.3099	64.218	0.241762	-0.325733	0.74463	0.999883
gene2181	gene2181	lacG	gi 57650036 ref NC_002951.2 :2262503-2263916	MVR	MR150	OK	3.8367	3.66161	-0.0673864	0.097163	0.9226	0.999883
gene2182	gene2182	lacE	gi 57650036 ref NC_002951.2 :2263933-2265963	MVR	MR150	OK	1.95611	1.31083	-0.577505	0.771524	0.4404	0.999883
gene2183	gene2183	lacF	gi 57650036 ref NC_002951.2 :2263933-2265963	MVR	MR150	OK	0	1.2884	1.79769e+30	1.79769e+30	0.24727	0.921931
gene2184	gene2184	lacD	gi 57650036 ref NC_002951.2 :2265984-2266965	MVR	MR150	OK	2.00847	1.17641	-0.771699	0.938725	0.34787	0.999883
gene2185	gene2185	lacC	gi 57650036 ref NC_002951.2 :2266968-2267901	MVR	MR150	OK	2.30934	0.83561	-1.46659	1.697	0.0897	0.601607
gene2186	gene2186	lacB	gi 57650036 ref NC_002951.2 :2267913-2268429	MVR	MR150	OK	1.39932	0.48415	-1.5312	1.10469	0.26929	0.952424
gene2187	gene2187	SACOL2186	gi 57650036 ref NC_002951.2 :2268444-2268873	MVR	MR150	OK	1.97797	0.66642	-1.56952	1.13233	0.2575	0.935956
gene2188	gene2188	SACOL2187	gi 57650036 ref NC_002951.2 :2268887-2269004	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2189	gene2189	lacR	gi 57650036 ref NC_002951.2 :2269240-2269996	MVR	MR150	OK	15.4963	16.5216	0.0924263	-0.135904	0.8919	0.999883
gene219	gene219	SACOL0228	gi 57650036 ref NC_002951.2 :266687-269236	MVR	MR150	OK	1.90491	0.32298	-2.5602	2.8262	0.00471	0.101483
gene2190	gene2190	SACOL2189	gi 57650036 ref NC_002951.2 :2270246-2270978	MVR	MR150	OK	19.2204	21.2952	0.147888	-0.217163	0.82808	0.999883
gene2191	gene2191	SACOL2190	gi 57650036 ref NC_002951.2 :2271268-2271877	MVR	MR150	NOTEST	0.91092	0.74847	-0.283382	0.24919	0.80321	1
gene2192	gene2192	SACOL2191	gi 57650036 ref NC_002951.2 :2272138-2272264	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2193	gene2193	SACOL2192	gi 57650036 ref NC_002951.2 :2272483-2273332	MVR	MR150	OK	77.5584	80.9221	0.0612497	-0.080373	0.93594	0.999883
gene2194	gene2194	SACOL2193	gi 57650036 ref NC_002951.2 :2273401-2273818	MVR	MR150	OK	5.08722	3.51272	-0.534287	0.612575	0.54016	0.999883
gene2195	gene2195	hysA	gi 57650036 ref NC_002951.2 :2274225-2276649	MVR	MR150	OK	1.43569	0.551	-1.38162	1.80969	0.07034	0.522414

gene2196	gene2196	SACOL2195	gi 57650036 ref NC_002951.2 :2276708-2277563	MVR	MR150	OK	16.7728	21.9739	0.389665	-0.569989	0.56869	0.999883
gene2197	gene2197	SACOL2196	gi 57650036 ref NC_002951.2 :2277773-2278589	MVR	MR150	OK	11.7535	10.9364	-0.103954	0.152442	0.87884	0.999883
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	MVR	MR150	OK	10.6033	8.77649	-0.272804	0.365617	0.71465	0.999883
gene2199	gene2199	budA1	gi 57650036 ref NC_002951.2 :2279671-2280376	MVR	MR150	OK	2.43098	1.81889	-0.418486	0.498064	0.61844	0.999883
gene22	gene22	yych	gi 57650036 ref NC_002951.2 :25665-28819	MVR	MR150	OK	98.0174	100.663	0.0384191	-0.026094	0.97918	0.999883
gene220	gene220	SACOL0229	gi 57650036 ref NC_002951.2 :266687-269236	MVR	MR150	NOTEST	0.95453	0.57043	-0.742735	0.283112	0.77709	1
gene2200	gene2200	budB	gi 57650036 ref NC_002951.2 :2280412-2282077	MVR	MR150	OK	3.89645	3.34557	-0.219908	0.319533	0.74932	0.999883
gene2201	gene2201	SACOL2200	gi 57650036 ref NC_002951.2 :2282356-2282452	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2202	gene2202	SACOL2201	gi 57650036 ref NC_002951.2 :2283266-2283866	MVR	MR150	OK	7.77234	16.4538	1.082	-1.54545	0.12224	0.695472
gene2203	gene2203	SACOL2202	gi 57650036 ref NC_002951.2 :2283898-2284672	MVR	MR150	OK	6.6974	9.33557	0.479136	-0.689177	0.49071	0.999883
gene2204	gene2204	SACOL2203	gi 57650036 ref NC_002951.2 :2284800-2285937	MVR	MR150	OK	12.4264	12.7482	0.0368891	-0.054081	0.95687	0.999883
gene2205	gene2205	SACOL2204	gi 57650036 ref NC_002951.2 :2285937-2286729	MVR	MR150	OK	16.4705	15.5175	-0.0859856	0.126437	0.89939	0.999883
gene2206	gene2206	SACOL2205	gi 57650036 ref NC_002951.2 :2286768-2288129	MVR	MR150	OK	2.57187	1.58299	-0.700169	0.94837	0.34294	0.999883
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	MVR	MR150	OK	651.818	726.849	0.157186	-0.184809	0.85338	0.999883
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	MVR	MR150	OK	178.136	225.198	0.338213	-0.448417	0.65385	0.999883
gene2209	gene2209	truA	gi 57650036 ref NC_002951.2 :2289762-2290566	MVR	MR150	OK	18.6502	19.2653	0.0468125	-0.068679	0.94525	0.999883
gene221	gene221	SACOL0230	gi 57650036 ref NC_002951.2 :269258-269537	MVR	MR150	OK	4.52567	1.69174	-1.41962	1.01027	0.31237	0.994118
gene2210	gene2210	SACOL2209	gi 57650036 ref NC_002951.2 :2290570-2293033	MVR	MR150	OK	24.6722	24.7194	0.00275771	-0.002044	0.99837	0.999883
gene2211	gene2211	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	MVR	MR150	OK	20.7456	28.0289	0.434106	-0.332933	0.73919	0.999883
gene2212	gene2212	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	MVR	MR150	OK	24.2466	29.8688	0.300861	-0.234089	0.81492	0.999883
gene2213	gene2213	rplQ	gi 57650036 ref NC_002951.2 :2293570-2293939	MVR	MR150	OK	159.832	159.892	0.00053984	-0.000759	0.9994	0.999883
gene2214	gene2214	rpoA	gi 57650036 ref NC_002951.2 :2293955-2294900	MVR	MR150	OK	214.035	196.701	-0.121842	0.140937	0.88792	0.999883
gene2215	gene2215	rpsK	gi 57650036 ref NC_002951.2 :2294974-2295364	MVR	MR150	OK	196.129	218.972	0.158942	-0.214999	0.82977	0.999883
gene2216	gene2216	rpsM	gi 57650036 ref NC_002951.2 :2295387-2295753	MVR	MR150	OK	141.015	142.617	0.0162921	-0.023166	0.98152	0.999883
gene2217	gene2217	rpmJ	gi 57650036 ref NC_002951.2 :2295775-2295889	MVR	MR150	OK	804.75	2081.26	1.37085	-1.18378	0.2365	0.90647
gene2218	gene2218	infA	gi 57650036 ref NC_002951.2 :2295920-2296139	MVR	MR150	OK	176.863	237.941	0.427972	-0.627794	0.53014	0.999883
gene2219	gene2219	adk	gi 57650036 ref NC_002951.2 :2296331-2296979	MVR	MR150	OK	182.547	175.968	-0.0529561	0.066182	0.94723	0.999883
gene222	gene222	SACOL0231	gi 57650036 ref NC_002951.2 :269601-269736	MVR	MR150	OK	25.1679	0	-1.79769e+3(-1.79769e+	0.22252	0.89416	
gene2220	gene2220	secY	gi 57650036 ref NC_002951.2 :2296995-2298728	MVR	MR150	OK	285.524	282.762	-0.0140251	0.012878	0.98973	0.999883
gene2221	gene2221	rplO	gi 57650036 ref NC_002951.2 :2296995-2298728	MVR	MR150	OK	390.838	352.974	-0.14701	0.072153	0.94248	0.999883
gene2222	gene2222	rpmD	gi 57650036 ref NC_002951.2 :2298744-2298924	MVR	MR150	OK	474.577	739.213	0.639348	-0.936161	0.34919	0.999883
gene2223	gene2223	rpsE	gi 57650036 ref NC_002951.2 :2298940-2299441	MVR	MR150	OK	197.557	193.115	-0.0328119	0.042557	0.96606	0.999883
gene2224	gene2224	rplR	gi 57650036 ref NC_002951.2 :2299461-2299821	MVR	MR150	OK	373.733	336.563	-0.151131	0.196933	0.84388	0.999883

gene2225	gene2225	rplF	gi 57650036 ref NC_002951.2 :2299851-2300388	MVR	MR150	OK	265.519	310.574	0.226118	-0.276521	0.78215	0.999883
gene2226	gene2226	rpsH	gi 57650036 ref NC_002951.2 :2300412-2300811	MVR	MR150	OK	165.905	236.169	0.509455	-0.688924	0.49087	0.999883
gene2227	gene2227	rpsN	gi 57650036 ref NC_002951.2 :2300842-2301028	MVR	MR150	OK	71.2806	76.7981	0.107561	-0.137304	0.89079	0.999883
gene2228	gene2228	rplE	gi 57650036 ref NC_002951.2 :2301050-2301590	MVR	MR150	OK	187.049	217.378	0.216787	-0.276172	0.78242	0.999883
gene2229	gene2229	rplX	gi 57650036 ref NC_002951.2 :2301616-2301934	MVR	MR150	OK	184.742	233.036	0.335039	-0.47296	0.63624	0.999883
gene223	gene223	SACOL0232	gi 57650036 ref NC_002951.2 :269763-271023	MVR	MR150	OK	1.91933	1.58929	-0.272222	0.358398	0.72005	0.999883
gene2230	gene2230	rplN	gi 57650036 ref NC_002951.2 :2301969-2302338	MVR	MR150	OK	207.549	243.857	0.232587	-0.315692	0.75224	0.999883
gene2231	gene2231	rpsQ	gi 57650036 ref NC_002951.2 :2302369-2302633	MVR	MR150	OK	252.31	275.992	0.129425	-0.185962	0.85248	0.999883
gene2232	gene2232	rpmC	gi 57650036 ref NC_002951.2 :2302656-2303290	MVR	MR150	OK	238.234	221.051	-0.108	0.040057	0.96805	0.999883
gene2233	gene2233	rplP	gi 57650036 ref NC_002951.2 :2302656-2303290	MVR	MR150	OK	365.001	344.323	-0.0841367	0.098946	0.92118	0.999883
gene2234	gene2234	rpsC	gi 57650036 ref NC_002951.2 :2303292-2303946	MVR	MR150	OK	265.517	292.666	0.140451	-0.166173	0.86802	0.999883
gene2235	gene2235	rplV	gi 57650036 ref NC_002951.2 :2303969-2304323	MVR	MR150	OK	158.731	210.371	0.406356	-0.567712	0.57023	0.999883
gene2236	gene2236	rpsS	gi 57650036 ref NC_002951.2 :2304351-2304630	MVR	MR150	OK	216.478	250.378	0.20989	-0.301022	0.7634	0.999883
gene2237	gene2237	rplB	gi 57650036 ref NC_002951.2 :2304696-2305530	MVR	MR150	OK	271.177	322.165	0.248564	-0.281432	0.77838	0.999883
gene2238	gene2238	rplW	gi 57650036 ref NC_002951.2 :2305562-2306461	MVR	MR150	OK	112.541	168.729	0.584249	-0.223068	0.82348	0.999883
gene2239	gene2239	rplD	gi 57650036 ref NC_002951.2 :2305562-2306461	MVR	MR150	OK	225.781	251.262	0.154266	-0.172643	0.86293	0.999883
gene224	gene224	gutB	gi 57650036 ref NC_002951.2 :271040-272096	MVR	MR150	OK	3.72524	1.78898	-1.0582	1.41552	0.15692	0.774623
gene2240	gene2240	rplC	gi 57650036 ref NC_002951.2 :2306487-2307150	MVR	MR150	OK	215.334	232.76	0.112262	-0.136007	0.89182	0.999883
gene2241	gene2241	rpsJ	gi 57650036 ref NC_002951.2 :2307177-2307486	MVR	MR150	OK	147.671	164.729	0.157704	-0.228148	0.81953	0.999883
gene2242	gene2242	SACOL2241	gi 57650036 ref NC_002951.2 :2307842-2308232	MVR	MR150	OK	195.441	270.119	0.46686	-0.624831	0.53208	0.999883
gene2243	gene2243	SACOL2242	gi 57650036 ref NC_002951.2 :2308423-2309758	MVR	MR150	OK	146.974	109.703	-0.421947	0.491008	0.62342	0.999883
gene2244	gene2244	topB	gi 57650036 ref NC_002951.2 :2309870-2312006	MVR	MR150	OK	47.1714	48.9746	0.0541198	-0.066274	0.94716	0.999883
gene2245	gene2245	SACOL2245	gi 57650036 ref NC_002951.2 :2312192-2313080	MVR	MR150	OK	26.155	24.0363	-0.121871	0.176355	0.86002	0.999883
gene2246	gene2246	SACOL2246	gi 57650036 ref NC_002951.2 :2313260-2314124	MVR	MR150	OK	54.1793	53.7293	-0.0120338	0.016385	0.98693	0.999883
gene2247	gene2247	SACOL2247	gi 57650036 ref NC_002951.2 :2314240-2314372	MVR	MR150	OK	62.2758	420.017	2.7537	-1.86212	0.06259	0.504373
gene2248	gene2248	SACOL2248	gi 57650036 ref NC_002951.2 :2314542-2315451	MVR	MR150	OK	17.4145	17.9255	0.0417236	-0.061085	0.95129	0.999883
gene2249	gene2249	SACOL2250	gi 57650036 ref NC_002951.2 :2315583-2315748	MVR	MR150	OK	126.668	147.519	0.219855	-0.27948	0.77988	0.999883
gene225	gene225	SACOL0234	gi 57650036 ref NC_002951.2 :272097-272244	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2250	gene2250	SACOL2251	gi 57650036 ref NC_002951.2 :2315992-2316310	MVR	MR150	OK	68.6652	56.7177	-0.27578	0.404829	0.6856	0.999883
gene2251	gene2251	SACOL2252	gi 57650036 ref NC_002951.2 :2316496-2319664	MVR	MR150	OK	37.7702	34.8897	-0.114444	0.137645	0.89052	0.999883
gene2252	gene2252	femX	gi 57650036 ref NC_002951.2 :2319780-2321046	MVR	MR150	OK	40.0739	41.089	0.0360896	-0.048144	0.9616	0.999883
gene2253	gene2253	SACOL2255	gi 57650036 ref NC_002951.2 :2321677-2322442	MVR	MR150	OK	11.456	12.1939	0.0900593	-0.1319	0.89506	0.999883
gene2254	gene2254	SACOL2256	gi 57650036 ref NC_002951.2 :2322603-2324248	MVR	MR150	OK	2.14011	0.63371	-1.7558	0.723205	0.46955	0.999883

gene2255	gene2255	SACOL2257	gi 57650036 ref NC_002951.2 :2322603-2324248	MVR	MR150	OK	1.89416	1.9673	0.0546575	-0.068245	0.94559	0.999883
gene2256	gene2256	sarV	gi 57650036 ref NC_002951.2 :2324349-2324700	MVR	MR150	OK	4.77187	15.867	1.73341	-2.06407	0.03901	0.38357
gene2257	gene2257	SACOL2259	gi 57650036 ref NC_002951.2 :2324825-2324996	MVR	MR150	OK	0	10.8213	1.79769e+30	1.79769e+	0.10824	0.653986
gene2258	gene2258	SACOL2260	gi 57650036 ref NC_002951.2 :2325052-2325196	MVR	MR150	OK	0	37.5783	1.79769e+30	1.79769e+	0.10824	0.653986
gene2259	gene2259	moaA	gi 57650036 ref NC_002951.2 :2325390-2326413	MVR	MR150	OK	53.6479	58.0531	0.113851	-0.151019	0.87996	0.999883
gene226	gene226	SACOL0235	gi 57650036 ref NC_002951.2 :272267-273311	MVR	MR150	OK	4.84948	2.35872	-1.03982	1.43406	0.15156	0.757479
gene2260	gene2260	mobA	gi 57650036 ref NC_002951.2 :2326432-2327032	MVR	MR150	OK	41.9706	47.0655	0.165291	-0.238928	0.81116	0.999883
gene2261	gene2261	moaD	gi 57650036 ref NC_002951.2 :2327038-2327272	MVR	MR150	OK	28.9618	53.1015	0.874599	-1.15262	0.24907	0.922459
gene2262	gene2262	moaE	gi 57650036 ref NC_002951.2 :2327277-2327724	MVR	MR150	OK	32.8278	40.8203	0.314369	-0.461811	0.64422	0.999883
gene2263	gene2263	mobB	gi 57650036 ref NC_002951.2 :2327737-2329479	MVR	MR150	OK	33.5995	52.4043	0.641245	-0.43845	0.66106	0.999883
gene2264	gene2264	SACOL2266	gi 57650036 ref NC_002951.2 :2327737-2329479	MVR	MR150	OK	27.4915	33.8085	0.298396	-0.339983	0.73387	0.999883
gene2265	gene2265	moaC	gi 57650036 ref NC_002951.2 :2329541-2330036	MVR	MR150	OK	105.674	102.143	-0.0490318	0.068012	0.94578	0.999883
gene2266	gene2266	moaB	gi 57650036 ref NC_002951.2 :2330037-2330544	MVR	MR150	OK	26.8057	27.9047	0.0579698	-0.085208	0.9321	0.999883
gene2267	gene2267	SACOL2269	gi 57650036 ref NC_002951.2 :2330574-2331579	MVR	MR150	OK	26.2065	28.3437	0.113103	-0.161288	0.87187	0.999883
gene2268	gene2268	modC	gi 57650036 ref NC_002951.2 :2331748-2332354	MVR	MR150	OK	50.0344	52.4027	0.066721	-0.095611	0.92383	0.999883
gene2269	gene2269	modB	gi 57650036 ref NC_002951.2 :2332354-2333026	MVR	MR150	OK	45.9346	48.3245	0.0731717	-0.104325	0.91691	0.999883
gene227	gene227	ispD	gi 57650036 ref NC_002951.2 :273838-275573	MVR	MR150	OK	32.3757	39.6796	0.293486	-0.22684	0.82055	0.999883
gene2270	gene2270	modA	gi 57650036 ref NC_002951.2 :2333039-2333822	MVR	MR150	OK	99.2628	107.147	0.110269	-0.142364	0.88679	0.999883
gene2271	gene2271	fdhD	gi 57650036 ref NC_002951.2 :2334111-2334909	MVR	MR150	OK	155.752	202.778	0.380649	-0.459379	0.64596	0.999883
gene2272	gene2272	SACOL2274	gi 57650036 ref NC_002951.2 :2335080-2335851	MVR	MR150	OK	5.55832	6.70327	0.270218	-0.38178	0.70263	0.999883
gene2273	gene2273	SACOL2275	gi 57650036 ref NC_002951.2 :2335922-2336477	MVR	MR150	OK	4.94203	4.31077	-0.197157	0.254007	0.79949	0.999883
gene2274	gene2274	SACOL2276	gi 57650036 ref NC_002951.2 :2336597-2337539	MVR	MR150	OK	6.27112	5.57197	-0.170536	0.245247	0.80627	0.999883
gene2275	gene2275	SACOL2277	gi 57650036 ref NC_002951.2 :2337937-2338846	MVR	MR150	OK	56.341	33.0434	-0.769825	1.06346	0.28757	0.975616
gene2276	gene2276	SACOL2278	gi 57650036 ref NC_002951.2 :2339059-2340214	MVR	MR150	OK	39.6366	43.2971	0.127436	-0.171607	0.86375	0.999883
gene2277	gene2277	SACOL2279	gi 57650036 ref NC_002951.2 :2340430-2341336	MVR	MR150	OK	6.3448	3.03642	-1.0632	1.4778	0.13946	0.736061
gene2278	gene2278	ureA	gi 57650036 ref NC_002951.2 :2341595-2341898	MVR	MR150	OK	0.61218	1.38047	1.17313	-0.528287	0.5973	0.999883
gene2279	gene2279	ureB	gi 57650036 ref NC_002951.2 :2341911-2344034	MVR	MR150	OK	2.77445	2.16612	-0.357089	0.158963	0.8737	0.999883
gene228	gene228	SACOL0237	gi 57650036 ref NC_002951.2 :273838-275573	MVR	MR150	OK	36.0934	47.4604	0.394991	-0.416689	0.67691	0.999883
gene2280	gene2280	ureC	gi 57650036 ref NC_002951.2 :2341911-2344034	MVR	MR150	OK	3.41048	2.72789	-0.32219	0.4438	0.65719	0.999883
gene2281	gene2281	ureE	gi 57650036 ref NC_002951.2 :2344046-2345181	MVR	MR150	OK	4.82406	8.45557	0.809655	-0.763114	0.4454	0.999883
gene2282	gene2282	ureF	gi 57650036 ref NC_002951.2 :2344046-2345181	MVR	MR150	OK	2.7601	5.31115	0.944302	-0.971927	0.33109	0.999883
gene2283	gene2283	ureG	gi 57650036 ref NC_002951.2 :2345193-2346644	MVR	MR150	OK	9.86666	9.58958	-0.0410948	0.038321	0.96943	0.999883
gene2284	gene2284	ureD	gi 57650036 ref NC_002951.2 :2345193-2346644	MVR	MR150	OK	8.2033	10.3357	0.333366	-0.377192	0.70603	0.999883

gene2285	gene2285	sarR	gi 57650036 ref NC_002951.2 :2346832-2347180	MVR	MR150	OK	39.3669	51.5113	0.387907	-0.566794	0.57085	0.999883
gene2286	gene2286	SACOL2288	gi 57650036 ref NC_002951.2 :2347607-2347934	MVR	MR150	OK	137.301	177.102	0.367244	-0.526696	0.59841	0.999883
gene2287	gene2287	sarY	gi 57650036 ref NC_002951.2 :2347997-2348741	MVR	MR150	OK	3.48557	1.97001	-0.823195	1.03219	0.30198	0.987552
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	MVR	MR150	OK	3.41075	2.70405	-0.334969	0.486768	0.62642	0.999883
gene2289	gene2289	SACOL2291	gi 57650036 ref NC_002951.2 :2351331-2352135	MVR	MR150	OK	255.457	423.329	0.728698	-0.820241	0.41208	0.999883
gene229	gene229	SACOL0238	gi 57650036 ref NC_002951.2 :275594-277289	MVR	MR150	OK	36.4206	42.2101	0.212835	-0.275132	0.78322	0.999883
gene2290	gene2290	nhaC	gi 57650036 ref NC_002951.2 :2352567-2353968	MVR	MR150	OK	6.01247	6.37618	0.0847357	-0.124426	0.90098	0.999883
gene2291	gene2291	SACOL2293	gi 57650036 ref NC_002951.2 :2354062-2355145	MVR	MR150	OK	6.73982	4.50918	-0.579847	0.837714	0.40219	0.999883
gene2292	gene2292	SACOL2294	gi 57650036 ref NC_002951.2 :2355392-2355815	MVR	MR150	OK	82.847	80.7154	-0.0376068	0.054357	0.95665	0.999883
gene2293	gene2293	SACOL2295	gi 57650036 ref NC_002951.2 :2356051-2356552	MVR	MR150	OK	1361.21	1663.33	0.289186	-0.302394	0.76235	0.999883
gene2294	gene2294	SACOL2296	gi 57650036 ref NC_002951.2 :2356913-2357867	MVR	MR150	OK	190.329	193.542	0.0241466	-0.0281	0.97758	0.999883
gene2295	gene2295	SACOL2297	gi 57650036 ref NC_002951.2 :2357958-2359083	MVR	MR150	OK	25.0539	22.0193	-0.186269	0.265787	0.7904	0.999883
gene2296	gene2296	SACOL2298	gi 57650036 ref NC_002951.2 :2359393-2360170	MVR	MR150	OK	31.8252	26.0038	-0.291449	0.42247	0.67268	0.999883
gene2297	gene2297	SACOL2299	gi 57650036 ref NC_002951.2 :2360191-2360443	MVR	MR150	OK	24.0272	24.5289	0.0298131	-0.038203	0.96953	0.999883
gene2298	gene2298	SACOL2300	gi 57650036 ref NC_002951.2 :2360652-2364080	MVR	MR150	OK	453.907	426.328	-0.0904338	0.038619	0.96919	0.999883
gene2299	gene2299	SACOL2301	gi 57650036 ref NC_002951.2 :2360652-2364080	MVR	MR150	OK	199.209	201.334	0.0153086	-0.014259	0.98862	0.999883
gene23	gene23	yycI	gi 57650036 ref NC_002951.2 :28819-29608	MVR	MR150	OK	98.8301	99.0379	0.00303069	-0.003926	0.99687	0.999883
gene230	gene230	SACOL0239	gi 57650036 ref NC_002951.2 :277716-278886	MVR	MR150	OK	31.9609	35.5232	0.152455	-0.209452	0.8341	0.999883
gene2300	gene2300	SACOL2302	gi 57650036 ref NC_002951.2 :2364681-2365635	MVR	MR150	OK	26.1142	27.4167	0.0702208	-0.100742	0.91976	0.999883
gene2301	gene2301	SACOL2303	gi 57650036 ref NC_002951.2 :2365761-2366559	MVR	MR150	OK	40.3386	39.429	-0.0329047	0.04664	0.9628	0.999883
gene2302	gene2302	SACOL2304	gi 57650036 ref NC_002951.2 :2366943-2367636	MVR	MR150	OK	52.2314	63.6567	0.285397	-0.397985	0.69064	0.999883
gene2303	gene2303	SACOL2305	gi 57650036 ref NC_002951.2 :2367991-2369020	MVR	MR150	OK	3.90157	3.78043	-0.0455044	0.013145	0.98951	0.999883
gene2304	gene2304	SACOL2306	gi 57650036 ref NC_002951.2 :2367991-2369020	MVR	MR150	OK	16.9487	23.619	0.478772	-0.687542	0.49174	0.999883
gene2305	gene2305	SACOL2307	gi 57650036 ref NC_002951.2 :2369068-2369398	MVR	MR150	OK	1.49907	1.13418	-0.402419	0.2519	0.80112	0.999883
gene2306	gene2306	SACOL2308	gi 57650036 ref NC_002951.2 :2369842-2370715	MVR	MR150	OK	90.729	105.112	0.212295	-0.271246	0.7862	0.999883
gene2307	gene2307	SACOL2309	gi 57650036 ref NC_002951.2 :2371101-2372481	MVR	MR150	OK	166.651	132.129	-0.334886	0.381523	0.70282	0.999883
gene2308	gene2308	SACOL2310	gi 57650036 ref NC_002951.2 :2372760-2373299	MVR	MR150	OK	70.566	63.1461	-0.16028	0.172903	0.86273	0.999883
gene2309	gene2309	SACOL2311	gi 57650036 ref NC_002951.2 :2372760-2373299	MVR	MR150	OK	365.7	404.935	0.147029	-0.140377	0.88836	0.999883
gene231	gene231	ispD	gi 57650036 ref NC_002951.2 :279161-280896	MVR	MR150	OK	39.4912	41.1602	0.0597167	-0.033998	0.97288	0.999883
gene2310	gene2310	SACOL2312	gi 57650036 ref NC_002951.2 :2373394-2373586	MVR	MR150	OK	91.2101	60.0473	-0.603095	0.787848	0.43079	0.999883
gene2311	gene2311	SACOL2313	gi 57650036 ref NC_002951.2 :2373596-2374232	MVR	MR150	OK	16.6007	17.203	0.0514147	-0.075461	0.93985	0.999883
gene2312	gene2312	SACOL2314	gi 57650036 ref NC_002951.2 :2374306-2375224	MVR	MR150	OK	7.24623	7.46424	0.0427633	-0.062118	0.95047	0.999883
gene2313	gene2313	SACOL2315	gi 57650036 ref NC_002951.2 :2375491-2376022	MVR	MR150	OK	11.603	16.1793	0.479657	-0.689041	0.4908	0.999883

gene2314	gene2314	SACOL2316	gi 57650036 ref NC_002951.2 :2376087-2377692	MVR	MR150	OK	10.376	12.2094	0.234741	-0.34078	0.73327	0.999883
gene2315	gene2315	SACOL2317	gi 57650036 ref NC_002951.2 :2378021-2378786	MVR	MR150	OK	14.8064	19.5103	0.39802	-0.584621	0.5588	0.999883
gene2316	gene2316	SACOL2318	gi 57650036 ref NC_002951.2 :2378843-2379350	MVR	MR150	OK	121.656	147.995	0.282731	-0.380172	0.70382	0.999883
gene2317	gene2317	SACOL2319	gi 57650036 ref NC_002951.2 :2379516-2380830	MVR	MR150	OK	9.97981	7.97381	-0.323743	0.475674	0.63431	0.999883
gene2318	gene2318	SACOL2320	gi 57650036 ref NC_002951.2 :2381054-2381624	MVR	MR150	OK	9.62628	10.7544	0.159873	-0.227143	0.82031	0.999883
gene2319	gene2319	SACOL2321	gi 57650036 ref NC_002951.2 :2382110-2382992	MVR	MR150	OK	49.3209	50.2914	0.0281112	-0.03849	0.9693	0.999883
gene232	gene232	SACOL0241	gi 57650036 ref NC_002951.2 :279161-280896	MVR	MR150	OK	90.7803	89.7299	-0.0167906	0.01816	0.98551	0.999883
gene2320	gene2320	SACOL2322	gi 57650036 ref NC_002951.2 :2383102-2384224	MVR	MR150	OK	18.8206	18.2707	-0.0427856	0.061927	0.95062	0.999883
gene2321	gene2321	hutI	gi 57650036 ref NC_002951.2 :2384500-2387400	MVR	MR150	OK	19.6479	20.7834	0.081055	-0.081317	0.93519	0.999883
gene2322	gene2322	hutU	gi 57650036 ref NC_002951.2 :2384500-2387400	MVR	MR150	OK	12.6899	10.5811	-0.262186	0.23662	0.81295	0.999883
gene2323	gene2323	SACOL2325	gi 57650036 ref NC_002951.2 :2387559-2388444	MVR	MR150	OK	37.3315	44.7065	0.260088	-0.363051	0.71657	0.999883
gene2324	gene2324	fosB	gi 57650036 ref NC_002951.2 :2388865-2389285	MVR	MR150	OK	37.4541	34.6585	-0.111914	0.164404	0.86941	0.999883
gene2325	gene2325	hutG	gi 57650036 ref NC_002951.2 :2389540-2390476	MVR	MR150	OK	28.3346	27.2547	-0.0560607	0.080367	0.93595	0.999883
gene2326	gene2326	SACOL2328	gi 57650036 ref NC_002951.2 :2390765-2392025	MVR	MR150	OK	179.288	195.049	0.121558	-0.136727	0.89125	0.999883
gene2327	gene2327	rpiA	gi 57650036 ref NC_002951.2 :2392090-2392777	MVR	MR150	OK	32.3255	32.063	-0.0117621	0.017097	0.98636	0.999883
gene2328	gene2328	SACOL2330	gi 57650036 ref NC_002951.2 :2392950-2393604	MVR	MR150	OK	36.1636	53.9477	0.577022	-0.8261	0.40875	0.999883
gene2329	gene2329	SACOL2331	gi 57650036 ref NC_002951.2 :2393733-2394859	MVR	MR150	NOTEST	0	0	0	0	1	1
gene233	gene233	SACOL0242	gi 57650036 ref NC_002951.2 :280917-282606	MVR	MR150	OK	68.9076	80.2343	0.219557	-0.263323	0.7923	0.999883
gene2330	gene2330	galM	gi 57650036 ref NC_002951.2 :2393733-2394859	MVR	MR150	OK	7.05267	8.03017	0.187261	-0.271782	0.78579	0.999883
gene2331	gene2331	SACOL2333	gi 57650036 ref NC_002951.2 :2394888-2395215	MVR	MR150	OK	14.8019	12.7328	-0.217231	0.282768	0.77736	0.999883
gene2332	gene2332	SACOL2334	gi 57650036 ref NC_002951.2 :2395432-2397557	MVR	MR150	OK	24.7493	21.4971	-0.20325	0.225794	0.82136	0.999883
gene2333	gene2333	SACOL2335	gi 57650036 ref NC_002951.2 :2395432-2397557	MVR	MR150	OK	17.3867	16.8434	-0.0458079	0.035964	0.97131	0.999883
gene2334	gene2334	SACOL2336	gi 57650036 ref NC_002951.2 :2397626-2397725	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2335	gene2335	SACOL2338	gi 57650036 ref NC_002951.2 :2397787-2398435	MVR	MR150	OK	33.5037	27.6765	-0.27566	0.402664	0.6872	0.999883
gene2336	gene2336	SACOL2339	gi 57650036 ref NC_002951.2 :2398833-2399442	MVR	MR150	OK	6.6801	5.98776	-0.157852	0.216562	0.82855	0.999883
gene2337	gene2337	gltS	gi 57650036 ref NC_002951.2 :2399778-2400987	MVR	MR150	OK	25.7678	41.2843	0.680025	-0.932362	0.35115	0.999883
gene2338	gene2338	fni	gi 57650036 ref NC_002951.2 :2401034-2402084	MVR	MR150	OK	50.125	53.3274	0.0893468	-0.119034	0.90525	0.999883
gene2339	gene2339	SACOL2342	gi 57650036 ref NC_002951.2 :2402114-2403062	MVR	MR150	OK	16.1537	22.7233	0.492311	-0.716958	0.4734	0.999883
gene234	gene234	SACOL0243	gi 57650036 ref NC_002951.2 :282641-284363	MVR	MR150	OK	139.543	158.399	0.182853	-0.20287	0.83924	0.999883
gene2340	gene2340	SACOL2343	gi 57650036 ref NC_002951.2 :2403158-2404066	MVR	MR150	OK	69.1971	74.3795	0.104193	-0.112824	0.91017	0.999883
gene2341	gene2341	SACOL2344	gi 57650036 ref NC_002951.2 :2403158-2404066	MVR	MR150	OK	56.0337	60.9989	0.12249	-0.103474	0.91759	0.999883
gene2342	gene2342	SACOL2345	gi 57650036 ref NC_002951.2 :2404173-2405076	MVR	MR150	OK	41.7678	42.4733	0.0241659	-0.033558	0.97323	0.999883
gene2343	gene2343	SACOL2346	gi 57650036 ref NC_002951.2 :2405301-2405940	MVR	MR150	OK	27.3272	36.2631	0.408166	-0.595486	0.55152	0.999883

gene2344	gene2344	SACOL2347	gi 57650036 ref NC_002951.2 :2406185-2408117	MVR	MR150	OK	5.47908	5.12927	-0.0951788	0.13996	0.88869	0.999883
gene2345	gene2345	SACOL2348	gi 57650036 ref NC_002951.2 :2408129-2408777	MVR	MR150	OK	4.96351	5.80865	0.226841	-0.308465	0.75773	0.999883
gene2346	gene2346	SACOL2349	gi 57650036 ref NC_002951.2 :2408897-2409449	MVR	MR150	OK	44.7049	46.9524	0.0707667	-0.102775	0.91814	0.999883
gene2347	gene2347	tcaB	gi 57650036 ref NC_002951.2 :2409678-2410887	MVR	MR150	OK	11.3402	10.9282	-0.0533906	0.078349	0.93755	0.999883
gene2348	gene2348	SACOL2351	gi 57650036 ref NC_002951.2 :2410996-2411125	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2349	gene2349	tcaA	gi 57650036 ref NC_002951.2 :2411155-2412538	MVR	MR150	OK	9.53719	12.5579	0.396964	-0.580112	0.56184	0.999883
gene235	gene235	scdA	gi 57650036 ref NC_002951.2 :284502-285177	MVR	MR150	OK	57.2959	39.9625	-0.519784	0.738852	0.46	0.999883
gene2350	gene2350	tcaR	gi 57650036 ref NC_002951.2 :2412777-2413233	MVR	MR150	OK	42.3677	50.7412	0.260193	-0.381396	0.70291	0.999883
gene2351	gene2351	SACOL2354	gi 57650036 ref NC_002951.2 :2413427-2414396	MVR	MR150	OK	11.0675	13.3415	0.269599	-0.396249	0.69192	0.999883
gene2352	gene2352	SACOL2355	gi 57650036 ref NC_002951.2 :2414970-2415327	MVR	MR150	OK	0.8351	3.82704	2.19621	-1.46965	0.14166	0.740572
gene2353	gene2353	SACOL2356	gi 57650036 ref NC_002951.2 :2415466-2417187	MVR	MR150	OK	3.43892	1.64249	-1.06607	0.873379	0.38246	0.999883
gene2354	gene2354	SACOL2357	gi 57650036 ref NC_002951.2 :2415466-2417187	MVR	MR150	OK	2.88179	1.96788	-0.550327	0.618733	0.53609	0.999883
gene2355	gene2355	SACOL2358	gi 57650036 ref NC_002951.2 :2417322-2419363	MVR	MR150	OK	9.4629	9.0238	-0.0685473	0.033163	0.97355	0.999883
gene2356	gene2356	SACOL2359	gi 57650036 ref NC_002951.2 :2417322-2419363	MVR	MR150	OK	24.5635	26.7434	0.122664	-0.156693	0.87549	0.999883
gene2357	gene2357	SACOL2360	gi 57650036 ref NC_002951.2 :2419525-2420421	MVR	MR150	OK	10.2953	13.7722	0.419767	-0.420906	0.67382	0.999883
gene2358	gene2358	SACOL2361	gi 57650036 ref NC_002951.2 :2419525-2420421	MVR	MR150	OK	10.5293	14.9239	0.503221	-0.531015	0.59541	0.999883
gene2359	gene2359	mqa1	gi 57650036 ref NC_002951.2 :2420486-2421965	MVR	MR150	OK	183.939	237.582	0.369198	-0.402988	0.68696	0.999883
gene236	gene236	lytS	gi 57650036 ref NC_002951.2 :285423-287178	MVR	MR150	OK	11.8046	11.426	-0.0470322	0.067878	0.94588	0.999883
gene2360	gene2360	SACOL2363	gi 57650036 ref NC_002951.2 :2422345-2423944	MVR	MR150	OK	25.0536	16.0936	-0.638535	0.88905	0.37398	0.999883
gene2361	gene2361	SACOL2364	gi 57650036 ref NC_002951.2 :2424260-2425934	MVR	MR150	OK	15.9731	17.561	0.136725	-0.192988	0.84697	0.999883
gene2362	gene2362	SACOL2365	gi 57650036 ref NC_002951.2 :2426086-2426716	MVR	MR150	OK	67.5267	51.6165	-0.387628	0.546518	0.58471	0.999883
gene2363	gene2363	SACOL2366	gi 57650036 ref NC_002951.2 :2427029-2427545	MVR	MR150	OK	13.1936	10.1671	-0.375921	0.532658	0.59427	0.999883
gene2364	gene2364	SACOL2367	gi 57650036 ref NC_002951.2 :2427735-2428740	MVR	MR150	OK	28.6026	28.7242	0.00612147	-0.008696	0.99306	0.999883
gene2365	gene2365	SACOL2368	gi 57650036 ref NC_002951.2 :2428785-2429187	MVR	MR150	OK	7.42372	9.79292	0.399597	-0.516	0.60585	0.999883
gene2366	gene2366	SACOL2369	gi 57650036 ref NC_002951.2 :2429222-2430257	MVR	MR150	OK	14.3493	9.53654	-0.589442	0.865306	0.38687	0.999883
gene2367	gene2367	SACOL2371	gi 57650036 ref NC_002951.2 :2430488-2430920	MVR	MR150	OK	58.7971	40.7923	-0.527448	0.773845	0.43902	0.999883
gene2368	gene2368	SACOL2372	gi 57650036 ref NC_002951.2 :2430971-2431064	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2369	gene2369	SACOL2373	gi 57650036 ref NC_002951.2 :2431126-2432404	MVR	MR150	OK	6.93588	4.12	-0.751434	1.09285	0.27446	0.959546
gene237	gene237	lytR	gi 57650036 ref NC_002951.2 :287180-287921	MVR	MR150	OK	9.0472	16.6964	0.883991	-1.28854	0.19756	0.861283
gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	MVR	MR150	OK	25.5739	27.4366	0.10143	-0.148865	0.88166	0.999883
gene2371	gene2371	SACOL2375	gi 57650036 ref NC_002951.2 :2433233-2434178	MVR	MR150	OK	51.9879	64.3336	0.307397	-0.410495	0.68144	0.999883
gene2372	gene2372	SACOL2376	gi 57650036 ref NC_002951.2 :2434263-2435706	MVR	MR150	OK	4.41399	4.06613	-0.118428	0.172061	0.86339	0.999883
gene2373	gene2373	SACOL2377	gi 57650036 ref NC_002951.2 :2435888-2436272	MVR	MR150	OK	92.1258	79.938	-0.204724	0.297812	0.76585	0.999883

gene2374	gene2374	SACOL2378	gi 57650036 ref NC_002951.2 :2437759-2439865	MVR	MR150	OK	17.1865	20.091	0.225274	-0.306694	0.75908	0.999883
gene2375	gene2375	SACOL2379	gi 57650036 ref NC_002951.2 :2439935-2440358	MVR	MR150	OK	139.532	158.011	0.179427	-0.247063	0.80486	0.999883
gene2376	gene2376	SACOL2380	gi 57650036 ref NC_002951.2 :2440453-2440576	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2377	gene2377	SACOL2381	gi 57650036 ref NC_002951.2 :2440622-2440979	MVR	MR150	OK	29.6461	35.4001	0.255911	-0.370102	0.71131	0.999883
gene2378	gene2378	SACOL2382	gi 57650036 ref NC_002951.2 :2441382-2442660	MVR	MR150	OK	148.15	131.556	-0.171386	0.19848	0.84267	0.999883
gene2379	gene2379	SACOL2383	gi 57650036 ref NC_002951.2 :2442841-2443207	MVR	MR150	OK	34.3651	42.6942	0.313097	-0.456979	0.64769	0.999883
gene238	gene238	lrgA	gi 57650036 ref NC_002951.2 :288033-289171	MVR	MR150	OK	2.37584	0.62601	-1.92419	0.966909	0.33359	0.999883
gene2380	gene2380	sarZ	gi 57650036 ref NC_002951.2 :2443604-2444051	MVR	MR150	OK	14.5901	14.2253	-0.0365377	0.051636	0.95882	0.999883
gene2381	gene2381	SACOL2385	gi 57650036 ref NC_002951.2 :2444266-2444695	MVR	MR150	OK	175.192	145.28	-0.270101	0.368191	0.71273	0.999883
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	MVR	MR150	OK	2.59643	2.05245	-0.339184	0.458024	0.64694	0.999883
gene2383	gene2383	SACOL2387	gi 57650036 ref NC_002951.2 :2446340-2447974	MVR	MR150	OK	1.69248	0.42832	-1.98239	1.3544	0.17561	0.821477
gene2384	gene2384	SACOL2388	gi 57650036 ref NC_002951.2 :2446340-2447974	MVR	MR150	OK	2.60107	1.98092	-0.392931	0.41054	0.68141	0.999883
gene2385	gene2385	SACOL2389	gi 57650036 ref NC_002951.2 :2448231-2448885	MVR	MR150	OK	32.085	37.7634	0.235088	-0.341505	0.73272	0.999883
gene2386	gene2386	SACOL2390	gi 57650036 ref NC_002951.2 :2448907-2449942	MVR	MR150	OK	30.1407	36.8624	0.290436	-0.405476	0.68513	0.999883
gene2387	gene2387	SACOL2391	gi 57650036 ref NC_002951.2 :2449965-2450418	MVR	MR150	OK	26.4054	32.6143	0.304676	-0.446653	0.65513	0.999883
gene2388	gene2388	narI	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	MR150	OK	19.3159	19.5357	0.0163224	-0.018327	0.98538	0.999883
gene2389	gene2389	narJ	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	MR150	NOTEST	0.637	0.78289	0.29752	-0.056671	0.95481	1
gene239	gene239	lrgB	gi 57650036 ref NC_002951.2 :288033-289171	MVR	MR150	OK	3.91397	2.1347	-0.874597	1.02444	0.30563	0.990962
gene2390	gene2390	narH	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	MR150	OK	2.14509	1.23881	-0.792087	0.441753	0.65867	0.999883
gene2391	gene2391	narG	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	MR150	OK	1.63702	0.35115	-2.22093	1.2536	0.20999	0.888513
gene2392	gene2392	SACOL2396	gi 57650036 ref NC_002951.2 :2457223-2458506	MVR	MR150	OK	6.28204	5.11744	-0.295809	0.415816	0.67754	0.999883
gene2393	gene2393	nirD	gi 57650036 ref NC_002951.2 :2457223-2458506	MVR	MR150	OK	2.78684	1.26014	-1.14504	0.340675	0.73335	0.999883
gene2394	gene2394	nirB	gi 57650036 ref NC_002951.2 :2458509-2460915	MVR	MR150	OK	2.30534	1.3193	-0.805202	1.14432	0.25249	0.92853
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	MVR	MR150	OK	4.48861	0.86332	-2.3783	2.66757	0.00764	0.141411
gene2396	gene2396	SACOL2400	gi 57650036 ref NC_002951.2 :2461941-2462478	MVR	MR150	OK	10.4491	15.8919	0.604914	-0.865795	0.3866	0.999883
gene2397	gene2397	SACOL2401	gi 57650036 ref NC_002951.2 :2462710-2463535	MVR	MR150	OK	13.6207	15.4336	0.180274	-0.265035	0.79098	0.999883
gene2398	gene2398	SACOL2402	gi 57650036 ref NC_002951.2 :2464017-2464485	MVR	MR150	OK	18.136	21.1059	0.21879	-0.317103	0.75117	0.999883
gene2399	gene2399	SACOL2403	gi 57650036 ref NC_002951.2 :2464670-2466221	MVR	MR150	OK	4.98038	5.78181	0.215264	-0.315883	0.75209	0.999883
gene24	gene24	yycJ	gi 57650036 ref NC_002951.2 :29997-30798	MVR	MR150	OK	55.836	59.1032	0.0820399	-0.112161	0.9107	0.999883
gene240	gene240	SACOL0249	gi 57650036 ref NC_002951.2 :289278-289983	MVR	MR150	OK	45.9456	58.5075	0.348694	-0.489849	0.62424	0.999883
gene2400	gene2400	SACOL2404	gi 57650036 ref NC_002951.2 :2466515-2467033	MVR	MR150	OK	12.7354	17.086	0.423966	-0.290228	0.77164	0.999883
gene2401	gene2401	SACOL2405	gi 57650036 ref NC_002951.2 :2466515-2467033	MVR	MR150	OK	51.0578	69.1268	0.437115	-0.555058	0.57886	0.999883
gene2402	gene2402	SACOL2406	gi 57650036 ref NC_002951.2 :2467197-2467296	MVR	MR150	NOTEST	0	0	0	0	1	1

gene2403	gene2403	SACOL2407	gi 57650036 ref NC_002951.2 :2467305-2467905	MVR	MR150	OK	55.8054	60.4582	0.115533	-0.164196	0.86958	0.999883
gene2404	gene2404	SACOL2408	gi 57650036 ref NC_002951.2 :2467923-2468295	MVR	MR150	OK	57.1644	52.7143	-0.116921	0.171938	0.86349	0.999883
gene2405	gene2405	fmhA	gi 57650036 ref NC_002951.2 :2468540-2469791	MVR	MR150	OK	11.3321	10.7831	-0.0716488	0.105072	0.91632	0.999883
gene2406	gene2406	SACOL2410	gi 57650036 ref NC_002951.2 :2469887-2472095	MVR	MR150	OK	354.715	354.249	-0.0018972	0.001434	0.99886	0.999883
gene2407	gene2407	SACOL2411	gi 57650036 ref NC_002951.2 :2469887-2472095	MVR	MR150	OK	181.536	217.342	0.25971	-0.146506	0.88352	0.999883
gene2408	gene2408	SACOL2412	gi 57650036 ref NC_002951.2 :2469887-2472095	MVR	MR150	OK	125.142	138.586	0.147214	-0.07091	0.94347	0.999883
gene2409	gene2409	SACOL2413	gi 57650036 ref NC_002951.2 :2472215-2473613	MVR	MR150	OK	21.9692	20.8384	-0.0762379	0.107281	0.91457	0.999883
gene241	gene241	SACOL0250	gi 57650036 ref NC_002951.2 :290131-290923	MVR	MR150	OK	1.95587	0.25863	-2.91888	2.23559	0.02538	0.303073
gene2410	gene2410	SACOL2414	gi 57650036 ref NC_002951.2 :2473829-2473934	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2411	gene2411	gpmA	gi 57650036 ref NC_002951.2 :2474087-2474774	MVR	MR150	OK	141.55	118.507	-0.256337	0.329344	0.7419	0.999883
gene2412	gene2412	SACOL2416	gi 57650036 ref NC_002951.2 :2475099-2475966	MVR	MR150	OK	10.7308	16.2988	0.603016	-0.884826	0.37625	0.999883
gene2413	gene2413	SACOL2418	gi 57650036 ref NC_002951.2 :2476717-2478028	MVR	MR150	OK	16.0333	17.0935	0.0923766	-0.133202	0.89403	0.999883
gene2414	gene2414	hlgA	gi 57650036 ref NC_002951.2 :2478563-2479493	MVR	MR150	OK	30.8116	21.1858	-0.54038	0.777631	0.43679	0.999883
gene2415	gene2415	SACOL2420	gi 57650036 ref NC_002951.2 :2479556-2479682	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2416	gene2416	hlgC	gi 57650036 ref NC_002951.2 :2480060-2481008	MVR	MR150	OK	15.4268	10.031	-0.620967	0.911655	0.36195	0.999883
gene2417	gene2417	hlgB	gi 57650036 ref NC_002951.2 :2481009-2481987	MVR	MR150	OK	13.805	9.44759	-0.54717	0.803642	0.4216	0.999883
gene2418	gene2418	SACOL2423	gi 57650036 ref NC_002951.2 :2482038-2482506	MVR	MR150	OK	1.67042	4.56344	1.44991	-1.53863	0.1239	0.697764
gene2419	gene2419	bioW	gi 57650036 ref NC_002951.2 :2482516-2483209	MVR	MR150	OK	3.11643	1.86312	-0.74217	0.90013	0.36805	0.999883
gene242	gene242	bglA	gi 57650036 ref NC_002951.2 :290938-292375	MVR	MR150	OK	4.62868	4.45729	-0.0544356	0.079311	0.93679	0.999883
gene2420	gene2420	SACOL2425	gi 57650036 ref NC_002951.2 :2483219-2485320	MVR	MR150	OK	2.16352	1.33748	-0.693867	0.692232	0.48879	0.999883
gene2421	gene2421	bioB	gi 57650036 ref NC_002951.2 :2483219-2485320	MVR	MR150	OK	2.75981	1.13712	-1.27918	1.21466	0.2245	0.89446
gene2422	gene2422	bioA	gi 57650036 ref NC_002951.2 :2485321-2487344	MVR	MR150	OK	1.75196	0.66072	-1.40686	1.57037	0.11633	0.67404
gene2423	gene2423	bioD	gi 57650036 ref NC_002951.2 :2485321-2487344	MVR	MR150	OK	1.13644	0.31434	-1.85411	0.931696	0.35149	0.999883
gene2424	gene2424	SACOL2429	gi 57650036 ref NC_002951.2 :2487564-2487708	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	MVR	MR150	OK	2.01415	0.29954	-2.74934	3.11605	0.00183	0.0540416
gene2426	gene2426	SACOL2431	gi 57650036 ref NC_002951.2 :2489553-2491317	MVR	MR150	OK	1.25332	0.5876	-1.09285	1.35088	0.17673	0.821477
gene2427	gene2427	SACOL2433	gi 57650036 ref NC_002951.2 :2491944-2492052	MVR	MR150	OK	6177.46	17905.4	1.53531	-1.78328	0.07454	0.53808
gene2428	gene2428	SACOL2434	gi 57650036 ref NC_002951.2 :2492186-2492573	MVR	MR150	OK	4.89731	6.49166	0.406599	-0.479232	0.63177	0.999883
gene2429	gene2429	SACOL2435	gi 57650036 ref NC_002951.2 :2492840-2493983	MVR	MR150	OK	31.0542	33.6167	0.114392	-0.158312	0.87421	0.999883
gene243	gene243	SACOL0252	gi 57650036 ref NC_002951.2 :292808-293570	MVR	MR150	OK	3.36902	1.90695	-0.821057	1.02951	0.30324	0.988092
gene2430	gene2430	SACOL2436	gi 57650036 ref NC_002951.2 :2494042-2494702	MVR	MR150	OK	54.4383	59.2346	0.121819	-0.171342	0.86396	0.999883
gene2431	gene2431	bcr	gi 57650036 ref NC_002951.2 :2494883-2496095	MVR	MR150	OK	69.4329	64.921	-0.0969357	0.123331	0.90185	0.999883
gene2432	gene2432	SACOL2438	gi 57650036 ref NC_002951.2 :2496217-2496691	MVR	MR150	OK	7.22337	6.69625	-0.109318	0.143939	0.88555	0.999883

gene2433	gene2433	SACOL2439	gi 57650036 ref NC_002951.2 :2496803-2497460	MVR	MR150	OK	45.7693	50.2442	0.134579	-0.192063	0.84769	0.999883
gene2434	gene2434	SACOL2440	gi 57650036 ref NC_002951.2 :2497522-2498329	MVR	MR150	OK	5.11496	5.04477	-0.0199349	0.027882	0.97776	0.999883
gene2435	gene2435	SACOL2441	gi 57650036 ref NC_002951.2 :2498614-2500024	MVR	MR150	OK	90.637	101.387	0.1617	-0.192905	0.84703	0.999883
gene2436	gene2436	SACOL2442	gi 57650036 ref NC_002951.2 :2500161-2502240	MVR	MR150	OK	30.3958	34.2378	0.171716	-0.221144	0.82498	0.999883
gene2437	gene2437	SACOL2443	gi 57650036 ref NC_002951.2 :2502379-2504209	MVR	MR150	OK	28.2245	40.1245	0.507534	-0.660029	0.50924	0.999883
gene2438	gene2438	SACOL2445	gi 57650036 ref NC_002951.2 :2504440-2505937	MVR	MR150	OK	25.5445	29.758	0.220266	-0.299665	0.76443	0.999883
gene2439	gene2439	SACOL2446	gi 57650036 ref NC_002951.2 :2506028-2506880	MVR	MR150	OK	20.7635	21.1356	0.0256221	-0.037421	0.97015	0.999883
gene244	gene244	rbsK	gi 57650036 ref NC_002951.2 :293820-294735	MVR	MR150	OK	12.4398	9.63712	-0.368284	0.540858	0.58861	0.999883
gene2440	gene2440	SACOL2448	gi 57650036 ref NC_002951.2 :2507201-2508137	MVR	MR150	OK	11.9087	13.1072	0.13834	-0.203402	0.83882	0.999883
gene2441	gene2441	SACOL2449	gi 57650036 ref NC_002951.2 :2508362-2509763	MVR	MR150	OK	40.0997	36.5993	-0.131775	0.174679	0.86133	0.999883
gene2442	gene2442	SACOL2450	gi 57650036 ref NC_002951.2 :2510056-2511693	MVR	MR150	OK	27.3743	39.1978	0.517952	-0.465319	0.6417	0.999883
gene2443	gene2443	SACOL2451	gi 57650036 ref NC_002951.2 :2510056-2511693	MVR	MR150	OK	25.1659	30.749	0.289069	-0.293551	0.7691	0.999883
gene2444	gene2444	SACOL2452	gi 57650036 ref NC_002951.2 :2511709-2513568	MVR	MR150	OK	14.0467	26.6822	0.92564	-0.642963	0.52025	0.999883
gene2445	gene2445	SACOL2453	gi 57650036 ref NC_002951.2 :2511709-2513568	MVR	MR150	OK	20.466	26.3945	0.36701	-0.432703	0.66523	0.999883
gene2446	gene2446	SACOL2454	gi 57650036 ref NC_002951.2 :2513894-2514014	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2447	gene2447	SACOL2456	gi 57650036 ref NC_002951.2 :2514237-2515000	MVR	MR150	OK	38.3954	35.9688	-0.0941862	0.137194	0.89088	0.999883
gene2448	gene2448	SACOL2457	gi 57650036 ref NC_002951.2 :2514237-2515000	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2449	gene2449	SACOL2458	gi 57650036 ref NC_002951.2 :2515016-2516654	MVR	MR150	OK	30.8567	35.2554	0.192257	-0.254049	0.79946	0.999883
gene245	gene245	SACOL0254	gi 57650036 ref NC_002951.2 :294762-295167	MVR	MR150	OK	5.72047	8.16859	0.513953	-0.639876	0.52225	0.999883
gene2450	gene2450	pnbA	gi 57650036 ref NC_002951.2 :2517261-2518614	MVR	MR150	OK	14.2455	13.5487	-0.0723495	0.10501	0.91637	0.999883
gene2451	gene2451	SACOL2460	gi 57650036 ref NC_002951.2 :2518675-2519863	MVR	MR150	OK	8.61455	9.30033	0.110507	-0.162493	0.87092	0.999883
gene2452	gene2452	SACOL2461	gi 57650036 ref NC_002951.2 :2520258-2521690	MVR	MR150	OK	7.82413	8.49102	0.118008	-0.141598	0.8874	0.999883
gene2453	gene2453	SACOL2462	gi 57650036 ref NC_002951.2 :2520258-2521690	MVR	MR150	OK	5.06042	4.95937	-0.0291023	0.024421	0.98052	0.999883
gene2454	gene2454	pepA2	gi 57650036 ref NC_002951.2 :2521937-2523014	MVR	MR150	OK	61.7019	69.4971	0.171637	-0.222512	0.82392	0.999883
gene2455	gene2455	SACOL2464	gi 57650036 ref NC_002951.2 :2523368-2523892	MVR	MR150	OK	46.6965	60.7501	0.379572	-0.364653	0.71537	0.999883
gene2456	gene2456	SACOL2465	gi 57650036 ref NC_002951.2 :2523368-2523892	MVR	MR150	OK	60.7722	98.0247	0.689734	-0.760844	0.44675	0.999883
gene2457	gene2457	SACOL2466	gi 57650036 ref NC_002951.2 :2523997-2524192	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2458	gene2458	SACOL2467	gi 57650036 ref NC_002951.2 :2524250-2524706	MVR	MR150	OK	36.6017	18.5056	-0.983947	1.43481	0.15134	0.757479
gene2459	gene2459	SACOL2469	gi 57650036 ref NC_002951.2 :2524873-2526451	MVR	MR150	OK	15.5072	19.7844	0.351424	-0.496654	0.61943	0.999883
gene246	gene246	SACOL0255	gi 57650036 ref NC_002951.2 :295181-296063	MVR	MR150	OK	7.28705	7.40899	0.0239423	-0.03469	0.97233	0.999883
gene2460	gene2460	SACOL2470	gi 57650036 ref NC_002951.2 :2526645-2527395	MVR	MR150	OK	14.0057	15.5882	0.15445	-0.226971	0.82045	0.999883
gene2461	gene2461	SACOL2471	gi 57650036 ref NC_002951.2 :2527618-2528812	MVR	MR150	OK	4.34093	4.1599	-0.0614568	0.0882	0.92972	0.999883
gene2462	gene2462	SACOL2472	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	MR150	OK	2.66774	0.83509	-1.67563	0.996303	0.3191	0.999883

gene2463	gene2463	SACOL2473	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	MR150	OK	1.58031	0.74567	-1.0836	0.594955	0.55187	0.999883
gene2464	gene2464	SACOL2474	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	MR150	OK	2.26291	0.91414	-1.3077	0.861478	0.38898	0.999883
gene2465	gene2465	SACOL2475	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	MR150	OK	2.54601	2.49661	-0.0282649	0.025837	0.97939	0.999883
gene2466	gene2466	SACOL2476	gi 57650036 ref NC_002951.2 :2532191-2533790	MVR	MR150	OK	4.59388	4.05076	-0.181518	0.265143	0.7909	0.999883
gene2467	gene2467	SACOL2477	gi 57650036 ref NC_002951.2 :2533932-2535147	MVR	MR150	NOTEST	0.41309	0.45265	0.131929	-0.126842	0.89907	1
gene2468	gene2468	SACOL2478	gi 57650036 ref NC_002951.2 :2535226-2536045	MVR	MR150	OK	0.98272	1.23676	0.331717	-0.357208	0.72094	0.999883
gene2469	gene2469	SACOL2479	gi 57650036 ref NC_002951.2 :2536055-2536877	MVR	MR150	OK	1.07557	0.24616	-2.12743	1.58536	0.11288	0.666893
gene247	gene247	SACOL0257	gi 57650036 ref NC_002951.2 :296294-297293	MVR	MR150	OK	6.03642	5.36632	-0.169762	0.244685	0.8067	0.999883
gene2470	gene2470	SACOL2480	gi 57650036 ref NC_002951.2 :2537024-2537156	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2471	gene2471	SACOL2481	gi 57650036 ref NC_002951.2 :2537619-2537985	MVR	MR150	OK	6.71501	7.26709	0.113989	-0.137473	0.89066	0.999883
gene2472	gene2472	fabG2	gi 57650036 ref NC_002951.2 :2538247-2539066	MVR	MR150	OK	11.1047	8.6573	-0.359179	0.524375	0.60002	0.999883
gene2473	gene2473	SACOL2483	gi 57650036 ref NC_002951.2 :2539298-2540837	MVR	MR150	OK	40.7848	39.0051	-0.0643671	0.084062	0.93301	0.999883
gene2474	gene2474	SACOL2484	gi 57650036 ref NC_002951.2 :2540948-2541371	MVR	MR150	OK	22.0925	22.5729	0.0310348	-0.04487	0.96421	0.999883
gene2475	gene2475	SACOL2485	gi 57650036 ref NC_002951.2 :2541822-2542242	MVR	MR150	OK	83.4607	94.2711	0.175719	-0.252918	0.80033	0.999883
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	MVR	MR150	OK	26.8372	28.42	0.0826715	-0.120591	0.90402	0.999883
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	MVR	MR150	OK	1.16277	1.36806	0.234568	-0.187001	0.85166	0.999883
gene2478	gene2478	SACOL2488	gi 57650036 ref NC_002951.2 :2543618-2544314	MVR	MR150	OK	72.709	59.5683	-0.287589	0.395638	0.69237	0.999883
gene2479	gene2479	SACOL2489	gi 57650036 ref NC_002951.2 :2544761-2544884	MVR	MR150	NOTEST	0	0	0	0	1	1
gene248	gene248	SACOL0258	gi 57650036 ref NC_002951.2 :297443-297623	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2480	gene2480	SACOL2491	gi 57650036 ref NC_002951.2 :2545143-2545335	MVR	MR150	OK	96.5754	48.0378	-1.00749	1.29351	0.19584	0.858688
gene2481	gene2481	SACOL2492	gi 57650036 ref NC_002951.2 :2545769-2545892	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2482	gene2482	SACOL2493	gi 57650036 ref NC_002951.2 :2545895-2546690	MVR	MR150	OK	5.8368	4.6318	-0.333605	0.466494	0.64086	0.999883
gene2483	gene2483	SACOL2494	gi 57650036 ref NC_002951.2 :2547225-2547513	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2484	gene2484	SACOL2495	gi 57650036 ref NC_002951.2 :2547515-2547842	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2485	gene2485	SACOL2496	gi 57650036 ref NC_002951.2 :2548053-2549948	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2486	gene2486	SACOL2497	gi 57650036 ref NC_002951.2 :2548053-2549948	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2487	gene2487	SACOL2498	gi 57650036 ref NC_002951.2 :2550059-2550836	MVR	MR150	OK	6.0267	5.57224	-0.113111	0.159356	0.87339	0.999883
gene2488	gene2488	SACOL2499	gi 57650036 ref NC_002951.2 :2551138-2554000	MVR	MR150	OK	11.7739	10.4155	-0.176861	0.245379	0.80616	0.999883
gene2489	gene2489	SACOL2500	gi 57650036 ref NC_002951.2 :2554001-2554394	MVR	MR150	OK	16.5879	11.8083	-0.490326	0.673841	0.50041	0.999883
gene249	gene249	SACOL0259	gi 57650036 ref NC_002951.2 :297672-298065	MVR	MR150	OK	4.73939	5.51055	0.217494	-0.253248	0.80008	0.999883
gene2490	gene2490	SACOL2501	gi 57650036 ref NC_002951.2 :2554510-2556319	MVR	MR150	OK	24.9083	31.8902	0.356485	-0.473158	0.6361	0.999883
gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	MVR	MR150	OK	24.6218	30.3751	0.302951	-0.404152	0.6861	0.999883
gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	MVR	MR150	OK	3.50209	5.27132	0.58995	-0.572787	0.56679	0.999883

gene2493	gene2493	SACOL2504	gi 57650036 ref NC_002951.2 :2557642-2558836	MVR	MR150	OK	4.64239	3.69769	-0.328243	0.470052	0.63832	0.999883
gene2494	gene2494	SACOL2505	gi 57650036 ref NC_002951.2 :2559219-2562951	MVR	MR150	OK	8.90415	7.85022	-0.181746	0.252082	0.80098	0.999883
gene2495	gene2495	sarT	gi 57650036 ref NC_002951.2 :2563255-2563612	MVR	MR150	OK	3.3404	2.87028	-0.218832	0.214478	0.83017	0.999883
gene2496	gene2496	sarU	gi 57650036 ref NC_002951.2 :2563935-2564679	MVR	MR150	NOTEST	0.22488	0	-1.79769e+3	-1.79769e+3	0.14006	1
gene2497	gene2497	galU	gi 57650036 ref NC_002951.2 :2564889-2565756	MVR	MR150	OK	41.8318	44.994	0.105132	-0.14633	0.88366	0.999883
gene2498	gene2498	fnbB	gi 57650036 ref NC_002951.2 :2565935-2568758	MVR	MR150	OK	8.48466	10.5119	0.309098	-0.435812	0.66297	0.999883
gene2499	gene2499	SACOL2510	gi 57650036 ref NC_002951.2 :2568918-2569041	MVR	MR150	NOTEST	0	0	0	0	1	1
gene25	gene25	SACOL0024	gi 57650036 ref NC_002951.2 :31025-33344	MVR	MR150	OK	8.4037	7.01187	-0.261226	0.378734	0.70489	0.999883
gene250	gene250	SACOL0260	gi 57650036 ref NC_002951.2 :298292-298697	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2500	gene2500	fnbA	gi 57650036 ref NC_002951.2 :2569439-2572496	MVR	MR150	OK	27.5224	41.017	0.575616	-0.701692	0.48287	0.999883
gene2501	gene2501	SACOL2513	gi 57650036 ref NC_002951.2 :2572737-2572932	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2502	gene2502	gntP	gi 57650036 ref NC_002951.2 :2572963-2574322	MVR	MR150	OK	10.8209	12.5536	0.214282	-0.312914	0.75435	0.999883
gene2503	gene2503	gntK	gi 57650036 ref NC_002951.2 :2574438-2575992	MVR	MR150	OK	5.7607	7.46577	0.374047	-0.549627	0.58258	0.999883
gene2504	gene2504	gntR	gi 57650036 ref NC_002951.2 :2576015-2576696	MVR	MR150	OK	7.41983	7.95654	0.100754	-0.143057	0.88625	0.999883
gene2505	gene2505	SACOL2517	gi 57650036 ref NC_002951.2 :2576849-2577614	MVR	MR150	OK	52.957	60.4277	0.190389	-0.262392	0.79302	0.999883
gene2506	gene2506	SACOL2518	gi 57650036 ref NC_002951.2 :2577778-2578471	MVR	MR150	OK	18.9479	22.047	0.218543	-0.321105	0.74813	0.999883
gene2507	gene2507	SACOL2519	gi 57650036 ref NC_002951.2 :2578701-2579190	MVR	MR150	OK	132.678	86.7909	-0.612318	0.847619	0.39665	0.999883
gene2508	gene2508	SACOL2520	gi 57650036 ref NC_002951.2 :2579256-2581149	MVR	MR150	OK	15.3844	10.6758	-0.527135	0.750528	0.45294	0.999883
gene2509	gene2509	SACOL2521	gi 57650036 ref NC_002951.2 :2581557-2582835	MVR	MR150	OK	259.402	255.44	-0.0222036	0.024155	0.98073	0.999883
gene251	gene251	SACOL0261	gi 57650036 ref NC_002951.2 :298737-300114	MVR	MR150	OK	2.73909	2.47234	-0.147819	0.206788	0.83618	0.999883
gene2510	gene2510	SACOL2522	gi 57650036 ref NC_002951.2 :2583381-2583993	MVR	MR150	OK	57.9998	46.4391	-0.320706	0.458559	0.64655	0.999883
gene2511	gene2511	SACOL2523	gi 57650036 ref NC_002951.2 :2584089-2585710	MVR	MR150	OK	3.35957	3.17726	-0.080494	0.109513	0.9128	0.999883
gene2512	gene2512	SACOL2524	gi 57650036 ref NC_002951.2 :2584089-2585710	MVR	MR150	OK	1.20771	0.57684	-1.06602	0.364917	0.71517	0.999883
gene2513	gene2513	SACOL2525	gi 57650036 ref NC_002951.2 :2586137-2586833	MVR	MR150	OK	5.07848	6.17288	0.281546	-0.389159	0.69716	0.999883
gene2514	gene2514	SACOL2526	gi 57650036 ref NC_002951.2 :2586834-2587605	MVR	MR150	OK	6.41344	8.04393	0.326801	-0.467382	0.64023	0.999883
gene2515	gene2515	SACOL2527	gi 57650036 ref NC_002951.2 :2587977-2589942	MVR	MR150	OK	80.9309	103.358	0.352888	-0.405398	0.68519	0.999883
gene2516	gene2516	SACOL2528	gi 57650036 ref NC_002951.2 :2590285-2591365	MVR	MR150	OK	34.9103	36.5444	0.0659984	-0.09106	0.92745	0.999883
gene2517	gene2517	SACOL2529	gi 57650036 ref NC_002951.2 :2591469-2592063	MVR	MR150	OK	24.7999	17.0926	-0.536969	0.788377	0.43048	0.999883
gene2518	gene2518	SACOL2530	gi 57650036 ref NC_002951.2 :2592084-2593053	MVR	MR150	OK	4.00312	1.99127	-1.00744	1.3454	0.1785	0.821737
gene2519	gene2519	SACOL2531	gi 57650036 ref NC_002951.2 :2593130-2593565	MVR	MR150	OK	29.1341	18.8403	-0.628885	0.91285	0.36132	0.999883
gene252	gene252	SACOL0262	gi 57650036 ref NC_002951.2 :300347-301340	MVR	MR150	OK	3.80219	5.4069	0.507971	-0.718997	0.47214	0.999883
gene2520	gene2520	SACOL2532	gi 57650036 ref NC_002951.2 :2593791-2594076	MVR	MR150	OK	67.0867	62.521	-0.101688	0.148315	0.88209	0.999883
gene2521	gene2521	SACOL2533	gi 57650036 ref NC_002951.2 :2594246-2595053	MVR	MR150	OK	100.394	142.515	0.505443	-0.638019	0.52346	0.999883

gene2522	gene2522	frp	gi 57650036 ref NC_002951.2 :2595172-2595844	MVR	MR150	OK	121.492	193.622	0.672385	-0.84888	0.39595	0.999883
gene2523	gene2523	SACOL2535	gi 57650036 ref NC_002951.2 :2596113-2597106	MVR	MR150	OK	1169.78	1256.14	0.102756	-0.104931	0.91643	0.999883
gene2524	gene2524	SACOL2536	gi 57650036 ref NC_002951.2 :2597354-2598155	MVR	MR150	OK	9.22155	9.68069	0.0701003	-0.102126	0.91866	0.999883
gene2525	gene2525	SACOL2537	gi 57650036 ref NC_002951.2 :2598475-2599111	MVR	MR150	OK	3.40527	4.91514	0.529462	-0.689543	0.49048	0.999883
gene2526	gene2526	SACOL2538	gi 57650036 ref NC_002951.2 :2599116-2599848	MVR	MR150	OK	9.32249	6.90656	-0.432749	0.620574	0.53488	0.999883
gene2527	gene2527	srtA	gi 57650036 ref NC_002951.2 :2600007-2600628	MVR	MR150	OK	131.926	133.07	0.0124489	-0.016217	0.98706	0.999883
gene2528	gene2528	SACOL2541	gi 57650036 ref NC_002951.2 :2600821-2601313	MVR	MR150	OK	16.1025	10.9998	-0.549807	0.781979	0.43423	0.999883
gene2529	gene2529	SACOL2542	gi 57650036 ref NC_002951.2 :2601750-2601921	MVR	MR150	OK	4.71154	10.8213	1.19961	-0.540211	0.58905	0.999883
gene253	gene253	lytM	gi 57650036 ref NC_002951.2 :301647-302616	MVR	MR150	OK	108.32	127.84	0.239038	-0.294003	0.76876	0.999883
gene2530	gene2530	SACOL2543	gi 57650036 ref NC_002951.2 :2601982-2602081	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2531	gene2531	sdaAA	gi 57650036 ref NC_002951.2 :2602099-2602999	MVR	MR150	OK	7.69861	7.87482	0.0326488	-0.047492	0.96212	0.999883
gene2532	gene2532	sdaAB	gi 57650036 ref NC_002951.2 :2603012-2603693	MVR	MR150	OK	2.43063	1.90957	-0.348086	0.412317	0.68011	0.999883
gene2533	gene2533	SACOL2546	gi 57650036 ref NC_002951.2 :2603695-2604739	MVR	MR150	OK	3.92237	1.63296	-1.26423	1.67704	0.09354	0.61426
gene2534	gene2534	SACOL2547	gi 57650036 ref NC_002951.2 :2605290-2605494	MVR	MR150	OK	31.0752	45.9906	0.565575	-0.684488	0.49367	0.999883
gene2535	gene2535	SACOL2548	gi 57650036 ref NC_002951.2 :2605649-2606612	MVR	MR150	OK	19.2285	26.4914	0.462276	-0.668096	0.50407	0.999883
gene2536	gene2536	SACOL2549	gi 57650036 ref NC_002951.2 :2606693-2607662	MVR	MR150	OK	45.9182	60.3355	0.393943	-0.529405	0.59653	0.999883
gene2537	gene2537	SACOL2550	gi 57650036 ref NC_002951.2 :2607794-2608139	MVR	MR150	OK	25.263	17.4928	-0.530264	0.738635	0.46013	0.999883
gene2538	gene2538	SACOL2551	gi 57650036 ref NC_002951.2 :2608180-2608591	MVR	MR150	OK	20.346	29.6037	0.541032	-0.781785	0.43434	0.999883
gene2539	gene2539	SACOL2552	gi 57650036 ref NC_002951.2 :2608970-2611037	MVR	MR150	OK	3.45925	3.03557	-0.188492	0.275366	0.78304	0.999883
gene254	gene254	SACOL0264	gi 57650036 ref NC_002951.2 :302667-303327	MVR	MR150	OK	11.9335	10.9817	-0.119918	0.174097	0.86179	0.999883
gene2540	gene2540	SACOL2553	gi 57650036 ref NC_002951.2 :2611337-2613077	MVR	MR150	OK	30.4785	22.975	-0.407731	0.547116	0.5843	0.999883
gene2541	gene2541	SACOL2554	gi 57650036 ref NC_002951.2 :2613123-2614201	MVR	MR150	OK	15.0551	9.68503	-0.636424	0.92107	0.35701	0.999883
gene2542	gene2542	SACOL2554.1	gi 57650036 ref NC_002951.2 :2613123-2614201	MVR	MR150	NOTEST	0.99938	0	-1.79769e+3(-1.79769e+0.32002	1		
gene2543	gene2543	SACOL2555	gi 57650036 ref NC_002951.2 :2614413-2615298	MVR	MR150	OK	20.3466	16.5414	-0.298705	0.437191	0.66197	0.999883
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	MVR	MR150	OK	5831.75	4982.77	-0.22698	0.252679	0.80052	0.999883
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	MVR	MR150	OK	218.469	159.222	-0.456392	0.611179	0.54108	0.999883
gene2546	gene2546	SACOL2559	gi 57650036 ref NC_002951.2 :2617256-2617514	MVR	MR150	OK	3.73983	4.17126	0.157513	-0.125571	0.90007	0.999883
gene2547	gene2547	SACOL2560	gi 57650036 ref NC_002951.2 :2618092-2619370	MVR	MR150	OK	42.6695	40.7738	-0.0655631	0.087117	0.93058	0.999883
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	MVR	MR150	OK	101.955	102.149	0.00274083	-0.003335	0.99734	0.999883
gene2549	gene2549	ogt	gi 57650036 ref NC_002951.2 :2620959-2621481	MVR	MR150	OK	275.648	361.592	0.391532	-0.475968	0.6341	0.999883
gene255	gene255	SACOL0265	gi 57650036 ref NC_002951.2 :303340-305424	MVR	MR150	OK	6.45999	2.7609	-1.22639	1.02952	0.30323	0.988092
gene2550	gene2550	SACOL2563	gi 57650036 ref NC_002951.2 :2621889-2623995	MVR	MR150	OK	14.7313	10.6884	-0.462836	0.65424	0.51296	0.999883
gene2551	gene2551	feoB	gi 57650036 ref NC_002951.2 :2624246-2626241	MVR	MR150	OK	3.00539	1.02399	-1.55335	2.14534	0.03193	0.343304

gene2552	gene2552	SACOL2565	gi 57650036 ref NC_002951.2 :2626252-2626480	MVR	MR150	OK	2.74492	0	-1.79769e+31	-1.79769e+0.14006	0.736107	
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	MVR	MR150	OK	10.4541	7.29104	-0.519875	0.744301	0.45669	0.999883
gene2554	gene2554	SACOL2567	gi 57650036 ref NC_002951.2 :2629392-2629878	MVR	MR150	OK	2.44765	2.13895	-0.194492	0.206506	0.8364	0.999883
gene2555	gene2555	SACOL2568	gi 57650036 ref NC_002951.2 :2629954-2630122	MVR	MR150	OK	10.3885	24.007	1.20846	-0.769615	0.44153	0.999883
gene2556	gene2556	SACOL2569	gi 57650036 ref NC_002951.2 :2630233-2631778	MVR	MR150	OK	269.144	264.302	-0.0261867	0.027793	0.97783	0.999883
gene2557	gene2557	SACOL2570	gi 57650036 ref NC_002951.2 :2631967-2632567	MVR	MR150	OK	12.9021	14.9232	0.209955	-0.305339	0.76011	0.999883
gene2558	gene2558	SACOL2571	gi 57650036 ref NC_002951.2 :2632805-2632997	MVR	MR150	OK	83.1622	180.142	1.11513	-1.53335	0.12519	0.701233
gene2559	gene2559	SACOL2572	gi 57650036 ref NC_002951.2 :2633236-2635645	MVR	MR150	OK	25.2703	30.5801	0.275148	-0.353729	0.72354	0.999883
gene256	gene256	SACOL0266	gi 57650036 ref NC_002951.2 :303340-305424	MVR	MR150	OK	6.3877	5.70134	-0.163995	0.193087	0.84689	0.999883
gene2560	gene2560	SACOL2573	gi 57650036 ref NC_002951.2 :2635935-2636142	MVR	MR150	OK	130.903	186.331	0.509368	-0.736913	0.46118	0.999883
gene2561	gene2561	SACOL2574	gi 57650036 ref NC_002951.2 :2636231-2637230	MVR	MR150	OK	45.7259	50.7883	0.151486	-0.204625	0.83787	0.999883
gene2562	gene2562	SACOL2575	gi 57650036 ref NC_002951.2 :2637252-2638407	MVR	MR150	OK	18.0909	21.0071	0.215615	-0.310621	0.75609	0.999883
gene2563	gene2563	crtN	gi 57650036 ref NC_002951.2 :2638833-2640342	MVR	MR150	OK	15.5659	12.6366	-0.300788	0.433548	0.66462	0.999883
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	MVR	MR150	OK	10.9638	10.3769	-0.0793692	0.116429	0.90731	0.999883
gene2565	gene2565	SACOL2578	gi 57650036 ref NC_002951.2 :2641253-2644361	MVR	MR150	OK	20.4331	12.7482	-0.680611	0.5548	0.57903	0.999883
gene2566	gene2566	SACOL2579	gi 57650036 ref NC_002951.2 :2641253-2644361	MVR	MR150	OK	21.0918	14.5584	-0.534826	0.534372	0.59308	0.999883
gene2567	gene2567	SACOL2580	gi 57650036 ref NC_002951.2 :2641253-2644361	MVR	MR150	OK	13.6419	8.99662	-0.60059	0.221822	0.82445	0.999883
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	MVR	MR150	OK	628.435	526.693	-0.2548	0.273121	0.78476	0.999883
gene2569	gene2569	SACOL2582	gi 57650036 ref NC_002951.2 :2645663-2647475	MVR	MR150	OK	30.7543	33.0661	0.104564	-0.137059	0.89098	0.999883
gene257	gene257	SACOL0267	gi 57650036 ref NC_002951.2 :305491-307015	MVR	MR150	OK	26.8587	27.1848	0.0174133	-0.023691	0.9811	0.999883
gene2570	gene2570	SACOL2583	gi 57650036 ref NC_002951.2 :2647986-2648475	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	MVR	MR150	OK	2962.14	2945.28	-0.008235	0.008493	0.99322	0.999883
gene2572	gene2572	SACOL2585	gi 57650036 ref NC_002951.2 :2650059-2651115	MVR	MR150	OK	3.79553	2.68347	-0.500203	0.690516	0.48987	0.999883
gene2573	gene2573	SACOL2587	gi 57650036 ref NC_002951.2 :2651491-2652094	MVR	MR150	OK	21.4364	19.3699	-0.146252	0.214978	0.82978	0.999883
gene2574	gene2574	SACOL2588	gi 57650036 ref NC_002951.2 :2652291-2652792	MVR	MR150	OK	3.58046	5.08197	0.505242	-0.620676	0.53481	0.999883
gene2575	gene2575	SACOL2589	gi 57650036 ref NC_002951.2 :2653011-2653242	MVR	MR150	OK	21.0197	5.82901	-1.85042	1.80668	0.07081	0.522414
gene2576	gene2576	SACOL2590	gi 57650036 ref NC_002951.2 :2653391-2653769	MVR	MR150	OK	19.8727	35.722	0.846023	-1.21263	0.22527	0.89446
gene2577	gene2577	SACOL2591	gi 57650036 ref NC_002951.2 :2653785-2654607	MVR	MR150	OK	11.7335	13.0464	0.153028	-0.224752	0.82217	0.999883
gene2578	gene2578	SACOL2592	gi 57650036 ref NC_002951.2 :2654626-2654926	MVR	MR150	OK	6.90056	1.41379	-2.28715	1.70438	0.08831	0.597292
gene2579	gene2579	SACOL2593	gi 57650036 ref NC_002951.2 :2655056-2656311	MVR	MR150	OK	6.29724	11.1143	0.81962	-0.870129	0.38423	0.999883
gene258	gene258	SACOL0268	gi 57650036 ref NC_002951.2 :307285-307939	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2580	gene2580	SACOL2594	gi 57650036 ref NC_002951.2 :2655056-2656311	MVR	MR150	OK	4.86197	4.85036	-0.0034485	0.00333	0.99734	0.999883
gene2581	gene2581	SACOL2595	gi 57650036 ref NC_002951.2 :2656320-2657419	MVR	MR150	NOTEST	0	0	0	0	1	1

gene2582	gene2582	SACOL2596	gi 57650036 ref NC_002951.2 :2656320-2657419	MVR	MR150	OK	6.46455	9.06334	0.487494	-0.70392	0.48148	0.999883
gene2583	gene2583	SACOL2597	gi 57650036 ref NC_002951.2 :2657438-2658269	MVR	MR150	OK	13.1008	18.1988	0.474183	-0.696197	0.48631	0.999883
gene2584	gene2584	SACOL2598	gi 57650036 ref NC_002951.2 :2658415-2659306	MVR	MR150	OK	7.18877	4.87503	-0.560333	0.800917	0.42318	0.999883
gene2585	gene2585	SACOL2599	gi 57650036 ref NC_002951.2 :2659403-2660723	MVR	MR150	OK	8.5378	8.06785	-0.0816794	0.120108	0.9044	0.999883
gene2586	gene2586	SACOL2600	gi 57650036 ref NC_002951.2 :2660737-2661844	MVR	MR150	OK	7.68258	8.44213	0.136015	-0.199635	0.84177	0.999883
gene2587	gene2587	SACOL2601	gi 57650036 ref NC_002951.2 :2662177-2662830	MVR	MR150	OK	1.92932	4.34557	1.17145	-0.592526	0.5535	0.999883
gene2588	gene2588	SACOL2602	gi 57650036 ref NC_002951.2 :2662177-2662830	MVR	MR150	OK	8.92265	8.03925	-0.150412	0.175752	0.86049	0.999883
gene2589	gene2589	SACOL2603	gi 57650036 ref NC_002951.2 :2662844-2663123	MVR	MR150	OK	4.52567	1.69174	-1.41962	1.01027	0.31237	0.994118
gene259	gene259	SACOL0269	gi 57650036 ref NC_002951.2 :307972-308560	MVR	MR150	NOTEST	0.48167	0.78893	0.711847	-0.520439	0.60276	1
gene2590	gene2590	SACOL2605	gi 57650036 ref NC_002951.2 :2663464-2664274	MVR	MR150	OK	7.08439	4.01598	-0.818892	1.14665	0.25153	0.927778
gene2591	gene2591	pyrD	gi 57650036 ref NC_002951.2 :2664548-2665613	MVR	MR150	OK	6.25821	3.71778	-0.751307	1.074	0.28283	0.968672
gene2592	gene2592	SACOL2607	gi 57650036 ref NC_002951.2 :2665767-2666043	MVR	MR150	OK	63.6441	41.7473	-0.608344	0.872664	0.38285	0.999883
gene2593	gene2593	SACOL2608	gi 57650036 ref NC_002951.2 :2666228-2666951	MVR	MR150	OK	28.7059	27.2231	-0.0765172	0.111515	0.91121	0.999883
gene2594	gene2594	SACOL2609	gi 57650036 ref NC_002951.2 :2667304-2667754	MVR	MR150	OK	1760.64	1837.71	0.0618163	-0.064649	0.94845	0.999883
gene2595	gene2595	SACOL2610	gi 57650036 ref NC_002951.2 :2667834-2668422	MVR	MR150	OK	13.4869	13.4119	-0.0080453	0.011672	0.99069	0.999883
gene2596	gene2596	SACOL2612	gi 57650036 ref NC_002951.2 :2668554-2670237	MVR	MR150	OK	7.17565	6.19683	-0.211578	0.310951	0.75584	0.999883
gene2597	gene2597	panD	gi 57650036 ref NC_002951.2 :2670365-2670749	MVR	MR150	OK	23.8318	41.2052	0.789939	-1.14443	0.25245	0.92853
gene2598	gene2598	panC	gi 57650036 ref NC_002951.2 :2670750-2672413	MVR	MR150	OK	18.9013	20.6659	0.128765	-0.116402	0.90733	0.999883
gene2599	gene2599	panB	gi 57650036 ref NC_002951.2 :2670750-2672413	MVR	MR150	OK	23.9783	32.403	0.434403	-0.454979	0.64912	0.999883
gene26	gene26	SACOL0025	gi 57650036 ref NC_002951.2 :33575-34055	MVR	MR150	OK	44.3907	46.4214	0.064532	-0.094492	0.92472	0.999883
gene260	gene260	SACOL0270	gi 57650036 ref NC_002951.2 :308702-309596	MVR	MR150	OK	7.15659	6.83968	-0.0653428	0.094524	0.92469	0.999883
gene2600	gene2600	SACOL2616	gi 57650036 ref NC_002951.2 :2672485-2673346	MVR	MR150	OK	15.8805	17.3733	0.129612	-0.190268	0.8491	0.999883
gene2601	gene2601	budA2	gi 57650036 ref NC_002951.2 :2673431-2674136	MVR	MR150	OK	32.089	28.4959	-0.171326	0.249278	0.80315	0.999883
gene2602	gene2602	ldh2	gi 57650036 ref NC_002951.2 :2674413-2675373	MVR	MR150	OK	11.3616	11.2831	-0.0100074	0.014716	0.98826	0.999883
gene2603	gene2603	SACOL2619	gi 57650036 ref NC_002951.2 :2676059-2677508	MVR	MR150	OK	99.7356	82.5261	-0.273257	0.326883	0.74376	0.999883
gene2604	gene2604	SACOL2620	gi 57650036 ref NC_002951.2 :2677588-2678926	MVR	MR150	OK	17.5872	15.2077	-0.209731	0.302185	0.76251	0.999883
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	MVR	MR150	OK	3.59098	4.91781	0.45364	-0.518069	0.60441	0.999883
gene2606	gene2606	fdaB	gi 57650036 ref NC_002951.2 :2679722-2680613	MVR	MR150	OK	168.673	197.882	0.230411	-0.272398	0.78532	0.999883
gene2607	gene2607	mqa2	gi 57650036 ref NC_002951.2 :2680805-2682302	MVR	MR150	OK	430.26	457.943	0.0899606	-0.092634	0.92619	0.999883
gene2608	gene2608	SACOL2624	gi 57650036 ref NC_002951.2 :2682986-2684585	MVR	MR150	OK	88.2195	107.509	0.285295	-0.33401	0.73837	0.999883
gene2609	gene2609	SACOL2625	gi 57650036 ref NC_002951.2 :2684778-2685222	MVR	MR150	OK	20.5906	16.9022	-0.284777	0.40969	0.68203	0.999883
gene261	gene261	SACOL0271	gi 57650036 ref NC_002951.2 :309843-310137	MVR	MR150	OK	649.035	437.991	-0.567396	0.743426	0.45722	0.999883
gene2610	gene2610	SACOL2626	gi 57650036 ref NC_002951.2 :2685502-2685715	MVR	MR150	OK	57.7298	62.0228	0.103482	-0.139414	0.88912	0.999883

gene2611	gene2611	betA	gi 57650036 ref NC_002951.2 :2685992-2687702	MVR	MR150	OK	65.1788	115.838	0.829633	-0.975566	0.32928	0.999883
gene2612	gene2612	betB	gi 57650036 ref NC_002951.2 :2687962-2689453	MVR	MR150	OK	111.432	195.75	0.81284	-0.917846	0.3587	0.999883
gene2613	gene2613	SACOL2629	gi 57650036 ref NC_002951.2 :2689521-2689617	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2614	gene2614	SACOL2630	gi 57650036 ref NC_002951.2 :2689705-2690269	MVR	MR150	OK	33.1671	42.4641	0.356493	-0.520445	0.60275	0.999883
gene2615	gene2615	SACOL2631	gi 57650036 ref NC_002951.2 :2690456-2691143	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2616	gene2616	cudT	gi 57650036 ref NC_002951.2 :2691406-2693029	MVR	MR150	OK	92.8101	154.24	0.732821	-0.837346	0.4024	0.999883
gene2617	gene2617	nrdG	gi 57650036 ref NC_002951.2 :2693547-2695931	MVR	MR150	OK	16.9798	18.1622	0.097119	-0.080819	0.93559	0.999883
gene2618	gene2618	nrdD	gi 57650036 ref NC_002951.2 :2693547-2695931	MVR	MR150	OK	7.80089	6.12305	-0.349388	0.410881	0.68116	0.999883
gene2619	gene2619	SACOL2636	gi 57650036 ref NC_002951.2 :2696177-2697548	MVR	MR150	OK	1.22374	0.78474	-0.641014	0.774943	0.43837	0.999883
gene262	gene262	SACOL0272	gi 57650036 ref NC_002951.2 :310220-313922	MVR	MR150	OK	8.12979	6.6578	-0.288172	0.385441	0.69991	0.999883
gene2620	gene2620	SACOL2637	gi 57650036 ref NC_002951.2 :2697869-2697965	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2621	gene2621	SACOL2638	gi 57650036 ref NC_002951.2 :2698040-2698646	MVR	MR150	OK	11.6288	8.67095	-0.423439	0.605114	0.5451	0.999883
gene2622	gene2622	cysJ	gi 57650036 ref NC_002951.2 :2698708-2700589	MVR	MR150	OK	6.24775	7.10722	0.185947	-0.272809	0.785	0.999883
gene2623	gene2623	SACOL2640	gi 57650036 ref NC_002951.2 :2700783-2700876	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2624	gene2624	gpxA2	gi 57650036 ref NC_002951.2 :2700983-2701481	MVR	MR150	OK	6.17395	2.56647	-1.26641	1.51652	0.12939	0.7118
gene2625	gene2625	SACOL2642	gi 57650036 ref NC_002951.2 :2702175-2702289	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2626	gene2626	SACOL2643	gi 57650036 ref NC_002951.2 :2702904-2705666	MVR	MR150	OK	8.72241	8.93007	0.0339447	-0.04265	0.96598	0.999883
gene2627	gene2627	SACOL2644	gi 57650036 ref NC_002951.2 :2702904-2705666	MVR	MR150	OK	9.18642	7.85832	-0.225283	0.154294	0.87738	0.999883
gene2628	gene2628	nsaS	gi 57650036 ref NC_002951.2 :2705764-2706652	MVR	MR150	OK	12.8573	14.0212	0.125016	-0.183814	0.85416	0.999883
gene2629	gene2629	SACOL2646	gi 57650036 ref NC_002951.2 :2706662-2707328	MVR	MR150	OK	26.1887	22.0093	-0.250826	0.368147	0.71276	0.999883
gene263	gene263	SACOL0273	gi 57650036 ref NC_002951.2 :310220-313922	MVR	MR150	OK	10.6456	9.4416	-0.173153	0.079951	0.93628	0.999883
gene2630	gene2630	SACOL2647	gi 57650036 ref NC_002951.2 :2707353-2707554	MVR	MR150	OK	46.2431	29.3703	-0.654883	0.782914	0.43368	0.999883
gene2631	gene2631	SACOL2648	gi 57650036 ref NC_002951.2 :2707751-2709176	MVR	MR150	OK	2.24007	1.87539	-0.25635	0.351174	0.72546	0.999883
gene2632	gene2632	SACOL2649	gi 57650036 ref NC_002951.2 :2709235-2709337	MVR	MR150	OK	6008.4	6494.11	0.112152	-0.050505	0.95972	0.999883
gene2633	gene2633	SACOL2650	gi 57650036 ref NC_002951.2 :2709458-2709914	MVR	MR150	OK	22.0613	19.6995	-0.163356	0.237099	0.81258	0.999883
gene2634	gene2634	SACOL2651	gi 57650036 ref NC_002951.2 :2710158-2710920	MVR	MR150	OK	7.17274	6.2657	-0.195048	0.277457	0.78143	0.999883
gene2635	gene2635	clfB	gi 57650036 ref NC_002951.2 :2711035-2713777	MVR	MR150	OK	71.7098	77.9766	0.120871	-0.136449	0.89147	0.999883
gene2636	gene2636	SACOL2653	gi 57650036 ref NC_002951.2 :2714126-2714813	MVR	MR150	OK	43.3111	42.122	-0.040163	0.057544	0.95411	0.999883
gene2637	gene2637	arcC2	gi 57650036 ref NC_002951.2 :2714929-2715871	MVR	MR150	OK	22.8041	18.5732	-0.296067	0.43056	0.66679	0.999883
gene2638	gene2638	arcD	gi 57650036 ref NC_002951.2 :2715887-2717318	MVR	MR150	OK	12.356	7.83826	-0.656611	0.960303	0.3369	0.999883
gene2639	gene2639	arcB2	gi 57650036 ref NC_002951.2 :2717408-2718419	MVR	MR150	OK	7.57912	5.47577	-0.46897	0.680309	0.49631	0.999883
gene264	gene264	SACOL0274	gi 57650036 ref NC_002951.2 :310220-313922	MVR	MR150	OK	2.23444	0	-1.79769e+3(-1.79769e+	0.42293	0.999883	
gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	MVR	MR150	OK	8.37944	7.8348	-0.0969562	0.142558	0.88664	0.999883

gene2641	gene2641	SACOL2658	gi 57650036 ref NC_002951.2 :2720033-2720483	MVR	MR150	OK	2.05742	1.83344	-0.166285	0.162976	0.87054	0.999883
gene2642	gene2642	aur	gi 57650036 ref NC_002951.2 :2720849-2722379	MVR	MR150	OK	1.2987	2.41832	0.89694	-1.21219	0.22544	0.89446
gene2643	gene2643	isaB	gi 57650036 ref NC_002951.2 :2722802-2723330	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2644	gene2644	SACOL2661	gi 57650036 ref NC_002951.2 :2723587-2724046	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2645	gene2645	SACOL2662	gi 57650036 ref NC_002951.2 :2724285-2726160	MVR	MR150	OK	4.95968	4.20645	-0.237646	0.349051	0.72705	0.999883
gene2646	gene2646	SACOL2663	gi 57650036 ref NC_002951.2 :2726236-2728189	MVR	MR150	OK	4.73597	4.1067	-0.205682	0.302165	0.76253	0.999883
gene2647	gene2647	manA2	gi 57650036 ref NC_002951.2 :2728202-2729141	MVR	MR150	OK	6.62456	7.66665	0.21077	-0.306036	0.75958	0.999883
gene2648	gene2648	SACOL2665	gi 57650036 ref NC_002951.2 :2729252-2732234	MVR	MR150	OK	17.2212	21.199	0.299809	-0.391354	0.69554	0.999883
gene2649	gene2649	SACOL2666	gi 57650036 ref NC_002951.2 :2732444-2734304	MVR	MR150	OK	37.0381	41.4295	0.161649	-0.206569	0.83635	0.999883
gene265	gene265	SACOL0275	gi 57650036 ref NC_002951.2 :313934-315269	MVR	MR150	OK	4.84297	1.88911	-1.35818	1.89779	0.05772	0.48127
gene2650	gene2650	SACOL2667	gi 57650036 ref NC_002951.2 :2734570-2735131	MVR	MR150	OK	75.5907	81.8175	0.1142	-0.159474	0.8733	0.999883
gene2651	gene2651	SACOL2668	gi 57650036 ref NC_002951.2 :2735298-2737206	MVR	MR150	OK	22.4717	24.7512	0.139385	-0.187237	0.85148	0.999883
gene2652	gene2652	SACOL2669	gi 57650036 ref NC_002951.2 :2737447-2740307	MVR	MR150	OK	17.2104	16.2536	-0.0825175	0.074447	0.94066	0.999883
gene2653	gene2653	SACOL2670	gi 57650036 ref NC_002951.2 :2737447-2740307	MVR	MR150	OK	17.7506	17.5508	-0.0163346	0.016098	0.98716	0.999883
gene2654	gene2654	SACOL2671	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	MR150	OK	12.3892	14.4019	0.217176	-0.247474	0.80454	0.999883
gene2655	gene2655	SACOL2672	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	MR150	OK	3.57534	4.23117	0.242973	-0.087474	0.9303	0.999883
gene2656	gene2656	SACOL2673	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	MR150	OK	3.95709	1.90194	-1.05697	0.41654	0.67702	0.999883
gene2657	gene2657	SACOL2674	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	MR150	OK	3.69388	2.60171	-0.50568	0.216217	0.82882	0.999883
gene2658	gene2658	secY	gi 57650036 ref NC_002951.2 :2746763-2747975	MVR	MR150	OK	2.4269	2.26996	-0.0964436	0.131281	0.89555	0.999883
gene2659	gene2659	SACOL2676	gi 57650036 ref NC_002951.2 :2748104-2754890	MVR	MR150	OK	8.18339	9.74625	0.252149	-0.325599	0.74473	0.999883
gene266	gene266	yukA	gi 57650036 ref NC_002951.2 :315290-319730	MVR	MR150	OK	4.06522	3.32394	-0.290437	0.42177	0.67319	0.999883
gene2660	gene2660	SACOL2677	gi 57650036 ref NC_002951.2 :2755243-2755354	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2661	gene2661	SACOL2678	gi 57650036 ref NC_002951.2 :2755434-2756127	MVR	MR150	NOTEST	0.8726	0.31052	-1.49063	1.07542	0.28219	1
gene2662	gene2662	SACOL2680	gi 57650036 ref NC_002951.2 :2756807-2757110	MVR	MR150	OK	3.67309	0	-1.79769e+30	-1.79769e+30	0.03257	0.346169
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	MVR	MR150	OK	29.5052	14.1018	-1.06509	1.48605	0.13727	0.733066
gene2664	gene2664	SACOL2682	gi 57650036 ref NC_002951.2 :2757707-2758319	MVR	MR150	OK	4.82076	2.60059	-0.890421	1.1188	0.26323	0.945272
gene2665	gene2665	SACOL2683	gi 57650036 ref NC_002951.2 :2758397-2758874	MVR	MR150	OK	2.99387	3.31209	0.145727	-0.165583	0.86849	0.999883
gene2666	gene2666	SACOL2684	gi 57650036 ref NC_002951.2 :2758876-2759377	MVR	MR150	OK	3.36985	2.03279	-0.729223	0.806976	0.41968	0.999883
gene2667	gene2667	cap1C	gi 57650036 ref NC_002951.2 :2759611-2761068	MVR	MR150	OK	2.36456	2.69546	0.188962	-0.192722	0.84718	0.999883
gene2668	gene2668	cap1B	gi 57650036 ref NC_002951.2 :2759611-2761068	MVR	MR150	OK	3.11643	1.24208	-1.32713	1.08258	0.27899	0.965142
gene2669	gene2669	cap1A	gi 57650036 ref NC_002951.2 :2761084-2761747	MVR	MR150	NOTEST	0.79901	0.33062	-1.27303	0.905949	0.36496	1
gene267	gene267	SACOL0277	gi 57650036 ref NC_002951.2 :319759-320152	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2670	gene2670	icaR	gi 57650036 ref NC_002951.2 :2762595-2763156	MVR	MR150	OK	33.1143	36.4575	0.138764	-0.203193	0.83898	0.999883

gene2671	gene2671	icaA	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	MR150	OK	1.20999	0.8844	-0.452223	0.283796	0.77657	0.999883
gene2672	gene2672	icaD	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	MR150	OK	1.79294	0	-1.79769e+3(-1.79769e+3)	0.30674	0.991033	
gene2673	gene2673	icaB	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	MR150	OK	1.3391	0.22551	-2.57002	0.791167	0.42885	0.999883
gene2674	gene2674	icaC	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	MR150	OK	4.52013	5.03264	0.154953	-0.188777	0.85027	0.999883
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2676	gene2676	geh	gi 57650036 ref NC_002951.2 :2767124-2769167	MVR	MR150	OK	61.9303	70.6439	0.189921	-0.22516	0.82186	0.999883
gene2677	gene2677	SACOL2695	gi 57650036 ref NC_002951.2 :2769887-2770100	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2678	gene2678	hisI	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	MR150	OK	4.00192	2.12107	-0.9159	0.469864	0.63845	0.999883
gene2679	gene2679	hisF	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	MR150	OK	4.59005	3.56048	-0.36644	0.253278	0.80005	0.999883
gene268	gene268	SACOL0278	gi 57650036 ref NC_002951.2 :320167-321473	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2680	gene2680	hisA	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	MR150	OK	6.44211	4.54721	-0.50255	0.382128	0.70237	0.999883
gene2681	gene2681	hisH	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	MR150	OK	3.1277	2.01911	-0.631384	0.281664	0.7782	0.999883
gene2682	gene2682	hisB	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	MR150	OK	2.30462	2.42293	0.0722228	-0.030771	0.97545	0.999883
gene2683	gene2683	SACOL2701	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	MR150	OK	3.47908	1.69312	-1.03903	0.669735	0.50303	0.999883
gene2684	gene2684	hisD	gi 57650036 ref NC_002951.2 :2774491-2776349	MVR	MR150	OK	2.60428	2.02847	-0.360493	0.447177	0.65475	0.999883
gene2685	gene2685	hisG	gi 57650036 ref NC_002951.2 :2774491-2776349	MVR	MR150	OK	2.09293	1.10649	-0.919533	0.561858	0.57421	0.999883
gene2686	gene2686	hisZ	gi 57650036 ref NC_002951.2 :2776366-2777185	MVR	MR150	OK	2.84988	1.73146	-0.718909	0.897332	0.36954	0.999883
gene2687	gene2687	SACOL2705	gi 57650036 ref NC_002951.2 :2777489-2778614	MVR	MR150	OK	19.6018	18.0459	-0.119315	0.17255	0.86301	0.999883
gene2688	gene2688	SACOL2706	gi 57650036 ref NC_002951.2 :2778731-2779229	MVR	MR150	OK	1.49026	1.02659	-0.53771	0.482888	0.62918	0.999883
gene2689	gene2689	SACOL2707	gi 57650036 ref NC_002951.2 :2779275-2781818	MVR	MR150	OK	2.20469	1.44902	-0.605502	0.527338	0.59796	0.999883
gene269	gene269	SACOL0279	gi 57650036 ref NC_002951.2 :320167-321473	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2690	gene2690	SACOL2708	gi 57650036 ref NC_002951.2 :2779275-2781818	MVR	MR150	OK	2.04255	0.40493	-2.33462	2.1972	0.02801	0.316692
gene2691	gene2691	SACOL2709	gi 57650036 ref NC_002951.2 :2781870-2782425	MVR	MR150	OK	2.11801	1.72431	-0.296692	0.318354	0.75022	0.999883
gene2692	gene2692	SACOL2710	gi 57650036 ref NC_002951.2 :2782453-2783302	MVR	MR150	OK	2.99381	3.06702	0.0348529	-0.046255	0.96311	0.999883
gene2693	gene2693	SACOL2711	gi 57650036 ref NC_002951.2 :2783681-2784197	MVR	MR150	OK	159.522	217.867	0.449692	-0.582161	0.56046	0.999883
gene2694	gene2694	drp35	gi 57650036 ref NC_002951.2 :2784345-2785317	MVR	MR150	OK	5.08157	4.56214	-0.155563	0.221167	0.82496	0.999883
gene2695	gene2695	SACOL2713	gi 57650036 ref NC_002951.2 :2785560-2786517	MVR	MR150	OK	37.7346	43.2884	0.198093	-0.274083	0.78402	0.999883
gene2696	gene2696	pcp	gi 57650036 ref NC_002951.2 :2786668-2787307	MVR	MR150	OK	5.63448	5.23026	-0.107398	0.145979	0.88394	0.999883
gene2697	gene2697	SACOL2715	gi 57650036 ref NC_002951.2 :2787425-2788521	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2698	gene2698	SACOL2716	gi 57650036 ref NC_002951.2 :2787425-2788521	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2699	gene2699	SACOL2717	gi 57650036 ref NC_002951.2 :2788687-2789152	MVR	MR150	OK	10.1447	10.3831	0.0335108	-0.04615	0.96319	0.999883
gene27	gene27	SACOL0026	gi 57650036 ref NC_002951.2 :34371-35667	MVR	MR150	NOTEST	0	0	0	0	1	1
gene270	gene270	SACOL0280	gi 57650036 ref NC_002951.2 :320167-321473	MVR	MR150	NOTEST	0	0	0	0	1	1

gene2700	gene2700	SACOL2718	gi 57650036 ref NC_002951.2 :2789389-2790808	MVR	MR150	OK	10.082	8.92052	-0.176575	0.258939	0.79568	0.999883
gene2701	gene2701	rarD	gi 57650036 ref NC_002951.2 :2791220-2792129	MVR	MR150	OK	17.7559	13.6061	-0.38405	0.563531	0.57307	0.999883
gene2702	gene2702	SACOL2720	gi 57650036 ref NC_002951.2 :2792353-2792929	MVR	MR150	OK	1.1621	0.81408	-0.513492	0.46114	0.6447	0.999883
gene2703	gene2703	nixA	gi 57650036 ref NC_002951.2 :2793057-2794110	MVR	MR150	OK	5.50226	5.20627	-0.0797743	0.115025	0.90843	0.999883
gene2704	gene2704	SACOL2722	gi 57650036 ref NC_002951.2 :2794352-2795147	MVR	MR150	NOTEST	0.3072	0.77197	1.32936	-1.01579	0.30973	1
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	MVR	MR150	OK	7.2705	3.42143	-1.08745	1.37622	0.16875	0.808247
gene2706	gene2706	SACOL2724	gi 57650036 ref NC_002951.2 :2796075-2798704	MVR	MR150	OK	2.18574	2.19106	0.00350932	-0.002738	0.99782	0.999883
gene2707	gene2707	SACOL2725	gi 57650036 ref NC_002951.2 :2796075-2798704	MVR	MR150	OK	1.97669	1.36677	-0.532314	0.630699	0.52824	0.999883
gene2708	gene2708	SACOL2726	gi 57650036 ref NC_002951.2 :2798796-2798988	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2709	gene2709	SACOL2727	gi 57650036 ref NC_002951.2 :2798999-2799536	MVR	MR150	OK	1.86591	4.54055	1.28299	-1.46757	0.14222	0.740755
gene271	gene271	SACOL0281	gi 57650036 ref NC_002951.2 :321482-323327	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2710	gene2710	SACOL2728	gi 57650036 ref NC_002951.2 :2799595-2800093	MVR	MR150	OK	3.40632	6.67283	0.970085	-1.20405	0.22857	0.898537
gene2711	gene2711	SACOL2729	gi 57650036 ref NC_002951.2 :2800171-2800522	MVR	MR150	OK	3.03664	6.94183	1.19284	-1.25338	0.21007	0.888513
gene2712	gene2712	SACOL2730	gi 57650036 ref NC_002951.2 :2800550-2800742	MVR	MR150	NOTEST	0	0	0	0	1	1
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	MVR	MR150	OK	2065.53	2168.5	0.0701905	-0.090242	0.9281	0.999883
gene2714	gene2714	SACOL2732	gi 57650036 ref NC_002951.2 :2801461-2802031	MVR	MR150	OK	6.24863	3.30904	-0.91713	1.17943	0.23823	0.909302
gene2715	gene2715	SACOL2733	gi 57650036 ref NC_002951.2 :2802290-2802671	MVR	MR150	OK	9.0441	4.1856	-1.11154	1.31751	0.18767	0.844299
gene2716	gene2716	SACOL2734	gi 57650036 ref NC_002951.2 :2802753-2803107	MVR	MR150	OK	4.25552	0	-1.79769e+3(-1.79769e+0.01669	0.231165		
gene2717	gene2717	SACOL2735	gi 57650036 ref NC_002951.2 :2803560-2804400	MVR	MR150	OK	45.9427	56.2214	0.291285	-0.400554	0.68875	0.999883
gene2718	gene2718	gidB	gi 57650036 ref NC_002951.2 :2804442-2807039	MVR	MR150	OK	33.9481	36.5067	0.104832	-0.064649	0.94845	0.999883
gene2719	gene2719	gidA	gi 57650036 ref NC_002951.2 :2804442-2807039	MVR	MR150	OK	34.5841	33.0437	-0.0657316	0.07198	0.94262	0.999883
gene272	gene272	SACOL0282	gi 57650036 ref NC_002951.2 :323337-323829	MVR	MR150	NOTEST	0.2176	0	-1.79769e+3(-1.79769e+0.22252	1		
gene2720	gene2720	trmE	gi 57650036 ref NC_002951.2 :2807105-2808485	MVR	MR150	OK	28.787	31.4098	0.125796	-0.171308	0.86398	0.999883
gene2721	gene2721	rnpA	gi 57650036 ref NC_002951.2 :2808623-2808971	MVR	MR150	OK	26.0972	25.2507	-0.0475721	0.067595	0.94611	0.999883
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	MVR	MR150	OK	3912.94	3760.41	-0.0573653	0.084219	0.93288	0.999883
gene273	gene273	SACOL0283	gi 57650036 ref NC_002951.2 :324036-324720	MVR	MR150	NOTEST	0	0	0	0	1	1
gene274	gene274	SACOL0284	gi 57650036 ref NC_002951.2 :324866-325478	MVR	MR150	NOTEST	0	0	0	0	1	1
gene275	gene275	SACOL0285	gi 57650036 ref NC_002951.2 :325613-325832	MVR	MR150	OK	20.5288	10.4974	-0.967613	1.00493	0.31493	0.998619
gene276	gene276	SACOL0286	gi 57650036 ref NC_002951.2 :325963-326464	MVR	MR150	NOTEST	0.84246	0.5082	-0.729223	0.485637	0.62722	1
gene277	gene277	SACOL0287	gi 57650036 ref NC_002951.2 :326474-326975	MVR	MR150	NOTEST	0	0	0	0	1	1
gene278	gene278	SACOL0288	gi 57650036 ref NC_002951.2 :326985-327481	MVR	MR150	OK	1.71553	3.1005	0.853843	-0.90586	0.36501	0.999883
gene279	gene279	SACOL0289	gi 57650036 ref NC_002951.2 :327491-327983	MVR	MR150	NOTEST	0	0	0	0	1	1
gene28	gene28	SACOL0027	gi 57650036 ref NC_002951.2 :36081-36321	MVR	MR150	NOTEST	0	0	0	0	1	1

gene280	gene280	SACOL0290	gi 57650036 ref NC_002951.2 :328192-328876	MVR	MR150	NOTEST	0	0	0	0	1	1
gene281	gene281	SACOL0291	gi 57650036 ref NC_002951.2 :329461-329962	MVR	MR150	NOTEST	0	0	0	0	1	1
gene282	gene282	SACOL0292	gi 57650036 ref NC_002951.2 :329973-330474	MVR	MR150	NOTEST	0	0	0	0	1	1
gene283	gene283	SACOL0293	gi 57650036 ref NC_002951.2 :330484-330985	MVR	MR150	OK	1.68492	1.01639	-0.729223	0.665925	0.50546	0.999883
gene284	gene284	SACOL0294	gi 57650036 ref NC_002951.2 :330995-331496	MVR	MR150	OK	0.21062	1.01639	2.27078	-1.10151	0.27068	0.954159
gene285	gene285	SACOL0295	gi 57650036 ref NC_002951.2 :331506-332007	MVR	MR150	NOTEST	0	0	0	0	1	1
gene286	gene286	SACOL0296	gi 57650036 ref NC_002951.2 :332017-332518	MVR	MR150	NOTEST	0	0	0	0	1	1
gene287	gene287	SACOL0297	gi 57650036 ref NC_002951.2 :332528-333017	MVR	MR150	NOTEST	0.22003	0	-1.79769e+3	-1.79769e+0.22252		1
gene288	gene288	SACOL0299	gi 57650036 ref NC_002951.2 :333639-334014	MVR	MR150	OK	7.86354	5.18601	-0.600555	0.717965	0.47278	0.999883
gene289	gene289	SACOL0300	gi 57650036 ref NC_002951.2 :334166-334565	MVR	MR150	OK	33.7713	30.572	-0.143586	0.209869	0.83377	0.999883
gene29	gene29	SACOL0028	gi 57650036 ref NC_002951.2 :36352-37027	MVR	MR150	OK	198.073	186.277	-0.0885808	0.108988	0.91321	0.999883
gene290	gene290	SACOL0301	gi 57650036 ref NC_002951.2 :334780-335626	MVR	MR150	OK	4.70038	2.84423	-0.724739	0.98165	0.32627	0.999883
gene291	gene291	brnQ2	gi 57650036 ref NC_002951.2 :335841-337149	MVR	MR150	OK	33.8817	33.3119	-0.0244692	0.033157	0.97355	0.999883
gene292	gene292	SACOL0303	gi 57650036 ref NC_002951.2 :337732-338623	MVR	MR150	OK	9.5558	6.64777	-0.523506	0.760958	0.44668	0.999883
gene293	gene293	SACOL0305	gi 57650036 ref NC_002951.2 :338871-339921	MVR	MR150	OK	28.6024	29.1859	0.0291375	-0.041174	0.96716	0.999883
gene294	gene294	SACOL0306	gi 57650036 ref NC_002951.2 :339933-340611	MVR	MR150	OK	48.5474	51.8817	0.0958331	-0.1358	0.89198	0.999883
gene295	gene295	pfoR	gi 57650036 ref NC_002951.2 :340818-341850	MVR	MR150	OK	96.3306	131.232	0.446052	-0.546188	0.58494	0.999883
gene296	gene296	SACOL0308	gi 57650036 ref NC_002951.2 :342192-344209	MVR	MR150	OK	2.679	2.1663	-0.306458	0.319882	0.74906	0.999883
gene297	gene297	SACOL0309	gi 57650036 ref NC_002951.2 :342192-344209	MVR	MR150	OK	3.09085	2.32647	-0.409862	0.399026	0.68987	0.999883
gene298	gene298	SACOL0310	gi 57650036 ref NC_002951.2 :344219-345440	MVR	MR150	OK	2.405	2.84995	0.244903	-0.337697	0.73559	0.999883
gene299	gene299	SACOL0311	gi 57650036 ref NC_002951.2 :345544-347077	MVR	MR150	OK	6.38926	5.05557	-0.337776	0.495909	0.61996	0.999883
gene3	gene3	recF	gi 57650036 ref NC_002951.2 :3696-5051	MVR	MR150	OK	177.744	217.383	0.290437	-0.302608	0.76219	0.999883
gene30	gene30	SACOL0029	gi 57650036 ref NC_002951.2 :37284-37452	MVR	MR150	OK	51.9427	72.0211	0.471497	-0.517406	0.60487	0.999883
gene300	gene300	nanA	gi 57650036 ref NC_002951.2 :347116-347998	MVR	MR150	OK	3.91013	4.4903	0.199597	-0.277023	0.78176	0.999883
gene301	gene301	SACOL0313	gi 57650036 ref NC_002951.2 :348155-349016	MVR	MR150	OK	8.35334	6.94931	-0.265482	0.384657	0.70049	0.999883
gene302	gene302	SACOL0314	gi 57650036 ref NC_002951.2 :349293-350094	MVR	MR150	OK	24.7259	25.7303	0.0574416	-0.083587	0.93339	0.999883
gene303	gene303	SACOL0315	gi 57650036 ref NC_002951.2 :350233-350902	MVR	MR150	OK	9.59038	10.1183	0.0773128	-0.111462	0.91125	0.999883
gene304	gene304	SACOL0316	gi 57650036 ref NC_002951.2 :351028-352342	MVR	MR150	OK	1.6633	1.09984	-0.596761	0.758914	0.4479	0.999883
gene305	gene305	SACOL0317	gi 57650036 ref NC_002951.2 :352759-354694	MVR	MR150	OK	6.08479	4.85556	-0.32557	0.478495	0.6323	0.999883
gene306	gene306	int	gi 57650036 ref NC_002951.2 :354784-355990	MVR	MR150	OK	2.38217	1.21787	-0.96792	1.25021	0.21122	0.890292
gene307	gene307	SACOL0319	gi 57650036 ref NC_002951.2 :356183-356897	MVR	MR150	OK	11.2159	15.4879	0.465594	-0.68119	0.49575	0.999883
gene308	gene308	SACOL0320	gi 57650036 ref NC_002951.2 :356974-357202	MVR	MR150	OK	15.0971	12.1744	-0.310415	0.329589	0.74171	0.999883
gene309	gene309	SACOL0321	gi 57650036 ref NC_002951.2 :357356-358076	MVR	MR150	NOTEST	0	0	0	0	1	1

gene31	gene31	SACOL0030	gi 57650036 ref NC_002951.2 :37549-37780	MVR	MR150	NOTEST	0	0	0	0	1	1
gene310	gene310	SACOL0322	gi 57650036 ref NC_002951.2 :358217-358436	MVR	MR150	NOTEST	0	0	0	0	1	1
gene311	gene311	SACOL0323	gi 57650036 ref NC_002951.2 :358450-358759	MVR	MR150	NOTEST	0	0	0	0	1	1
gene312	gene312	SACOL0324	gi 57650036 ref NC_002951.2 :358762-358915	MVR	MR150	NOTEST	0	0	0	0	1	1
gene313	gene313	SACOL0325	gi 57650036 ref NC_002951.2 :358915-359707	MVR	MR150	NOTEST	0	0	0	0	1	1
gene314	gene314	SACOL0326	gi 57650036 ref NC_002951.2 :359707-359932	MVR	MR150	NOTEST	0	0	0	0	1	1
gene315	gene315	SACOL0327	gi 57650036 ref NC_002951.2 :359971-360551	MVR	MR150	NOTEST	0	0	0	0	1	1
gene316	gene316	SACOL0328	gi 57650036 ref NC_002951.2 :359971-360551	MVR	MR150	NOTEST	0	0	0	0	1	1
gene317	gene317	SACOL0329	gi 57650036 ref NC_002951.2 :360604-361172	MVR	MR150	NOTEST	0	0	0	0	1	1
gene318	gene318	SACOL0330	gi 57650036 ref NC_002951.2 :360604-361172	MVR	MR150	NOTEST	0	0	0	0	1	1
gene319	gene319	SACOL0331	gi 57650036 ref NC_002951.2 :361219-361640	MVR	MR150	NOTEST	0	0	0	0	1	1
gene32	gene32	SACOL0031	gi 57650036 ref NC_002951.2 :38328-39072	MVR	MR150	OK	81.2926	74.016	-0.135287	0.181138	0.85626	0.999883
gene320	gene320	SACOL0332	gi 57650036 ref NC_002951.2 :361219-361640	MVR	MR150	NOTEST	0	0	0	0	1	1
gene321	gene321	SACOL0333	gi 57650036 ref NC_002951.2 :361694-361958	MVR	MR150	OK	3.50431	0	-1.79769e+3	-1.79769e+0	0.06333	0.504373
gene322	gene322	SACOL0334	gi 57650036 ref NC_002951.2 :361970-362132	MVR	MR150	NOTEST	0	0	0	0	1	1
gene323	gene323	SACOL0335	gi 57650036 ref NC_002951.2 :362221-362539	MVR	MR150	NOTEST	0	0	0	0	1	1
gene324	gene324	SACOL0336	gi 57650036 ref NC_002951.2 :362543-362804	MVR	MR150	NOTEST	0	0	0	0	1	1
gene325	gene325	SACOL0337	gi 57650036 ref NC_002951.2 :362813-364070	MVR	MR150	NOTEST	0	0	0	0	1	1
gene326	gene326	SACOL0338	gi 57650036 ref NC_002951.2 :362813-364070	MVR	MR150	NOTEST	0	0	0	0	1	1
gene327	gene327	ssb1	gi 57650036 ref NC_002951.2 :362813-364070	MVR	MR150	NOTEST	0	0	0	0	1	1
gene328	gene328	SACOL0340	gi 57650036 ref NC_002951.2 :364083-367357	MVR	MR150	OK	16.598	20.0619	0.273449	-0.337499	0.73574	0.999883
gene329	gene329	SACOL0341	gi 57650036 ref NC_002951.2 :364083-367357	MVR	MR150	OK	1.82404	0.76427	-1.255	0.420176	0.67436	0.999883
gene33	gene33	maoC	gi 57650036 ref NC_002951.2 :39168-39597	MVR	MR150	OK	29.387	33.321	0.181255	-0.265628	0.79053	0.999883
gene330	gene330	SACOL0342	gi 57650036 ref NC_002951.2 :364083-367357	MVR	MR150	OK	4.17551	2.87028	-0.54076	0.161855	0.87142	0.999883
gene331	gene331	SACOL0343	gi 57650036 ref NC_002951.2 :364083-367357	MVR	MR150	OK	2.98733	1.1758	-1.34521	0.743288	0.45731	0.999883
gene332	gene332	SACOL0344	gi 57650036 ref NC_002951.2 :364083-367357	MVR	MR150	NOTEST	0	0	0	0	1	1
gene333	gene333	SACOL0345	gi 57650036 ref NC_002951.2 :367359-367581	MVR	MR150	OK	13.541	13.3382	-0.021778	0.022527	0.98203	0.999883
gene334	gene334	SACOL0346	gi 57650036 ref NC_002951.2 :367590-368417	MVR	MR150	NOTEST	0	0	0	0	1	1
gene335	gene335	SACOL0347	gi 57650036 ref NC_002951.2 :367590-368417	MVR	MR150	OK	1.58902	0.7426	-1.09748	0.691581	0.4892	0.999883
gene336	gene336	SACOL0348	gi 57650036 ref NC_002951.2 :368421-368607	MVR	MR150	NOTEST	0	0	0	0	1	1
gene337	gene337	SACOL0349	gi 57650036 ref NC_002951.2 :368607-368865	MVR	MR150	NOTEST	0	0	0	0	1	1
gene338	gene338	SACOL0350	gi 57650036 ref NC_002951.2 :368876-369233	MVR	MR150	NOTEST	0	0	0	0	1	1
gene339	gene339	SACOL0351	gi 57650036 ref NC_002951.2 :369236-369479	MVR	MR150	OK	2.23444	2.48354	0.15249	-0.085961	0.9315	0.999883

gene34	gene34	mecA	gi 57650036 ref NC_002951.2 :39642-41649	MVR	MR150	OK	420.81	510.8	0.279589	-0.28566	0.77514	0.999883
gene340	gene340	SACOL0352	gi 57650036 ref NC_002951.2 :369492-369699	MVR	MR150	OK	0	4.33328	1.79769e+30	1.79769e+30	0.10824	0.653986
gene341	gene341	SACOL0353	gi 57650036 ref NC_002951.2 :369701-370981	MVR	MR150	NOTEST	0.64554	0	-1.79769e+30	-1.79769e+30	0.32964	1
gene342	gene342	SACOL0354	gi 57650036 ref NC_002951.2 :369701-370981	MVR	MR150	OK	23.8855	14.1404	-0.756318	0.866351	0.3863	0.999883
gene343	gene343	SACOL0355	gi 57650036 ref NC_002951.2 :369701-370981	MVR	MR150	OK	11.6736	10.5426	-0.147015	0.113657	0.90951	0.999883
gene344	gene344	SACOL0356	gi 57650036 ref NC_002951.2 :369701-370981	MVR	MR150	OK	3.62557	2.68362	-0.434031	0.120182	0.90434	0.999883
gene345	gene345	dut	gi 57650036 ref NC_002951.2 :370985-371528	MVR	MR150	OK	12.0848	13.83	0.194604	-0.2796	0.77978	0.999883
gene346	gene346	SACOL0358	gi 57650036 ref NC_002951.2 :371564-372307	MVR	MR150	OK	11.7227	17.3331	0.56423	-0.44153	0.65883	0.999883
gene347	gene347	SACOL0359	gi 57650036 ref NC_002951.2 :371564-372307	MVR	MR150	NOTEST	0	0	0	0	1	1
gene348	gene348	SACOL0360	gi 57650036 ref NC_002951.2 :371564-372307	MVR	MR150	OK	18.6451	13.7972	-0.434425	0.346502	0.72897	0.999883
gene349	gene349	SACOL0361	gi 57650036 ref NC_002951.2 :371564-372307	MVR	MR150	NOTEST	0	0	0	0	1	1
gene35	gene35	mecR1	gi 57650036 ref NC_002951.2 :41748-44481	MVR	MR150	OK	115.116	150.796	0.389511	-0.470818	0.63777	0.999883
gene350	gene350	SACOL0362	gi 57650036 ref NC_002951.2 :372374-372882	MVR	MR150	NOTEST	0	0	0	0	1	1
gene351	gene351	SACOL0363	gi 57650036 ref NC_002951.2 :372374-372882	MVR	MR150	OK	3.47045	2.97507	-0.222199	0.205572	0.83713	0.999883
gene352	gene352	SACOL0364	gi 57650036 ref NC_002951.2 :372894-373332	MVR	MR150	OK	1.62682	1.28318	-0.342327	0.301023	0.7634	0.999883
gene353	gene353	SACOL0365	gi 57650036 ref NC_002951.2 :373488-373803	MVR	MR150	NOTEST	0.55737	0	-1.79769e+30	-1.79769e+30	0.22252	1
gene354	gene354	SACOL0366	gi 57650036 ref NC_002951.2 :373931-375918	MVR	MR150	OK	4.78118	2.69701	-0.826005	0.402774	0.68712	0.999883
gene355	gene355	SACOL0367	gi 57650036 ref NC_002951.2 :373931-375918	MVR	MR150	OK	1.4343	1.9505	0.443493	-0.569026	0.56934	0.999883
gene356	gene356	SACOL0368	gi 57650036 ref NC_002951.2 :375922-377918	MVR	MR150	OK	13.137	13.7082	0.0614004	-0.082384	0.93434	0.999883
gene357	gene357	SACOL0369	gi 57650036 ref NC_002951.2 :375922-377918	MVR	MR150	OK	3.72078	4.53442	0.285313	-0.156362	0.87575	0.999883
gene358	gene358	SACOL0370	gi 57650036 ref NC_002951.2 :377929-379093	MVR	MR150	OK	5.91036	2.22408	-1.41004	1.97146	0.04867	0.43325
gene359	gene359	SACOL0371	gi 57650036 ref NC_002951.2 :379161-379440	MVR	MR150	OK	1.50856	0	-1.79769e+30	-1.79769e+30	0.14006	0.736107
gene36	gene36	SACOL0035	gi 57650036 ref NC_002951.2 :41748-44481	MVR	MR150	NOTEST	0	0	0	0	1	1
gene360	gene360	SACOL0372	gi 57650036 ref NC_002951.2 :379451-380182	MVR	MR150	OK	1.9573	1.11165	-0.816166	0.417404	0.67638	0.999883
gene361	gene361	SACOL0373	gi 57650036 ref NC_002951.2 :379451-380182	MVR	MR150	OK	1.61385	2.2599	0.485754	-0.375577	0.70723	0.999883
gene362	gene362	SACOL0374	gi 57650036 ref NC_002951.2 :380182-380578	MVR	MR150	OK	2.99815	3.10241	0.0493186	-0.051014	0.95931	0.999883
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	MVR	MR150	OK	2.65719	0.34632	-2.93973	2.25156	0.02435	0.296308
gene364	gene364	SACOL0376	gi 57650036 ref NC_002951.2 :381345-381801	MVR	MR150	OK	12.0334	6.56651	-0.873849	1.17326	0.24069	0.911371
gene365	gene365	SACOL0377	gi 57650036 ref NC_002951.2 :381858-382209	MVR	MR150	OK	1.73522	0	-1.79769e+30	-1.79769e+30	0.06333	0.504373
gene366	gene366	SACOL0378	gi 57650036 ref NC_002951.2 :382250-382409	MVR	MR150	OK	7.21565	0	-1.79769e+30	-1.79769e+30	0.22252	0.89416
gene367	gene367	SACOL0379	gi 57650036 ref NC_002951.2 :382422-389447	MVR	MR150	OK	2.06502	0.8169	-1.33792	1.92367	0.0544	0.462964
gene368	gene368	SACOL0380	gi 57650036 ref NC_002951.2 :382422-389447	MVR	MR150	NOTEST	0.97291	0	-1.79769e+30	-1.79769e+30	0.26349	1
gene369	gene369	SACOL0381	gi 57650036 ref NC_002951.2 :389455-391329	MVR	MR150	OK	1.03212	0.88533	-0.22132	0.267711	0.78892	0.999883

gene37	gene37	SACOL0036	gi 57650036 ref NC_002951.2 :41748-44481	MVR	MR150	NOTEST	0	0	0	0	1	1
gene370	gene370	SACOL0382	gi 57650036 ref NC_002951.2 :389455-391329	MVR	MR150	OK	1.35361	0	-1.79769e+3(-1.79769e+3	0.25032	0.925217	
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	MVR	MR150	OK	1.69885	0.35808	-2.24619	2.31429	0.02065	0.267842
gene372	gene372	SACOL0384	gi 57650036 ref NC_002951.2 :391344-395267	MVR	MR150	NOTEST	0.65873	0.24177	-1.44607	0.915846	0.35975	1
gene373	gene373	SACOL0385	gi 57650036 ref NC_002951.2 :391344-395267	MVR	MR150	NOTEST	0.68817	0.79917	0.215728	-0.062658	0.95004	1
gene374	gene374	SACOL0386	gi 57650036 ref NC_002951.2 :391344-395267	MVR	MR150	NOTEST	0	0	0	0	1	1
gene375	gene375	SACOL0387	gi 57650036 ref NC_002951.2 :395312-395612	MVR	MR150	OK	1.25465	0	-1.79769e+3(-1.79769e+3	0.14006	0.736107	
gene376	gene376	SACOL0388	gi 57650036 ref NC_002951.2 :395747-396050	MVR	MR150	NOTEST	0	0	0	0	1	1
gene377	gene377	SACOL0389	gi 57650036 ref NC_002951.2 :396061-397516	MVR	MR150	OK	1.56785	0.48815	-1.68338	1.96658	0.04923	0.435566
gene378	gene378	SACOL0390	gi 57650036 ref NC_002951.2 :398285-398408	MVR	MR150	NOTEST	0	0	0	0	1	1
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	MVR	MR150	OK	1.45212	1.95047	0.425663	-0.506015	0.61285	0.999883
gene38	gene38	SACOL0037	gi 57650036 ref NC_002951.2 :44616-45123	MVR	MR150	NOTEST	0	0	0	0	1	1
gene380	gene380	SACOL0392	gi 57650036 ref NC_002951.2 :399549-400749	MVR	MR150	OK	4.43409	3.21607	-0.46334	0.658999	0.5099	0.999883
gene381	gene381	SACOL0393	gi 57650036 ref NC_002951.2 :400844-400937	MVR	MR150	NOTEST	0	0	0	0	1	1
gene382	gene382	SACOL0394	gi 57650036 ref NC_002951.2 :401050-402052	MVR	MR150	OK	6.01315	7.06469	0.232504	-0.337479	0.73576	0.999883
gene383	gene383	SACOL0395	gi 57650036 ref NC_002951.2 :402085-402418	MVR	MR150	OK	7.33986	3.33494	-1.13809	1.19869	0.23065	0.899834
gene384	gene384	SACOL0396	gi 57650036 ref NC_002951.2 :402418-405153	MVR	MR150	OK	7.70152	6.87839	-0.163073	0.133412	0.89387	0.999883
gene385	gene385	SACOL0397	gi 57650036 ref NC_002951.2 :402418-405153	MVR	MR150	OK	6.16394	8.63263	0.485948	-0.444681	0.65655	0.999883
gene386	gene386	SACOL0398	gi 57650036 ref NC_002951.2 :402418-405153	MVR	MR150	OK	4.46456	5.02383	0.170268	-0.132353	0.89471	0.999883
gene387	gene387	SACOL0399	gi 57650036 ref NC_002951.2 :405467-406493	MVR	MR150	OK	11.9582	15.573	0.381042	-0.558703	0.57636	0.999883
gene388	gene388	ulaA	gi 57650036 ref NC_002951.2 :406585-407932	MVR	MR150	OK	4.11421	4.40634	0.0989653	-0.143243	0.8861	0.999883
gene389	gene389	SACOL0401	gi 57650036 ref NC_002951.2 :407946-408231	MVR	MR150	OK	2.85475	1.6031	-0.832501	0.554417	0.57929	0.999883
gene39	gene39	SACOL0038	gi 57650036 ref NC_002951.2 :45137-45449	MVR	MR150	NOTEST	0	0	0	0	1	1
gene390	gene390	SACOL0402	gi 57650036 ref NC_002951.2 :408232-408676	MVR	MR150	OK	3.43177	0.62601	-2.4547	1.84687	0.06477	0.508364
gene391	gene391	SACOL0403	gi 57650036 ref NC_002951.2 :408680-410636	MVR	MR150	OK	3.81599	2.79127	-0.451133	0.657222	0.51104	0.999883
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	MVR	MR150	OK	37.749	38.8175	0.040269	-0.059184	0.95281	0.999883
gene393	gene393	SACOL0405	gi 57650036 ref NC_002951.2 :411373-412729	MVR	MR150	OK	2.68656	1.72232	-0.641407	0.875501	0.3813	0.999883
gene394	gene394	SACOL0406	gi 57650036 ref NC_002951.2 :412832-413273	MVR	MR150	OK	11.5031	12.6741	0.13986	-0.193861	0.84629	0.999883
gene395	gene395	gIpT	gi 57650036 ref NC_002951.2 :413355-414714	MVR	MR150	OK	49.1063	53.3859	0.120551	-0.155692	0.87628	0.999883
gene396	gene396	SACOL0408	gi 57650036 ref NC_002951.2 :415021-415882	MVR	MR150	OK	58.7487	82.6968	0.493274	-0.654277	0.51293	0.999883
gene397	gene397	SACOL0409	gi 57650036 ref NC_002951.2 :415961-417023	MVR	MR150	OK	45.639	67.1529	0.55718	-0.73589	0.4618	0.999883
gene398	gene398	SACOL0410	gi 57650036 ref NC_002951.2 :417036-417603	MVR	MR150	OK	73.0815	103.834	0.506705	-0.698447	0.4849	0.999883
gene399	gene399	SACOL0411	gi 57650036 ref NC_002951.2 :417662-418658	MVR	MR150	OK	13.559	16.352	0.270218	-0.395959	0.69214	0.999883

gene4	gene4	gyrB	gi 57650036 ref NC_002951.2 :5060-6995	MVR	MR150	OK	118.277	132.336	0.162032	-0.180502	0.85676	0.999883
gene40	gene40	SACOL0039	gi 57650036 ref NC_002951.2 :45450-45886	MVR	MR150	NOTEST	0	0	0	0	1	1
gene400	gene400	SACOL0412	gi 57650036 ref NC_002951.2 :418755-419052	MVR	MR150	OK	3.21554	1.44852	-1.15048	0.798421	0.42463	0.999883
gene401	gene401	SACOL0413	gi 57650036 ref NC_002951.2 :419131-419677	MVR	MR150	OK	17.9593	20.3444	0.179894	-0.263232	0.79237	0.999883
gene402	gene402	SACOL0414	gi 57650036 ref NC_002951.2 :419944-423718	MVR	MR150	OK	2.22402	2.80517	0.334922	-0.225468	0.82162	0.999883
gene403	gene403	SACOL0415	gi 57650036 ref NC_002951.2 :419944-423718	MVR	MR150	OK	2.96482	1.63556	-0.858161	0.687364	0.49185	0.999883
gene404	gene404	SACOL0416	gi 57650036 ref NC_002951.2 :419944-423718	MVR	MR150	OK	2.63175	2.02466	-0.378342	0.379778	0.70411	0.999883
gene405	gene405	SACOL0417	gi 57650036 ref NC_002951.2 :423809-424466	MVR	MR150	OK	11.4761	8.709	-0.398049	0.573213	0.5665	0.999883
gene406	gene406	SACOL0418	gi 57650036 ref NC_002951.2 :424527-424743	MVR	MR150	OK	18.2654	18.3956	0.0102505	-0.011179	0.99108	0.999883
gene407	gene407	SACOL0419	gi 57650036 ref NC_002951.2 :424851-425241	MVR	MR150	OK	12.3871	14.385	0.215728	-0.294222	0.76859	0.999883
gene408	gene408	SACOL0420	gi 57650036 ref NC_002951.2 :425481-426395	MVR	MR150	OK	10.3584	27.5944	1.41357	-0.794447	0.42694	0.999883
gene409	gene409	SACOL0421	gi 57650036 ref NC_002951.2 :425481-426395	MVR	MR150	OK	4.41476	2.97843	-0.567783	0.663588	0.50695	0.999883
gene41	gene41	SACOL0040	gi 57650036 ref NC_002951.2 :45450-45886	MVR	MR150	NOTEST	0	0	0	0	1	1
gene410	gene410	SACOL0422	gi 57650036 ref NC_002951.2 :426419-427891	MVR	MR150	OK	6.32902	5.00062	-0.339877	0.1451	0.88463	0.999883
gene411	gene411	SACOL0424	gi 57650036 ref NC_002951.2 :426419-427891	MVR	MR150	OK	77.4614	76.5348	-0.0173621	0.022388	0.98214	0.999883
gene412	gene412	SACOL0425	gi 57650036 ref NC_002951.2 :428257-429391	MVR	MR150	OK	9.63971	8.52611	-0.177101	0.260387	0.79457	0.999883
gene413	gene413	SACOL0426	gi 57650036 ref NC_002951.2 :429929-431111	MVR	MR150	OK	26.8601	28.6952	0.0953451	-0.133411	0.89387	0.999883
gene414	gene414	SACOL0427	gi 57650036 ref NC_002951.2 :431193-431946	MVR	MR150	OK	11.0526	9.13613	-0.274729	0.399799	0.6893	0.999883
gene415	gene415	metE	gi 57650036 ref NC_002951.2 :431988-438284	MVR	MR150	OK	3.87992	1.81183	-1.09858	1.0502	0.29362	0.976946
gene416	gene416	SACOL0429	gi 57650036 ref NC_002951.2 :431988-438284	MVR	MR150	OK	3.43413	1.95892	-0.809886	0.688727	0.491	0.999883
gene417	gene417	SACOL0430	gi 57650036 ref NC_002951.2 :431988-438284	MVR	MR150	OK	1.99723	0.95615	-1.06269	0.502394	0.61539	0.999883
gene418	gene418	SACOL0431	gi 57650036 ref NC_002951.2 :431988-438284	MVR	MR150	OK	1.79428	1.52462	-0.234953	0.11625	0.90746	0.999883
gene419	gene419	SACOL0432	gi 57650036 ref NC_002951.2 :438947-439793	MVR	MR150	OK	5.64046	3.55529	-0.665845	0.923181	0.35591	0.999883
gene42	gene42	ccrB	gi 57650036 ref NC_002951.2 :46351-47976	MVR	MR150	NOTEST	0	0	0	0	1	1
gene420	gene420	SACOL0433	gi 57650036 ref NC_002951.2 :439949-440831	MVR	MR150	OK	8.35345	8.30705	-0.0080353	0.011709	0.99066	0.999883
gene421	gene421	SACOL0434	gi 57650036 ref NC_002951.2 :440860-441064	MVR	MR150	OK	33.1469	22.9953	-0.527534	0.601076	0.54779	0.999883
gene422	gene422	SACOL0435	gi 57650036 ref NC_002951.2 :441075-442173	MVR	MR150	OK	37.3363	36.1532	-0.046455	0.063773	0.94915	0.999883
gene423	gene423	SACOL0436	gi 57650036 ref NC_002951.2 :442258-442450	MVR	MR150	OK	1038.19	1621.28	0.643065	-0.886181	0.37552	0.999883
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	MVR	MR150	OK	326.056	434.557	0.414425	-0.561215	0.57465	0.999883
gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	MVR	MR150	OK	216.302	195.241	-0.147789	0.190416	0.84898	0.999883
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	MVR	MR150	OK	650.221	764.931	0.234401	-0.314825	0.75289	0.999883
gene427	gene427	SACOL0440	gi 57650036 ref NC_002951.2 :444073-445012	MVR	MR150	OK	2.28997	2.27927	-0.0067563	0.008771	0.993	0.999883
gene428	gene428	SACOL0441	gi 57650036 ref NC_002951.2 :445050-445598	MVR	MR150	OK	2.70441	2.19866	-0.29869	0.338019	0.73535	0.999883

gene429	gene429	SACOL0442	gi 57650036 ref NC_002951.2 :445957-446569	MVR	MR150	OK	5.12206	3.71513	-0.46331	0.605242	0.54502	0.999883
gene43	gene43	ccrA1	gi 57650036 ref NC_002951.2 :47997-49347	MVR	MR150	NOTEST	0	0	0	0	1	1
gene430	gene430	SACOL0443	gi 57650036 ref NC_002951.2 :446937-447306	MVR	MR150	OK	1.55177	0	-1.79769e+3	-1.79769e+0	0.06333	0.504373
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	MVR	MR150	OK	22.9387	13.9505	-0.717471	1.04848	0.29442	0.977693
gene432	gene432	SACOL0445	gi 57650036 ref NC_002951.2 :448196-448460	MVR	MR150	OK	162.074	201.611	0.314917	-0.459735	0.64571	0.999883
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	MVR	MR150	OK	634.718	428.14	-0.568033	0.778406	0.43633	0.999883
gene434	gene434	SACOL0447	gi 57650036 ref NC_002951.2 :449436-450018	MVR	MR150	OK	15.0182	7.21178	-1.05828	1.5019	0.13312	0.723829
gene435	gene435	SACOL0448	gi 57650036 ref NC_002951.2 :450083-450467	MVR	MR150	OK	82.8777	89.0031	0.102873	-0.149599	0.88108	0.999883
gene436	gene436	SACOL0449	gi 57650036 ref NC_002951.2 :450721-451348	MVR	MR150	OK	51.783	55.5635	0.101659	-0.144628	0.88501	0.999883
gene437	gene437	SACOL0450	gi 57650036 ref NC_002951.2 :451420-451714	MVR	MR150	OK	52.1075	40.0873	-0.378346	0.544495	0.5861	0.999883
gene438	gene438	ahpF	gi 57650036 ref NC_002951.2 :451792-453316	MVR	MR150	OK	958.409	1312.16	0.453229	-0.467835	0.6399	0.999883
gene439	gene439	ahpC	gi 57650036 ref NC_002951.2 :453331-453901	MVR	MR150	OK	889.839	1203.66	0.435813	-0.461461	0.64447	0.999883
gene44	gene44	SACOL0043	gi 57650036 ref NC_002951.2 :49534-51600	MVR	MR150	NOTEST	0	0	0	0	1	1
gene440	gene440	SACOL0453	gi 57650036 ref NC_002951.2 :454392-455148	MVR	MR150	OK	128.037	162.187	0.341097	-0.425919	0.67017	0.999883
gene441	gene441	SACOL0454	gi 57650036 ref NC_002951.2 :455228-456617	MVR	MR150	OK	39.7596	37.355	-0.0900028	0.119354	0.905	0.999883
gene442	gene442	SACOL0455	gi 57650036 ref NC_002951.2 :457593-458550	MVR	MR150	OK	79.9367	89.2065	0.15829	-0.202858	0.83925	0.999883
gene443	gene443	SACOL0456	gi 57650036 ref NC_002951.2 :458667-459330	MVR	MR150	OK	62.4563	61.1655	-0.030128	0.042018	0.96649	0.999883
gene444	gene444	SACOL0457	gi 57650036 ref NC_002951.2 :459472-459880	MVR	MR150	OK	1054.72	975.999	-0.111905	0.125569	0.90007	0.999883
gene445	gene445	xpt	gi 57650036 ref NC_002951.2 :460391-462238	MVR	MR150	OK	43.294	64.6115	0.577624	-0.381938	0.70251	0.999883
gene446	gene446	pbuX	gi 57650036 ref NC_002951.2 :460391-462238	MVR	MR150	OK	42.4773	55.73	0.391762	-0.421236	0.67358	0.999883
gene447	gene447	guaB	gi 57650036 ref NC_002951.2 :462275-463742	MVR	MR150	OK	109.349	116.894	0.0962579	-0.112065	0.91077	0.999883
gene448	gene448	guaA	gi 57650036 ref NC_002951.2 :463766-465308	MVR	MR150	OK	166.673	190.823	0.19522	-0.215412	0.82945	0.999883
gene449	gene449	SACOL0462	gi 57650036 ref NC_002951.2 :465420-465957	MVR	MR150	OK	3.17205	3.63244	0.195523	-0.235806	0.81358	0.999883
gene45	gene45	SACOL0044	gi 57650036 ref NC_002951.2 :49534-51600	MVR	MR150	NOTEST	0	0	0	0	1	1
gene450	gene450	SACOL0463	gi 57650036 ref NC_002951.2 :466349-467054	MVR	MR150	OK	4.13267	4.54721	0.137907	-0.185491	0.85284	0.999883
gene451	gene451	SACOL0464	gi 57650036 ref NC_002951.2 :467452-467725	MVR	MR150	OK	2.39752	1.78971	-0.421815	0.264041	0.79175	0.999883
gene452	gene452	SACOL0465	gi 57650036 ref NC_002951.2 :467985-468138	MVR	MR150	OK	46.5922	45.5773	-0.0317711	0.026899	0.97854	0.999883
gene453	gene453	SACOL0466	gi 57650036 ref NC_002951.2 :468661-469021	MVR	MR150	OK	33.6032	62.9881	0.90648	-1.32162	0.18629	0.840333
gene454	gene454	SACOL0467	gi 57650036 ref NC_002951.2 :469039-469885	MVR	MR150	OK	46.8158	65.8914	0.493094	-0.671007	0.50222	0.999883
gene455	gene455	SACOL0468	gi 57650036 ref NC_002951.2 :470356-471037	MVR	MR150	OK	13.6883	7.63828	-0.841625	1.21381	0.22482	0.89446
gene456	gene456	SACOL0469	gi 57650036 ref NC_002951.2 :471322-472018	MVR	MR150	OK	3.5921	2.7778	-0.370886	0.474727	0.63498	0.999883
gene457	gene457	SACOL0470	gi 57650036 ref NC_002951.2 :472308-473367	MVR	MR150	OK	2.52126	1.42619	-0.821985	1.05534	0.29127	0.975616
gene458	gene458	SACOL0471	gi 57650036 ref NC_002951.2 :473485-473623	MVR	MR150	NOTEST	0	0	0	0	1	1

gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	MVR	MR150	OK	1.6636	0	-1.79769e+30	-1.79769e+0.00637	0.125174	
gene46	gene46	SACOL0045	gi 57650036 ref NC_002951.2 :51770-53348	MVR	MR150	NOTEST	0	0	0	0	1	1
gene460	gene460	SACOL0473	gi 57650036 ref NC_002951.2 :475037-475736	MVR	MR150	OK	1.477	0.92037	-0.682388	0.702769	0.4822	0.999883
gene461	gene461	SACOL0474	gi 57650036 ref NC_002951.2 :476101-476785	MVR	MR150	OK	4.19412	3.47919	-0.269614	0.354251	0.72315	0.999883
gene462	gene462	SACOL0475	gi 57650036 ref NC_002951.2 :476869-476971	MVR	MR150	NOTEST	0	0	0	0	1	1
gene463	gene463	hsdM1	gi 57650036 ref NC_002951.2 :477048-479809	MVR	MR150	OK	14.7862	17.2688	0.223917	-0.225805	0.82135	0.999883
gene464	gene464	SACOL0477	gi 57650036 ref NC_002951.2 :477048-479809	MVR	MR150	OK	15.5677	18.4624	0.246036	-0.220384	0.82557	0.999883
gene465	gene465	SACOL0478	gi 57650036 ref NC_002951.2 :480191-480869	MVR	MR150	NOTEST	0.90141	0.32026	-1.49295	1.07709	0.28144	1
gene466	gene466	SACOL0479	gi 57650036 ref NC_002951.2 :480890-482399	MVR	MR150	OK	3.68667	3.15914	-0.222785	0.32084	0.74833	0.999883
gene467	gene467	SACOL0480	gi 57650036 ref NC_002951.2 :482502-482811	MVR	MR150	OK	3189.82	1978.06	-0.689385	0.750756	0.4528	0.999883
gene468	gene468	SACOL0481	gi 57650036 ref NC_002951.2 :483148-483949	MVR	MR150	OK	2.33072	3.31182	0.506845	-0.65449	0.5128	0.999883
gene469	gene469	SACOL0482	gi 57650036 ref NC_002951.2 :483980-484772	MVR	MR150	NOTEST	0	0	0	0	1	1
gene47	gene47	SACOL0046	gi 57650036 ref NC_002951.2 :53427-54756	MVR	MR150	NOTEST	0	0	0	0	1	1
gene470	gene470	SACOL0483	gi 57650036 ref NC_002951.2 :484841-485618	MVR	MR150	NOTEST	0	0	0	0	1	1
gene471	gene471	SACOL0484	gi 57650036 ref NC_002951.2 :485793-486609	MVR	MR150	NOTEST	0	0.24856	1.79769e+30	1.79769e+0.10824	1	1
gene472	gene472	SACOL0485	gi 57650036 ref NC_002951.2 :486627-487413	MVR	MR150	OK	5.20196	7.83816	0.59146	-0.838839	0.40156	0.999883
gene473	gene473	SACOL0486	gi 57650036 ref NC_002951.2 :487592-490046	MVR	MR150	OK	33.0877	41.0116	0.309738	-0.244958	0.80649	0.999883
gene474	gene474	SACOL0487	gi 57650036 ref NC_002951.2 :487592-490046	MVR	MR150	OK	27.3314	31.0114	0.182236	-0.173846	0.86199	0.999883
gene475	gene475	SACOL0488	gi 57650036 ref NC_002951.2 :487592-490046	MVR	MR150	OK	30.248	44.9066	0.570089	-0.200507	0.84108	0.999883
gene476	gene476	SACOL0489	gi 57650036 ref NC_002951.2 :490064-490379	MVR	MR150	OK	69.6709	89.4702	0.360851	-0.529791	0.59626	0.999883
gene477	gene477	SACOL0490	gi 57650036 ref NC_002951.2 :490668-490929	MVR	MR150	OK	18.9983	4.03937	-2.23367	2.22217	0.02627	0.30765
gene478	gene478	SACOL0491	gi 57650036 ref NC_002951.2 :491047-492250	MVR	MR150	OK	3.5842	1.06882	-1.74563	2.26105	0.02376	0.292955
gene479	gene479	nuoF	gi 57650036 ref NC_002951.2 :493837-495322	MVR	MR150	OK	14.0533	22.6461	0.688353	-0.974407	0.32985	0.999883
gene48	gene48	SACOL0047	gi 57650036 ref NC_002951.2 :54774-55842	MVR	MR150	NOTEST	0	0	0	0	1	1
gene480	gene480	SACOL0495	gi 57650036 ref NC_002951.2 :495334-498040	MVR	MR150	OK	29.2225	41.0153	0.489085	-0.603596	0.54611	0.999883
gene481	gene481	SACOL0496	gi 57650036 ref NC_002951.2 :498201-498564	MVR	MR150	OK	117.064	141.372	0.272203	-0.38972	0.69674	0.999883
gene482	gene482	SACOL0497	gi 57650036 ref NC_002951.2 :498792-499140	MVR	MR150	OK	17.2507	21.2106	0.29813	-0.411687	0.68057	0.999883
gene483	gene483	SACOL0498	gi 57650036 ref NC_002951.2 :499246-499921	MVR	MR150	OK	9.85178	14.8248	0.589557	-0.857157	0.39136	0.999883
gene484	gene484	SACOL0499	gi 57650036 ref NC_002951.2 :499957-500692	MVR	MR150	OK	17.3914	18.6004	0.0969625	-0.142551	0.88665	0.999883
gene485	gene485	SACOL0500	gi 57650036 ref NC_002951.2 :500801-500918	MVR	MR150	OK	132.094	0	-1.79769e+30	-1.79769e+0.22252	0.89416	0.89416
gene486	gene486	SACOL0501	gi 57650036 ref NC_002951.2 :501147-502485	MVR	MR150	OK	2.67746	0.67291	-1.99239	2.45469	0.0141	0.204943
gene487	gene487	SACOL0502	gi 57650036 ref NC_002951.2 :502701-504742	MVR	MR150	OK	30.3801	34.4795	0.182612	-0.110344	0.91214	0.999883
gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	MVR	MR150	OK	75.9809	75.191	-0.0150769	0.016029	0.98721	0.999883

gene489	gene489	SACOL0504	gi 57650036 ref NC_002951.2 :505035-506061	MVR	MR150	OK	12.5415	11.3089	-0.149251	0.219398	0.82634	0.999883
gene49	gene49	SACOL0048	gi 57650036 ref NC_002951.2 :55980-56241	MVR	MR150	NOTEST	0	0	0	0	1	1
gene490	gene490	SACOL0505	gi 57650036 ref NC_002951.2 :506064-506724	MVR	MR150	OK	8.31324	10.3161	0.311422	-0.446371	0.65533	0.999883
gene491	gene491	SACOL0506	gi 57650036 ref NC_002951.2 :506760-507603	MVR	MR150	OK	32.5897	39.0524	0.260994	-0.370805	0.71078	0.999883
gene492	gene492	SACOL0507	gi 57650036 ref NC_002951.2 :507934-508939	MVR	MR150	OK	521.51	461.679	-0.175804	0.18519	0.85308	0.999883
gene493	gene493	SACOL0508	gi 57650036 ref NC_002951.2 :509123-509393	MVR	MR150	OK	307.963	291.135	-0.0810683	0.115041	0.90841	0.999883
gene494	gene494	SACOL0509	gi 57650036 ref NC_002951.2 :509541-510412	MVR	MR150	OK	13.6582	12.4097	-0.138308	0.093692	0.92535	0.999883
gene495	gene495	SACOL0510	gi 57650036 ref NC_002951.2 :509541-510412	MVR	MR150	OK	30.7068	34.2232	0.156415	-0.203234	0.83895	0.999883
gene496	gene496	SACOL0511	gi 57650036 ref NC_002951.2 :510580-512472	MVR	MR150	OK	14.1206	15.4943	0.133935	-0.136854	0.89115	0.999883
gene497	gene497	SACOL0512	gi 57650036 ref NC_002951.2 :510580-512472	MVR	MR150	OK	8.81483	10.064	0.1912	-0.195821	0.84475	0.999883
gene498	gene498	gltC	gi 57650036 ref NC_002951.2 :512592-513477	MVR	MR150	OK	2.6539	1.11766	-1.24763	1.49727	0.13432	0.727616
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	MVR	MR150	OK	3.98082	2.42255	-0.716539	1.04454	0.29624	0.9791
gene5	gene5	gyrA	gi 57650036 ref NC_002951.2 :7031-9695	MVR	MR150	OK	124.295	140.747	0.179332	-0.191977	0.84776	0.999883
gene50	gene50	SACOL0049	gi 57650036 ref NC_002951.2 :56264-56996	MVR	MR150	NOTEST	0	0	0	0	1	1
gene500	gene500	gltD	gi 57650036 ref NC_002951.2 :518174-519638	MVR	MR150	OK	3.7261	3.63509	-0.0356764	0.05151	0.95892	0.999883
gene501	gene501	SACOL_tRNA	gi 57650036 ref NC_002951.2 :519906-519999	MVR	MR150	NOTEST	0	0	0	0	1	1
gene502	gene502	SACOL0516	gi 57650036 ref NC_002951.2 :520469-521897	MVR	MR150	OK	73.3494	112.872	0.621833	-0.744997	0.45627	0.999883
gene503	gene503	SACOL0517	gi 57650036 ref NC_002951.2 :521960-523601	MVR	MR150	OK	14.1987	18.4945	0.381331	-0.540303	0.58899	0.999883
gene504	gene504	SACOL0518	gi 57650036 ref NC_002951.2 :523625-524354	MVR	MR150	OK	21.5343	26.9146	0.321751	-0.470638	0.6379	0.999883
gene505	gene505	SACOL0519	gi 57650036 ref NC_002951.2 :524992-525517	MVR	MR150	OK	13.1903	13.6526	0.0496949	-0.071343	0.94313	0.999883
gene506	gene506	dnaX	gi 57650036 ref NC_002951.2 :525585-527283	MVR	MR150	OK	50.9882	50.1008	-0.025329	0.031806	0.97463	0.999883
gene507	gene507	SACOL0521	gi 57650036 ref NC_002951.2 :527372-527690	MVR	MR150	OK	315.533	320.578	0.0228862	-0.031019	0.97525	0.999883
gene508	gene508	recR	gi 57650036 ref NC_002951.2 :527696-528293	MVR	MR150	OK	214.828	184.286	-0.221235	0.277127	0.78168	0.999883
gene509	gene509	rrsA	gi 57650036 ref NC_002951.2 :529145-530700	MVR	MR150	OK	10770	14333.4	0.412359	-0.585707	0.55807	0.999883
gene51	gene51	pls	gi 57650036 ref NC_002951.2 :57211-61858	MVR	MR150	NOTEST	0.01323	0.03445	1.38114	-0.621961	0.53397	1
gene510	gene510	rrlA	gi 57650036 ref NC_002951.2 :531064-533987	MVR	MR150	HIDATA	0	33882.3	0	0	1	1
gene511	gene511	rrfA	gi 57650036 ref NC_002951.2 :534059-534174	MVR	MR150	OK	373015	129984	-1.5209	1.89925	0.05753	0.48127
gene512	gene512	SACOL0523	gi 57650036 ref NC_002951.2 :535056-536394	MVR	MR150	OK	10.6573	8.34402	-0.353032	0.518197	0.60432	0.999883
gene513	gene513	tmk	gi 57650036 ref NC_002951.2 :536395-537013	MVR	MR150	OK	28.7816	29.2948	0.0255014	-0.037374	0.97019	0.999883
gene514	gene514	SACOL0525	gi 57650036 ref NC_002951.2 :537040-537370	MVR	MR150	OK	763.526	799.596	0.0665942	-0.080945	0.93549	0.999883
gene515	gene515	SACOL0526	gi 57650036 ref NC_002951.2 :537583-538510	MVR	MR150	OK	50.4072	66.5575	0.400971	-0.536746	0.59144	0.999883
gene516	gene516	SACOL0527	gi 57650036 ref NC_002951.2 :538510-539314	MVR	MR150	OK	46.6759	53.233	0.189644	-0.262925	0.79261	0.999883
gene517	gene517	SACOL0528	gi 57650036 ref NC_002951.2 :539330-539678	MVR	MR150	OK	65.9064	109.083	0.726934	-1.06098	0.2887	0.975616

gene518	gene518	SACOL0529	gi 57650036 ref NC_002951.2 :539951-540918	MVR	MR150	OK	12.2291	13.6795	0.161702	-0.213962	0.83058	0.999883
gene519	gene519	SACOL0530	gi 57650036 ref NC_002951.2 :539951-540918	MVR	MR150	OK	22.8221	27.708	0.279871	-0.177725	0.85894	0.999883
gene52	gene52	SACOL0051	gi 57650036 ref NC_002951.2 :61981-63598	MVR	MR150	NOTEST	0	0	0	0	1	1
gene520	gene520	SACOL0531	gi 57650036 ref NC_002951.2 :540919-541759	MVR	MR150	OK	11.8654	9.80884	-0.274601	0.402492	0.68732	0.999883
gene521	gene521	SACOL0532	gi 57650036 ref NC_002951.2 :541783-541939	MVR	MR150	NOTEST	0	0	0	0	1	1
gene522	gene522	metS	gi 57650036 ref NC_002951.2 :542043-544017	MVR	MR150	OK	30.0134	29.0974	-0.0447168	0.058497	0.95335	0.999883
gene523	gene523	SACOL0534	gi 57650036 ref NC_002951.2 :544047-544821	MVR	MR150	OK	49.5395	49.0784	-0.0134912	0.018826	0.98498	0.999883
gene524	gene524	SACOL0535	gi 57650036 ref NC_002951.2 :544987-545524	MVR	MR150	OK	24.4434	22.7027	-0.106581	0.156603	0.87556	0.999883
gene525	gene525	ksgA	gi 57650036 ref NC_002951.2 :545534-546428	MVR	MR150	OK	21.5571	18.754	-0.200963	0.293269	0.76932	0.999883
gene526	gene526	SACOL0537	gi 57650036 ref NC_002951.2 :546527-546791	MVR	MR150	OK	7532.52	8829.78	0.229244	-0.236006	0.81343	0.999883
gene527	gene527	ipk	gi 57650036 ref NC_002951.2 :547100-547949	MVR	MR150	OK	38.3582	43.4101	0.178495	-0.250541	0.80217	0.999883
gene528	gene528	purR	gi 57650036 ref NC_002951.2 :547962-548787	MVR	MR150	OK	55.7477	55.1201	-0.0163328	0.02232	0.98219	0.999883
gene529	gene529	SACOL0540	gi 57650036 ref NC_002951.2 :548803-549184	MVR	MR150	OK	84.6528	84.5491	-0.0017692	0.002576	0.99794	0.999883
gene53	gene53	SACOL0052	gi 57650036 ref NC_002951.2 :63757-65269	MVR	MR150	NOTEST	0	0	0	0	1	1
gene530	gene530	spoVG	gi 57650036 ref NC_002951.2 :549255-549558	MVR	MR150	OK	340.373	357.541	0.0709943	-0.096444	0.92317	0.999883
gene531	gene531	SACOL0542	gi 57650036 ref NC_002951.2 :549747-549879	MVR	MR150	NOTEST	0	0	0	0	1	1
gene532	gene532	glmU	gi 57650036 ref NC_002951.2 :549901-551254	MVR	MR150	OK	50.0924	53.2651	0.0885993	-0.114385	0.90893	0.999883
gene533	gene533	prsA	gi 57650036 ref NC_002951.2 :551400-552366	MVR	MR150	OK	106.551	117.145	0.136756	-0.16936	0.86551	0.999883
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	MVR	MR150	OK	937.4	863.838	-0.117904	0.123963	0.90134	0.999883
gene535	gene535	pth	gi 57650036 ref NC_002951.2 :553479-560527	MVR	MR150	OK	34.9941	47.1854	0.43123	-0.108938	0.91325	0.999883
gene536	gene536	mfd	gi 57650036 ref NC_002951.2 :553479-560527	MVR	MR150	OK	41.6565	47.0631	0.176055	-0.140441	0.88831	0.999883
gene537	gene537	SACOL0548	gi 57650036 ref NC_002951.2 :553479-560527	MVR	MR150	OK	34.5172	38.319	0.150744	-0.068848	0.94511	0.999883
gene538	gene538	SACOL0549	gi 57650036 ref NC_002951.2 :553479-560527	MVR	MR150	OK	55.588	68.5613	0.302619	-0.155655	0.87631	0.999883
gene539	gene539	SACOL0550	gi 57650036 ref NC_002951.2 :553479-560527	MVR	MR150	OK	35.0431	35.233	0.00779514	-0.000821	0.99935	0.999883
gene54	gene54	SACOL0054	gi 57650036 ref NC_002951.2 :65291-67344	MVR	MR150	NOTEST	0	0	0	0	1	1
gene540	gene540	SACOL0551	gi 57650036 ref NC_002951.2 :560544-560937	MVR	MR150	OK	79.2156	105.488	0.413218	-0.597264	0.55033	0.999883
gene541	gene541	SACOL0552	gi 57650036 ref NC_002951.2 :561041-561443	MVR	MR150	OK	287.266	332.206	0.209693	-0.270385	0.78686	0.999883
gene542	gene542	SACOL0553	gi 57650036 ref NC_002951.2 :561622-562918	MVR	MR150	OK	9.27445	9.36235	0.0136094	-0.019999	0.98404	0.999883
gene543	gene543	hpt	gi 57650036 ref NC_002951.2 :562922-563462	MVR	MR150	OK	24.9522	26.5534	0.0897282	-0.131918	0.89505	0.999883
gene544	gene544	SACOL0555	gi 57650036 ref NC_002951.2 :563718-565812	MVR	MR150	OK	170.903	183.582	0.103243	-0.110235	0.91222	0.999883
gene545	gene545	hslO	gi 57650036 ref NC_002951.2 :566040-566922	MVR	MR150	OK	47.6324	58.5984	0.298917	-0.406662	0.68426	0.999883
gene546	gene546	cysK	gi 57650036 ref NC_002951.2 :567100-568033	MVR	MR150	OK	157.448	160.228	0.0252505	-0.030133	0.97596	0.999883
gene547	gene547	folP	gi 57650036 ref NC_002951.2 :568248-569868	MVR	MR150	OK	16.9364	13.435	-0.334131	0.290565	0.77138	0.999883

gene548	gene548	folB	gi 57650036 ref NC_002951.2 :568248-569868	MVR	MR150	OK	11.455	15.4426	0.430933	-0.181198	0.85621	0.999883
gene549	gene549	folK	gi 57650036 ref NC_002951.2 :568248-569868	MVR	MR150	OK	43.7566	49.1293	0.167082	-0.171218	0.86405	0.999883
gene55	gene55	SACOL0057	gi 57650036 ref NC_002951.2 :68406-68499	MVR	MR150	NOTEST	0	0	0	0	1	1
gene550	gene550	SACOL0561	gi 57650036 ref NC_002951.2 :570261-570354	MVR	MR150	NOTEST	0	0	0	0	1	1
gene551	gene551	lysS	gi 57650036 ref NC_002951.2 :570406-571894	MVR	MR150	OK	121.923	115.345	-0.0800103	0.092489	0.92631	0.999883
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	MVR	MR150	OK	409779	134529	-1.60693	1.99159	0.04642	0.423595
gene554	gene554	rrsB	gi 57650036 ref NC_002951.2 :572775-574330	MVR	MR150	OK	10550.1	14934.4	0.501383	-0.713794	0.47536	0.999883
gene555	gene555	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :574422-574499	MVR	MR150	NOTEST	0	0	0	0	1	1
gene556	gene556	rrlB	gi 57650036 ref NC_002951.2 :574666-577589	MVR	MR150	HIDATA	0	38209.6	0	0	1	1
gene557	gene557	rrfB	gi 57650036 ref NC_002951.2 :577661-577776	MVR	MR150	OK	546950	169070	-1.69379	2.04197	0.04115	0.395011
gene558	gene558	rrsC	gi 57650036 ref NC_002951.2 :577987-579542	MVR	MR150	OK	11084.7	15002.9	0.436673	-0.62557	0.5316	0.999883
gene559	gene559	rrlC	gi 57650036 ref NC_002951.2 :579844-582767	MVR	MR150	HIDATA	0	30782.3	0	0	1	1
gene56	gene56	SACOL0058	gi 57650036 ref NC_002951.2 :68645-70391	MVR	MR150	NOTEST	0	0	0	0	1	1
gene560	gene560	rrfC	gi 57650036 ref NC_002951.2 :582839-582954	MVR	MR150	OK	386541	534934	0.468738	-0.541129	0.58842	0.999883
gene561	gene561	SACOL0563	gi 57650036 ref NC_002951.2 :583478-584861	MVR	MR150	OK	1.41292	1.55356	0.136901	-0.178861	0.85805	0.999883
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	MVR	MR150	OK	167.145	237.469	0.506641	-0.593404	0.55291	0.999883
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	MVR	MR150	OK	222.611	308.193	0.46931	-0.575147	0.56519	0.999883
gene564	gene564	nupC	gi 57650036 ref NC_002951.2 :586623-587838	MVR	MR150	OK	80.4354	103.205	0.359604	-0.440871	0.65931	0.999883
gene565	gene565	ctsR	gi 57650036 ref NC_002951.2 :587995-588457	MVR	MR150	OK	194.883	458.55	1.23447	-1.54174	0.12314	0.6962
gene566	gene566	SACOL0568	gi 57650036 ref NC_002951.2 :588475-590039	MVR	MR150	OK	194.884	419.09	1.10465	-0.661383	0.50837	0.999883
gene567	gene567	SACOL0569	gi 57650036 ref NC_002951.2 :588475-590039	MVR	MR150	OK	191.769	415.618	1.11589	-0.993736	0.32035	0.999883
gene568	gene568	clpC	gi 57650036 ref NC_002951.2 :590052-592508	MVR	MR150	OK	256.974	532.458	1.05104	-1.07945	0.28039	0.965951
gene569	gene569	radA	gi 57650036 ref NC_002951.2 :592994-594359	MVR	MR150	OK	24.0396	32.7343	0.445388	-0.61145	0.5409	0.999883
gene57	gene57	SACOL0059	gi 57650036 ref NC_002951.2 :70484-70937	MVR	MR150	OK	20.3118	19.327	-0.0717003	0.103738	0.91738	0.999883
gene570	gene570	SACOL0573	gi 57650036 ref NC_002951.2 :594383-595457	MVR	MR150	OK	18.8511	29.0857	0.625661	-0.893663	0.3715	0.999883
gene571	gene571	gltX	gi 57650036 ref NC_002951.2 :596013-597468	MVR	MR150	OK	54.3521	56.0155	0.0434918	-0.055198	0.95598	0.999883
gene572	gene572	cysE	gi 57650036 ref NC_002951.2 :597896-600319	MVR	MR150	OK	23.4952	20.0865	-0.226135	0.13536	0.89233	0.999883
gene573	gene573	cysS	gi 57650036 ref NC_002951.2 :597896-600319	MVR	MR150	OK	30.2114	23.3368	-0.372485	0.410417	0.6815	0.999883
gene574	gene574	SACOL0577	gi 57650036 ref NC_002951.2 :597896-600319	MVR	MR150	OK	28.6024	20.7928	-0.460052	0.196598	0.84414	0.999883
gene575	gene575	SACOL0578	gi 57650036 ref NC_002951.2 :600326-601597	MVR	MR150	OK	28.5073	22.9507	-0.312789	0.310408	0.75625	0.999883
gene576	gene576	SACOL0579	gi 57650036 ref NC_002951.2 :600326-601597	MVR	MR150	OK	46.1661	40.0162	-0.20625	0.202938	0.83918	0.999883
gene577	gene577	SACOL0580	gi 57650036 ref NC_002951.2 :601677-602247	MVR	MR150	OK	19.2526	19.8542	0.044396	-0.065129	0.94807	0.999883
gene578	gene578	secE	gi 57650036 ref NC_002951.2 :602560-602743	MVR	MR150	OK	173.968	219.28	0.333952	-0.474096	0.63543	0.999883

gene579	gene579	nusG	gi 57650036 ref NC_002951.2 :602755-603304	MVR	MR150	OK	179.742	224.06	0.317958	-0.403914	0.68628	0.999883
gene58	gene58	SACOL0061	gi 57650036 ref NC_002951.2 :71151-72167	MVR	MR150	NOTEST	0	0	0	0	1	1
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	MVR	MR150	OK	385.664	519.115	0.428708	-0.520494	0.60272	0.999883
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	MVR	MR150	OK	710.546	761.397	0.0997203	-0.105902	0.91566	0.999883
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	MVR	MR150	OK	209.984	244.951	0.222216	-0.283348	0.77691	0.999883
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	MVR	MR150	OK	742.908	913.795	0.298686	-0.350485	0.72598	0.999883
gene584	gene584	SACOL0587	gi 57650036 ref NC_002951.2 :606164-606773	MVR	MR150	OK	47.2161	56.5095	0.259214	-0.370742	0.71083	0.999883
gene585	gene585	rpoB	gi 57650036 ref NC_002951.2 :606987-610539	MVR	MR150	OK	180.174	189.244	0.0708583	-0.07276	0.942	0.999883
gene586	gene586	rpoC	gi 57650036 ref NC_002951.2 :610675-614299	MVR	MR150	OK	181.193	192.692	0.0887673	-0.091061	0.92744	0.999883
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	MVR	MR150	OK	212.754	312.561	0.55495	-0.800482	0.42343	0.999883
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	MVR	MR150	OK	862.506	957.15	0.15021	-0.169972	0.86503	0.999883
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	MVR	MR150	OK	1143.11	1186.99	0.0543471	-0.058573	0.95329	0.999883
gene59	gene59	SACOL0062	gi 57650036 ref NC_002951.2 :71151-72167	MVR	MR150	NOTEST	0	0	0	0	1	1
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	MVR	MR150	OK	674.365	715.813	0.0860518	-0.088355	0.9296	0.999883
gene591	gene591	tuf	gi 57650036 ref NC_002951.2 :618157-619342	MVR	MR150	OK	1348.92	1292.48	-0.061654	0.063254	0.94956	0.999883
gene592	gene592	SACOL0595	gi 57650036 ref NC_002951.2 :619623-620799	MVR	MR150	OK	23.0978	20.3984	-0.179301	0.256305	0.79772	0.999883
gene593	gene593	SACOL0596	gi 57650036 ref NC_002951.2 :620969-622157	MVR	MR150	OK	337.06	357.598	0.0853345	-0.090977	0.92751	0.999883
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	MVR	MR150	OK	179.082	195.965	0.129973	-0.153525	0.87798	0.999883
gene595	gene595	SACOL0598	gi 57650036 ref NC_002951.2 :623460-625098	MVR	MR150	OK	10.5889	12.7814	0.271492	-0.393132	0.69422	0.999883
gene596	gene596	SACOL0599	gi 57650036 ref NC_002951.2 :625311-626277	MVR	MR150	OK	84.563	100.153	0.244111	-0.309304	0.75709	0.999883
gene597	gene597	ilvE	gi 57650036 ref NC_002951.2 :626611-627834	MVR	MR150	OK	104.139	121.009	0.216599	-0.263435	0.79222	0.999883
gene598	gene598	SACOL0601	gi 57650036 ref NC_002951.2 :626611-627834	MVR	MR150	OK	17.1861	0	-1.79769e+30	-1.79769e+30	0.44883	0.999883
gene599	gene599	SACOL0602	gi 57650036 ref NC_002951.2 :627937-628621	MVR	MR150	OK	61.0053	73.0631	0.260207	-0.358294	0.72012	0.999883
gene6	gene6	SACOL0007	gi 57650036 ref NC_002951.2 :9781-10483	MVR	MR150	OK	36.3265	29.5809	-0.296358	0.429808	0.66734	0.999883
gene60	gene60	SACOL0063	gi 57650036 ref NC_002951.2 :72303-73371	MVR	MR150	NOTEST	0	0	0	0	1	1
gene600	gene600	SACOL0603	gi 57650036 ref NC_002951.2 :628736-630009	MVR	MR150	OK	51.5364	50.9162	-0.0174686	0.02241	0.98212	0.999883
gene601	gene601	SACOL0604	gi 57650036 ref NC_002951.2 :628736-630009	MVR	MR150	OK	9.79167	10.6194	0.117073	-0.063762	0.94916	0.999883
gene602	gene602	SACOL0605	gi 57650036 ref NC_002951.2 :630075-630545	MVR	MR150	OK	20.8322	24.3481	0.224992	-0.328155	0.74279	0.999883
gene603	gene603	SACOL0606	gi 57650036 ref NC_002951.2 :630692-631562	MVR	MR150	OK	14.3921	23.3105	0.695697	-1.01662	0.30934	0.992496
gene604	gene604	SACOL0607	gi 57650036 ref NC_002951.2 :631582-632149	MVR	MR150	OK	53.1502	60.0488	0.17606	-0.252278	0.80083	0.999883
gene605	gene605	sdrC	gi 57650036 ref NC_002951.2 :632578-635422	MVR	MR150	OK	8.17108	7.76339	-0.0738389	0.105552	0.91594	0.999883
gene606	gene606	sdrD	gi 57650036 ref NC_002951.2 :635788-639934	MVR	MR150	OK	70.948	82.5732	0.218912	-0.236021	0.81342	0.999883
gene607	gene607	sdrE	gi 57650036 ref NC_002951.2 :640327-643828	MVR	MR150	OK	9.94231	8.90997	-0.158161	0.218249	0.82724	0.999883

gene608	gene608	SACOL0611	gi 57650036 ref NC_002951.2 :643946-645419	MVR	MR150	OK	11.0978	9.62505	-0.205403	0.300219	0.76401	0.999883
gene609	gene609	SACOL0612	gi 57650036 ref NC_002951.2 :645542-647033	MVR	MR150	OK	49.7153	52.0813	0.0670745	-0.085643	0.93175	0.999883
gene61	gene61	SACOL0064	gi 57650036 ref NC_002951.2 :73401-74736	MVR	MR150	NOTEST	0	0	0	0	1	1
gene610	gene610	SACOL0613	gi 57650036 ref NC_002951.2 :647314-648193	MVR	MR150	OK	147.658	195.514	0.405012	-0.483902	0.62846	0.999883
gene611	gene611	SACOL0614	gi 57650036 ref NC_002951.2 :648205-648871	MVR	MR150	OK	44.0446	74.8975	0.765953	-1.07092	0.2842	0.971099
gene612	gene612	SACOL0615	gi 57650036 ref NC_002951.2 :648884-649247	MVR	MR150	OK	153.269	243.013	0.664962	-0.918217	0.35851	0.999883
gene613	gene613	nagB	gi 57650036 ref NC_002951.2 :649522-650281	MVR	MR150	OK	10.1637	13.4203	0.400988	-0.586339	0.55765	0.999883
gene614	gene614	SACOL0617	gi 57650036 ref NC_002951.2 :650357-650990	MVR	MR150	OK	48.4518	47.017	-0.0433666	0.062173	0.95043	0.999883
gene615	gene615	SACOL0618	gi 57650036 ref NC_002951.2 :650991-651540	MVR	MR150	OK	92.0281	90.3257	-0.026937	0.037199	0.97033	0.999883
gene616	gene616	SACOL0619	gi 57650036 ref NC_002951.2 :651643-652300	MVR	MR150	OK	3.78035	2.67969	-0.496453	0.626787	0.5308	0.999883
gene617	gene617	proP	gi 57650036 ref NC_002951.2 :652801-654202	MVR	MR150	OK	256.598	358.086	0.480797	-0.510279	0.60986	0.999883
gene618	gene618	SACOL0621	gi 57650036 ref NC_002951.2 :654745-656122	MVR	MR150	OK	1.67389	1.6916	0.0151861	-0.020198	0.98389	0.999883
gene619	gene619	atoB	gi 57650036 ref NC_002951.2 :656123-657603	MVR	MR150	OK	5.36289	3.42127	-0.648479	0.870323	0.38412	0.999883
gene62	gene62	SACOL0065	gi 57650036 ref NC_002951.2 :74754-75948	MVR	MR150	NOTEST	0	0	0	0	1	1
gene620	gene620	SACOL0623	gi 57650036 ref NC_002951.2 :656123-657603	MVR	MR150	OK	3.55501	3.63355	0.0315266	-0.015658	0.98751	0.999883
gene621	gene621	SACOL0624	gi 57650036 ref NC_002951.2 :657605-657875	MVR	MR150	OK	4.94058	5.52788	0.162045	-0.152095	0.87911	0.999883
gene622	gene622	SACOL0625	gi 57650036 ref NC_002951.2 :658075-658243	MVR	MR150	OK	483.067	540.158	0.161157	-0.235466	0.81385	0.999883
gene623	gene623	thiD1	gi 57650036 ref NC_002951.2 :658749-659580	MVR	MR150	OK	74.1738	86.6262	0.223892	-0.294221	0.76859	0.999883
gene624	gene624	ung	gi 57650036 ref NC_002951.2 :659763-660420	MVR	MR150	OK	64.941	64.6476	-0.0065338	0.009082	0.99275	0.999883
gene625	gene625	SACOL0628	gi 57650036 ref NC_002951.2 :660420-660801	MVR	MR150	OK	44.1352	61.1097	0.469471	-0.688947	0.49086	0.999883
gene626	gene626	SACOL0629	gi 57650036 ref NC_002951.2 :660933-661302	MVR	MR150	OK	59.3551	72.3532	0.285687	-0.419158	0.6751	0.999883
gene627	gene627	SACOL0630	gi 57650036 ref NC_002951.2 :661422-662907	MVR	MR150	OK	24.8599	20.5007	-0.278153	0.386658	0.69901	0.999883
gene628	gene628	SACOL0631	gi 57650036 ref NC_002951.2 :663048-663501	MVR	MR150	OK	12.6949	10.8714	-0.223703	0.310959	0.75583	0.999883
gene629	gene629	SACOL0632	gi 57650036 ref NC_002951.2 :663513-664278	MVR	MR150	OK	15.1306	19.7813	0.386668	-0.567919	0.57009	0.999883
gene63	gene63	SACOL0066	gi 57650036 ref NC_002951.2 :76214-76316	MVR	MR150	NOTEST	0	0	0	0	1	1
gene630	gene630	SACOL0633	gi 57650036 ref NC_002951.2 :664826-665579	MVR	MR150	OK	169.326	202.379	0.25726	-0.311957	0.75507	0.999883
gene631	gene631	eutD	gi 57650036 ref NC_002951.2 :665746-666733	MVR	MR150	OK	103.696	127.641	0.299734	-0.368586	0.71244	0.999883
gene632	gene632	SACOL0635	gi 57650036 ref NC_002951.2 :666735-667572	MVR	MR150	OK	123.24	138.691	0.170403	-0.211794	0.83227	0.999883
gene633	gene633	mvk	gi 57650036 ref NC_002951.2 :668158-669079	MVR	MR150	OK	12.5844	10.6188	-0.245009	0.360154	0.71873	0.999883
gene634	gene634	mvaD	gi 57650036 ref NC_002951.2 :669083-670067	MVR	MR150	OK	12.8496	11.5238	-0.157108	0.230991	0.81732	0.999883
gene635	gene635	SACOL0638	gi 57650036 ref NC_002951.2 :670079-671156	MVR	MR150	OK	14.6714	13.7947	-0.0888927	0.13015	0.89645	0.999883
gene636	gene636	SACOL0639	gi 57650036 ref NC_002951.2 :671332-671674	MVR	MR150	OK	12.8859	17.8261	0.468202	-0.624826	0.53209	0.999883
gene637	gene637	SACOL0640	gi 57650036 ref NC_002951.2 :671726-673476	MVR	MR150	OK	34.058	39.0041	0.195634	-0.244855	0.80657	0.999883

gene638	gene638	SACOL0641	gi 57650036 ref NC_002951.2 :671726-673476	MVR	MR150	OK	20.3311	22.8134	0.166194	-0.072728	0.94202	0.999883
gene639	gene639	SACOL0642	gi 57650036 ref NC_002951.2 :673533-673635	MVR	MR150	NOTEST	0	0	0	0	1	1
gene64	gene64	SACOL0067	gi 57650036 ref NC_002951.2 :76614-77547	MVR	MR150	OK	17.485	19.0101	0.120643	-0.176289	0.86007	0.999883
gene640	gene640	SACOL0643	gi 57650036 ref NC_002951.2 :674100-675510	MVR	MR150	OK	12.5255	10.8855	-0.202458	0.29524	0.76781	0.999883
gene641	gene641	SACOL0644	gi 57650036 ref NC_002951.2 :675513-676140	MVR	MR150	OK	1.1604	1.07542	-0.109723	0.10754	0.91436	0.999883
gene642	gene642	SACOL0645	gi 57650036 ref NC_002951.2 :676265-676907	MVR	MR150	OK	2.93689	3.80951	0.375315	-0.474945	0.63483	0.999883
gene643	gene643	SACOL0646	gi 57650036 ref NC_002951.2 :676994-677612	MVR	MR150	OK	4.59912	6.22515	0.436753	-0.587603	0.5568	0.999883
gene644	gene644	SACOL0647	gi 57650036 ref NC_002951.2 :677686-678316	MVR	MR150	OK	2.73562	2.84781	0.0579799	-0.070757	0.94359	0.999883
gene645	gene645	SACOL0648	gi 57650036 ref NC_002951.2 :678511-679132	MVR	MR150	OK	3.3865	3.27221	-0.0495329	0.062215	0.95039	0.999883
gene646	gene646	SACOL0649	gi 57650036 ref NC_002951.2 :679262-679904	MVR	MR150	OK	2.65719	2.42424	-0.132372	0.159453	0.87331	0.999883
gene647	gene647	SACOL0650	gi 57650036 ref NC_002951.2 :679950-680580	MVR	MR150	OK	2.73562	1.77988	-0.620092	0.718584	0.4724	0.999883
gene648	gene648	SACOL0651	gi 57650036 ref NC_002951.2 :681032-681662	MVR	MR150	OK	1.4398	1.06793	-0.431058	0.434774	0.66373	0.999883
gene649	gene649	SACOL0652	gi 57650036 ref NC_002951.2 :681776-682427	MVR	MR150	OK	2.05362	1.01824	-1.01209	1.06598	0.28643	0.974912
gene65	gene65	SACOL0068	gi 57650036 ref NC_002951.2 :77909-78113	MVR	MR150	NOTEST	0	0	0	0	1	1
gene650	gene650	SACOL0653	gi 57650036 ref NC_002951.2 :682463-683099	MVR	MR150	OK	4.1147	5.6173	0.449089	-0.599107	0.5491	0.999883
gene651	gene651	SACOL0654	gi 57650036 ref NC_002951.2 :683333-683960	MVR	MR150	OK	2.17576	5.01864	1.20578	-1.49072	0.13604	0.732502
gene652	gene652	SACOL0655	gi 57650036 ref NC_002951.2 :684229-685168	MVR	MR150	OK	236.113	277.45	0.232752	-0.263197	0.7924	0.999883
gene653	gene653	SACOL0656	gi 57650036 ref NC_002951.2 :685378-685915	MVR	MR150	OK	677.886	705.601	0.0578107	-0.064128	0.94887	0.999883
gene654	gene654	SACOL0657	gi 57650036 ref NC_002951.2 :686083-686560	MVR	MR150	OK	31.0902	29.8088	-0.0607235	0.089269	0.92887	0.999883
gene655	gene655	SACOL0658	gi 57650036 ref NC_002951.2 :686599-687895	MVR	MR150	OK	44.5173	54.2178	0.284399	-0.370992	0.71064	0.999883
gene656	gene656	SACOL0659	gi 57650036 ref NC_002951.2 :687922-688444	MVR	MR150	OK	142.428	166.779	0.227702	-0.300354	0.76391	0.999883
gene657	gene657	adhP	gi 57650036 ref NC_002951.2 :688942-689953	MVR	MR150	OK	8.17357	5.09813	-0.680998	0.986767	0.32376	0.999883
gene658	gene658	SACOL0661	gi 57650036 ref NC_002951.2 :690027-690135	MVR	MR150	NOTEST	0	0	0	0	1	1
gene659	gene659	SACOL0662	gi 57650036 ref NC_002951.2 :690215-692302	MVR	MR150	OK	65.8382	55.9793	-0.23403	0.093298	0.92567	0.999883
gene66	gene66	SACOL0069	gi 57650036 ref NC_002951.2 :78161-78458	MVR	MR150	NOTEST	0.64311	0	-1.79769e+3(-1.79769e+0.22252		1	
gene660	gene660	argS	gi 57650036 ref NC_002951.2 :690215-692302	MVR	MR150	OK	72.8042	71.4488	-0.027111	0.029962	0.9761	0.999883
gene661	gene661	SACOL0664	gi 57650036 ref NC_002951.2 :692690-693326	MVR	MR150	OK	9.93204	8.77703	-0.178357	0.255051	0.79868	0.999883
gene662	gene662	SACOL0665	gi 57650036 ref NC_002951.2 :693704-694592	MVR	MR150	OK	26.5953	25.5942	-0.0553541	0.079951	0.93628	0.999883
gene663	gene663	SACOL0666	gi 57650036 ref NC_002951.2 :694739-695690	MVR	MR150	OK	13.9153	18.1469	0.383048	-0.561004	0.5748	0.999883
gene664	gene664	SACOL0667	gi 57650036 ref NC_002951.2 :695744-697248	MVR	MR150	OK	22.6321	29.1465	0.364954	-0.325114	0.7451	0.999883
gene665	gene665	SACOL0668	gi 57650036 ref NC_002951.2 :695744-697248	MVR	MR150	OK	31.0087	30.3159	-0.0326027	0.034164	0.97275	0.999883
gene666	gene666	SACOL0669	gi 57650036 ref NC_002951.2 :697383-697890	MVR	MR150	OK	161.659	183.374	0.181835	-0.238352	0.81161	0.999883
gene667	gene667	SACOL0670	gi 57650036 ref NC_002951.2 :698051-698768	MVR	MR150	OK	33.9174	31.0922	-0.125472	0.181842	0.85571	0.999883

gene668	gene668	SACOL0671	gi 57650036 ref NC_002951.2 :698936-699725	MVR	MR150	OK	76.5804	79.5422	0.0547468	-0.072654	0.94208	0.999883
gene669	gene669	sarA	gi 57650036 ref NC_002951.2 :699975-700350	MVR	MR150	OK	886.334	546.26	-0.698263	0.8322	0.4053	0.999883
gene67	gene67	SACOL0070	gi 57650036 ref NC_002951.2 :78529-80204	MVR	MR150	NOTEST	0	0	0	0	1	1
gene670	gene670	SACOL0673	gi 57650036 ref NC_002951.2 :700497-700617	MVR	MR150	NOTEST	0	0	0	0	1	1
gene671	gene671	SACOL0675	gi 57650036 ref NC_002951.2 :701297-702191	MVR	MR150	OK	13.7895	14.1206	0.0342321	-0.050328	0.95986	0.999883
gene672	gene672	SACOL0676	gi 57650036 ref NC_002951.2 :702421-702646	MVR	MR150	OK	1.43588	3.18319	1.14854	-0.517213	0.60501	0.999883
gene673	gene673	SACOL0677	gi 57650036 ref NC_002951.2 :702662-702866	MVR	MR150	OK	4.14336	4.59906	0.150538	-0.084861	0.93237	0.999883
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	MVR	MR150	OK	7.62842	3.81532	-0.999579	1.31278	0.18926	0.848649
gene675	gene675	SACOL0679	gi 57650036 ref NC_002951.2 :703603-708245	MVR	MR150	OK	5.87864	5.97971	0.0245908	-0.022296	0.98221	0.999883
gene676	gene676	SACOL0680	gi 57650036 ref NC_002951.2 :703603-708245	MVR	MR150	OK	7.73758	6.07603	-0.348753	0.106266	0.91537	0.999883
gene677	gene677	SACOL0681	gi 57650036 ref NC_002951.2 :703603-708245	MVR	MR150	OK	8.57136	6.17392	-0.473337	0.119227	0.9051	0.999883
gene678	gene678	SACOL0682	gi 57650036 ref NC_002951.2 :703603-708245	MVR	MR150	OK	11.0264	11.9268	0.113248	-0.109359	0.91292	0.999883
gene679	gene679	SACOL0684	gi 57650036 ref NC_002951.2 :708245-709439	MVR	MR150	OK	4.27596	3.78264	-0.176857	0.100178	0.9202	0.999883
gene68	gene68	SACOL0071	gi 57650036 ref NC_002951.2 :78529-80204	MVR	MR150	NOTEST	0	0	0	0	1	1
gene680	gene680	SACOL0685	gi 57650036 ref NC_002951.2 :708245-709439	MVR	MR150	OK	18.3654	12.4242	-0.563839	0.378515	0.70505	0.999883
gene681	gene681	SACOL0686	gi 57650036 ref NC_002951.2 :708245-709439	MVR	MR150	OK	17.895	22.4556	0.327524	-0.379761	0.70412	0.999883
gene682	gene682	SACOL0687	gi 57650036 ref NC_002951.2 :709778-711821	MVR	MR150	OK	40.6759	58.8422	0.532677	-0.654439	0.51283	0.999883
gene683	gene683	SACOL0688	gi 57650036 ref NC_002951.2 :712980-715480	MVR	MR150	OK	265.295	263.878	-0.0077241	0.005363	0.99572	0.999883
gene684	gene684	SACOL0689	gi 57650036 ref NC_002951.2 :712980-715480	MVR	MR150	OK	156.435	155.036	-0.012959	0.00644	0.99486	0.999883
gene685	gene685	SACOL0690	gi 57650036 ref NC_002951.2 :712980-715480	MVR	MR150	OK	264.117	274.675	0.0565526	-0.0341	0.9728	0.999883
gene686	gene686	sirR	gi 57650036 ref NC_002951.2 :715601-716246	MVR	MR150	OK	166.212	196.072	0.238366	-0.297798	0.76586	0.999883
gene687	gene687	SACOL0692	gi 57650036 ref NC_002951.2 :716325-717078	MVR	MR150	OK	11.0526	13.0121	0.235466	-0.34468	0.73034	0.999883
gene688	gene688	tagA	gi 57650036 ref NC_002951.2 :717313-718078	MVR	MR150	OK	24.8574	28.1815	0.181076	-0.263598	0.79209	0.999883
gene689	gene689	SACOL0694	gi 57650036 ref NC_002951.2 :718138-718933	MVR	MR150	OK	78.9505	89.5482	0.181717	-0.239106	0.81102	0.999883
gene69	gene69	SACOL0072	gi 57650036 ref NC_002951.2 :80405-81266	MVR	MR150	NOTEST	0	0	0	0	1	1
gene690	gene690	SACOL0695	gi 57650036 ref NC_002951.2 :719279-720092	MVR	MR150	OK	100.463	114.645	0.190502	-0.243432	0.80767	0.999883
gene691	gene691	tagB	gi 57650036 ref NC_002951.2 :720190-722352	MVR	MR150	OK	34.8224	35.9134	0.0445071	-0.041467	0.96692	0.999883
gene692	gene692	tagX	gi 57650036 ref NC_002951.2 :720190-722352	MVR	MR150	OK	33.8455	33.7541	-0.0039009	0.003468	0.99723	0.999883
gene693	gene693	tagD	gi 57650036 ref NC_002951.2 :722414-722813	MVR	MR150	OK	53.4439	44.3294	-0.269761	0.396662	0.69162	0.999883
gene694	gene694	pbp4	gi 57650036 ref NC_002951.2 :722929-724225	MVR	MR150	OK	19.6946	19.4234	-0.0200028	0.028571	0.97721	0.999883
gene695	gene695	abcA	gi 57650036 ref NC_002951.2 :724645-726373	MVR	MR150	OK	47.1325	60.8455	0.368427	-0.458159	0.64684	0.999883
gene696	gene696	SACOL0701	gi 57650036 ref NC_002951.2 :726731-727961	MVR	MR150	OK	75.9809	88.1715	0.214677	-0.266192	0.79009	0.999883
gene697	gene697	SACOL0702	gi 57650036 ref NC_002951.2 :728215-728308	MVR	MR150	NOTEST	0	0	0	0	1	1

gene698	gene698	SACOL0703	gi 57650036 ref NC_002951.2 :728485-729319	MVR	MR150	OK	44.0938	39.848	-0.14607	0.205023	0.83755	0.999883
gene699	gene699	SACOL0704	gi 57650036 ref NC_002951.2 :729600-730398	MVR	MR150	OK	40.6442	35.5885	-0.191638	0.27265	0.78512	0.999883
gene7	gene7	hutH	gi 57650036 ref NC_002951.2 :10919-12434	MVR	MR150	OK	16.4903	37.6203	1.1899	-1.62769	0.10359	0.645527
gene70	gene70	SACOL0073	gi 57650036 ref NC_002951.2 :81620-82154	MVR	MR150	NOTEST	0	0	0	0	1	1
gene700	gene700	SACOL0705	gi 57650036 ref NC_002951.2 :730433-732451	MVR	MR150	OK	11.6057	11.794	0.0232175	-0.014228	0.98865	0.999883
gene701	gene701	SACOL0706	gi 57650036 ref NC_002951.2 :730433-732451	MVR	MR150	OK	45.4995	40.1108	-0.181861	0.21478	0.82994	0.999883
gene702	gene702	SACOL0707	gi 57650036 ref NC_002951.2 :732687-733653	MVR	MR150	OK	27.347	26.3877	-0.051519	0.073823	0.94115	0.999883
gene703	gene703	SACOL0708	gi 57650036 ref NC_002951.2 :733694-734634	MVR	MR150	OK	39.8246	42.934	0.108461	-0.14167	0.88734	0.999883
gene704	gene704	SACOL0709	gi 57650036 ref NC_002951.2 :733694-734634	MVR	MR150	OK	21.321	21.2521	-0.0046684	0.002821	0.99775	0.999883
gene705	gene705	SACOL0710	gi 57650036 ref NC_002951.2 :734749-735247	MVR	MR150	OK	445.163	480.443	0.110032	-0.12911	0.89727	0.999883
gene706	gene706	SACOL0711	gi 57650036 ref NC_002951.2 :735702-736770	MVR	MR150	OK	264.959	346.147	0.385614	-0.421779	0.67319	0.999883
gene707	gene707	SACOL0712	gi 57650036 ref NC_002951.2 :736920-737964	MVR	MR150	OK	15.7608	31.5706	1.00224	-1.43368	0.15166	0.757479
gene708	gene708	SACOL0713	gi 57650036 ref NC_002951.2 :738292-738721	MVR	MR150	OK	82.2271	115.957	0.495907	-0.70579	0.48032	0.999883
gene709	gene709	SACOL0714	gi 57650036 ref NC_002951.2 :738929-739436	MVR	MR150	OK	136.09	173.906	0.353744	-0.469045	0.63904	0.999883
gene71	gene71	SACOL0074	gi 57650036 ref NC_002951.2 :82253-82988	MVR	MR150	NOTEST	0	0	0	0	1	1
gene710	gene710	SACOL0715	gi 57650036 ref NC_002951.2 :739548-740472	MVR	MR150	OK	29.9896	35.5316	0.244637	-0.346705	0.72881	0.999883
gene711	gene711	SACOL0716	gi 57650036 ref NC_002951.2 :740478-742195	MVR	MR150	OK	21.9873	21.824	-0.010755	0.006809	0.99457	0.999883
gene712	gene712	SACOL0717	gi 57650036 ref NC_002951.2 :740478-742195	MVR	MR150	OK	40.7992	43.7009	0.0991212	-0.115492	0.90806	0.999883
gene713	gene713	SACOL0718	gi 57650036 ref NC_002951.2 :742338-744979	MVR	MR150	OK	257.675	292.036	0.180593	-0.092485	0.92631	0.999883
gene714	gene714	SACOL0720	gi 57650036 ref NC_002951.2 :742338-744979	MVR	MR150	OK	251.228	294.92	0.231323	-0.203653	0.83863	0.999883
gene715	gene715	SACOL0721	gi 57650036 ref NC_002951.2 :745703-746321	MVR	MR150	OK	55.1894	58.2235	0.0772103	-0.109558	0.91276	0.999883
gene716	gene716	SACOL0722	gi 57650036 ref NC_002951.2 :746336-747344	MVR	MR150	OK	63.8485	71.2597	0.158433	-0.206559	0.83635	0.999883
gene717	gene717	SACOL0723	gi 57650036 ref NC_002951.2 :747931-748729	MVR	MR150	OK	1781.93	1697.49	-0.0700316	0.071571	0.94294	0.999883
gene718	gene718	SACOL0724	gi 57650036 ref NC_002951.2 :749089-749734	MVR	MR150	OK	29.1599	31.6468	0.118072	-0.17252	0.86303	0.999883
gene719	gene719	SACOL0725	gi 57650036 ref NC_002951.2 :750430-752581	MVR	MR150	OK	6.19201	6.98745	0.174359	-0.254998	0.79873	0.999883
gene72	gene72	SACOL0075	gi 57650036 ref NC_002951.2 :83421-84024	MVR	MR150	OK	15.2677	20.5093	0.425795	-0.623678	0.53284	0.999883
gene720	gene720	sarX	gi 57650036 ref NC_002951.2 :752660-753086	MVR	MR150	OK	12.896	22.9539	0.83182	-1.17665	0.23934	0.9107
gene721	gene721	SACOL0727	gi 57650036 ref NC_002951.2 :753275-754465	MVR	MR150	OK	47.1997	61.8883	0.390888	-0.429386	0.66764	0.999883
gene722	gene722	SACOL0728	gi 57650036 ref NC_002951.2 :753275-754465	MVR	MR150	OK	50.7966	50.7799	-0.0004743	0.000363	0.99971	0.999883
gene723	gene723	SACOL0730	gi 57650036 ref NC_002951.2 :754817-755462	MVR	MR150	OK	39.5742	40.5904	0.0365804	-0.052874	0.95783	0.999883
gene724	gene724	SACOL0731	gi 57650036 ref NC_002951.2 :755577-756444	MVR	MR150	OK	32.0104	42.9279	0.423375	-0.597259	0.55033	0.999883
gene725	gene725	SACOL0733	gi 57650036 ref NC_002951.2 :756782-758488	MVR	MR150	OK	24.4019	24.8996	0.0291275	-0.031956	0.97451	0.999883
gene726	gene726	SACOL0734	gi 57650036 ref NC_002951.2 :756782-758488	MVR	MR150	OK	41.1457	51.3337	0.319162	-0.250556	0.80216	0.999883

gene727	gene727	SACOL0735	gi 57650036 ref NC_002951.2 :758586-759276	MVR	MR150	OK	19.8225	17.4955	-0.180155	0.264921	0.79107	0.999883
gene728	gene728	SACOL0736	gi 57650036 ref NC_002951.2 :759402-759846	MVR	MR150	OK	3.16779	0	-1.79769e+30	-1.79769e+30	0.01297	0.195191
gene729	gene729	SACOL0737	gi 57650036 ref NC_002951.2 :759912-760308	MVR	MR150	OK	37.6434	17.0633	-1.1415	1.64155	0.10068	0.638047
gene73	gene73	SACOL0076	gi 57650036 ref NC_002951.2 :84290-87443	MVR	MR150	OK	10.6042	10.738	0.0180785	-0.024913	0.98012	0.999883
gene730	gene730	SACOL0738	gi 57650036 ref NC_002951.2 :760445-760745	MVR	MR150	OK	84.6887	55.1378	-0.619127	0.907203	0.3643	0.999883
gene731	gene731	SACOL0739	gi 57650036 ref NC_002951.2 :760824-761367	MVR	MR150	OK	8.97207	6.69194	-0.423017	0.581341	0.56101	0.999883
gene732	gene732	SACOL0740	gi 57650036 ref NC_002951.2 :761462-762029	MVR	MR150	OK	14.1393	10.8421	-0.383063	0.551303	0.58143	0.999883
gene733	gene733	SACOL0741	gi 57650036 ref NC_002951.2 :762030-762489	MVR	MR150	OK	8.66501	8.2614	-0.0688163	0.092344	0.92643	0.999883
gene734	gene734	SACOL0742	gi 57650036 ref NC_002951.2 :762491-763175	MVR	MR150	OK	39.1451	18.6611	-1.06879	1.55671	0.11954	0.68714
gene735	gene735	uppP	gi 57650036 ref NC_002951.2 :763346-764222	MVR	MR150	OK	25.5599	25.5952	0.0019924	-0.002883	0.9977	0.999883
gene736	gene736	SACOL0744	gi 57650036 ref NC_002951.2 :764440-767742	MVR	MR150	OK	19.8973	18.9315	-0.0717778	0.059834	0.95229	0.999883
gene737	gene737	SACOL0745	gi 57650036 ref NC_002951.2 :764440-767742	MVR	MR150	OK	27.7513	23.1722	-0.260163	0.251678	0.80129	0.999883
gene738	gene738	norR	gi 57650036 ref NC_002951.2 :767868-768312	MVR	MR150	OK	762.646	740.567	-0.0423829	0.048235	0.96153	0.999883
gene739	gene739	SACOL0747	gi 57650036 ref NC_002951.2 :768538-769465	MVR	MR150	OK	14.9724	12.8481	-0.220751	0.32441	0.74563	0.999883
gene74	gene74	SACOL0077	gi 57650036 ref NC_002951.2 :87499-87982	MVR	MR150	OK	20.9297	29.7207	0.505917	-0.740148	0.45921	0.999883
gene740	gene740	SACOL0748	gi 57650036 ref NC_002951.2 :769567-770476	MVR	MR150	OK	47.5484	46.2175	-0.0409571	0.056203	0.95518	0.999883
gene741	gene741	SACOL0749	gi 57650036 ref NC_002951.2 :770510-770798	MVR	MR150	OK	74.3458	92.1493	0.309722	-0.454287	0.64962	0.999883
gene742	gene742	SACOL0750	gi 57650036 ref NC_002951.2 :771080-772634	MVR	MR150	OK	21.7235	19.4562	-0.159027	0.221997	0.82432	0.999883
gene743	gene743	SACOL0751	gi 57650036 ref NC_002951.2 :772719-774093	MVR	MR150	OK	26.6995	27.787	0.0575995	-0.079303	0.93679	0.999883
gene744	gene744	SACOL0752	gi 57650036 ref NC_002951.2 :774528-775146	MVR	MR150	OK	52.3706	34.7876	-0.590183	0.851965	0.39423	0.999883
gene745	gene745	SACOL0753	gi 57650036 ref NC_002951.2 :775331-775754	MVR	MR150	OK	95.3468	79.3473	-0.265003	0.38183	0.70259	0.999883
gene746	gene746	norA	gi 57650036 ref NC_002951.2 :775962-777129	MVR	MR150	OK	22.0779	20.7465	-0.0897304	0.128496	0.89776	0.999883
gene747	gene747	SACOL0755	gi 57650036 ref NC_002951.2 :777421-777874	MVR	MR150	OK	2110.65	1934.51	-0.125718	0.130403	0.89625	0.999883
gene748	gene748	SACOL0756	gi 57650036 ref NC_002951.2 :778047-778530	MVR	MR150	OK	9.90222	7.56527	-0.388361	0.528413	0.59721	0.999883
gene749	gene749	SACOL0757	gi 57650036 ref NC_002951.2 :778779-780461	MVR	MR150	OK	2.80996	1.08391	-1.37431	1.10238	0.2703	0.953794
gene75	gene75	plc	gi 57650036 ref NC_002951.2 :88186-89173	MVR	MR150	NOTEST	0.99634	0.7783	-0.356312	0.385835	0.69962	1
gene750	gene750	fruK	gi 57650036 ref NC_002951.2 :778779-780461	MVR	MR150	OK	3.10415	1.91139	-0.699575	0.766933	0.44312	0.999883
gene751	gene751	SACOL0759	gi 57650036 ref NC_002951.2 :780466-782424	MVR	MR150	OK	5.97036	6.70886	0.16825	-0.246884	0.805	0.999883
gene752	gene752	nagA	gi 57650036 ref NC_002951.2 :782731-783913	MVR	MR150	OK	16.1771	14.6595	-0.142117	0.206763	0.8362	0.999883
gene753	gene753	SACOL0762	gi 57650036 ref NC_002951.2 :784133-785483	MVR	MR150	OK	121.072	139.836	0.207873	-0.240873	0.80965	0.999883
gene754	gene754	SACOL0763	gi 57650036 ref NC_002951.2 :785704-786544	MVR	MR150	OK	22.212	26.7949	0.270622	-0.393179	0.69419	0.999883
gene755	gene755	SACOL0764	gi 57650036 ref NC_002951.2 :786675-787659	MVR	MR150	OK	45.0892	49.6111	0.137881	-0.186995	0.85167	0.999883
gene756	gene756	saeS	gi 57650036 ref NC_002951.2 :787730-789920	MVR	MR150	OK	156.53	128.985	-0.279237	0.21993	0.82593	0.999883

gene757	gene757	saeR	gi 57650036 ref NC_002951.2 :787730-789920	MVR	MR150	OK	203.045	146.484	-0.471053	0.30678	0.75901	0.999883
gene758	gene758	SACOL0767	gi 57650036 ref NC_002951.2 :787730-789920	MVR	MR150	OK	149.128	109.93	-0.439961	0.183503	0.8544	0.999883
gene759	gene759	SACOL0768	gi 57650036 ref NC_002951.2 :790261-790702	MVR	MR150	OK	364.354	257.284	-0.501978	0.634897	0.5255	0.999883
gene76	gene76	SACOL0079	gi 57650036 ref NC_002951.2 :89393-90164	MVR	MR150	NOTEST	0.53445	0.53626	0.00487306	-0.004126	0.99671	1
gene760	gene760	SACOL0769	gi 57650036 ref NC_002951.2 :790981-791566	MVR	MR150	OK	49.5379	73.1468	0.562263	-0.797052	0.42542	0.999883
gene761	gene761	SACOL0770	gi 57650036 ref NC_002951.2 :791664-792378	MVR	MR150	OK	23.5056	41.9959	0.837242	-1.21064	0.22604	0.896337
gene762	gene762	SACOL0771	gi 57650036 ref NC_002951.2 :792381-792801	MVR	MR150	OK	14.1559	32.579	1.20254	-1.71552	0.08625	0.588306
gene763	gene763	SACOL0772	gi 57650036 ref NC_002951.2 :792802-793471	MVR	MR150	OK	16.5533	32.9662	0.993873	-1.4517	0.14658	0.743774
gene764	gene764	pabA	gi 57650036 ref NC_002951.2 :793821-796158	MVR	MR150	OK	5.68661	4.27314	-0.412273	0.243819	0.80737	0.999883
gene765	gene765	SACOL0774	gi 57650036 ref NC_002951.2 :793821-796158	MVR	MR150	OK	6.20674	6.18559	-0.0049256	0.006598	0.99474	0.999883
gene766	gene766	SACOL0776	gi 57650036 ref NC_002951.2 :796517-798216	MVR	MR150	OK	11.2849	10.4857	-0.105979	0.082561	0.9342	0.999883
gene767	gene767	SACOL0777	gi 57650036 ref NC_002951.2 :796517-798216	MVR	MR150	OK	14.6757	18.2617	0.315398	-0.380989	0.70321	0.999883
gene768	gene768	SACOL0778	gi 57650036 ref NC_002951.2 :798689-800630	MVR	MR150	OK	319.391	333.263	0.0613372	-0.063189	0.94962	0.999883
gene769	gene769	SACOL0779	gi 57650036 ref NC_002951.2 :800906-802784	MVR	MR150	OK	36.9533	40.5288	0.133242	-0.1703	0.86477	0.999883
gene77	gene77	SACOL0080	gi 57650036 ref NC_002951.2 :90215-90986	MVR	MR150	NOTEST	0.32067	0.80439	1.3268	-1.01383	0.31066	1
gene770	gene770	recQ1	gi 57650036 ref NC_002951.2 :802795-804577	MVR	MR150	OK	56.3484	55.0899	-0.0325861	0.040175	0.96795	0.999883
gene771	gene771	SACOL0781	gi 57650036 ref NC_002951.2 :804798-807283	MVR	MR150	OK	23.577	24.0126	0.0264106	-0.019595	0.98437	0.999883
gene772	gene772	opuBB	gi 57650036 ref NC_002951.2 :804798-807283	MVR	MR150	OK	30.7607	26.9049	-0.193218	0.205755	0.83698	0.999883
gene773	gene773	hisC	gi 57650036 ref NC_002951.2 :807522-808581	MVR	MR150	OK	10.0851	9.27021	-0.121546	0.178696	0.85818	0.999883
gene774	gene774	SACOL0785	gi 57650036 ref NC_002951.2 :808931-809474	MVR	MR150	OK	25.8176	35.2442	0.449031	-0.658966	0.50992	0.999883
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	MVR	MR150	OK	0	75.521	1.79769e+30	1.79769e+30	0.01149	0.182325
gene776	gene776	SACOL0787	gi 57650036 ref NC_002951.2 :810153-811071	MVR	MR150	OK	31.4284	30.9233	-0.0233776	0.033297	0.97344	0.999883
gene777	gene777	SACOL0788	gi 57650036 ref NC_002951.2 :811340-812846	MVR	MR150	OK	146.443	152.691	0.0602711	-0.067881	0.94588	0.999883
gene778	gene778	SACOL0789	gi 57650036 ref NC_002951.2 :813186-813687	MVR	MR150	OK	37.0683	39.1312	0.0781315	-0.114651	0.90872	0.999883
gene779	gene779	SACOL0790	gi 57650036 ref NC_002951.2 :813706-814573	MVR	MR150	OK	28.3729	30.7612	0.116599	-0.167524	0.86696	0.999883
gene78	gene78	SACOL0081	gi 57650036 ref NC_002951.2 :91049-91214	MVR	MR150	NOTEST	0	0	0	0	1	1
gene780	gene780	SACOL0790.1	gi 57650036 ref NC_002951.2 :814957-815224	MVR	MR150	OK	303.103	358.806	0.243394	-0.343005	0.7316	0.999883
gene781	gene781	nrdI	gi 57650036 ref NC_002951.2 :815373-817840	MVR	MR150	OK	629.523	727.613	0.208913	-0.069807	0.94435	0.999883
gene782	gene782	nrdE	gi 57650036 ref NC_002951.2 :815373-817840	MVR	MR150	OK	531.103	605.703	0.189619	-0.183714	0.85424	0.999883
gene783	gene783	nrdF	gi 57650036 ref NC_002951.2 :817957-818929	MVR	MR150	OK	929.536	1092.53	0.233094	-0.238161	0.81176	0.999883
gene784	gene784	SACOL0794	gi 57650036 ref NC_002951.2 :819061-819166	MVR	MR150	NOTEST	0	0	0	0	1	1
gene785	gene785	SACOL0796	gi 57650036 ref NC_002951.2 :819636-822309	MVR	MR150	OK	2.50169	1.58683	-0.656757	0.63867	0.52304	0.999883
gene786	gene786	SACOL0797	gi 57650036 ref NC_002951.2 :819636-822309	MVR	MR150	OK	1.43599	1.21369	-0.242641	0.189245	0.8499	0.999883

gene787	gene787	SACOL0798	gi 57650036 ref NC_002951.2 :819636-822309	MVR	MR150	OK	1.84752	0.54484	-1.76168	0.984195	0.32502	0.999883
gene788	gene788	SACOL0799	gi 57650036 ref NC_002951.2 :822427-823456	MVR	MR150	OK	6.68327	2.95555	-1.17713	1.65923	0.09707	0.627779
gene789	gene789	SACOL0800	gi 57650036 ref NC_002951.2 :823772-824087	MVR	MR150	OK	11.7047	10.0812	-0.215429	0.265492	0.79063	0.999883
gene79	gene79	SACOL0082	gi 57650036 ref NC_002951.2 :91226-91823	MVR	MR150	NOTEST	0.15669	0	-1.79769e+3	-1.79769e+3	0.22252	1
gene790	gene790	murB	gi 57650036 ref NC_002951.2 :824104-825028	MVR	MR150	OK	23.4738	23.4762	0.00014944	-0.000216	0.99983	0.999883
gene791	gene791	SACOL0802	gi 57650036 ref NC_002951.2 :825154-825673	MVR	MR150	OK	14.6437	13.4291	-0.124919	0.179644	0.85743	0.999883
gene792	gene792	SACOL0803	gi 57650036 ref NC_002951.2 :825792-826671	MVR	MR150	OK	16.7834	19.6191	0.225222	-0.329781	0.74157	0.999883
gene793	gene793	SACOL0804	gi 57650036 ref NC_002951.2 :826824-827145	MVR	MR150	OK	70.8922	76.034	0.101016	-0.148479	0.88197	0.999883
gene794	gene794	SACOL0805	gi 57650036 ref NC_002951.2 :827569-828694	MVR	MR150	OK	35.0495	43.7074	0.318484	-0.432854	0.66512	0.999883
gene795	gene795	pepT	gi 57650036 ref NC_002951.2 :828882-830109	MVR	MR150	OK	94.2251	92.157	-0.032017	0.0391	0.96881	0.999883
gene796	gene796	SACOL0807	gi 57650036 ref NC_002951.2 :830122-830617	MVR	MR150	OK	10.5459	17.6288	0.741249	-1.05341	0.29215	0.976283
gene797	gene797	SACOL0808	gi 57650036 ref NC_002951.2 :830634-831396	MVR	MR150	OK	6.62935	8.7175	0.395047	-0.566329	0.57117	0.999883
gene798	gene798	SACOL0809	gi 57650036 ref NC_002951.2 :831591-832662	MVR	MR150	OK	21.2653	25.3178	0.251651	-0.360711	0.71832	0.999883
gene799	gene799	SACOL0810	gi 57650036 ref NC_002951.2 :832979-834035	MVR	MR150	OK	19.9617	17.7109	-0.172597	0.250484	0.80221	0.999883
gene8	gene8	serS	gi 57650036 ref NC_002951.2 :12812-14099	MVR	MR150	OK	46.1596	42.2679	-0.127066	0.167747	0.86678	0.999883
gene80	gene80	SACOL0083	gi 57650036 ref NC_002951.2 :91889-92657	MVR	MR150	NOTEST	0.10748	0.26955	1.32647	-0.597339	0.55028	1
gene800	gene800	SACOL0811	gi 57650036 ref NC_002951.2 :834204-834846	MVR	MR150	OK	69.6464	92.121	0.403481	-0.550361	0.58207	0.999883
gene801	gene801	SACOL0812	gi 57650036 ref NC_002951.2 :834989-835856	MVR	MR150	OK	91.6662	103.303	0.172414	-0.220625	0.82538	0.999883
gene802	gene802	SACOL0813	gi 57650036 ref NC_002951.2 :836219-837969	MVR	MR150	OK	3.8805	1.38744	-1.48382	1.61608	0.10608	0.653986
gene803	gene803	SACOL0814	gi 57650036 ref NC_002951.2 :836219-837969	MVR	MR150	OK	1.68517	2.57823	0.613483	-0.447056	0.65483	0.999883
gene804	gene804	SACOL0815	gi 57650036 ref NC_002951.2 :838029-838602	MVR	MR150	OK	816.584	949.863	0.218117	-0.233939	0.81503	0.999883
gene805	gene805	secA	gi 57650036 ref NC_002951.2 :839015-841547	MVR	MR150	OK	120.252	140.765	0.227219	-0.244919	0.80652	0.999883
gene806	gene806	SACOL0817	gi 57650036 ref NC_002951.2 :841588-841693	MVR	MR150	NOTEST	0	0	0	0	1	1
gene807	gene807	prfB	gi 57650036 ref NC_002951.2 :841861-842972	MVR	MR150	OK	37.976	44.2107	0.219307	-0.297139	0.76636	0.999883
gene808	gene808	SACOL0819	gi 57650036 ref NC_002951.2 :843125-843233	MVR	MR150	NOTEST	0	0	0	0	1	1
gene809	gene809	SACOL0820	gi 57650036 ref NC_002951.2 :843380-844220	MVR	MR150	OK	5.7903	4.06708	-0.509643	0.712381	0.47623	0.999883
gene81	gene81	SACOL0084	gi 57650036 ref NC_002951.2 :92789-94988	MVR	MR150	OK	13.8304	14.4057	0.0587942	-0.081948	0.93469	0.999883
gene810	gene810	SACOL0821	gi 57650036 ref NC_002951.2 :844393-845277	MVR	MR150	OK	14.9229	17.3101	0.214084	-0.297759	0.76589	0.999883
gene811	gene811	SACOL0822	gi 57650036 ref NC_002951.2 :844393-845277	MVR	MR150	OK	12.0852	18.7853	0.636358	-0.292159	0.77017	0.999883
gene812	gene812	uvrB	gi 57650036 ref NC_002951.2 :845539-847531	MVR	MR150	OK	56.306	64.9612	0.20629	-0.248005	0.80413	0.999883
gene813	gene813	uvrA	gi 57650036 ref NC_002951.2 :847538-850385	MVR	MR150	OK	65.8737	70.4279	0.0964462	-0.109474	0.91283	0.999883
gene814	gene814	hprK	gi 57650036 ref NC_002951.2 :850991-851924	MVR	MR150	OK	68.5381	61.835	-0.148482	0.196242	0.84442	0.999883
gene815	gene815	lgt	gi 57650036 ref NC_002951.2 :851929-852769	MVR	MR150	OK	35.5961	43.3025	0.28273	-0.398607	0.69018	0.999883

gene816	gene816	SACOL0827	gi 57650036 ref NC_002951.2 :852776-853262	MVR	MR150	OK	30.9293	35.8274	0.212088	-0.311706	0.75526	0.999883
gene817	gene817	SACOL0828	gi 57650036 ref NC_002951.2 :853269-854709	MVR	MR150	OK	31.9361	41.6242	0.382237	-0.507603	0.61173	0.999883
gene818	gene818	trxB	gi 57650036 ref NC_002951.2 :854775-855711	MVR	MR150	OK	233.083	259.647	0.155712	-0.176885	0.8596	0.999883
gene819	gene819	SACOL0830	gi 57650036 ref NC_002951.2 :856420-858324	MVR	MR150	OK	37.3119	38.7108	0.0530991	-0.04463	0.9644	0.999883
gene82	gene82	SACOL0085	gi 57650036 ref NC_002951.2 :95138-96317	MVR	MR150	OK	4.40909	3.59789	-0.293331	0.418493	0.67559	0.999883
gene820	gene820	SACOL0831	gi 57650036 ref NC_002951.2 :856420-858324	MVR	MR150	OK	41.8131	48.6712	0.219112	-0.212454	0.83175	0.999883
gene821	gene821	SACOL0832	gi 57650036 ref NC_002951.2 :858433-859378	MVR	MR150	OK	53.8533	55.0844	0.032608	-0.043811	0.96506	0.999883
gene823	gene823	clpP	gi 57650036 ref NC_002951.2 :859950-860538	MVR	MR150	OK	430.777	560.932	0.380884	-0.431017	0.66646	0.999883
gene824	gene824	SACOL0834	gi 57650036 ref NC_002951.2 :860780-861683	MVR	MR150	OK	22.8216	19.3853	-0.235439	0.342858	0.73171	0.999883
gene825	gene825	SACOL0835	gi 57650036 ref NC_002951.2 :862386-863016	MVR	MR150	OK	45.2098	26.6982	-0.759895	1.10473	0.26928	0.952424
gene826	gene826	SACOL0836	gi 57650036 ref NC_002951.2 :863204-863351	MVR	MR150	NOTEST	0	0	0	0	1	1
gene827	gene827	gapR	gi 57650036 ref NC_002951.2 :863775-864789	MVR	MR150	OK	66.6208	70.9228	0.0902769	-0.117389	0.90655	0.999883
gene828	gene828	gapA1	gi 57650036 ref NC_002951.2 :864841-865852	MVR	MR150	OK	302.645	246.598	-0.295462	0.328726	0.74236	0.999883
gene829	gene829	pgk	gi 57650036 ref NC_002951.2 :865990-867181	MVR	MR150	OK	68.7632	57.9512	-0.246797	0.316916	0.75131	0.999883
gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	MVR	MR150	OK	3.2129	2.83383	-0.181124	0.256884	0.79727	0.999883
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	MVR	MR150	OK	87.9204	87.175	-0.0122839	0.016195	0.98708	0.999883
gene831	gene831	pgm	gi 57650036 ref NC_002951.2 :868066-869584	MVR	MR150	OK	79.8196	69.0267	-0.209589	0.255181	0.79858	0.999883
gene832	gene832	eno	gi 57650036 ref NC_002951.2 :869713-871018	MVR	MR150	OK	295.773	276.366	-0.0979088	0.105188	0.91623	0.999883
gene833	gene833	SACOL0843	gi 57650036 ref NC_002951.2 :871357-871816	MVR	MR150	OK	33.1746	45.4377	0.453809	-0.666046	0.50538	0.999883
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	MVR	MR150	OK	1119.44	1372.25	0.293773	-0.37636	0.70665	0.999883
gene835	gene835	est	gi 57650036 ref NC_002951.2 :872231-872972	MVR	MR150	OK	33.927	31.4118	-0.111127	0.160667	0.87236	0.999883
gene836	gene836	SACOL0846	gi 57650036 ref NC_002951.2 :873005-875378	MVR	MR150	OK	64.4246	66.0503	0.0359541	-0.041889	0.96659	0.999883
gene837	gene837	smpB	gi 57650036 ref NC_002951.2 :875399-875864	MVR	MR150	OK	93.4766	99.7936	0.0943417	-0.13314	0.89408	0.999883
gene838	gene838	SACOL_Satml	gi 57650036 ref NC_002951.2 :875954-876313	MVR	MR150	OK	162613	199870	0.297624	-0.476281	0.63387	0.999883
gene839	gene839	SACOL0848	gi 57650036 ref NC_002951.2 :876637-876919	MVR	MR150	OK	10.2688	8.23173	-0.318997	0.358207	0.72019	0.999883
gene84	gene84	SACOL0087	gi 57650036 ref NC_002951.2 :97874-97982	MVR	MR150	NOTEST	0	0	0	0	1	1
gene840	gene840	SACOL0849	gi 57650036 ref NC_002951.2 :877185-877509	MVR	MR150	OK	37.0277	36.6343	-0.0154081	0.022194	0.98229	0.999883
gene841	gene841	SACOL0850	gi 57650036 ref NC_002951.2 :877524-877671	MVR	MR150	NOTEST	0	0	0	0	1	1
gene842	gene842	SACOL0851	gi 57650036 ref NC_002951.2 :877862-878591	MVR	MR150	OK	3.8206	1.73642	-1.13768	1.4063	0.15964	0.779659
gene843	gene843	SACOL0853	gi 57650036 ref NC_002951.2 :879026-879182	MVR	MR150	NOTEST	0	0	0	0	1	1
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	MVR	MR150	OK	1.95912	0	-1.79769e+30	-1.79769e+30	0.01669	0.231165
gene845	gene845	SACOL0855	gi 57650036 ref NC_002951.2 :879849-880380	MVR	MR150	OK	3.0434	1.3868	-1.13393	1.20137	0.22961	0.898537
gene846	gene846	clfA	gi 57650036 ref NC_002951.2 :880642-883444	MVR	MR150	OK	93.3653	94.6643	0.0199325	-0.021938	0.9825	0.999883

gene847	gene847	SACOL0857	gi 57650036 ref NC_002951.2 :883664-885191	MVR	MR150	OK	1.16703	0.80793	-0.530541	0.656911	0.51124	0.999883
gene848	gene848	empbp	gi 57650036 ref NC_002951.2 :885541-886564	MVR	MR150	OK	3.73267	2.60495	-0.518952	0.711349	0.47687	0.999883
gene849	gene849	SACOL0859	gi 57650036 ref NC_002951.2 :886898-887369	MVR	MR150	OK	1.41474	1.69247	0.258602	-0.242723	0.80822	0.999883
gene85	gene85	SACOL0088	gi 57650036 ref NC_002951.2 :98199-99861	MVR	MR150	OK	76.18	92.7158	0.283403	-0.335747	0.73706	0.999883
gene850	gene850	nuc	gi 57650036 ref NC_002951.2 :887709-888396	MVR	MR150	OK	8.33392	10.6877	0.358881	-0.51679	0.6053	0.999883
gene851	gene851	SACOL0861	gi 57650036 ref NC_002951.2 :888752-888953	MVR	MR150	OK	18765.9	15928.5	-0.236506	0.245061	0.80641	0.999883
gene852	gene852	SACOL0862	gi 57650036 ref NC_002951.2 :889448-889667	MVR	MR150	OK	26.8453	27.9931	0.060401	-0.072845	0.94193	0.999883
gene853	gene853	SACOL0863	gi 57650036 ref NC_002951.2 :889728-890013	MVR	MR150	OK	5.70951	9.61861	0.752461	-0.798303	0.4247	0.999883
gene854	gene854	SACOL0864	gi 57650036 ref NC_002951.2 :890100-890670	MVR	MR150	OK	6.5864	4.96355	-0.408116	0.545591	0.58535	0.999883
gene855	gene855	SACOL0865	gi 57650036 ref NC_002951.2 :891074-891335	MVR	MR150	OK	28.9497	18.1772	-0.671423	0.865421	0.38681	0.999883
gene856	gene856	SACOL0866	gi 57650036 ref NC_002951.2 :891639-891744	MVR	MR150	NOTEST	0	0	0	0	1	1
gene857	gene857	SACOL0868	gi 57650036 ref NC_002951.2 :891875-892112	MVR	MR150	OK	39.8813	34.887	-0.193023	0.256731	0.79739	0.999883
gene858	gene858	SACOL0869	gi 57650036 ref NC_002951.2 :892327-892918	MVR	MR150	OK	8.28096	6.26311	-0.40292	0.557457	0.57722	0.999883
gene859	gene859	SACOL0870	gi 57650036 ref NC_002951.2 :892990-893608	MVR	MR150	OK	35.9028	37.3509	0.0570483	-0.08301	0.93384	0.999883
gene86	gene86	SACOL0089	gi 57650036 ref NC_002951.2 :100186-101962	MVR	MR150	OK	4.86145	2.52687	-0.944035	1.36835	0.1712	0.816303
gene860	gene860	SACOL0871	gi 57650036 ref NC_002951.2 :893762-894257	MVR	MR150	OK	14.2047	17.1103	0.268496	-0.386369	0.69922	0.999883
gene861	gene861	SACOL0872	gi 57650036 ref NC_002951.2 :894655-895078	MVR	MR150	OK	15.988	12.9965	-0.298864	0.418419	0.67564	0.999883
gene862	gene862	aroD	gi 57650036 ref NC_002951.2 :895225-895942	MVR	MR150	OK	8.42005	9.77184	0.214801	-0.309889	0.75665	0.999883
gene863	gene863	SACOL0874	gi 57650036 ref NC_002951.2 :896024-896564	MVR	MR150	OK	33.2696	29.7038	-0.163558	0.240285	0.81011	0.999883
gene864	gene864	SACOL0875	gi 57650036 ref NC_002951.2 :896713-897034	MVR	MR150	OK	118.864	160.516	0.433401	-0.627066	0.53062	0.999883
gene865	gene865	SACOL0876	gi 57650036 ref NC_002951.2 :897177-897534	MVR	MR150	OK	75.1591	85.1516	0.180085	-0.263685	0.79202	0.999883
gene866	gene866	gcvH	gi 57650036 ref NC_002951.2 :897691-898072	MVR	MR150	OK	546.626	621.98	0.186314	-0.225884	0.82129	0.999883
gene867	gene867	SACOL0879	gi 57650036 ref NC_002951.2 :898250-899129	MVR	MR150	OK	65.0803	67.8774	0.0607116	-0.080696	0.93568	0.999883
gene868	gene868	SACOL0880	gi 57650036 ref NC_002951.2 :899870-900546	MVR	MR150	OK	37.7792	39.7614	0.0737761	-0.085751	0.93166	0.999883
gene869	gene869	SACOL0881	gi 57650036 ref NC_002951.2 :899870-900546	MVR	MR150	OK	35.3709	47.8012	0.434483	-0.386083	0.69944	0.999883
gene87	gene87	SACOL0090	gi 57650036 ref NC_002951.2 :102135-103008	MVR	MR150	NOTEST	0	0	0	0	1	1
gene870	gene870	SACOL0882	gi 57650036 ref NC_002951.2 :900795-902509	MVR	MR150	OK	11.302	10.7528	-0.0718672	0.086211	0.9313	0.999883
gene871	gene871	SACOL0883	gi 57650036 ref NC_002951.2 :900795-902509	MVR	MR150	OK	8.91831	8.95068	0.00522631	-0.004352	0.99653	0.999883
gene872	gene872	SACOL0884	gi 57650036 ref NC_002951.2 :902526-903348	MVR	MR150	OK	23.5647	24.3698	0.0484658	-0.07057	0.94374	0.999883
gene873	gene873	SACOL0885	gi 57650036 ref NC_002951.2 :903490-904711	MVR	MR150	OK	2.58097	3.29994	0.354528	-0.494102	0.62123	0.999883
gene874	gene874	sek	gi 57650036 ref NC_002951.2 :904799-905528	MVR	MR150	OK	18.061	25.4675	0.495781	-0.726508	0.46753	0.999883
gene875	gene875	sei	gi 57650036 ref NC_002951.2 :905551-906280	MVR	MR150	OK	10.4198	15.3384	0.557818	-0.815411	0.41484	0.999883
gene876	gene876	SACOL0888	gi 57650036 ref NC_002951.2 :906349-906781	MVR	MR150	OK	15.0476	25.0017	0.732494	-1.04829	0.2945	0.977693

gene877	gene877	SACOL0889	gi 57650036 ref NC_002951.2 :906797-907256	MVR	MR150	OK	8.41744	12.9822	0.625081	-0.856857	0.39152	0.999883
gene878	gene878	SACOL0890	gi 57650036 ref NC_002951.2 :907267-907600	MVR	MR150	OK	15.169	17.7863	0.229638	-0.307947	0.75812	0.999883
gene879	gene879	SACOL0891	gi 57650036 ref NC_002951.2 :907792-908321	MVR	MR150	OK	6.13255	3.91478	-0.647557	0.525865	0.59898	0.999883
gene88	gene88	SACOL0091	gi 57650036 ref NC_002951.2 :103120-104518	MVR	MR150	NOTEST	0	0	0	0	1	1
gene880	gene880	SACOL0892	gi 57650036 ref NC_002951.2 :907792-908321	MVR	MR150	NOTEST	0.79917	0	-1.79769e+3(-1.79769e+0.27986		1	1
gene881	gene881	SACOL0893	gi 57650036 ref NC_002951.2 :908332-908681	MVR	MR150	NOTEST	0	0	0	0	1	1
gene882	gene882	SACOL0894	gi 57650036 ref NC_002951.2 :908332-908681	MVR	MR150	NOTEST	0	0	0	0	1	1
gene883	gene883	SACOL0895	gi 57650036 ref NC_002951.2 :908683-909004	MVR	MR150	NOTEST	0	0	0	0	1	1
gene884	gene884	SACOL0896	gi 57650036 ref NC_002951.2 :909067-909937	MVR	MR150	NOTEST	0	0	0	0	1	1
gene885	gene885	SACOL0897	gi 57650036 ref NC_002951.2 :909953-911411	MVR	MR150	NOTEST	0	0	0	0	1	1
gene886	gene886	SACOL0898	gi 57650036 ref NC_002951.2 :911711-912074	MVR	MR150	NOTEST	0	0	0	0	1	1
gene887	gene887	SACOL0899	gi 57650036 ref NC_002951.2 :912075-912998	MVR	MR150	NOTEST	0	0	0	0	1	1
gene888	gene888	SACOL0900	gi 57650036 ref NC_002951.2 :912075-912998	MVR	MR150	OK	2.09778	3.11687	0.571235	-0.681279	0.4957	0.999883
gene889	gene889	SACOL0901	gi 57650036 ref NC_002951.2 :913514-913856	MVR	MR150	OK	28.9932	54.527	0.911254	-1.31738	0.18771	0.844299
gene89	gene89	SACOL0092	gi 57650036 ref NC_002951.2 :104707-105181	MVR	MR150	OK	6.05831	3.90615	-0.633169	0.783985	0.43305	0.999883
gene890	gene890	SACOL0902	gi 57650036 ref NC_002951.2 :913867-914446	MVR	MR150	OK	31.6062	52.4968	0.732021	-1.06186	0.2883	0.975616
gene891	gene891	SACOL0903	gi 57650036 ref NC_002951.2 :914463-914682	MVR	MR150	OK	213.183	230.943	0.115442	-0.16966	0.86528	0.999883
gene892	gene892	SACOL0904	gi 57650036 ref NC_002951.2 :914732-915260	MVR	MR150	OK	11.7166	11.6621	-0.0067294	0.009575	0.99236	0.999883
gene893	gene893	SACOL0905	gi 57650036 ref NC_002951.2 :915262-916170	MVR	MR150	OK	11.5052	20.9719	0.866166	-0.668887	0.50357	0.999883
gene894	gene894	SACOL0906	gi 57650036 ref NC_002951.2 :915262-916170	MVR	MR150	OK	14.355	14.8907	0.0528576	-0.06495	0.94821	0.999883
gene895	gene895	seb	gi 57650036 ref NC_002951.2 :916477-917278	MVR	MR150	NOTEST	0	0	0	0	1	1
gene896	gene896	SACOL0908	gi 57650036 ref NC_002951.2 :917355-917913	MVR	MR150	NOTEST	0	0	0	0	1	1
gene897	gene897	SACOL0909	gi 57650036 ref NC_002951.2 :918285-918438	MVR	MR150	OK	167.732	68.366	-1.29481	1.38585	0.16579	0.799363
gene898	gene898	SACOL0910	gi 57650036 ref NC_002951.2 :918508-918806	MVR	MR150	NOTEST	0	0	0	0	1	1
gene899	gene899	SACOL0911	gi 57650036 ref NC_002951.2 :918508-918806	MVR	MR150	OK	88.0822	63.6356	-0.469017	0.623836	0.53274	0.999883
gene9	gene9	SACOL0010	gi 57650036 ref NC_002951.2 :14748-15770	MVR	MR150	OK	9.16604	10.8025	0.237	-0.305735	0.75981	0.999883
gene90	gene90	SACOL0093	gi 57650036 ref NC_002951.2 :105442-107035	MVR	MR150	OK	30.1192	41.1219	0.449222	-0.591419	0.55424	0.999883
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	MVR	MR150	OK	2853.72	2511.29	-0.184413	0.234411	0.81467	0.999883
gene901	gene901	SACOL0913	gi 57650036 ref NC_002951.2 :920063-920915	MVR	MR150	OK	52.8864	57.3008	0.115659	-0.157449	0.87489	0.999883
gene902	gene902	SACOL0914	gi 57650036 ref NC_002951.2 :921242-922004	MVR	MR150	OK	180.188	184.702	0.0356971	-0.043282	0.96548	0.999883
gene903	gene903	sufD	gi 57650036 ref NC_002951.2 :922101-923409	MVR	MR150	OK	173.563	169.6	-0.0333185	0.037635	0.96998	0.999883
gene904	gene904	SACOL0916	gi 57650036 ref NC_002951.2 :923523-925219	MVR	MR150	OK	164.878	174.754	0.0839281	-0.08472	0.93248	0.999883
gene905	gene905	SACOL0917	gi 57650036 ref NC_002951.2 :923523-925219	MVR	MR150	OK	139.128	164.4	0.240796	-0.11375	0.90944	0.999883

gene906	gene906	sufB	gi 57650036 ref NC_002951.2 :925369-926767	MVR	MR150	OK	200.861	204.804	0.0280473	-0.030906	0.97535	0.999883
gene907	gene907	SACOL0919	gi 57650036 ref NC_002951.2 :926953-927091	MVR	MR150	OK	0	54.4986	1.79769e+30	1.79769e+	0.10824	0.653986
gene908	gene908	SACOL0920	gi 57650036 ref NC_002951.2 :927096-927411	MVR	MR150	OK	2.78684	3.78043	0.439922	-0.395559	0.69243	0.999883
gene909	gene909	SACOL0921	gi 57650036 ref NC_002951.2 :927775-928816	MVR	MR150	OK	13.1703	13.2924	0.0133113	-0.019538	0.98441	0.999883
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	MVR	MR150	OK	106.424	123.267	0.21196	-0.24515	0.80634	0.999883
gene910	gene910	SACOL0922	gi 57650036 ref NC_002951.2 :928829-929897	MVR	MR150	OK	9.28466	11.1148	0.259562	-0.381534	0.70281	0.999883
gene911	gene911	SACOL0924	gi 57650036 ref NC_002951.2 :930109-930958	MVR	MR150	OK	40.3229	48.3645	0.262349	-0.365392	0.71482	0.999883
gene912	gene912	SACOL0925	gi 57650036 ref NC_002951.2 :930970-931798	MVR	MR150	OK	25.5573	32.9142	0.364975	-0.526234	0.59873	0.999883
gene913	gene913	SACOL0926	gi 57650036 ref NC_002951.2 :931824-933144	MVR	MR150	OK	38.4201	42.6639	0.151155	-0.200682	0.84095	0.999883
gene914	gene914	lipA	gi 57650036 ref NC_002951.2 :933227-934145	MVR	MR150	OK	268.448	320.536	0.255844	-0.286158	0.77476	0.999883
gene915	gene915	SACOL0928	gi 57650036 ref NC_002951.2 :934265-934658	MVR	MR150	OK	172.988	196.018	0.180316	-0.246524	0.80528	0.999883
gene916	gene916	SACOL0929	gi 57650036 ref NC_002951.2 :934736-934994	MVR	MR150	OK	160.813	143.909	-0.160228	0.235393	0.8139	0.999883
gene917	gene917	SACOL0930	gi 57650036 ref NC_002951.2 :935100-936314	MVR	MR150	OK	101.145	126.685	0.324823	-0.258381	0.79611	0.999883
gene918	gene918	SACOL0931	gi 57650036 ref NC_002951.2 :935100-936314	MVR	MR150	OK	65.4103	75.2323	0.201833	-0.201137	0.84059	0.999883
gene919	gene919	SACOL0932	gi 57650036 ref NC_002951.2 :936346-937306	MVR	MR150	OK	77.6247	101.145	0.381838	-0.486189	0.62683	0.999883
gene92	gene92	sarS	gi 57650036 ref NC_002951.2 :109310-110063	MVR	MR150	OK	109.863	108.803	-0.0139837	0.018047	0.9856	0.999883
gene920	gene920	SACOL0933	gi 57650036 ref NC_002951.2 :937559-937670	MVR	MR150	NOTEST	0	0	0	0	1	1
gene921	gene921	SACOL0934	gi 57650036 ref NC_002951.2 :937717-937870	MVR	MR150	OK	260.916	615.294	1.23769	-1.68265	0.09244	0.611738
gene922	gene922	dltA	gi 57650036 ref NC_002951.2 :937885-940554	MVR	MR150	OK	528.408	642.095	0.281135	-0.222412	0.82399	0.999883
gene923	gene923	dltB	gi 57650036 ref NC_002951.2 :937885-940554	MVR	MR150	OK	447.263	544.841	0.284713	-0.186042	0.85241	0.999883
gene924	gene924	dltC	gi 57650036 ref NC_002951.2 :940571-941980	MVR	MR150	OK	502.746	684.322	0.444845	-0.091908	0.92677	0.999883
gene925	gene925	dltD	gi 57650036 ref NC_002951.2 :940571-941980	MVR	MR150	OK	678.744	817.975	0.26919	-0.269458	0.78758	0.999883
gene926	gene926	SACOL0939	gi 57650036 ref NC_002951.2 :942242-942464	MVR	MR150	OK	142.933	146.72	0.037723	-0.055128	0.95604	0.999883
gene927	gene927	SACOL0940	gi 57650036 ref NC_002951.2 :942585-942909	MVR	MR150	OK	163.756	142.992	-0.195615	0.281894	0.77803	0.999883
gene928	gene928	SACOL0941	gi 57650036 ref NC_002951.2 :942969-944032	MVR	MR150	OK	67.5406	90.853	0.42778	-0.544249	0.58627	0.999883
gene929	gene929	SACOL0942	gi 57650036 ref NC_002951.2 :944348-944585	MVR	MR150	OK	334.761	491.102	0.552889	-0.785748	0.43202	0.999883
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	MVR	MR150	OK	8.30008	10.7326	0.370807	-0.5301	0.59604	0.999883
gene930	gene930	SACOL0943	gi 57650036 ref NC_002951.2 :944597-944957	MVR	MR150	OK	195.062	206.826	0.0844849	-0.116686	0.90711	0.999883
gene931	gene931	SACOL0944	gi 57650036 ref NC_002951.2 :945410-946619	MVR	MR150	OK	110.671	105.791	-0.0650581	0.078196	0.93767	0.999883
gene932	gene932	SACOL0945	gi 57650036 ref NC_002951.2 :946749-948225	MVR	MR150	OK	36.0164	42.3707	0.234415	-0.308214	0.75792	0.999883
gene933	gene933	SACOL0946	gi 57650036 ref NC_002951.2 :948635-949952	MVR	MR150	OK	15.2497	7.81529	-0.964408	1.40734	0.15933	0.779609
gene934	gene934	SACOL0947	gi 57650036 ref NC_002951.2 :949970-950345	MVR	MR150	OK	51.3003	44.9454	-0.190792	0.28046	0.77912	0.999883
gene935	gene935	SACOL0948	gi 57650036 ref NC_002951.2 :950400-951555	MVR	MR150	OK	1.69602	0.48108	-1.81781	2.00177	0.04531	0.41665

gene936	gene936	mnhG	gi 57650036 ref NC_002951.2 :951803-952910	MVR	MR150	OK	79.3346	108.114	0.446529	-0.405301	0.68526	0.999883
gene937	gene937	mnhF	gi 57650036 ref NC_002951.2 :951803-952910	MVR	MR150	OK	15.1705	16.3319	0.106417	-0.031799	0.97463	0.999883
gene938	gene938	mnhE	gi 57650036 ref NC_002951.2 :951803-952910	MVR	MR150	OK	58.2771	63.8977	0.132836	-0.130842	0.8959	0.999883
gene939	gene939	mnhD	gi 57650036 ref NC_002951.2 :952911-957568	MVR	MR150	OK	65.8369	73.8047	0.164816	-0.101537	0.91912	0.999883
gene94	gene94	sirB	gi 57650036 ref NC_002951.2 :110431-112422	MVR	MR150	NOTEST	0.60599	0.38475	-0.655358	0.203659	0.83862	1
gene940	gene940	mnhC	gi 57650036 ref NC_002951.2 :952911-957568	MVR	MR150	OK	49.2425	52.4298	0.0904832	-0.015488	0.98764	0.999883
gene941	gene941	mnhB	gi 57650036 ref NC_002951.2 :952911-957568	MVR	MR150	OK	56.5134	45.3166	-0.318554	0.068697	0.94523	0.999883
gene942	gene942	mnhA	gi 57650036 ref NC_002951.2 :952911-957568	MVR	MR150	OK	75.808	79.9913	0.0774934	-0.065931	0.94743	0.999883
gene943	gene943	kapB	gi 57650036 ref NC_002951.2 :957698-958082	MVR	MR150	OK	39.4825	78.2898	0.987611	-1.44235	0.1492	0.750812
gene944	gene944	SACOL0957	gi 57650036 ref NC_002951.2 :958145-958739	MVR	MR150	OK	125.421	178.306	0.507575	-0.656457	0.51153	0.999883
gene945	gene945	SACOL0958	gi 57650036 ref NC_002951.2 :959154-959532	MVR	MR150	OK	217.864	201.574	-0.112117	0.152534	0.87877	0.999883
gene946	gene946	SACOL0959	gi 57650036 ref NC_002951.2 :959893-961021	MVR	MR150	OK	62.1035	61.8838	-0.0051132	0.006628	0.99471	0.999883
gene947	gene947	rocD	gi 57650036 ref NC_002951.2 :961328-962519	MVR	MR150	OK	388.388	411.84	0.0845851	-0.089056	0.92904	0.999883
gene948	gene948	gluD	gi 57650036 ref NC_002951.2 :962627-963872	MVR	MR150	OK	695.207	775.856	0.158346	-0.161861	0.87142	0.999883
gene949	gene949	SACOL0962	gi 57650036 ref NC_002951.2 :964374-965304	MVR	MR150	OK	31.0601	36.0787	0.216086	-0.30541	0.76005	0.999883
gene95	gene95	sirA	gi 57650036 ref NC_002951.2 :112437-113430	MVR	MR150	OK	6.0835	5.6	-0.119475	0.17239	0.86313	0.999883
gene950	gene950	argH	gi 57650036 ref NC_002951.2 :965545-968120	MVR	MR150	OK	78.5698	110.324	0.489694	-0.448682	0.65366	0.999883
gene951	gene951	argG	gi 57650036 ref NC_002951.2 :965545-968120	MVR	MR150	OK	50.5019	72.7674	0.526954	-0.359513	0.71921	0.999883
gene952	gene952	SACOL0965	gi 57650036 ref NC_002951.2 :968264-968399	MVR	MR150	NOTEST	0	0	0	0	1	1
gene953	gene953	pgi	gi 57650036 ref NC_002951.2 :968470-969802	MVR	MR150	OK	101.608	103.094	0.0209462	-0.024994	0.98006	0.999883
gene954	gene954	SACOL0967	gi 57650036 ref NC_002951.2 :970126-970702	MVR	MR150	OK	39.8433	43.5532	0.128439	-0.186722	0.85188	0.999883
gene955	gene955	spsA	gi 57650036 ref NC_002951.2 :970706-971231	MVR	MR150	OK	56.2528	56.9642	0.0181309	-0.026179	0.97912	0.999883
gene956	gene956	spsB	gi 57650036 ref NC_002951.2 :971237-971822	MVR	MR150	OK	86.2865	89.8433	0.0582757	-0.07992	0.9363	0.999883
gene957	gene957	rexB	gi 57650036 ref NC_002951.2 :971981-975458	MVR	MR150	OK	35.0099	42.6323	0.284186	-0.335331	0.73738	0.999883
gene958	gene958	rexA	gi 57650036 ref NC_002951.2 :975458-979112	MVR	MR150	OK	31.2422	35.658	0.190728	-0.227529	0.82001	0.999883
gene959	gene959	SACOL0973	gi 57650036 ref NC_002951.2 :979277-980180	MVR	MR150	OK	258.185	252.88	-0.0299559	0.03406	0.97283	0.999883
gene96	gene96	SACOL0100	gi 57650036 ref NC_002951.2 :113693-114641	MVR	MR150	NOTEST	0.72692	0	-1.79769e+3l	-1.79769e+0	0.01923	1
gene960	gene960	SACOL0974	gi 57650036 ref NC_002951.2 :980508-980898	MVR	MR150	OK	40.6022	43.1551	0.087972	-0.129187	0.89721	0.999883
gene961	gene961	SACOL0975	gi 57650036 ref NC_002951.2 :981068-982385	MVR	MR150	OK	76.9975	99.8163	0.374464	-0.455871	0.64848	0.999883
gene962	gene962	SACOL0976	gi 57650036 ref NC_002951.2 :982436-983261	MVR	MR150	OK	73.4546	91.132	0.311103	-0.408309	0.68305	0.999883
gene963	gene963	SACOL0977	gi 57650036 ref NC_002951.2 :983374-983683	MVR	MR150	OK	294.175	334.729	0.186318	-0.254628	0.79901	0.999883
gene964	gene964	SACOL0978	gi 57650036 ref NC_002951.2 :984229-986044	MVR	MR150	OK	2.86744	2.84523	-0.0112185	0.016192	0.98708	0.999883
gene965	gene965	clpB	gi 57650036 ref NC_002951.2 :986246-988856	MVR	MR150	OK	262.747	555.008	1.07883	-1.10835	0.26771	0.951188

gene966	gene966	SACOL0980	gi 57650036 ref NC_002951.2 :988914-989784	MVR	MR150	OK	0.5431	1.59974	1.55855	-1.59149	0.1115	0.663582
gene967	gene967	SACOL0981	gi 57650036 ref NC_002951.2 :989893-993274	MVR	MR150	NOTEST	0.31714	0.48565	0.614796	-0.271935	0.78567	1
gene968	gene968	SACOL0982	gi 57650036 ref NC_002951.2 :989893-993274	MVR	MR150	OK	1.11882	0.34632	-1.6918	0.619598	0.53552	0.999883
gene969	gene969	SACOL0983	gi 57650036 ref NC_002951.2 :989893-993274	MVR	MR150	OK	1.96024	1.66639	-0.234308	0.228132	0.81954	0.999883
gene97	gene97	SACOL0101	gi 57650036 ref NC_002951.2 :114649-115648	MVR	MR150	OK	1.13183	0.19165	-2.56208	1.94182	0.05216	0.449909
gene970	gene970	SACOL0984	gi 57650036 ref NC_002951.2 :989893-993274	MVR	MR150	OK	5.19747	2.42075	-1.10236	0.857985	0.3909	0.999883
gene971	gene971	SACOL0985	gi 57650036 ref NC_002951.2 :993584-994019	MVR	MR150	OK	87.952	72.7626	-0.273519	0.394715	0.69305	0.999883
gene972	gene972	SACOL0986	gi 57650036 ref NC_002951.2 :994275-994461	MVR	MR150	OK	3030.97	3337.23	0.138867	-0.177338	0.85924	0.999883
gene973	gene973	fabH	gi 57650036 ref NC_002951.2 :994755-995697	MVR	MR150	OK	82.0133	68.5146	-0.259445	0.33758	0.73568	0.999883
gene974	gene974	fabF	gi 57650036 ref NC_002951.2 :995708-996953	MVR	MR150	OK	172.298	165.899	-0.0546025	0.062155	0.95044	0.999883
gene975	gene975	SACOL0989	gi 57650036 ref NC_002951.2 :997007-997379	MVR	MR150	OK	25.5334	14.0572	-0.861082	1.20346	0.2288	0.898537
gene976	gene976	SACOL0990	gi 57650036 ref NC_002951.2 :997601-999618	MVR	MR150	NOTEST	0	0	0	0	1	1
gene977	gene977	oppB	gi 57650036 ref NC_002951.2 :997601-999618	MVR	MR150	OK	373.104	353.415	-0.0782146	0.056787	0.95472	0.999883
gene978	gene978	oppC	gi 57650036 ref NC_002951.2 :997601-999618	MVR	MR150	OK	286.046	278.496	-0.0385906	0.028684	0.97712	0.999883
gene979	gene979	oppD	gi 57650036 ref NC_002951.2 :999634-1001648	MVR	MR150	OK	451.023	394.379	-0.193618	0.162186	0.87116	0.999883
gene98	gene98	SACOL0102	gi 57650036 ref NC_002951.2 :115668-124110	MVR	MR150	NOTEST	0.61124	0.2955	-1.04859	0.407123	0.68392	1
gene980	gene980	oppF	gi 57650036 ref NC_002951.2 :999634-1001648	MVR	MR150	OK	272.835	245.58	-0.151836	0.091216	0.92732	0.999883
gene981	gene981	SACOL0995	gi 57650036 ref NC_002951.2 :1001665-1003321	MVR	MR150	OK	452.746	405.738	-0.158152	0.162381	0.87101	0.999883
gene982	gene982	SACOL0996	gi 57650036 ref NC_002951.2 :1003532-1005248	MVR	MR150	OK	1.45043	0.70723	-1.03623	1.31349	0.18902	0.84858
gene983	gene983	SACOL0997	gi 57650036 ref NC_002951.2 :1005298-1006285	MVR	MR150	OK	1.14962	0.7783	-0.562763	0.618777	0.53606	0.999883
gene984	gene984	SACOL0998	gi 57650036 ref NC_002951.2 :1006287-1008223	MVR	MR150	OK	1.08148	0.39214	-1.46358	0.732546	0.46384	0.999883
gene985	gene985	SACOL0999	gi 57650036 ref NC_002951.2 :1006287-1008223	MVR	MR150	OK	3.63996	4.01385	0.141061	-0.181614	0.85589	0.999883
gene986	gene986	SACOL1000	gi 57650036 ref NC_002951.2 :1008234-1009116	MVR	MR150	OK	5.68746	5.38836	-0.0779373	0.110927	0.91167	0.999883
gene987	gene987	trpS	gi 57650036 ref NC_002951.2 :1009157-1010147	MVR	MR150	OK	79.8532	85.8696	0.104796	-0.133954	0.89344	0.999883
gene988	gene988	spxA	gi 57650036 ref NC_002951.2 :1010441-1010837	MVR	MR150	OK	10827.3	9014.06	-0.264427	0.275711	0.78277	0.999883
gene989	gene989	SACOL1003	gi 57650036 ref NC_002951.2 :1011207-1011927	MVR	MR150	OK	28.8795	25.6136	-0.173134	0.252606	0.80057	0.999883
gene99	gene99	SACOL0103	gi 57650036 ref NC_002951.2 :115668-124110	MVR	MR150	OK	1.86829	0.14489	-3.68868	1.0857	0.27761	0.963271
gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	MVR	MR150	NOTEST	0.9197	0	-1.79769e+3(-1.79769e+0.01297		1	
gene991	gene991	pepF	gi 57650036 ref NC_002951.2 :1013081-1014890	MVR	MR150	OK	36.2739	36.9355	0.0260769	-0.033699	0.97312	0.999883
gene992	gene992	SACOL1006	gi 57650036 ref NC_002951.2 :1015349-1016156	MVR	MR150	OK	80.1344	96.3551	0.26594	-0.347564	0.72817	0.999883
gene993	gene993	SACOL1007	gi 57650036 ref NC_002951.2 :1016178-1016544	MVR	MR150	OK	100.725	109.006	0.113989	-0.165072	0.86889	0.999883
gene994	gene994	SACOL1008	gi 57650036 ref NC_002951.2 :1016647-1017241	MVR	MR150	OK	15.7961	16.3156	0.0466814	-0.068245	0.94559	0.999883
gene995	gene995	SACOL1009	gi 57650036 ref NC_002951.2 :1017426-1017774	MVR	MR150	OK	43.7902	44.4412	0.0212897	-0.031137	0.97516	0.999883

gene996	gene996	relA1	gi 57650036 ref NC_002951.2 :1017790-1018426	MVR	MR150	OK	33.4852	30.8951	-0.116142	0.169534	0.86538	0.999883
gene997	gene997	ppnK	gi 57650036 ref NC_002951.2 :1018442-1020103	MVR	MR150	OK	58.3714	65.7617	0.171986	-0.197354	0.84355	0.999883
gene998	gene998	SACOL1012	gi 57650036 ref NC_002951.2 :1018442-1020103	MVR	MR150	OK	17.3288	19.1687	0.14558	-0.093941	0.92516	0.999883
gene999	gene999	mgtE	gi 57650036 ref NC_002951.2 :1020123-1021509	MVR	MR150	OK	21.9947	21.824	-0.0112408	0.015798	0.9874	0.999883
	-	-	gi 57650036 ref NC_002951.2 :2227979-2228055	MVR	M36C05	OK	0	293622	1.79769e+30	1.79769e+30	0.14732	0.743774
gene0	gene0	dnaA	gi 57650036 ref NC_002951.2 :543-1905	MVR	M36C05	OK	40.8055	24.9503	-0.709707	0.961648	0.33623	0.999883
gene1	gene1	dnaN	gi 57650036 ref NC_002951.2 :2182-3316	MVR	M36C05	OK	71.5909	79.21	0.145906	-0.184909	0.8533	0.999883
gene10	gene10	SACOL0011	gi 57650036 ref NC_002951.2 :14748-15770	MVR	M36C05	OK	6.99565	14.7477	1.07596	-0.716568	0.47364	0.999883
gene100	gene100	SACOL0104	gi 57650036 ref NC_002951.2 :115668-124110	MVR	M36C05	OK	1.12105	1.07563	-0.059664	0.029479	0.97648	0.999883
gene1000	gene1000	SACOL1014	gi 57650036 ref NC_002951.2 :1021518-1023363	MVR	M36C05	OK	35.1437	24.4545	-0.523168	0.689868	0.49028	0.999883
gene1001	gene1001	fabI	gi 57650036 ref NC_002951.2 :1023640-1024411	MVR	M36C05	OK	192.938	105.877	-0.865741	1.0773	0.28134	0.965951
gene1002	gene1002	SACOL1017	gi 57650036 ref NC_002951.2 :1024605-1025691	MVR	M36C05	OK	79.3075	51.6464	-0.618788	0.802256	0.42241	0.999883
gene1003	gene1003	SACOL1018	gi 57650036 ref NC_002951.2 :1026032-1027601	MVR	M36C05	OK	45.4413	68.1152	0.583974	-0.73204	0.46414	0.999883
gene1004	gene1004	SACOL1019	gi 57650036 ref NC_002951.2 :1027742-1028501	MVR	M36C05	OK	16.5023	17.9598	0.122103	-0.179506	0.85754	0.999883
gene1005	gene1005	SACOL1020	gi 57650036 ref NC_002951.2 :1028694-1029204	MVR	M36C05	OK	603.19	760.132	0.333637	-0.374196	0.70826	0.999883
gene1006	gene1006	SACOL1021	gi 57650036 ref NC_002951.2 :1029316-1031660	MVR	M36C05	OK	43.8463	22.2504	-0.978626	0.583009	0.55989	0.999883
gene1007	gene1007	ypfP	gi 57650036 ref NC_002951.2 :1029316-1031660	MVR	M36C05	OK	91.3469	89.128	-0.0354772	0.035981	0.9713	0.999883
gene1008	gene1008	murE	gi 57650036 ref NC_002951.2 :1032092-1035380	MVR	M36C05	OK	37.8437	20.4637	-0.886986	0.726749	0.46738	0.999883
gene1009	gene1009	SACOL1024	gi 57650036 ref NC_002951.2 :1032092-1035380	MVR	M36C05	OK	60.0679	28.7767	-1.06169	0.237379	0.81236	0.999883
gene101	gene101	SACOL0105	gi 57650036 ref NC_002951.2 :115668-124110	MVR	M36C05	OK	2.93381	3.07122	0.0660359	-0.054751	0.95634	0.999883
gene1010	gene1010	prfC	gi 57650036 ref NC_002951.2 :1032092-1035380	MVR	M36C05	OK	50.5369	18.9234	-1.41717	1.27368	0.20278	0.872472
gene1011	gene1011	SACOL1026	gi 57650036 ref NC_002951.2 :1035681-1036485	MVR	M36C05	OK	27.6224	11.3234	-1.28653	1.87641	0.0606	0.496665
gene1012	gene1012	SACOL1027	gi 57650036 ref NC_002951.2 :1036543-1036639	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1013	gene1013	htrA	gi 57650036 ref NC_002951.2 :1036718-1039028	MVR	M36C05	OK	13.2908	6.89402	-0.947012	1.34946	0.17719	0.821477
gene1014	gene1014	SACOL1030	gi 57650036 ref NC_002951.2 :1039044-1040403	MVR	M36C05	OK	50.446	33.9556	-0.571091	0.753688	0.45104	0.999883
gene1015	gene1015	SACOL1031	gi 57650036 ref NC_002951.2 :1040541-1042053	MVR	M36C05	OK	21.2057	30.4133	0.520248	-0.712645	0.47607	0.999883
gene1018	gene1018	SACOL1032	gi 57650036 ref NC_002951.2 :1042539-1043070	MVR	M36C05	OK	2.47276	3.33595	0.431973	-0.499708	0.61728	0.999883
gene1019	gene1019	SACOL1033	gi 57650036 ref NC_002951.2 :1043318-1043537	MVR	M36C05	OK	585.86	3799.56	2.69721	-3.40271	0.00067	0.0252863
gene102	gene102	SACOL0106	gi 57650036 ref NC_002951.2 :115668-124110	MVR	M36C05	OK	2.74902	4.97106	0.854637	-0.462264	0.64389	0.999883
gene1020	gene1020	SACOL1034	gi 57650036 ref NC_002951.2 :1043617-1044604	MVR	M36C05	OK	23.9888	44.9789	0.906888	-1.26923	0.20436	0.876676
gene1021	gene1021	SACOL1035	gi 57650036 ref NC_002951.2 :1044802-1044979	MVR	M36C05	OK	133.854	126.812	-0.0779638	0.104594	0.9167	0.999883
gene1022	gene1022	SACOL1036	gi 57650036 ref NC_002951.2 :1044993-1045596	MVR	M36C05	OK	374.598	250.636	-0.579751	0.688307	0.49126	0.999883
gene1023	gene1023	SACOL1037	gi 57650036 ref NC_002951.2 :1045867-1045975	MVR	M36C05	NOTEST	0	0	0	0	1	1

gene1024	gene1024	SACOL1038	gi 57650036 ref NC_002951.2 :1046940-1048905	MVR	M36C05	OK	1.3774	2.06056	0.581083	-0.808881	0.41858	0.999883
gene1025	gene1025	SACOL1039	gi 57650036 ref NC_002951.2 :1048907-1049866	MVR	M36C05	OK	0.53302	7.84452	3.87941	-1.48304	0.13807	0.733494
gene1026	gene1026	SACOL1040	gi 57650036 ref NC_002951.2 :1048907-1049866	MVR	M36C05	OK	2.23763	3.99528	0.836323	-0.936604	0.34896	0.999883
gene1027	gene1027	SACOL1041	gi 57650036 ref NC_002951.2 :1049953-1050244	MVR	M36C05	OK	52.7907	37.2626	-0.502555	0.720441	0.47125	0.999883
gene1028	gene1028	SACOL1042	gi 57650036 ref NC_002951.2 :1050522-1050810	MVR	M36C05	OK	20.1498	5.61968	-1.8422	2.10066	0.03567	0.361045
gene1029	gene1029	SACOL1043	gi 57650036 ref NC_002951.2 :1050815-1052297	MVR	M36C05	OK	31.335	7.39445	-2.08326	2.9242	0.00345	0.0849254
gene103	gene103	SACOL0107	gi 57650036 ref NC_002951.2 :115668-124110	MVR	M36C05	OK	3.5842	2.30831	-0.63481	0.404067	0.68616	0.999883
gene1030	gene1030	SACOL1044	gi 57650036 ref NC_002951.2 :1052385-1052742	MVR	M36C05	OK	45.9306	22.117	-1.0543	1.51853	0.12888	0.710909
gene1031	gene1031	SACOL1045	gi 57650036 ref NC_002951.2 :1053218-1054178	MVR	M36C05	OK	6.59452	2.75699	-1.25817	1.75114	0.07992	0.562641
gene1032	gene1032	SACOL1046	gi 57650036 ref NC_002951.2 :1054223-1054355	MVR	M36C05	OK	124.552	477.466	1.93865	-1.73343	0.08302	0.574038
gene1033	gene1033	SACOL1047	gi 57650036 ref NC_002951.2 :1054418-1054709	MVR	M36C05	OK	52.1139	55.8939	0.101023	-0.146449	0.88357	0.999883
gene1034	gene1034	SACOL1048	gi 57650036 ref NC_002951.2 :1054852-1055350	MVR	M36C05	OK	27.8892	48.911	0.810451	-1.18557	0.23579	0.904919
gene1035	gene1035	menA	gi 57650036 ref NC_002951.2 :1055401-1056340	MVR	M36C05	OK	37.0485	42.9792	0.214222	-0.297527	0.76606	0.999883
gene1036	gene1036	SACOL1050	gi 57650036 ref NC_002951.2 :1056490-1056595	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1037	gene1037	SACOL1051	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	M36C05	OK	20.0663	12.2014	-0.717723	0.233614	0.81528	0.999883
gene1038	gene1038	menD	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	M36C05	OK	23.3547	20.8624	-0.162804	0.076155	0.9393	0.999883
gene1039	gene1039	SACOL1053	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	M36C05	OK	23.6908	20.8205	-0.186323	0.05561	0.95565	0.999883
gene104	gene104	SACOL0108	gi 57650036 ref NC_002951.2 :124113-124878	MVR	M36C05	OK	5.18763	4.49102	-0.208032	0.287262	0.77391	0.999883
gene1040	gene1040	menB	gi 57650036 ref NC_002951.2 :1056671-1061147	MVR	M36C05	OK	238.287	180.181	-0.403255	0.373928	0.70846	0.999883
gene1041	gene1041	sspC	gi 57650036 ref NC_002951.2 :1061385-1061715	MVR	M36C05	OK	6.49596	10.6511	0.713389	-0.843448	0.39898	0.999883
gene1042	gene1042	sspB1	gi 57650036 ref NC_002951.2 :1061752-1062934	MVR	M36C05	OK	3.17438	8.42043	1.40742	-2.01764	0.04363	0.40838
gene1043	gene1043	sspA	gi 57650036 ref NC_002951.2 :1063015-1064026	MVR	M36C05	OK	4.97844	3.6712	-0.439444	0.620701	0.5348	0.999883
gene1044	gene1044	SACOL1058	gi 57650036 ref NC_002951.2 :1064553-1065708	MVR	M36C05	OK	40.5789	56.1085	0.46749	-0.620501	0.53493	0.999883
gene1045	gene1045	SACOL1059	gi 57650036 ref NC_002951.2 :1065903-1066914	MVR	M36C05	OK	12.0374	23.5229	0.966536	-1.40546	0.15989	0.780233
gene1046	gene1046	SACOL1060	gi 57650036 ref NC_002951.2 :1067066-1067486	MVR	M36C05	OK	28.6067	34.5439	0.272081	-0.398218	0.69047	0.999883
gene1047	gene1047	atl	gi 57650036 ref NC_002951.2 :1067692-1071463	MVR	M36C05	OK	557.285	529.032	-0.0750593	0.07848	0.93745	0.999883
gene1048	gene1048	SACOL1063	gi 57650036 ref NC_002951.2 :1071690-1072125	MVR	M36C05	OK	18.1401	14.5448	-0.318683	0.452734	0.65074	0.999883
gene1049	gene1049	SACOL1064	gi 57650036 ref NC_002951.2 :1072279-1072750	MVR	M36C05	OK	531.705	571.097	0.10311	-0.119969	0.90451	0.999883
gene105	gene105	SACOL0109	gi 57650036 ref NC_002951.2 :125073-125481	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1050	gene1050	SACOL1065	gi 57650036 ref NC_002951.2 :1072797-1074015	MVR	M36C05	OK	157.326	245.08	0.639497	-0.718792	0.47227	0.999883
gene1051	gene1051	SACOL1066	gi 57650036 ref NC_002951.2 :1074465-1075659	MVR	M36C05	OK	31.532	8.09686	-1.96138	2.79267	0.00523	0.110421
gene1052	gene1052	qoxD	gi 57650036 ref NC_002951.2 :1076195-1076474	MVR	M36C05	OK	1734.84	1488.64	-0.220804	0.258577	0.79596	0.999883
gene1053	gene1053	qoxC	gi 57650036 ref NC_002951.2 :1076482-1080166	MVR	M36C05	OK	462.55	553.298	0.258447	-0.097844	0.92206	0.999883

gene1054	gene1054	qoxA	gi 57650036 ref NC_002951.2 :1076482-1080166	MVR	M36C05	OK	444.685	555.537	0.321098	-0.256011	0.79794	0.999883
gene1055	gene1055	qoxB	gi 57650036 ref NC_002951.2 :1076482-1080166	MVR	M36C05	OK	398.026	505.655	0.345292	-0.184957	0.85326	0.999883
gene1056	gene1056	SACOL1071	gi 57650036 ref NC_002951.2 :1080737-1081055	MVR	M36C05	OK	160.764	220.8	0.457796	-0.650552	0.51534	0.999883
gene1057	gene1057	folD	gi 57650036 ref NC_002951.2 :1081860-1082721	MVR	M36C05	OK	196.9	327.558	0.734287	-0.841271	0.4002	0.999883
gene1058	gene1058	purE	gi 57650036 ref NC_002951.2 :1082921-1084515	MVR	M36C05	OK	157.985	85.4401	-0.886808	0.451241	0.65182	0.999883
gene1059	gene1059	purK	gi 57650036 ref NC_002951.2 :1082921-1084515	MVR	M36C05	OK	173.755	115.025	-0.595099	0.612575	0.54016	0.999883
gene106	gene106	SACOL0110	gi 57650036 ref NC_002951.2 :125530-126157	MVR	M36C05	OK	2.32081	2.84344	0.293008	-0.35059	0.7259	0.999883
gene1060	gene1060	purC	gi 57650036 ref NC_002951.2 :1084518-1085486	MVR	M36C05	OK	142.82	62.4912	-1.19248	1.25522	0.2094	0.887248
gene1061	gene1061	purS	gi 57650036 ref NC_002951.2 :1084518-1085486	MVR	M36C05	OK	417.889	199.494	-1.06677	0.748604	0.4541	0.999883
gene1062	gene1062	purQ	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	M36C05	OK	281.872	133.737	-1.07564	0.350145	0.72623	0.999883
gene1063	gene1063	purL	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	M36C05	OK	360.076	100.511	-1.84094	1.25816	0.20833	0.885625
gene1064	gene1064	purF	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	M36C05	OK	364.643	89.0408	-2.03395	1.0847	0.27805	0.963271
gene1065	gene1065	purM	gi 57650036 ref NC_002951.2 :1085487-1090825	MVR	M36C05	OK	451.702	95.6377	-2.23972	1.02487	0.30542	0.99095
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	MVR	M36C05	OK	333.041	58.9639	-2.49779	3.23361	0.00122	0.0396692
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	MVR	M36C05	OK	280.592	48.2629	-2.53949	2.9401	0.00328	0.0821628
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	MVR	M36C05	OK	480.77	62.4864	-2.94373	3.3501	0.00081	0.0292314
gene1069	gene1069	SACOL1084	gi 57650036 ref NC_002951.2 :1094420-1096620	MVR	M36C05	OK	6.71965	4.72503	-0.508064	0.358896	0.71967	0.999883
gene107	gene107	SACOL0111	gi 57650036 ref NC_002951.2 :126368-127145	MVR	M36C05	OK	509.943	712.009	0.48156	-0.513616	0.60752	0.999883
gene1070	gene1070	SACOL1085	gi 57650036 ref NC_002951.2 :1094420-1096620	MVR	M36C05	OK	7.85099	9.91279	0.336417	-0.425035	0.67081	0.999883
gene1071	gene1071	SACOL1086	gi 57650036 ref NC_002951.2 :1096634-1097210	MVR	M36C05	OK	6.80657	6.16611	-0.142568	0.194144	0.84606	0.999883
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	MVR	M36C05	OK	0	343.556	1.79769e+30	1.79769e+30	0.00944	0.161634
gene1073	gene1073	SACOL1088	gi 57650036 ref NC_002951.2 :1098142-1099438	MVR	M36C05	OK	192.472	273.19	0.505254	-0.554939	0.57894	0.999883
gene1074	gene1074	SACOL1089	gi 57650036 ref NC_002951.2 :1099862-1101035	MVR	M36C05	OK	16.6386	15.2971	-0.121277	0.176268	0.86008	0.999883
gene1075	gene1075	SACOL1090	gi 57650036 ref NC_002951.2 :1101088-1101631	MVR	M36C05	OK	40.0997	246.264	2.61855	-3.50005	0.00047	0.019237
gene1076	gene1076	ptsH	gi 57650036 ref NC_002951.2 :1101784-1102051	MVR	M36C05	OK	264.897	658.333	1.31339	-1.7974	0.07227	0.527706
gene1077	gene1077	ptsI	gi 57650036 ref NC_002951.2 :1102053-1103772	MVR	M36C05	OK	344.433	470.691	0.45056	-0.463478	0.64302	0.999883
gene1078	gene1078	SACOL1093	gi 57650036 ref NC_002951.2 :1104008-1104242	MVR	M36C05	OK	28.9618	12.001	-1.271	1.46712	0.14234	0.740755
gene1079	gene1079	cydA	gi 57650036 ref NC_002951.2 :1104439-1106817	MVR	M36C05	OK	3.54607	8.91759	1.33043	-1.46831	0.14202	0.740572
gene108	gene108	SACOL0112	gi 57650036 ref NC_002951.2 :127288-127411	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1080	gene1080	cydB	gi 57650036 ref NC_002951.2 :1104439-1106817	MVR	M36C05	OK	4.55485	7.53068	0.725376	-0.682828	0.49472	0.999883
gene1081	gene1081	SACOL1096	gi 57650036 ref NC_002951.2 :1106949-1107612	MVR	M36C05	OK	29.6967	52.2005	0.813761	-1.16944	0.24223	0.913772
gene1082	gene1082	SACOL1097	gi 57650036 ref NC_002951.2 :1107647-1107827	MVR	M36C05	OK	112.304	139.732	0.315245	-0.424456	0.67123	0.999883
gene1083	gene1083	SACOL1098	gi 57650036 ref NC_002951.2 :1107960-1109876	MVR	M36C05	OK	166.852	162.826	-0.0352439	0.03824	0.9695	0.999883

gene1084	gene1084	SACOL1099	gi 57650036 ref NC_002951.2 :1107960-1109876	MVR	M36C05	OK	86.8525	185.1	1.09167	-0.162814	0.87067	0.999883
gene1085	gene1085	def	gi 57650036 ref NC_002951.2 :1110356-1110908	MVR	M36C05	OK	37.2244	26.976	-0.464573	0.681685	0.49544	0.999883
gene1086	gene1086	SACOL1101	gi 57650036 ref NC_002951.2 :1111272-1111899	MVR	M36C05	OK	146.356	105.207	-0.47625	0.623377	0.53304	0.999883
gene1087	gene1087	pdhA	gi 57650036 ref NC_002951.2 :1112069-1113182	MVR	M36C05	OK	218.989	291.769	0.413967	-0.458647	0.64649	0.999883
gene1088	gene1088	pdhB	gi 57650036 ref NC_002951.2 :1113185-1114163	MVR	M36C05	OK	224.137	248.052	0.146262	-0.16592	0.86822	0.999883
gene1089	gene1089	pdhC	gi 57650036 ref NC_002951.2 :1114253-1115546	MVR	M36C05	OK	259.045	266.678	0.0418944	-0.045425	0.96377	0.999883
gene109	gene109	SACOL0113	gi 57650036 ref NC_002951.2 :127489-129116	MVR	M36C05	NOTEST	0.85996	0.57139	-0.589795	0.48653	0.62659	1
gene1090	gene1090	pdhD	gi 57650036 ref NC_002951.2 :1115549-1116956	MVR	M36C05	OK	518.949	532.08	0.0360502	-0.036998	0.97049	0.999883
gene1091	gene1091	SACOL1106	gi 57650036 ref NC_002951.2 :1117123-1117399	MVR	M36C05	OK	61.3157	40.0039	-0.616117	0.881439	0.37808	0.999883
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	MVR	M36C05	OK	6.83875	1.62379	-2.07437	2.39594	0.01658	0.231163
gene1093	gene1093	SACOL1108	gi 57650036 ref NC_002951.2 :1118094-1119979	MVR	M36C05	OK	7.7884	1.97115	-1.98229	2.22998	0.02575	0.304771
gene1094	gene1094	SACOL1109	gi 57650036 ref NC_002951.2 :1118094-1119979	MVR	M36C05	OK	4.78766	2.39812	-0.997416	0.850598	0.39499	0.999883
gene1095	gene1095	SACOL1110	gi 57650036 ref NC_002951.2 :1119984-1121867	MVR	M36C05	OK	7.18417	2.35088	-1.61162	0.512844	0.60806	0.999883
gene1096	gene1096	SACOL1111	gi 57650036 ref NC_002951.2 :1119984-1121867	MVR	M36C05	OK	14.9983	49.833	1.7323	-2.21639	0.02666	0.309278
gene1097	gene1097	SACOL1112	gi 57650036 ref NC_002951.2 :1121940-1122960	MVR	M36C05	OK	306.35	484.787	0.66217	-0.711914	0.47652	0.999883
gene1098	gene1098	SACOL1113	gi 57650036 ref NC_002951.2 :1123242-1123662	MVR	M36C05	OK	165.152	237.302	0.522929	-0.700064	0.48389	0.999883
gene1099	gene1099	SACOL1114	gi 57650036 ref NC_002951.2 :1123743-1125096	MVR	M36C05	OK	504.654	1171.88	1.21546	-1.25097	0.21095	0.889865
gene11	gene11	SACOL0012	gi 57650036 ref NC_002951.2 :16111-17101	MVR	M36C05	OK	3.58805	6.28149	0.807906	-1.1443	0.2525	0.92853
gene110	gene110	SACOL0114	gi 57650036 ref NC_002951.2 :127489-129116	MVR	M36C05	OK	0.99726	1.34297	0.42939	-0.358375	0.72006	0.999883
gene1100	gene1100	SACOL1115	gi 57650036 ref NC_002951.2 :1125279-1125894	MVR	M36C05	OK	179.992	339.661	0.916162	-1.11062	0.26673	0.949974
gene1101	gene1101	SACOL1116	gi 57650036 ref NC_002951.2 :1126050-1126878	MVR	M36C05	OK	134.563	247.31	0.878041	-1.04994	0.29375	0.976945
gene1102	gene1102	SACOL1117	gi 57650036 ref NC_002951.2 :1127031-1127223	MVR	M36C05	OK	383.619	308.176	-0.315919	0.464448	0.64233	0.999883
gene1103	gene1103	typA	gi 57650036 ref NC_002951.2 :1127324-1129172	MVR	M36C05	OK	92.487	23.8749	-1.95375	2.42395	0.01535	0.217431
gene1104	gene1104	SACOL1119	gi 57650036 ref NC_002951.2 :1129311-1129479	MVR	M36C05	OK	57.137	84.513	0.564747	-0.63884	0.52293	0.999883
gene1105	gene1105	SACOL1120	gi 57650036 ref NC_002951.2 :1129480-1129963	MVR	M36C05	OK	65.2647	80.3683	0.300324	-0.430607	0.66675	0.999883
gene1106	gene1106	SACOL1121	gi 57650036 ref NC_002951.2 :1130103-1130379	MVR	M36C05	OK	839.016	411.29	-1.02854	1.35518	0.17536	0.821477
gene1107	gene1107	SACOL1122	gi 57650036 ref NC_002951.2 :1130692-1131919	MVR	M36C05	OK	91.7762	98.1169	0.0963815	-0.11745	0.9065	0.999883
gene1108	gene1108	pyc	gi 57650036 ref NC_002951.2 :1132472-1135925	MVR	M36C05	OK	71.1198	198.42	1.48023	-1.57477	0.11531	0.671711
gene1109	gene1109	ctaA	gi 57650036 ref NC_002951.2 :1136064-1137135	MVR	M36C05	OK	63.865	43.4219	-0.556601	0.738359	0.4603	0.999883
gene111	gene111	SACOL0115	gi 57650036 ref NC_002951.2 :129325-133131	MVR	M36C05	OK	1.4884	1.82425	0.293545	-0.199898	0.84156	0.999883
gene1110	gene1110	ctaB	gi 57650036 ref NC_002951.2 :1137415-1138327	MVR	M36C05	OK	172.366	77.9143	-1.14552	1.42087	0.15535	0.769852
gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	MVR	M36C05	OK	202.463	66.5594	-1.60495	2.21009	0.0271	0.310305
gene1112	gene1112	SACOL1127	gi 57650036 ref NC_002951.2 :1139024-1139228	MVR	M36C05	OK	6.21505	19.6997	1.66433	-1.30692	0.19124	0.851696

gene1113	gene1113	SACOL1128	gi 57650036 ref NC_002951.2 :1139277-1140177	MVR	M36C05	OK	40.6556	91.0684	1.1635	-1.55273	0.12049	0.689371
gene1114	gene1114	SACOL1129	gi 57650036 ref NC_002951.2 :1140192-1140627	MVR	M36C05	OK	64.04	87.2685	0.446487	-0.645442	0.51864	0.999883
gene1115	gene1115	SACOL1130	gi 57650036 ref NC_002951.2 :1140689-1141616	MVR	M36C05	OK	41.0079	50.6676	0.305162	-0.418768	0.67539	0.999883
gene1116	gene1116	SACOL1131	gi 57650036 ref NC_002951.2 :1141854-1142109	MVR	M36C05	OK	20.3084	12.3668	-0.715597	0.85128	0.39461	0.999883
gene1117	gene1117	SACOL1132	gi 57650036 ref NC_002951.2 :1142111-1142501	MVR	M36C05	OK	16.8603	5.77234	-1.5464	1.99375	0.04618	0.423039
gene1118	gene1118	SACOL1133	gi 57650036 ref NC_002951.2 :1142570-1143113	MVR	M36C05	OK	15.93	16.0957	0.0149289	-0.021704	0.98268	0.999883
gene1119	gene1119	coaD	gi 57650036 ref NC_002951.2 :1143114-1143597	MVR	M36C05	OK	56.9378	43.3052	-0.394845	0.576441	0.56432	0.999883
gene112	gene112	SACOL0116	gi 57650036 ref NC_002951.2 :129325-133131	MVR	M36C05	OK	1.09475	1.48551	0.440358	-0.272599	0.78516	0.999883
gene1120	gene1120	SACOL1135	gi 57650036 ref NC_002951.2 :1143658-1144798	MVR	M36C05	OK	13.8541	8.9143	-0.636122	0.932977	0.35083	0.999883
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	MVR	M36C05	OK	189.442	64.1493	-1.56225	2.10115	0.03563	0.361045
gene1122	gene1122	rpmF	gi 57650036 ref NC_002951.2 :1145561-1145735	MVR	M36C05	OK	2414.65	950.525	-1.34502	1.89791	0.05771	0.48127
gene1123	gene1123	isdB	gi 57650036 ref NC_002951.2 :1145888-1147826	MVR	M36C05	OK	2.72995	4.24858	0.638108	-0.929509	0.35263	0.999883
gene1124	gene1124	isdA	gi 57650036 ref NC_002951.2 :1148028-1149081	MVR	M36C05	OK	4.51468	6.33416	0.488531	-0.70321	0.48193	0.999883
gene1125	gene1125	isdC	gi 57650036 ref NC_002951.2 :1149289-1151924	MVR	M36C05	OK	1.77932	1.36799	-0.379272	0.232212	0.81637	0.999883
gene1126	gene1126	isdD	gi 57650036 ref NC_002951.2 :1149289-1151924	MVR	M36C05	OK	2.53664	0.88009	-1.52719	1.20523	0.22811	0.898537
gene1127	gene1127	SACOL1143	gi 57650036 ref NC_002951.2 :1149289-1151924	MVR	M36C05	OK	2.49965	2.76143	0.143686	-0.135363	0.89233	0.999883
gene1128	gene1128	SACOL1144	gi 57650036 ref NC_002951.2 :1151936-1152902	MVR	M36C05	OK	1.41858	1.58364	0.158798	-0.192495	0.84736	0.999883
gene1129	gene1129	srtB	gi 57650036 ref NC_002951.2 :1152963-1153698	MVR	M36C05	OK	1.37301	0.82491	-0.735021	0.752033	0.45203	0.999883
gene113	gene113	SACOL0117	gi 57650036 ref NC_002951.2 :129325-133131	MVR	M36C05	OK	3.77949	3.31323	-0.189955	0.214805	0.82992	0.999883
gene1130	gene1130	SACOL1146	gi 57650036 ref NC_002951.2 :1153716-1154040	MVR	M36C05	OK	6.2582	10.2428	0.710786	-0.826287	0.40864	0.999883
gene1131	gene1131	SACOL1147	gi 57650036 ref NC_002951.2 :1154423-1155164	MVR	M36C05	OK	27.1416	24.6765	-0.137369	0.200496	0.84109	0.999883
gene1132	gene1132	pheS	gi 57650036 ref NC_002951.2 :1155544-1159005	MVR	M36C05	OK	18.9095	8.72881	-1.11525	0.691155	0.48947	0.999883
gene1133	gene1133	pheT	gi 57650036 ref NC_002951.2 :1155544-1159005	MVR	M36C05	OK	22.5751	13.3558	-0.757262	0.876279	0.38088	0.999883
gene1134	gene1134	rnhC	gi 57650036 ref NC_002951.2 :1159175-1160114	MVR	M36C05	OK	6.78813	3.88006	-0.806935	1.14484	0.25228	0.92853
gene1135	gene1135	SACOL1151	gi 57650036 ref NC_002951.2 :1160483-1160750	MVR	M36C05	OK	73.0164	51.7943	-0.495427	0.714847	0.4747	0.999883
gene1136	gene1136	SACOL1152	gi 57650036 ref NC_002951.2 :1160750-1161272	MVR	M36C05	OK	71.1161	34.9783	-1.02372	1.48161	0.13844	0.733494
gene1137	gene1137	SACOL1153	gi 57650036 ref NC_002951.2 :1161344-1163057	MVR	M36C05	OK	30.2455	29.5759	-0.0322983	0.042877	0.9658	0.999883
gene1138	gene1138	SACOL1154	gi 57650036 ref NC_002951.2 :1163066-1165415	MVR	M36C05	OK	38.5352	30.9727	-0.315183	0.396481	0.69175	0.999883
gene1139	gene1139	trxA	gi 57650036 ref NC_002951.2 :1165587-1165902	MVR	M36C05	OK	826.576	1303.66	0.657348	-0.782395	0.43398	0.999883
gene114	gene114	sodA1	gi 57650036 ref NC_002951.2 :133398-133998	MVR	M36C05	OK	160.266	62.9228	-1.34881	1.81304	0.06983	0.522414
gene1140	gene1140	SACOL1156	gi 57650036 ref NC_002951.2 :1165964-1166060	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1141	gene1141	uvrC	gi 57650036 ref NC_002951.2 :1166225-1168007	MVR	M36C05	OK	15.9548	30.445	0.932217	-1.26954	0.20425	0.876676
gene1142	gene1142	sdhC	gi 57650036 ref NC_002951.2 :1168330-1168945	MVR	M36C05	OK	286.283	201.881	-0.503933	0.613563	0.5395	0.999883

gene1143	gene1143	sdhA	gi 57650036 ref NC_002951.2 :1168996-1171578	MVR	M36C05	OK	619.83	458.375	-0.435343	0.306918	0.75891	0.999883
gene1144	gene1144	sdhB	gi 57650036 ref NC_002951.2 :1168996-1171578	MVR	M36C05	OK	1927.68	1374.56	-0.487892	0.374521	0.70802	0.999883
gene1145	gene1145	murI	gi 57650036 ref NC_002951.2 :1171813-1172614	MVR	M36C05	OK	92.1142	174.738	0.923701	-1.15721	0.24719	0.92193
gene1146	gene1146	SACOL1162	gi 57650036 ref NC_002951.2 :1172625-1173709	MVR	M36C05	OK	121.221	196.04	0.693503	-0.523566	0.60058	0.999883
gene1147	gene1147	SACOL1163	gi 57650036 ref NC_002951.2 :1172625-1173709	MVR	M36C05	OK	247.143	307.292	0.314265	-0.279005	0.78024	0.999883
gene1148	gene1148	SACOL1164	gi 57650036 ref NC_002951.2 :1174197-1174527	MVR	M36C05	OK	849.472	364.596	-1.22027	1.53984	0.1236	0.696637
gene1149	gene1149	SACOL1165	gi 57650036 ref NC_002951.2 :1174697-1174805	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene115	gene115	SACOL0119	gi 57650036 ref NC_002951.2 :134365-135091	MVR	M36C05	OK	11.4138	17.4103	0.609165	-0.892144	0.37232	0.999883
gene1150	gene1150	SACOL1166	gi 57650036 ref NC_002951.2 :1174895-1175297	MVR	M36C05	OK	27.1127	13.0585	-1.05399	1.48929	0.13641	0.732537
gene1151	gene1151	SACOL1167	gi 57650036 ref NC_002951.2 :1175968-1176475	MVR	M36C05	OK	18.5578	7.91298	-1.22973	1.73139	0.08338	0.574119
gene1152	gene1152	efb	gi 57650036 ref NC_002951.2 :1176733-1177231	MVR	M36C05	OK	246.745	57.8039	-2.09378	2.8268	0.0047	0.101483
gene1153	gene1153	SACOL1169	gi 57650036 ref NC_002951.2 :1177384-1177735	MVR	M36C05	OK	355.287	69.4914	-2.35408	3.26685	0.00109	0.0364367
gene1154	gene1154	SACOL1170	gi 57650036 ref NC_002951.2 :1178160-1178406	MVR	M36C05	OK	17.2158	10.2897	-0.742523	0.830202	0.40643	0.999883
gene1155	gene1155	SACOL1171	gi 57650036 ref NC_002951.2 :1178556-1178742	MVR	M36C05	OK	52.6856	24.8235	-1.08571	1.18997	0.23406	0.902925
gene1156	gene1156	SACOL1172	gi 57650036 ref NC_002951.2 :1179363-1179597	MVR	M36C05	OK	56.6644	30.0025	-0.917361	1.22578	0.22028	0.89416
gene1157	gene1157	hly	gi 57650036 ref NC_002951.2 :1180073-1181033	MVR	M36C05	OK	2.30411	1.16084	-0.989041	1.20619	0.22774	0.898537
gene1158	gene1158	SACOL1174	gi 57650036 ref NC_002951.2 :1181705-1182033	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1159	gene1159	SACOL1175	gi 57650036 ref NC_002951.2 :1181705-1182033	MVR	M36C05	OK	56.3055	37.2726	-0.595163	0.729623	0.46562	0.999883
gene116	gene116	SACOL0120	gi 57650036 ref NC_002951.2 :135282-136038	MVR	M36C05	OK	17.5845	10.9135	-0.688188	1.00883	0.31306	0.994633
gene1160	gene1160	SACOL1176	gi 57650036 ref NC_002951.2 :1182064-1182421	MVR	M36C05	OK	30.0837	41.3741	0.459747	-0.508862	0.61085	0.999883
gene1161	gene1161	SACOL1177	gi 57650036 ref NC_002951.2 :1182064-1182421	MVR	M36C05	OK	373.655	1061.04	1.50569	-1.2402	0.2149	0.89416
gene1162	gene1162	SACOL1178	gi 57650036 ref NC_002951.2 :1182589-1183306	MVR	M36C05	OK	2.37185	3.20131	0.432652	-0.543982	0.58645	0.999883
gene1163	gene1163	SACOL1179	gi 57650036 ref NC_002951.2 :1183413-1184139	MVR	M36C05	OK	1.39761	2.30739	0.723304	-0.834951	0.40375	0.999883
gene1164	gene1164	SACOL1180	gi 57650036 ref NC_002951.2 :1184233-1184959	MVR	M36C05	OK	1.39761	1.46834	0.0712277	-0.078611	0.93734	0.999883
gene1165	gene1165	arcB1	gi 57650036 ref NC_002951.2 :1185396-1186398	MVR	M36C05	OK	2.63075	4.67492	0.829466	-1.14385	0.25269	0.928735
gene1166	gene1166	arcC1	gi 57650036 ref NC_002951.2 :1186420-1187353	MVR	M36C05	OK	3.79392	5.56688	0.553178	-0.778299	0.43639	0.999883
gene1167	gene1167	SACOL1183	gi 57650036 ref NC_002951.2 :1187524-1189081	MVR	M36C05	OK	4.78247	11.453	1.2599	-1.83718	0.06618	0.515048
gene1168	gene1168	SACOL1184	gi 57650036 ref NC_002951.2 :1189920-1190868	MVR	M36C05	OK	19.546	16.2179	-0.269284	0.3935	0.69395	0.999883
gene1169	gene1169	SACOL1185	gi 57650036 ref NC_002951.2 :1191116-1191305	MVR	M36C05	OK	8.63929	18.4185	1.09217	-0.831535	0.40567	0.999883
gene117	gene117	deoD1	gi 57650036 ref NC_002951.2 :136273-136981	MVR	M36C05	OK	6.03981	1.52046	-1.99	2.45221	0.0142	0.205915
gene1170	gene1170	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1191779-1191853	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1171	gene1171	SACOL1186	gi 57650036 ref NC_002951.2 :1192216-1192351	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1172	gene1172	SACOL1187	gi 57650036 ref NC_002951.2 :1192407-1192542	MVR	M36C05	OK	0	85.8891	1.79769e+30	1.79769e+	0.06916	0.522414

gene1173	gene1173	SACOL1188	gi 57650036 ref NC_002951.2 :1192665-1193361	MVR	M36C05	OK	36.0448	72.081	0.999827	-1.40092	0.16124	0.784966
gene1174	gene1174	SACOL1189	gi 57650036 ref NC_002951.2 :1193469-1193910	MVR	M36C05	OK	794.784	1560.11	0.973012	-1.06576	0.28653	0.974912
gene1175	gene1175	SACOL1190	gi 57650036 ref NC_002951.2 :1194104-1195718	MVR	M36C05	OK	43.171	50.356	0.222103	-0.283403	0.77687	0.999883
gene1176	gene1176	mraZ	gi 57650036 ref NC_002951.2 :1195861-1196293	MVR	M36C05	OK	270.857	142.551	-0.926055	1.23339	0.21743	0.89416
gene1177	gene1177	mraW	gi 57650036 ref NC_002951.2 :1196308-1197244	MVR	M36C05	OK	119.252	53.4937	-1.15657	1.48978	0.13628	0.732537
gene1178	gene1178	SACOL1193	gi 57650036 ref NC_002951.2 :1197272-1199874	MVR	M36C05	OK	153.566	61.5419	-1.31922	0.733664	0.46315	0.999883
gene1179	gene1179	pbp1	gi 57650036 ref NC_002951.2 :1197272-1199874	MVR	M36C05	OK	68.1178	11.6971	-2.54188	2.75296	0.00591	0.119299
gene118	gene118	SACOL0122	gi 57650036 ref NC_002951.2 :136987-138340	MVR	M36C05	OK	6.37163	4.39802	-0.53481	0.78049	0.4351	0.999883
gene1180	gene1180	mraY	gi 57650036 ref NC_002951.2 :1200165-1201131	MVR	M36C05	OK	38.3804	5.75868	-2.73656	3.87295	0.00011	0.0060795
gene1181	gene1181	murD	gi 57650036 ref NC_002951.2 :1201132-1202482	MVR	M36C05	OK	54.5888	9.29829	-2.55357	3.4924	0.00048	0.0195727
gene1182	gene1182	divIB	gi 57650036 ref NC_002951.2 :1202497-1203817	MVR	M36C05	OK	65.4209	31.9892	-1.03217	1.35027	0.17693	0.821477
gene1183	gene1183	ftsA	gi 57650036 ref NC_002951.2 :1203922-1205335	MVR	M36C05	OK	243.188	268.267	0.141602	-0.152404	0.87887	0.999883
gene1184	gene1184	ftsZ	gi 57650036 ref NC_002951.2 :1205367-1206540	MVR	M36C05	OK	517.276	669.446	0.372035	-0.383589	0.70128	0.999883
gene1185	gene1185	SACOL1200	gi 57650036 ref NC_002951.2 :1206799-1207591	MVR	M36C05	OK	15.8529	40.4365	1.35091	-1.94782	0.05144	0.446342
gene1186	gene1186	SACOL1201	gi 57650036 ref NC_002951.2 :1207608-1208843	MVR	M36C05	OK	262.628	285.993	0.12296	-0.111868	0.91093	0.999883
gene1187	gene1187	ylmF	gi 57650036 ref NC_002951.2 :1207608-1208843	MVR	M36C05	OK	170.303	213.84	0.328425	-0.217442	0.82786	0.999883
gene1188	gene1188	ylmG	gi 57650036 ref NC_002951.2 :1208854-1209145	MVR	M36C05	OK	272.075	254.262	-0.0976862	0.137883	0.89033	0.999883
gene1189	gene1189	ylmH	gi 57650036 ref NC_002951.2 :1209254-1210034	MVR	M36C05	OK	88.3355	61.436	-0.523909	0.700656	0.48352	0.999883
gene119	gene119	deoC1	gi 57650036 ref NC_002951.2 :138420-139083	MVR	M36C05	OK	31.2947	37.6606	0.267137	-0.387954	0.69805	0.999883
gene1190	gene1190	SACOL1205	gi 57650036 ref NC_002951.2 :1210057-1210675	MVR	M36C05	OK	292.266	213.369	-0.453933	0.549701	0.58252	0.999883
gene1191	gene1191	ileS	gi 57650036 ref NC_002951.2 :1210895-1213649	MVR	M36C05	OK	69.4739	14.0221	-2.30877	2.84825	0.0044	0.0981908
gene1192	gene1192	SACOL1207	gi 57650036 ref NC_002951.2 :1213938-1214736	MVR	M36C05	OK	26.0775	26.5638	0.0266578	-0.038737	0.9691	0.999883
gene1193	gene1193	lspA	gi 57650036 ref NC_002951.2 :1215559-1216968	MVR	M36C05	OK	29.3761	7.94098	-1.88726	1.19898	0.23053	0.899834
gene1194	gene1194	SACOL1209	gi 57650036 ref NC_002951.2 :1215559-1216968	MVR	M36C05	OK	42.2978	13.2099	-1.67897	2.105	0.03529	0.359216
gene1195	gene1195	pyrR	gi 57650036 ref NC_002951.2 :1217367-1217895	MVR	M36C05	OK	92.1964	32.6549	-1.49741	2.14071	0.0323	0.344846
gene1196	gene1196	uraA	gi 57650036 ref NC_002951.2 :1218112-1219420	MVR	M36C05	OK	70.461	9.05405	-2.96019	3.99196	6.55E-05	0.0040189
gene1197	gene1197	pyrB	gi 57650036 ref NC_002951.2 :1219447-1220329	MVR	M36C05	OK	109.217	10.1885	-3.42219	4.63047	3.65E-06	0.0003429
gene1198	gene1198	pyrC	gi 57650036 ref NC_002951.2 :1220346-1221621	MVR	M36C05	OK	137.5	15.8955	-3.11274	3.98763	6.67E-05	0.0040248
gene1199	gene1199	carA	gi 57650036 ref NC_002951.2 :1221622-1225889	MVR	M36C05	OK	102.824	8.4439	-3.60612	1.97516	0.04825	0.431092
gene12	gene12	SACOL0013	gi 57650036 ref NC_002951.2 :17406-18330	MVR	M36C05	OK	70.672	66.1106	-0.0962553	0.126778	0.89912	0.999883
gene120	gene120	deoB	gi 57650036 ref NC_002951.2 :139110-140289	MVR	M36C05	OK	54.0726	76.692	0.504178	-0.646233	0.51813	0.999883
gene1200	gene1200	carB	gi 57650036 ref NC_002951.2 :1221622-1225889	MVR	M36C05	OK	115.479	8.48446	-3.76667	3.91745	8.95E-05	0.005223
gene1201	gene1201	pyrF	gi 57650036 ref NC_002951.2 :1225998-1227302	MVR	M36C05	OK	94.7395	9.62462	-3.29916	3.70961	0.00021	0.0101505

gene1202	gene1202	pyrE	gi 57650036 ref NC_002951.2 :1225998-1227302	MVR	M36C05	OK	62.8205	3.75093	-4.06591	3.00031	0.0027	0.0714957
gene1203	gene1203	SACOL1218	gi 57650036 ref NC_002951.2 :1227331-1227544	MVR	M36C05	OK	390.113	160.662	-1.27986	1.87219	0.06118	0.499727
gene1204	gene1204	SACOL1219	gi 57650036 ref NC_002951.2 :1227980-1228382	MVR	M36C05	OK	120.393	126.232	0.0683182	-0.096719	0.92295	0.999883
gene1205	gene1205	SACOL1220	gi 57650036 ref NC_002951.2 :1228644-1230342	MVR	M36C05	OK	37.7352	45.2498	0.262	-0.336643	0.73639	0.999883
gene1206	gene1206	gmk	gi 57650036 ref NC_002951.2 :1230616-1231458	MVR	M36C05	OK	201.376	202.013	0.00455652	-0.005293	0.99578	0.999883
gene1207	gene1207	rpoZ	gi 57650036 ref NC_002951.2 :1230616-1231458	MVR	M36C05	OK	279.507	185.1	-0.594578	0.228701	0.8191	0.999883
gene1208	gene1208	coaBC	gi 57650036 ref NC_002951.2 :1231667-1235281	MVR	M36C05	OK	27.0971	43.5079	0.683136	-0.395352	0.69258	0.999883
gene1209	gene1209	priA	gi 57650036 ref NC_002951.2 :1231667-1235281	MVR	M36C05	OK	46.9	46.0946	-0.0249926	0.02518	0.97991	0.999883
gene121	gene121	SACOL0125	gi 57650036 ref NC_002951.2 :140419-142032	MVR	M36C05	OK	3.65446	2.68609	-0.44415	0.478632	0.6322	0.999883
gene1210	gene1210	SACOL1225	gi 57650036 ref NC_002951.2 :1235786-1236740	MVR	M36C05	OK	22.4294	30.1298	0.4258	-0.610995	0.5412	0.999883
gene1211	gene1211	SACOL1226	gi 57650036 ref NC_002951.2 :1236902-1237181	MVR	M36C05	OK	1505.54	3536.74	1.23214	-1.3881	0.16511	0.797109
gene1212	gene1212	def2	gi 57650036 ref NC_002951.2 :1237404-1240125	MVR	M36C05	OK	45.5463	23.3056	-0.966657	0.410456	0.68147	0.999883
gene1213	gene1213	fmt	gi 57650036 ref NC_002951.2 :1237404-1240125	MVR	M36C05	OK	54.6981	32.0662	-0.770435	0.597963	0.54986	0.999883
gene1214	gene1214	sun	gi 57650036 ref NC_002951.2 :1237404-1240125	MVR	M36C05	OK	52.0635	23.2818	-1.16107	1.01673	0.30928	0.992496
gene1215	gene1215	SACOL1230	gi 57650036 ref NC_002951.2 :1240127-1241222	MVR	M36C05	OK	49.1475	23.2842	-1.07777	1.48683	0.13706	0.732748
gene1216	gene1216	SACOL1231	gi 57650036 ref NC_002951.2 :1241228-1243963	MVR	M36C05	OK	46.5493	15.6165	-1.57569	0.782795	0.43375	0.999883
gene1217	gene1217	SACOL1232	gi 57650036 ref NC_002951.2 :1241228-1243963	MVR	M36C05	OK	72.8559	22.7169	-1.68128	1.88602	0.05929	0.489282
gene1218	gene1218	SACOL1234	gi 57650036 ref NC_002951.2 :1244190-1245066	MVR	M36C05	OK	33.9005	35.2423	0.0559993	-0.079494	0.93664	0.999883
gene1219	gene1219	rpe	gi 57650036 ref NC_002951.2 :1245066-1245711	MVR	M36C05	OK	48.8776	38.1948	-0.355795	0.51204	0.60862	0.999883
gene122	gene122	SACOL0126	gi 57650036 ref NC_002951.2 :140419-142032	MVR	M36C05	OK	2.12805	2.20259	0.049665	-0.043883	0.965	0.999883
gene1220	gene1220	SACOL1236	gi 57650036 ref NC_002951.2 :1245717-1246359	MVR	M36C05	OK	46.4309	26.4687	-0.810796	1.17662	0.23935	0.9107
gene1221	gene1221	rpmB	gi 57650036 ref NC_002951.2 :1246739-1246928	MVR	M36C05	OK	13523.4	9425.67	-0.520787	0.571944	0.56736	0.999883
gene1222	gene1222	SACOL1239	gi 57650036 ref NC_002951.2 :1247370-1247745	MVR	M36C05	OK	99.6049	76.7937	-0.375229	0.546445	0.58476	0.999883
gene1223	gene1223	SACOL1240	gi 57650036 ref NC_002951.2 :1247759-1249406	MVR	M36C05	OK	108.261	37.705	-1.52169	1.85819	0.06314	0.504373
gene1224	gene1224	recG	gi 57650036 ref NC_002951.2 :1249595-1251656	MVR	M36C05	OK	26.6818	68.9897	1.37053	-1.70094	0.08895	0.597944
gene1225	gene1225	SACOL1242	gi 57650036 ref NC_002951.2 :1251858-1252431	MVR	M36C05	OK	74.5089	34.0388	-1.13023	1.61911	0.10542	0.652647
gene1226	gene1226	plsX	gi 57650036 ref NC_002951.2 :1252435-1255068	MVR	M36C05	OK	64.0723	37.2723	-0.781599	0.550438	0.58202	0.999883
gene1227	gene1227	fabD	gi 57650036 ref NC_002951.2 :1252435-1255068	MVR	M36C05	OK	58.6421	30.6433	-0.936366	0.590633	0.55477	0.999883
gene1228	gene1228	fabG1	gi 57650036 ref NC_002951.2 :1252435-1255068	MVR	M36C05	OK	103.662	60.8374	-0.768855	0.566681	0.57093	0.999883
gene1229	gene1229	SACOL1246	gi 57650036 ref NC_002951.2 :1255190-1255289	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene123	gene123	SACOL0127	gi 57650036 ref NC_002951.2 :142033-142807	MVR	M36C05	OK	2.87031	1.34537	-1.09321	1.30404	0.19222	0.852075
gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	MVR	M36C05	OK	920.482	298.025	-1.62696	2.25835	0.02392	0.292955
gene1231	gene1231	rnc	gi 57650036 ref NC_002951.2 :1255659-1256391	MVR	M36C05	OK	18.5299	19.9098	0.103623	-0.152273	0.87897	0.999883

gene1232	gene1232	SACOL1250	gi 57650036 ref NC_002951.2 :1256537-1261673	MVR	M36C05	OK	18.3023	11.4863	-0.672111	0.716634	0.4736	0.999883
gene1233	gene1233	SACOL1251	gi 57650036 ref NC_002951.2 :1256537-1261673	MVR	M36C05	OK	27.3907	10.4896	-1.38473	0.88939	0.37379	0.999883
gene1234	gene1234	SACOL1252	gi 57650036 ref NC_002951.2 :1256537-1261673	MVR	M36C05	OK	17.6157	8.83373	-0.995765	0.19286	0.84707	0.999883
gene1235	gene1235	ffh	gi 57650036 ref NC_002951.2 :1261698-1263066	MVR	M36C05	OK	115.282	76.5424	-0.590836	0.7095	0.47801	0.999883
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	MVR	M36C05	OK	289.503	57.5055	-2.33181	3.35306	0.0008	0.0290652
gene1237	gene1237	rimM	gi 57650036 ref NC_002951.2 :1263963-1265204	MVR	M36C05	OK	8.96048	3.26906	-1.4547	1.21457	0.22453	0.89446
gene1238	gene1238	trmD	gi 57650036 ref NC_002951.2 :1263963-1265204	MVR	M36C05	OK	7.27998	4.30661	-0.757381	0.87377	0.38224	0.999883
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	MVR	M36C05	OK	891.905	148.296	-2.58841	3.3333	0.00086	0.0309008
gene124	gene124	SACOL0128	gi 57650036 ref NC_002951.2 :143020-143977	MVR	M36C05	OK	4.94618	3.49634	-0.500472	0.700576	0.48357	0.999883
gene1240	gene1240	SACOL1259	gi 57650036 ref NC_002951.2 :1265900-1268507	MVR	M36C05	OK	7.41273	6.22619	-0.251655	0.364774	0.71528	0.999883
gene1241	gene1241	rbgA	gi 57650036 ref NC_002951.2 :1268907-1270543	MVR	M36C05	OK	17.3388	13.364	-0.375651	0.428736	0.66812	0.999883
gene1242	gene1242	rnhB	gi 57650036 ref NC_002951.2 :1268907-1270543	MVR	M36C05	OK	13.0051	9.71144	-0.421316	0.375511	0.70728	0.999883
gene1243	gene1243	sucC	gi 57650036 ref NC_002951.2 :1270651-1271818	MVR	M36C05	OK	451.232	419.805	-0.104148	0.109155	0.91308	0.999883
gene1244	gene1244	sucD	gi 57650036 ref NC_002951.2 :1271839-1272748	MVR	M36C05	OK	866.883	965.376	0.155255	-0.159277	0.87345	0.999883
gene1245	gene1245	lytN	gi 57650036 ref NC_002951.2 :1272941-1274093	MVR	M36C05	OK	3.33998	2.08465	-0.68004	0.928723	0.35303	0.999883
gene1246	gene1246	eprH	gi 57650036 ref NC_002951.2 :1274120-1275365	MVR	M36C05	OK	4.5824	1.68797	-1.44081	1.97752	0.04798	0.430141
gene1247	gene1247	SACOL1266	gi 57650036 ref NC_002951.2 :1275537-1276410	MVR	M36C05	OK	4.32472	3.44163	-0.329517	0.452571	0.65086	0.999883
gene1248	gene1248	topA	gi 57650036 ref NC_002951.2 :1276589-1278659	MVR	M36C05	OK	60.5177	43.7876	-0.466834	0.569188	0.56923	0.999883
gene1249	gene1249	gid	gi 57650036 ref NC_002951.2 :1278814-1280122	MVR	M36C05	OK	81.4672	45.7677	-0.831888	1.05627	0.29084	0.975616
gene125	gene125	SACOL0129	gi 57650036 ref NC_002951.2 :144205-145750	MVR	M36C05	OK	2.08089	2.0488	-0.0224235	0.03107	0.97521	0.999883
gene1250	gene1250	xerC	gi 57650036 ref NC_002951.2 :1280538-1281977	MVR	M36C05	OK	83.8456	90.5114	0.110365	-0.119512	0.90487	0.999883
gene1251	gene1251	hslV	gi 57650036 ref NC_002951.2 :1280538-1281977	MVR	M36C05	OK	54.9665	62.2284	0.179021	-0.110895	0.9117	0.999883
gene1252	gene1252	hslU	gi 57650036 ref NC_002951.2 :1282042-1283446	MVR	M36C05	OK	94.9141	67.2023	-0.498112	0.607656	0.54342	0.999883
gene1253	gene1253	codY	gi 57650036 ref NC_002951.2 :1283470-1284244	MVR	M36C05	OK	164.246	78.9924	-1.05607	1.34581	0.17836	0.821737
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	MVR	M36C05	OK	287.805	59.3596	-2.27754	2.83934	0.00452	0.0991395
gene1255	gene1255	SACOL1275	gi 57650036 ref NC_002951.2 :1285395-1285509	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1256	gene1256	tsf	gi 57650036 ref NC_002951.2 :1285543-1286425	MVR	M36C05	OK	501.029	432.281	-0.212924	0.228816	0.81901	0.999883
gene1257	gene1257	pyrH	gi 57650036 ref NC_002951.2 :1286561-1287284	MVR	M36C05	OK	52.4909	37.9743	-0.467044	0.662603	0.50759	0.999883
gene1258	gene1258	frr	gi 57650036 ref NC_002951.2 :1287302-1287857	MVR	M36C05	OK	75.0129	49.4522	-0.601105	0.857795	0.39101	0.999883
gene1259	gene1259	uppS	gi 57650036 ref NC_002951.2 :1288229-1289000	MVR	M36C05	OK	27.0433	19.7071	-0.456558	0.667161	0.50467	0.999883
gene126	gene126	SACOL0130	gi 57650036 ref NC_002951.2 :145800-147336	MVR	M36C05	OK	8.69271	10.6431	0.292038	-0.42701	0.66937	0.999883
gene1260	gene1260	cdsA	gi 57650036 ref NC_002951.2 :1289006-1289789	MVR	M36C05	OK	41.9435	15.1379	-1.47028	2.1217	0.03386	0.352611
gene1261	gene1261	SACOL1281	gi 57650036 ref NC_002951.2 :1290025-1291312	MVR	M36C05	OK	28.9941	33.2654	0.198259	-0.27143	0.78606	0.999883

gene1262	gene1262	proS	gi 57650036 ref NC_002951.2 :1291331-1293035	MVR	M36C05	OK	41.9294	43.3837	0.0491922	-0.062975	0.94979	0.999883
gene1263	gene1263	polC	gi 57650036 ref NC_002951.2 :1293298-1297609	MVR	M36C05	OK	24.6459	25.6216	0.0560117	-0.067702	0.94602	0.999883
gene1264	gene1264	SACOL1284	gi 57650036 ref NC_002951.2 :1297898-1298366	MVR	M36C05	OK	37.2266	25.5367	-0.54376	0.798485	0.42459	0.999883
gene1265	gene1265	nusA	gi 57650036 ref NC_002951.2 :1298386-1299562	MVR	M36C05	OK	78.2008	40.102	-0.963511	1.25204	0.21056	0.889027
gene1266	gene1266	SACOL1286	gi 57650036 ref NC_002951.2 :1299582-1300181	MVR	M36C05	OK	42.8213	20.7581	-1.04465	0.783806	0.43315	0.999883
gene1267	gene1267	SACOL1287	gi 57650036 ref NC_002951.2 :1299582-1300181	MVR	M36C05	OK	81.1993	50.7483	-0.678108	0.852999	0.39366	0.999883
gene1268	gene1268	infB	gi 57650036 ref NC_002951.2 :1300185-1302303	MVR	M36C05	OK	125.133	77.1086	-0.698497	0.789466	0.42984	0.999883
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	MVR	M36C05	OK	86.7612	30.0891	-1.52781	2.22281	0.02623	0.307643
gene127	gene127	SACOL0132	gi 57650036 ref NC_002951.2 :147862-148756	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1270	gene1270	truB	gi 57650036 ref NC_002951.2 :1303207-1304125	MVR	M36C05	OK	9.85825	39.7832	2.01276	-2.87322	0.00406	0.0947611
gene1271	gene1271	ribF	gi 57650036 ref NC_002951.2 :1304139-1305111	MVR	M36C05	OK	60.0406	93.5647	0.640025	-0.827747	0.40781	0.999883
gene1272	gene1272	rpsO	gi 57650036 ref NC_002951.2 :1305225-1305495	MVR	M36C05	OK	2141.74	625.953	-1.77466	2.17327	0.02976	0.32831
gene1273	gene1273	pnp	gi 57650036 ref NC_002951.2 :1305864-1307961	MVR	M36C05	OK	111.359	117.699	0.0798868	-0.088987	0.92909	0.999883
gene1274	gene1274	SACOL1294	gi 57650036 ref NC_002951.2 :1308298-1309870	MVR	M36C05	OK	193.466	171.924	-0.170309	0.18711	0.85158	0.999883
gene1275	gene1275	SACOL1295	gi 57650036 ref NC_002951.2 :1310116-1312495	MVR	M36C05	OK	28.5263	33.9345	0.25046	-0.318438	0.75015	0.999883
gene1276	gene1276	SACOL1296	gi 57650036 ref NC_002951.2 :1312499-1313213	MVR	M36C05	OK	12.4091	11.8068	-0.0717815	0.104915	0.91644	0.999883
gene1277	gene1277	SACOL1297	gi 57650036 ref NC_002951.2 :1313243-1316499	MVR	M36C05	OK	11.5058	5.79143	-0.990371	0.897605	0.3694	0.999883
gene1278	gene1278	SACOL1298	gi 57650036 ref NC_002951.2 :1313243-1316499	MVR	M36C05	OK	11.8837	5.07094	-1.22867	1.10114	0.27084	0.95425
gene1279	gene1279	SACOL1299	gi 57650036 ref NC_002951.2 :1313243-1316499	MVR	M36C05	OK	14.3428	4.15151	-1.78862	1.07805	0.28101	0.965951
gene128	gene128	SACOL0134	gi 57650036 ref NC_002951.2 :149516-150001	MVR	M36C05	OK	0.44671	3.48667	2.96445	-2.02507	0.04286	0.405466
gene1280	gene1280	SACOL1300	gi 57650036 ref NC_002951.2 :1316603-1317431	MVR	M36C05	OK	58.7624	80.7974	0.459415	-0.613503	0.53954	0.999883
gene1281	gene1281	SACOL1301	gi 57650036 ref NC_002951.2 :1317449-1317842	MVR	M36C05	OK	42.6545	65.3893	0.616354	-0.903431	0.3663	0.999883
gene1282	gene1282	pgsA	gi 57650036 ref NC_002951.2 :1317875-1318454	MVR	M36C05	OK	129.717	126.714	-0.0337961	0.044662	0.96438	0.999883
gene1283	gene1283	SACOL1303	gi 57650036 ref NC_002951.2 :1318680-1319832	MVR	M36C05	OK	45.8145	52.9268	0.208195	-0.275568	0.78288	0.999883
gene1284	gene1284	recA	gi 57650036 ref NC_002951.2 :1319996-1321040	MVR	M36C05	OK	439.234	453.742	0.0468828	-0.049575	0.96046	0.999883
gene1285	gene1285	SACOL1305	gi 57650036 ref NC_002951.2 :1321393-1322953	MVR	M36C05	OK	476.648	921.673	0.951332	-0.975447	0.32934	0.999883
gene1286	gene1286	SACOL1306	gi 57650036 ref NC_002951.2 :1323249-1323465	MVR	M36C05	OK	2621.91	2553.32	-0.038244	0.046423	0.96297	0.999883
gene1287	gene1287	SACOL1307	gi 57650036 ref NC_002951.2 :1323638-1324436	MVR	M36C05	OK	90.0488	32.4669	-1.47174	2.0142	0.04399	0.409179
gene1288	gene1288	SACOL1308	gi 57650036 ref NC_002951.2 :1324575-1326336	MVR	M36C05	OK	29.6817	26.689	-0.153326	0.204154	0.83823	0.999883
gene1289	gene1289	SACOL1309	gi 57650036 ref NC_002951.2 :1326336-1327203	MVR	M36C05	OK	52.3807	43.4905	-0.268335	0.369899	0.71146	0.999883
gene129	gene129	SACOL0135	gi 57650036 ref NC_002951.2 :150450-153060	MVR	M36C05	OK	1.81408	2.14902	0.24444	-0.353318	0.72385	0.999883
gene1290	gene1290	SACOL1310	gi 57650036 ref NC_002951.2 :1327296-1327590	MVR	M36C05	OK	5.27671	3.20763	-0.718132	0.668777	0.50364	0.999883
gene1291	gene1291	miaB	gi 57650036 ref NC_002951.2 :1327723-1329268	MVR	M36C05	OK	39.6698	26.7983	-0.565899	0.753812	0.45096	0.999883

gene1292	gene1292	SACOL1313	gi 57650036 ref NC_002951.2 :1329268-1329634	MVR	M36C05	OK	52.5351	44.6205	-0.235575	0.346116	0.72926	0.999883
gene1293	gene1293	SACOL1314	gi 57650036 ref NC_002951.2 :1329660-1330152	MVR	M36C05	OK	56.1411	25.7137	-1.12652	1.6465	0.09966	0.6377
gene1294	gene1294	hexA	gi 57650036 ref NC_002951.2 :1330454-1333073	MVR	M36C05	OK	17.9505	10.7962	-0.733501	1.00275	0.31598	0.999465
gene1295	gene1295	mutL	gi 57650036 ref NC_002951.2 :1333085-1335095	MVR	M36C05	OK	17.2259	7.00213	-1.29872	1.8444	0.06513	0.510075
gene1296	gene1296	glpP	gi 57650036 ref NC_002951.2 :1335100-1335643	MVR	M36C05	OK	15.1976	4.82871	-1.65413	2.25999	0.02382	0.292955
gene1297	gene1297	glpF	gi 57650036 ref NC_002951.2 :1336107-1336926	MVR	M36C05	OK	170.108	114.942	-0.565552	0.699449	0.48427	0.999883
gene1298	gene1298	glpK	gi 57650036 ref NC_002951.2 :1337054-1338551	MVR	M36C05	OK	37.6276	18.3572	-1.03545	1.41301	0.15765	0.776469
gene1299	gene1299	glpD	gi 57650036 ref NC_002951.2 :1338708-1340382	MVR	M36C05	OK	85.2707	162.637	0.931534	-1.06232	0.28809	0.975616
gene13	gene13	SACOL0014	gi 57650036 ref NC_002951.2 :18344-20755	MVR	M36C05	OK	104.1	83.2798	-0.321935	0.338991	0.73462	0.999883
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	MVR	M36C05	OK	3.6785	262.128	6.15501	-7.60612	2.82E-14	5.10E-11
gene1300	gene1300	SACOL1322	gi 57650036 ref NC_002951.2 :1340531-1341446	MVR	M36C05	OK	9.13941	10.7974	0.240509	-0.352684	0.72433	0.999883
gene1301	gene1301	miaA	gi 57650036 ref NC_002951.2 :1341463-1342399	MVR	M36C05	OK	21.7642	13.7855	-0.65881	0.96255	0.33577	0.999883
gene1302	gene1302	SACOL1324	gi 57650036 ref NC_002951.2 :1342413-1342647	MVR	M36C05	OK	39.0355	20.0017	-0.964667	1.21315	0.22507	0.89446
gene1303	gene1303	gpxA1	gi 57650036 ref NC_002951.2 :1342868-1343345	MVR	M36C05	OK	109.161	136.705	0.32461	-0.445653	0.65585	0.999883
gene1304	gene1304	SACOL1326	gi 57650036 ref NC_002951.2 :1343456-1344695	MVR	M36C05	OK	14.6927	7.21535	-1.02596	1.49986	0.13365	0.7248
gene1305	gene1305	SACOL1327	gi 57650036 ref NC_002951.2 :1344713-1345952	MVR	M36C05	OK	20.2241	5.72983	-1.81951	2.63081	0.00852	0.151839
gene1306	gene1306	glnR	gi 57650036 ref NC_002951.2 :1346194-1346563	MVR	M36C05	OK	295.223	169.053	-0.804331	1.09247	0.27463	0.959664
gene1307	gene1307	femC	gi 57650036 ref NC_002951.2 :1346581-1347922	MVR	M36C05	OK	280.536	226.176	-0.310735	0.336873	0.73621	0.999883
gene1308	gene1308	SACOL1331	gi 57650036 ref NC_002951.2 :1348414-1348612	MVR	M36C05	OK	0	3.72726	1.79769e+30	1.79769e+30	0.14732	0.743774
gene1309	gene1309	SACOL1332	gi 57650036 ref NC_002951.2 :1349300-1349525	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	MVR	M36C05	OK	1.51526	124.852	6.36451	-7.49265	6.75E-14	7.00E-11
gene1310	gene1310	SACOL1333	gi 57650036 ref NC_002951.2 :1349818-1350025	MVR	M36C05	OK	3.90755	3.09463	-0.336498	0.175426	0.86075	0.999883
gene1311	gene1311	SACOL1334	gi 57650036 ref NC_002951.2 :1350725-1350836	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1312	gene1312	SACOL1335	gi 57650036 ref NC_002951.2 :1351263-1351449	MVR	M36C05	OK	3.09916	0	-1.79769e+30	-1.79769e+30	0.22252	0.89416
gene1313	gene1313	SACOL1336	gi 57650036 ref NC_002951.2 :1351960-1352065	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1314	gene1314	SACOL1337	gi 57650036 ref NC_002951.2 :1352097-1352193	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1315	gene1315	SACOL1338	gi 57650036 ref NC_002951.2 :1352193-1352445	MVR	M36C05	OK	5.00566	1.59871	-1.64666	1.01948	0.30797	0.991033
gene1316	gene1316	SACOL1339	gi 57650036 ref NC_002951.2 :1352649-1353075	MVR	M36C05	OK	0.57315	3.90069	2.76673	-1.88172	0.05987	0.491837
gene1317	gene1317	SACOL1340	gi 57650036 ref NC_002951.2 :1353195-1353444	MVR	M36C05	OK	13.4858	18.2046	0.432863	-0.504995	0.61356	0.999883
gene1318	gene1318	SACOL1341	gi 57650036 ref NC_002951.2 :1353573-1353675	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1319	gene1319	SACOL1342	gi 57650036 ref NC_002951.2 :1353720-1353987	MVR	M36C05	OK	0.84903	1.36301	0.68291	-0.29216	0.77016	0.999883
gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	MVR	M36C05	OK	2.05344	95.2877	5.53618	-6.94097	3.89E-12	2.58E-09
gene1320	gene1320	SACOL1344	gi 57650036 ref NC_002951.2 :1354323-1354458	MVR	M36C05	NOTEST	0	0	0	0	1	1

gene1321	gene1321	SACOL1345	gi 57650036 ref NC_002951.2 :1354548-1354839	MVR	M36C05	OK	16.2433	5.47979	-1.56765	1.76611	0.07738	0.552795
gene1322	gene1322	SACOL1346	gi 57650036 ref NC_002951.2 :1354849-1355044	MVR	M36C05	OK	25.0546	11.9653	-1.06622	1.01892	0.30824	0.991033
gene1323	gene1323	SACOL1347	gi 57650036 ref NC_002951.2 :1355093-1355435	MVR	M36C05	OK	6.44294	18.181	1.49664	-1.8519	0.06404	0.507066
gene1324	gene1324	SACOL1348	gi 57650036 ref NC_002951.2 :1355441-1355633	MVR	M36C05	OK	2.68265	4.28023	0.674028	-0.28836	0.77307	0.999883
gene1325	gene1325	SACOL1349	gi 57650036 ref NC_002951.2 :1356181-1357207	MVR	M36C05	OK	2.62497	3.87146	0.560575	-0.769789	0.44143	0.999883
gene1326	gene1326	SACOL1350	gi 57650036 ref NC_002951.2 :1357476-1357674	MVR	M36C05	OK	65.6898	26.0908	-1.33213	1.59297	0.11117	0.662157
gene1327	gene1327	cls1	gi 57650036 ref NC_002951.2 :1357731-1359213	MVR	M36C05	OK	33.706	20.1198	-0.744392	1.01897	0.30822	0.991033
gene1328	gene1328	SACOL1352	gi 57650036 ref NC_002951.2 :1359387-1360996	MVR	M36C05	OK	2.81705	6.06666	1.10672	-1.11249	0.26593	0.948966
gene1329	gene1329	SACOL1353	gi 57650036 ref NC_002951.2 :1359387-1360996	MVR	M36C05	OK	4.83388	7.25877	0.586543	-0.61027	0.54168	0.999883
gene133	gene133	cap5D	gi 57650036 ref NC_002951.2 :155561-158403	MVR	M36C05	OK	1.75466	85.9854	5.61483	-5.86407	4.52E-09	1.13E-06
gene1330	gene1330	SACOL1354	gi 57650036 ref NC_002951.2 :1360999-1362690	MVR	M36C05	OK	13.0704	12.4847	-0.0661402	0.070602	0.94371	0.999883
gene1331	gene1331	SACOL1355	gi 57650036 ref NC_002951.2 :1360999-1362690	MVR	M36C05	OK	25.1377	21.0917	-0.253174	0.241781	0.80895	0.999883
gene1332	gene1332	SACOL1356	gi 57650036 ref NC_002951.2 :1362962-1363070	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1333	gene1333	SACOL1357	gi 57650036 ref NC_002951.2 :1363129-1363663	MVR	M36C05	OK	12.0566	5.62014	-1.10115	1.50857	0.13141	0.718382
gene1334	gene1334	SACOL1358	gi 57650036 ref NC_002951.2 :1363805-1364660	MVR	M36C05	OK	56.6198	113.331	1.00116	-1.30708	0.19119	0.851696
gene1335	gene1335	SACOL1359	gi 57650036 ref NC_002951.2 :1364975-1365566	MVR	M36C05	OK	175.652	97.9724	-0.842273	1.10548	0.26895	0.952424
gene1336	gene1336	SACOL1360	gi 57650036 ref NC_002951.2 :1365619-1367002	MVR	M36C05	OK	46.2226	85.8213	0.892737	-1.12042	0.26254	0.944538
gene1337	gene1337	SACOL1361	gi 57650036 ref NC_002951.2 :1367007-1367115	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1338	gene1338	hom	gi 57650036 ref NC_002951.2 :1367192-1368473	MVR	M36C05	OK	211.525	541.831	1.35702	-1.44788	0.14765	0.744632
gene1339	gene1339	thrC	gi 57650036 ref NC_002951.2 :1368478-1369540	MVR	M36C05	OK	328.615	717.106	1.12579	-1.18864	0.23458	0.903063
gene134	gene134	cap5E	gi 57650036 ref NC_002951.2 :155561-158403	MVR	M36C05	OK	2.17933	57.9945	4.73396	-3.22461	0.00126	0.040574
gene1340	gene1340	thrB	gi 57650036 ref NC_002951.2 :1369541-1370456	MVR	M36C05	OK	195.059	359.245	0.881057	-0.996531	0.31899	0.999883
gene1341	gene1341	SACOL1365	gi 57650036 ref NC_002951.2 :1370513-1371317	MVR	M36C05	OK	328.949	537.862	0.709373	-0.778947	0.43601	0.999883
gene1342	gene1342	SACOL1366	gi 57650036 ref NC_002951.2 :1371609-1371924	MVR	M36C05	OK	126.522	106.44	-0.249356	0.364467	0.71551	0.999883
gene1343	gene1343	SACOL1367	gi 57650036 ref NC_002951.2 :1372141-1373596	MVR	M36C05	OK	27.7937	83.9684	1.59509	-2.03866	0.04148	0.396065
gene1344	gene1344	kataA	gi 57650036 ref NC_002951.2 :1373895-1375317	MVR	M36C05	OK	469.834	2052.29	2.12701	-2.22509	0.02608	0.306341
gene1345	gene1345	rpmG	gi 57650036 ref NC_002951.2 :1375407-1375557	MVR	M36C05	OK	429.349	785.21	0.870928	-1.22053	0.22226	0.89416
gene1346	gene1346	rpsN	gi 57650036 ref NC_002951.2 :1376010-1376280	MVR	M36C05	OK	13.9983	26.4674	0.918961	-1.15572	0.2478	0.922459
gene1347	gene1347	guaC	gi 57650036 ref NC_002951.2 :1376436-1377515	MVR	M36C05	OK	20.8626	3.96883	-2.39413	3.41127	0.00065	0.0247597
gene1348	gene1348	SACOL1372	gi 57650036 ref NC_002951.2 :1376436-1377515	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1349	gene1349	SACOL1373	gi 57650036 ref NC_002951.2 :1377588-1378452	MVR	M36C05	OK	22.3844	13.7872	-0.69916	1.02345	0.30609	0.991033
gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	MVR	M36C05	OK	2.83821	47.6174	4.06843	-5.49995	3.80E-08	7.43E-06
gene1350	gene1350	lexA	gi 57650036 ref NC_002951.2 :1378831-1379455	MVR	M36C05	OK	607.783	762.497	0.327175	-0.355183	0.72245	0.999883

gene1351	gene1351	SACOL1375	gi 57650036 ref NC_002951.2 :1379597-1379831	MVR	M36C05	OK	180.067	104.009	-0.791831	1.15961	0.24621	0.920358
gene1352	gene1352	SACOL1376	gi 57650036 ref NC_002951.2 :1379966-1380206	MVR	M36C05	OK	46.4522	31.4104	-0.564505	0.756822	0.44916	0.999883
gene1353	gene1353	tkf	gi 57650036 ref NC_002951.2 :1380326-1382315	MVR	M36C05	OK	237.769	354.772	0.577335	-0.598377	0.54959	0.999883
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	MVR	M36C05	OK	463.645	80.0577	-2.53391	3.62326	0.00029	0.0131134
gene1355	gene1355	SACOL1379	gi 57650036 ref NC_002951.2 :1382592-1382920	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1356	gene1356	SACOL1380	gi 57650036 ref NC_002951.2 :1383013-1383481	MVR	M36C05	OK	44.3855	12.3565	-1.84482	2.65307	0.00798	0.14471
gene1357	gene1357	sbcD	gi 57650036 ref NC_002951.2 :1383604-1384726	MVR	M36C05	OK	7.35893	3.34839	-1.13603	1.62697	0.10374	0.645527
gene1358	gene1358	sbcC	gi 57650036 ref NC_002951.2 :1384729-1387759	MVR	M36C05	OK	10.9231	3.73784	-1.54711	2.20159	0.02769	0.315942
gene1359	gene1359	mscL	gi 57650036 ref NC_002951.2 :1387829-1388192	MVR	M36C05	OK	672.616	1270.2	0.917204	-1.06723	0.28587	0.973566
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	MVR	M36C05	OK	2.9857	38.3815	3.68427	-5.05219	4.37E-07	5.85E-05
gene1360	gene1360	opuD1	gi 57650036 ref NC_002951.2 :1388395-1390042	MVR	M36C05	OK	207.891	23.7656	-3.12888	3.74773	0.00018	0.0092341
gene1361	gene1361	acnA	gi 57650036 ref NC_002951.2 :1390933-1393639	MVR	M36C05	OK	220.559	752.31	1.77016	-1.83659	0.06627	0.515048
gene1362	gene1362	SACOL1386	gi 57650036 ref NC_002951.2 :1393818-1394286	MVR	M36C05	OK	75.8849	89.7903	0.242747	-0.346431	0.72902	0.999883
gene1363	gene1363	SACOL1387	gi 57650036 ref NC_002951.2 :1394492-1394789	MVR	M36C05	OK	78.4592	174.279	1.15138	-1.67449	0.09403	0.615302
gene1364	gene1364	SACOL1388	gi 57650036 ref NC_002951.2 :1395164-1395773	MVR	M36C05	OK	208.298	138.185	-0.592044	0.752355	0.45184	0.999883
gene1365	gene1365	parE	gi 57650036 ref NC_002951.2 :1395972-1400372	MVR	M36C05	OK	54.7638	34.2024	-0.679126	0.541583	0.58811	0.999883
gene1366	gene1366	parC	gi 57650036 ref NC_002951.2 :1395972-1400372	MVR	M36C05	OK	54.5452	25.5111	-1.09633	0.90348	0.36627	0.999883
gene1367	gene1367	SACOL1392	gi 57650036 ref NC_002951.2 :1400621-1402097	MVR	M36C05	OK	68.5759	21.7694	-1.6554	2.16563	0.03034	0.33167
gene1368	gene1368	SACOL1393	gi 57650036 ref NC_002951.2 :1402581-1404776	MVR	M36C05	OK	22.6257	41.1089	0.861489	-0.367813	0.71301	0.999883
gene1369	gene1369	SACOL1394	gi 57650036 ref NC_002951.2 :1402581-1404776	MVR	M36C05	OK	62.3313	143.672	1.20475	-0.126084	0.89967	0.999883
gene137	gene137	cap5H	gi 57650036 ref NC_002951.2 :160655-161282	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1370	gene1370	SACOL1395	gi 57650036 ref NC_002951.2 :1402581-1404776	MVR	M36C05	OK	78.3128	190.013	1.27878	-1.3769	0.16854	0.808072
gene1371	gene1371	fmtC	gi 57650036 ref NC_002951.2 :1405256-1407779	MVR	M36C05	OK	223.026	344.676	0.628029	-0.645618	0.51853	0.999883
gene1372	gene1372	msrA	gi 57650036 ref NC_002951.2 :1407981-1408491	MVR	M36C05	OK	25.9151	63.4037	1.29077	-1.87428	0.06089	0.498497
gene1373	gene1373	SACOL1398	gi 57650036 ref NC_002951.2 :1408627-1409611	MVR	M36C05	OK	28.777	16.457	-0.806218	1.16361	0.24458	0.918242
gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	MVR	M36C05	OK	142.561	104.259	-0.451416	0.618646	0.53615	0.999883
gene1375	gene1375	SACOL1400	gi 57650036 ref NC_002951.2 :1410031-1411294	MVR	M36C05	OK	46.1561	68.6563	0.572872	-0.738139	0.46043	0.999883
gene1376	gene1376	tyrA	gi 57650036 ref NC_002951.2 :1411430-1412522	MVR	M36C05	OK	46.9592	59.0862	0.331413	-0.438577	0.66097	0.999883
gene1377	gene1377	SACOL1402	gi 57650036 ref NC_002951.2 :1412686-1413718	MVR	M36C05	OK	61.9527	55.1345	-0.168212	0.221879	0.82441	0.999883
gene1378	gene1378	trpE	gi 57650036 ref NC_002951.2 :1414209-1416179	MVR	M36C05	OK	1.33482	2.83118	1.08476	-1.36129	0.17342	0.821477
gene1379	gene1379	trpG	gi 57650036 ref NC_002951.2 :1414209-1416179	MVR	M36C05	OK	0.85177	1.80502	1.08348	-0.579835	0.56203	0.999883
gene138	gene138	cap5I	gi 57650036 ref NC_002951.2 :161286-162396	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1380	gene1380	trpD	gi 57650036 ref NC_002951.2 :1416184-1417183	MVR	M36C05	OK	0.98092	2.76029	1.49262	-1.81269	0.06988	0.522414

gene1381	gene1381	trpC	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	M36C05	OK	2.19654	3.59526	0.710862	-0.481222	0.63036	0.999883
gene1382	gene1382	trpF	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	M36C05	OK	1.84452	2.53148	0.456735	-0.23373	0.8152	0.999883
gene1383	gene1383	trpB	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	M36C05	OK	1.71139	2.93272	0.777068	-0.622264	0.53377	0.999883
gene1384	gene1384	trpA	gi 57650036 ref NC_002951.2 :1417184-1420527	MVR	M36C05	OK	5.20991	5.00572	-0.0576823	0.049925	0.96018	0.999883
gene1385	gene1385	femA	gi 57650036 ref NC_002951.2 :1420809-1422111	MVR	M36C05	OK	95.4835	161.36	0.75696	-0.886285	0.37546	0.999883
gene1386	gene1386	SACOL1411	gi 57650036 ref NC_002951.2 :1422129-1423389	MVR	M36C05	OK	182.731	184.399	0.0131102	-0.014775	0.98821	0.999883
gene1387	gene1387	SACOL1412	gi 57650036 ref NC_002951.2 :1424071-1424839	MVR	M36C05	OK	6.87871	3.30189	-1.05885	1.45062	0.14689	0.743774
gene1388	gene1388	SACOL1413	gi 57650036 ref NC_002951.2 :1424886-1425360	MVR	M36C05	OK	63.8453	162.37	1.34664	-1.86629	0.062	0.503596
gene1389	gene1389	SACOL1414	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	M36C05	OK	10.1519	12.5291	0.303538	-0.300202	0.76402	0.999883
gene139	gene139	cap5J	gi 57650036 ref NC_002951.2 :162409-164774	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1390	gene1390	SACOL1415	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	M36C05	OK	2.33877	6.72684	1.52418	-0.93109	0.35181	0.999883
gene1391	gene1391	SACOL1416	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	M36C05	OK	2.98622	1.39848	-1.09446	0.479798	0.63137	0.999883
gene1392	gene1392	SACOL1417	gi 57650036 ref NC_002951.2 :1425483-1428747	MVR	M36C05	OK	2.52917	4.624	0.870478	-0.595578	0.55146	0.999883
gene1393	gene1393	SACOL1418	gi 57650036 ref NC_002951.2 :1429050-1429395	MVR	M36C05	OK	23.9096	22.3011	-0.100473	0.14126	0.88766	0.999883
gene1394	gene1394	SACOL1419	gi 57650036 ref NC_002951.2 :1429599-1431414	MVR	M36C05	OK	37.9385	103.731	1.45111	-1.75464	0.07932	0.560274
gene1395	gene1395	SACOL1420	gi 57650036 ref NC_002951.2 :1431553-1432195	MVR	M36C05	OK	4.33542	3.24617	-0.417434	0.538724	0.59008	0.999883
gene1396	gene1396	SACOL1421	gi 57650036 ref NC_002951.2 :1432201-1433053	MVR	M36C05	OK	4.09683	3.89097	-0.0743808	0.102238	0.91857	0.999883
gene1397	gene1397	SACOL1422	gi 57650036 ref NC_002951.2 :1433099-1434017	MVR	M36C05	OK	3.79163	5.37611	0.503743	-0.70656	0.47984	0.999883
gene1398	gene1398	SACOL1423	gi 57650036 ref NC_002951.2 :1434018-1434945	MVR	M36C05	OK	2.91131	3.48908	0.261181	-0.353957	0.72337	0.999883
gene1399	gene1399	SACOL1424	gi 57650036 ref NC_002951.2 :1435135-1436119	MVR	M36C05	OK	12.6188	14.0658	0.156616	-0.230058	0.81805	0.999883
gene14	gene14	rplI	gi 57650036 ref NC_002951.2 :18344-20755	MVR	M36C05	OK	88.8435	72.3559	-0.296155	0.107848	0.91412	0.999883
gene140	gene140	cap5K	gi 57650036 ref NC_002951.2 :162409-164774	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1400	gene1400	SACOL1425	gi 57650036 ref NC_002951.2 :1436658-1436955	MVR	M36C05	NOTEST	0.64311	0	-1.79769e+3(-1.79769e+0.22252		1	
gene1401	gene1401	SACOL1426	gi 57650036 ref NC_002951.2 :1437090-1437993	MVR	M36C05	OK	163.11	112.957	-0.53007	0.647806	0.51711	0.999883
gene1402	gene1402	SACOL1427	gi 57650036 ref NC_002951.2 :1438139-1439741	MVR	M36C05	OK	29.9225	9.51279	-1.65329	2.30794	0.021	0.271422
gene1403	gene1403	lysC	gi 57650036 ref NC_002951.2 :1440600-1441806	MVR	M36C05	OK	8.5758	10.192	0.249098	-0.366138	0.71426	0.999883
gene1404	gene1404	asd	gi 57650036 ref NC_002951.2 :1441869-1442859	MVR	M36C05	OK	38.7815	71.7486	0.887582	-1.18854	0.23462	0.903063
gene1405	gene1405	dapA	gi 57650036 ref NC_002951.2 :1442860-1444467	MVR	M36C05	OK	35.93	81.1165	1.17481	-1.19356	0.23265	0.902162
gene1406	gene1406	dapB	gi 57650036 ref NC_002951.2 :1442860-1444467	MVR	M36C05	OK	33.5098	55.4846	0.727506	-0.57003	0.56866	0.999883
gene1407	gene1407	dapD	gi 57650036 ref NC_002951.2 :1444493-1445213	MVR	M36C05	OK	80.0374	106.73	0.415223	-0.54871	0.5832	0.999883
gene1408	gene1408	SACOL1433	gi 57650036 ref NC_002951.2 :1445355-1446507	MVR	M36C05	OK	21.6784	18.5302	-0.226381	0.325755	0.74461	0.999883
gene1409	gene1409	SACOL1434	gi 57650036 ref NC_002951.2 :1446511-1448852	MVR	M36C05	OK	11.7367	12.9427	0.141115	-0.079305	0.93679	0.999883
gene141	gene141	cap5L	gi 57650036 ref NC_002951.2 :164774-165980	MVR	M36C05	OK	2.67994	11.6167	2.11593	-3.00583	0.00265	0.0711263

gene1410	gene1410	lysA	gi 57650036 ref NC_002951.2 :1446511-1448852	MVR	M36C05	OK	44.0027	44.0562	0.00175416	-0.002047	0.99837	0.999883
gene1411	gene1411	SACOL1436	gi 57650036 ref NC_002951.2 :1449091-1449493	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1412	gene1412	SACOL1437	gi 57650036 ref NC_002951.2 :1449689-1449890	MVR	M36C05	OK	3893.23	1551.04	-1.32774	1.67132	0.09466	0.617151
gene1413	gene1413	SACOL1438	gi 57650036 ref NC_002951.2 :1450060-1450369	MVR	M36C05	OK	66.5397	88.432	0.410355	-0.602149	0.54708	0.999883
gene1414	gene1414	SACOL1439	gi 57650036 ref NC_002951.2 :1450531-1450801	MVR	M36C05	OK	194.33	397.011	1.03067	-1.45616	0.14535	0.743774
gene1415	gene1415	SACOL1440	gi 57650036 ref NC_002951.2 :1450819-1451449	MVR	M36C05	OK	83.9405	170.184	1.01965	-1.33551	0.18171	0.829614
gene1416	gene1416	SACOL1441	gi 57650036 ref NC_002951.2 :1451480-1452617	MVR	M36C05	OK	126.506	236.045	0.899855	-1.03445	0.30093	0.984985
gene1417	gene1417	SACOL1442	gi 57650036 ref NC_002951.2 :1452884-1453277	MVR	M36C05	OK	1.01558	1.70581	0.748144	-0.553842	0.57969	0.999883
gene1418	gene1418	brnQ3	gi 57650036 ref NC_002951.2 :1453629-1454973	MVR	M36C05	OK	8.6682	4.23992	-1.0317	1.50501	0.13232	0.721045
gene1419	gene1419	SACOL1444	gi 57650036 ref NC_002951.2 :1455197-1457084	MVR	M36C05	OK	6.99897	8.55819	0.290163	-0.42406	0.67152	0.999883
gene142	gene142	cap5M	gi 57650036 ref NC_002951.2 :165990-167435	MVR	M36C05	OK	2.274	10.7944	2.24697	-1.63908	0.1012	0.639058
gene1420	gene1420	SACOL1445	gi 57650036 ref NC_002951.2 :1457097-1457889	MVR	M36C05	OK	12.5588	17.3299	0.464571	-0.682216	0.4951	0.999883
gene1421	gene1421	SACOL1446	gi 57650036 ref NC_002951.2 :1458069-1458273	MVR	M36C05	OK	111.871	124.765	0.157374	-0.223414	0.82321	0.999883
gene1422	gene1422	SACOL1447	gi 57650036 ref NC_002951.2 :1458301-1459111	MVR	M36C05	OK	119.337	149.914	0.329091	-0.410018	0.68179	0.999883
gene1423	gene1423	sucB	gi 57650036 ref NC_002951.2 :1459690-1460959	MVR	M36C05	OK	230.071	411.068	0.837296	-0.897434	0.36949	0.999883
gene1424	gene1424	sucA	gi 57650036 ref NC_002951.2 :1460972-1463771	MVR	M36C05	OK	197.783	375.05	0.923159	-0.949198	0.34252	0.999883
gene1425	gene1425	arlS	gi 57650036 ref NC_002951.2 :1464054-1466066	MVR	M36C05	OK	9.04131	34.902	1.94871	-1.80576	0.07096	0.522414
gene1426	gene1426	arlR	gi 57650036 ref NC_002951.2 :1464054-1466066	MVR	M36C05	OK	13.2744	119.478	3.17003	-2.84623	0.00442	0.0985117
gene1427	gene1427	SACOL1452	gi 57650036 ref NC_002951.2 :1466853-1467468	MVR	M36C05	OK	30.796	44.9512	0.545618	-0.792507	0.42807	0.999883
gene1428	gene1428	murG	gi 57650036 ref NC_002951.2 :1467484-1468555	MVR	M36C05	OK	20.5058	20.0019	-0.0358945	0.05188	0.95862	0.999883
gene1429	gene1429	SACOL1454	gi 57650036 ref NC_002951.2 :1468566-1469077	MVR	M36C05	OK	8.33744	9.23144	0.146951	-0.20247	0.83955	0.999883
gene143	gene143	cap5N	gi 57650036 ref NC_002951.2 :165990-167435	MVR	M36C05	OK	4.22706	10.901	1.36674	-1.67188	0.09455	0.61699
gene1430	gene1430	SACOL1455	gi 57650036 ref NC_002951.2 :1469476-1470967	MVR	M36C05	OK	33.1435	42.2642	0.350708	-0.462554	0.64368	0.999883
gene1431	gene1431	SACOL1456	gi 57650036 ref NC_002951.2 :1471158-1471880	MVR	M36C05	OK	212.143	293.234	0.467017	-0.289505	0.7722	0.999883
gene1432	gene1432	SACOL1457	gi 57650036 ref NC_002951.2 :1471158-1471880	MVR	M36C05	OK	87.616	181.223	1.0485	-1.21707	0.22358	0.89446
gene1433	gene1433	SACOL1459	gi 57650036 ref NC_002951.2 :1471891-1473771	MVR	M36C05	OK	86.1333	172.73	1.00387	-1.01998	0.30774	0.991033
gene1434	gene1434	SACOL1460	gi 57650036 ref NC_002951.2 :1471891-1473771	MVR	M36C05	OK	39.1082	73.7652	0.915469	-0.526813	0.59832	0.999883
gene1435	gene1435	folA	gi 57650036 ref NC_002951.2 :1473785-1474265	MVR	M36C05	OK	48.033	111.982	1.22117	-1.73327	0.08305	0.574038
gene1436	gene1436	thyA	gi 57650036 ref NC_002951.2 :1474464-1475421	MVR	M36C05	OK	20.1836	55.5043	1.45942	-2.0319	0.04216	0.400763
gene1437	gene1437	SACOL1464	gi 57650036 ref NC_002951.2 :1475844-1476282	MVR	M36C05	OK	122.282	113.983	-0.101396	0.14199	0.88709	0.999883
gene1438	gene1438	SACOL1465	gi 57650036 ref NC_002951.2 :1476297-1477422	MVR	M36C05	OK	60.6875	94.5234	0.639272	-0.809286	0.41835	0.999883
gene1439	gene1439	SACOL1466	gi 57650036 ref NC_002951.2 :1477459-1477711	MVR	M36C05	OK	50.0566	75.1392	0.586004	-0.83355	0.40454	0.999883
gene144	gene144	cap5O	gi 57650036 ref NC_002951.2 :167488-168751	MVR	M36C05	OK	3.88386	10.8896	1.48739	-2.15495	0.03117	0.337139

gene1440	gene1440	SACOL1467	gi 57650036 ref NC_002951.2 :1477722-1477917	MVR	M36C05	OK	25.0546	75.7799	1.59674	-1.85929	0.06299	0.504373
gene1441	gene1441	SACOL1468	gi 57650036 ref NC_002951.2 :1478161-1478866	MVR	M36C05	OK	4.98352	2.84051	-0.811015	1.06501	0.28687	0.975155
gene1442	gene1442	SACOL1469	gi 57650036 ref NC_002951.2 :1478930-1479062	MVR	M36C05	OK	217.965	318.311	0.546337	-0.548847	0.58311	0.999883
gene1443	gene1443	SACOL1471	gi 57650036 ref NC_002951.2 :1479406-1479808	MVR	M36C05	OK	3.87325	2.72051	-0.509665	0.539052	0.58985	0.999883
gene1444	gene1444	ebh	gi 57650036 ref NC_002951.2 :1479866-1511363	MVR	M36C05	OK	2.35691	3.44937	0.549438	-0.675384	0.49943	0.999883
gene1445	gene1445	SACOL1475	gi 57650036 ref NC_002951.2 :1511760-1513152	MVR	M36C05	OK	2.70392	3.8841	0.522528	-0.743992	0.45688	0.999883
gene1446	gene1446	SACOL1476	gi 57650036 ref NC_002951.2 :1513308-1514631	MVR	M36C05	OK	4.15082	9.81651	1.24182	-1.80706	0.07075	0.522414
gene1447	gene1447	ilvA1	gi 57650036 ref NC_002951.2 :1514661-1515702	MVR	M36C05	OK	2.93468	6.81798	1.21614	-1.71391	0.08655	0.589208
gene1448	gene1448	ald1	gi 57650036 ref NC_002951.2 :1515796-1516915	MVR	M36C05	OK	2.679	5.39893	1.01098	-1.42058	0.15544	0.769852
gene1449	gene1449	SACOL1479	gi 57650036 ref NC_002951.2 :1517389-1518268	MVR	M36C05	OK	54.4567	48.2438	-0.174768	0.2387	0.81134	0.999883
gene145	gene145	cap5P	gi 57650036 ref NC_002951.2 :168797-169973	MVR	M36C05	OK	8.60025	14.9111	0.793941	-1.16177	0.24533	0.919205
gene1450	gene1450	SACOL1480	gi 57650036 ref NC_002951.2 :1518287-1521728	MVR	M36C05	OK	36.4016	43.0402	0.241681	-0.284748	0.77584	0.999883
gene1451	gene1451	SACOL1481	gi 57650036 ref NC_002951.2 :1522031-1523372	MVR	M36C05	OK	2.46084	1.256	-0.970314	1.28307	0.19947	0.867146
gene1452	gene1452	SACOL1482	gi 57650036 ref NC_002951.2 :1523577-1523910	MVR	M36C05	OK	17.6157	3.21226	-2.4552	2.72312	0.00647	0.126644
gene1453	gene1453	SACOL1483	gi 57650036 ref NC_002951.2 :1523993-1525139	MVR	M36C05	OK	13.5737	8.15842	-0.734454	1.07705	0.28146	0.965951
gene1454	gene1454	SACOL1484	gi 57650036 ref NC_002951.2 :1525789-1526134	MVR	M36C05	OK	124.51	140.497	0.174275	-0.250985	0.80183	0.999883
gene1455	gene1455	SACOL1485	gi 57650036 ref NC_002951.2 :1526147-1527054	MVR	M36C05	OK	75.614	180.172	1.25265	-1.33723	0.18115	0.828669
gene1456	gene1456	SACOL1486	gi 57650036 ref NC_002951.2 :1526147-1527054	MVR	M36C05	OK	106.716	149.013	0.481653	-0.336844	0.73624	0.999883
gene1457	gene1457	SACOL1488	gi 57650036 ref NC_002951.2 :1527487-1530400	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1458	gene1458	recU	gi 57650036 ref NC_002951.2 :1527487-1530400	MVR	M36C05	OK	72.3802	55.5762	-0.381127	0.096427	0.92318	0.999883
gene1459	gene1459	pbp2	gi 57650036 ref NC_002951.2 :1527487-1530400	MVR	M36C05	OK	206.954	216.073	0.062206	-0.062924	0.94983	0.999883
gene146	gene146	SACOL0152	gi 57650036 ref NC_002951.2 :170037-170364	MVR	M36C05	OK	27.0518	17.5589	-0.62352	0.860385	0.38958	0.999883
gene1460	gene1460	SACOL1491	gi 57650036 ref NC_002951.2 :1530965-1531307	MVR	M36C05	OK	32.6749	33.3319	0.0287191	-0.041389	0.96699	0.999883
gene1461	gene1461	nth	gi 57650036 ref NC_002951.2 :1531311-1532647	MVR	M36C05	OK	31.2417	37.9067	0.27898	-0.257585	0.79673	0.999883
gene1462	gene1462	SACOL1493	gi 57650036 ref NC_002951.2 :1531311-1532647	MVR	M36C05	OK	28.9162	49.6234	0.779144	-0.780632	0.43502	0.999883
gene1463	gene1463	asnC	gi 57650036 ref NC_002951.2 :1532974-1534267	MVR	M36C05	OK	89.0109	42.8662	-1.05414	1.33679	0.18129	0.828813
gene1464	gene1464	SACOL1495	gi 57650036 ref NC_002951.2 :1534588-1537282	MVR	M36C05	OK	26.1438	14.4921	-0.851202	1.12028	0.2626	0.944538
gene1465	gene1465	birA	gi 57650036 ref NC_002951.2 :1537305-1539466	MVR	M36C05	OK	30.6457	39.8543	0.379048	-0.374013	0.7084	0.999883
gene1466	gene1466	papS	gi 57650036 ref NC_002951.2 :1537305-1539466	MVR	M36C05	OK	26.8815	13.4102	-1.00328	0.827446	0.40799	0.999883
gene1467	gene1467	SACOL1498	gi 57650036 ref NC_002951.2 :1539470-1540625	MVR	M36C05	OK	26.8223	18.3565	-0.547142	0.780619	0.43503	0.999883
gene1468	gene1468	SACOL1499	gi 57650036 ref NC_002951.2 :1540853-1541171	MVR	M36C05	OK	53.9512	35.6129	-0.599258	0.868639	0.38504	0.999883
gene1469	gene1469	SACOL1500	gi 57650036 ref NC_002951.2 :1541507-1542215	MVR	M36C05	OK	1473.11	3002.25	1.02718	-1.05599	0.29097	0.975616
gene147	gene147	SACOL0153	gi 57650036 ref NC_002951.2 :170370-170754	MVR	M36C05	OK	2.84558	4.16676	0.550202	-0.573887	0.56604	0.999883

gene1470	gene1470	SACOL1501	gi 57650036 ref NC_002951.2 :1542259-1543412	MVR	M36C05	OK	16.3769	19.917	0.282333	-0.285421	0.77532	0.999883
gene1471	gene1471	SACOL1502	gi 57650036 ref NC_002951.2 :1542259-1543412	MVR	M36C05	OK	20.5857	19.3792	-0.0871357	0.091153	0.92737	0.999883
gene1472	gene1472	SACOL1503	gi 57650036 ref NC_002951.2 :1543425-1544670	MVR	M36C05	OK	28.64	23.6316	-0.277312	0.388035	0.69799	0.999883
gene1473	gene1473	aroA	gi 57650036 ref NC_002951.2 :1544676-1545975	MVR	M36C05	OK	26.44	30.0932	0.186711	-0.257887	0.79649	0.999883
gene1474	gene1474	aroB	gi 57650036 ref NC_002951.2 :1545984-1547049	MVR	M36C05	OK	18.0793	24.3474	0.429435	-0.618981	0.53593	0.999883
gene1475	gene1475	aroC	gi 57650036 ref NC_002951.2 :1547074-1548241	MVR	M36C05	OK	16.1863	29.7581	0.878507	-1.24838	0.21189	0.891421
gene1476	gene1476	SACOL1507	gi 57650036 ref NC_002951.2 :1548626-1548827	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1477	gene1477	SACOL1508	gi 57650036 ref NC_002951.2 :1548855-1548981	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	MVR	M36C05	OK	187.225	50.753	-1.88321	2.62596	0.00864	0.152769
gene1479	gene1479	SACOL1510	gi 57650036 ref NC_002951.2 :1549576-1550536	MVR	M36C05	OK	58.7151	36.2762	-0.694707	0.947133	0.34357	0.999883
gene148	gene148	aldA1	gi 57650036 ref NC_002951.2 :171180-172668	MVR	M36C05	OK	1009.67	1700.41	0.752005	-0.78156	0.43447	0.999883
gene1480	gene1480	ubiE	gi 57650036 ref NC_002951.2 :1550537-1551263	MVR	M36C05	OK	114.72	125.648	0.131268	-0.168614	0.8661	0.999883
gene1481	gene1481	SACOL1512	gi 57650036 ref NC_002951.2 :1551265-1551838	MVR	M36C05	OK	72.6671	88.2049	0.279556	-0.388319	0.69778	0.999883
gene1482	gene1482	hup	gi 57650036 ref NC_002951.2 :1552268-1552541	MVR	M36C05	OK	8177.93	10892	0.413459	-0.423575	0.67188	0.999883
gene1483	gene1483	gpsA	gi 57650036 ref NC_002951.2 :1552711-1553710	MVR	M36C05	OK	89.1127	61.9686	-0.524094	0.676562	0.49868	0.999883
gene1484	gene1484	engA	gi 57650036 ref NC_002951.2 :1553726-1555037	MVR	M36C05	OK	78.9289	62.8102	-0.329555	0.412267	0.68014	0.999883
gene1485	gene1485	rpsA	gi 57650036 ref NC_002951.2 :1555258-1556434	MVR	M36C05	OK	343.518	559.846	0.704642	-0.739941	0.45934	0.999883
gene1486	gene1486	cmk	gi 57650036 ref NC_002951.2 :1557145-1557805	MVR	M36C05	OK	57.5222	40.3058	-0.513131	0.730944	0.46481	0.999883
gene1487	gene1487	ansA	gi 57650036 ref NC_002951.2 :1557881-1558850	MVR	M36C05	OK	14.2072	6.16641	-1.20412	1.75461	0.07933	0.560274
gene1488	gene1488	SACOL1520	gi 57650036 ref NC_002951.2 :1558964-1559951	MVR	M36C05	OK	51.5031	33.3489	-0.627022	0.861196	0.38913	0.999883
gene1489	gene1489	SACOL1521	gi 57650036 ref NC_002951.2 :1560111-1560228	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene149	gene149	SACOL0155	gi 57650036 ref NC_002951.2 :173313-174273	MVR	M36C05	OK	23.9945	60.9441	1.34478	-1.85574	0.06349	0.504373
gene1490	gene1490	SACOL1522	gi 57650036 ref NC_002951.2 :1560352-1561813	MVR	M36C05	OK	233.186	926.161	1.98978	-2.09394	0.03627	0.365532
gene1491	gene1491	recQ2	gi 57650036 ref NC_002951.2 :1561965-1564288	MVR	M36C05	OK	15.4812	36.3403	1.23105	-1.17332	0.24067	0.911371
gene1492	gene1492	SACOL1524	gi 57650036 ref NC_002951.2 :1561965-1564288	MVR	M36C05	OK	23.711	44.9021	0.921224	-0.817131	0.41385	0.999883
gene1493	gene1493	fer	gi 57650036 ref NC_002951.2 :1564395-1564644	MVR	M36C05	OK	240.67	134.052	-0.84426	1.23705	0.21607	0.89416
gene1494	gene1494	SACOL1526	gi 57650036 ref NC_002951.2 :1564749-1565295	MVR	M36C05	OK	78.0052	36.6988	-1.08784	1.56095	0.11854	0.683
gene1495	gene1495	SACOL1528	gi 57650036 ref NC_002951.2 :1565891-1566806	MVR	M36C05	OK	2.53873	1.85098	-0.455815	0.582617	0.56015	0.999883
gene1496	gene1496	SACOL1529	gi 57650036 ref NC_002951.2 :1566820-1567898	MVR	M36C05	OK	0	3.09463	1.79769e+30	1.79769e+30	0.2187	0.89416
gene1497	gene1497	SACOL1530	gi 57650036 ref NC_002951.2 :1566820-1567898	MVR	M36C05	NOTEST	0.62491	0.32487	-0.943777	0.681384	0.49563	1
gene1498	gene1498	SACOL1531	gi 57650036 ref NC_002951.2 :1568015-1568933	MVR	M36C05	OK	1.26388	1.84324	0.544385	-0.651326	0.51484	0.999883
gene1499	gene1499	SACOL1532	gi 57650036 ref NC_002951.2 :1569023-1572048	MVR	M36C05	OK	19.0946	18.8631	-0.0175927	0.019854	0.98416	0.999883
gene15	gene15	dnaB	gi 57650036 ref NC_002951.2 :20786-22187	MVR	M36C05	OK	78.7583	32.2166	-1.28963	1.65292	0.09835	0.633226

gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	MVR	M36C05	OK	60.0788	830.669	3.78935	-5.10114	3.38E-07	4.89E-05
gene1500	gene1500	SACOL1533	gi 57650036 ref NC_002951.2 :1569023-1572048	MVR	M36C05	OK	20.2757	19.59	-0.0496365	0.03333	0.97341	0.999883
gene1501	gene1501	srrB	gi 57650036 ref NC_002951.2 :1572352-1574810	MVR	M36C05	OK	24.2297	11.7886	-1.03939	0.736635	0.46134	0.999883
gene1502	gene1502	srrA	gi 57650036 ref NC_002951.2 :1572352-1574810	MVR	M36C05	OK	135.801	81.8076	-0.731186	0.745481	0.45598	0.999883
gene1503	gene1503	rluB	gi 57650036 ref NC_002951.2 :1574942-1576939	MVR	M36C05	OK	44.7036	26.4549	-0.756856	0.60556	0.54481	0.999883
gene1504	gene1504	scpB	gi 57650036 ref NC_002951.2 :1574942-1576939	MVR	M36C05	OK	40.8321	20.6025	-0.986884	0.57353	0.56629	0.999883
gene1505	gene1505	scpA	gi 57650036 ref NC_002951.2 :1574942-1576939	MVR	M36C05	OK	41.5484	38.5752	-0.107119	0.091319	0.92724	0.999883
gene1506	gene1506	SACOL1539	gi 57650036 ref NC_002951.2 :1577030-1577537	MVR	M36C05	OK	8.2479	39.5649	2.26212	-3.18925	0.00143	0.044882
gene1507	gene1507	xerD	gi 57650036 ref NC_002951.2 :1577614-1578502	MVR	M36C05	OK	21.3114	18.4356	-0.209136	0.305429	0.76004	0.999883
gene1508	gene1508	SACOL1541	gi 57650036 ref NC_002951.2 :1578550-1579000	MVR	M36C05	OK	120.616	227.285	0.91408	-1.22841	0.21929	0.89416
gene1509	gene1509	SACOL1542	gi 57650036 ref NC_002951.2 :1579104-1579647	MVR	M36C05	OK	24.3528	24.1436	-0.0124476	0.018297	0.9854	0.999883
gene151	gene151	SACOL0157	gi 57650036 ref NC_002951.2 :174716-175229	MVR	M36C05	OK	21.6096	17.9921	-0.264304	0.385948	0.69954	0.999883
gene1510	gene1510	SACOL1543	gi 57650036 ref NC_002951.2 :1579728-1580637	MVR	M36C05	OK	74.8652	87.2665	0.221133	-0.286832	0.77424	0.999883
gene1511	gene1511	SACOL1544	gi 57650036 ref NC_002951.2 :1580852-1581101	MVR	M36C05	OK	10.3737	18.2046	0.811375	-0.912529	0.36149	0.999883
gene1512	gene1512	SACOL1545	gi 57650036 ref NC_002951.2 :1581116-1581872	MVR	M36C05	OK	9.01204	17.8585	0.986681	-1.43882	0.1502	0.752771
gene1513	gene1513	proC	gi 57650036 ref NC_002951.2 :1582013-1582829	MVR	M36C05	OK	94.621	75.0316	-0.334663	0.438691	0.66089	0.999883
gene1514	gene1514	SACOL1548	gi 57650036 ref NC_002951.2 :1582933-1583854	MVR	M36C05	OK	21.3096	14.2256	-0.583015	0.852485	0.39395	0.999883
gene1515	gene1515	zwf	gi 57650036 ref NC_002951.2 :1584166-1585651	MVR	M36C05	OK	100.692	227.749	1.17749	-1.32697	0.18452	0.834616
gene1516	gene1516	SACOL1550	gi 57650036 ref NC_002951.2 :1585853-1586747	MVR	M36C05	OK	41.3686	55.7815	0.431251	-0.591316	0.55431	0.999883
gene1517	gene1517	malA	gi 57650036 ref NC_002951.2 :1586829-1588479	MVR	M36C05	OK	15.7497	15.6589	-0.0083449	0.011862	0.99054	0.999883
gene1518	gene1518	malR	gi 57650036 ref NC_002951.2 :1588494-1589514	MVR	M36C05	OK	4.26099	4.97563	0.22369	-0.318292	0.75026	0.999883
gene1519	gene1519	SACOL1553	gi 57650036 ref NC_002951.2 :1589707-1590079	MVR	M36C05	OK	560.973	903.08	0.686922	-0.818266	0.41321	0.999883
gene152	gene152	SACOL0158	gi 57650036 ref NC_002951.2 :175570-178057	MVR	M36C05	OK	4.11941	4.03672	-0.0292532	0.039272	0.96867	0.999883
gene1520	gene1520	gnd	gi 57650036 ref NC_002951.2 :1590297-1591704	MVR	M36C05	OK	244.816	338.555	0.46769	-0.498293	0.61828	0.999883
gene1521	gene1521	SACOL1555	gi 57650036 ref NC_002951.2 :1591771-1592905	MVR	M36C05	OK	43.5072	132.449	1.60612	-2.01723	0.04367	0.40838
gene1522	gene1522	SACOL1556	gi 57650036 ref NC_002951.2 :1593167-1593347	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1523	gene1523	SACOL1557	gi 57650036 ref NC_002951.2 :1593473-1594454	MVR	M36C05	OK	60.0996	51.82	-0.213845	0.285203	0.77549	0.999883
gene1524	gene1524	SACOL1558	gi 57650036 ref NC_002951.2 :1594467-1594905	MVR	M36C05	OK	52.3292	54.2114	0.0509805	-0.074668	0.94048	0.999883
gene1525	gene1525	SACOL1559	gi 57650036 ref NC_002951.2 :1594977-1595076	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1526	gene1526	SACOL1560	gi 57650036 ref NC_002951.2 :1595255-1596530	MVR	M36C05	OK	72.5059	28.9196	-1.32605	1.73979	0.0819	0.569333
gene1527	gene1527	SACOL1561	gi 57650036 ref NC_002951.2 :1596542-1598518	MVR	M36C05	OK	58.0158	26.5844	-1.12587	0.980161	0.32701	0.999883
gene1528	gene1528	SACOL1562	gi 57650036 ref NC_002951.2 :1596542-1598518	MVR	M36C05	OK	56.6526	34.4869	-0.716095	0.662289	0.50779	0.999883
gene1529	gene1529	lpdA	gi 57650036 ref NC_002951.2 :1598533-1599955	MVR	M36C05	OK	47.745	32.1136	-0.572165	0.755256	0.4501	0.999883

gene153	gene153	SACOL0159	gi 57650036 ref NC_002951.2 :175570-178057	MVR	M36C05	OK	3.04298	1.37414	-1.14696	0.639068	0.52278	0.999883
gene1530	gene1530	recN	gi 57650036 ref NC_002951.2 :1600105-1601785	MVR	M36C05	OK	65.919	70.0785	0.0882775	-0.107115	0.9147	0.999883
gene1531	gene1531	argR	gi 57650036 ref NC_002951.2 :1601800-1602253	MVR	M36C05	OK	87.0869	105.546	0.277344	-0.393002	0.69432	0.999883
gene1532	gene1532	ispA	gi 57650036 ref NC_002951.2 :1602684-1605104	MVR	M36C05	OK	69.1381	57.8963	-0.256011	0.198348	0.84277	0.999883
gene1533	gene1533	xseB	gi 57650036 ref NC_002951.2 :1602684-1605104	MVR	M36C05	OK	69.6277	47.9601	-0.537827	0.107114	0.9147	0.999883
gene1534	gene1534	xseA	gi 57650036 ref NC_002951.2 :1602684-1605104	MVR	M36C05	OK	52.7617	50.0819	-0.0752023	0.068078	0.94572	0.999883
gene1535	gene1535	nusB	gi 57650036 ref NC_002951.2 :1605120-1605510	MVR	M36C05	OK	56.0861	79.081	0.495687	-0.724817	0.46857	0.999883
gene1536	gene1536	SACOL1570	gi 57650036 ref NC_002951.2 :1605569-1605932	MVR	M36C05	OK	66.7788	120.145	0.847317	-1.23047	0.21852	0.89416
gene1537	gene1537	accC	gi 57650036 ref NC_002951.2 :1605946-1607766	MVR	M36C05	OK	51.148	36.8092	-0.474609	0.553098	0.5802	0.999883
gene1538	gene1538	accB	gi 57650036 ref NC_002951.2 :1605946-1607766	MVR	M36C05	OK	54.1053	33.7382	-0.681389	0.37082	0.71077	0.999883
gene1539	gene1539	SACOL1573	gi 57650036 ref NC_002951.2 :1608120-1609141	MVR	M36C05	OK	48.2795	34.5183	-0.484051	0.66322	0.50719	0.999883
gene154	gene154	SACOL0160	gi 57650036 ref NC_002951.2 :178069-179101	MVR	M36C05	OK	2.75023	3.4459	0.325328	-0.446131	0.6555	0.999883
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	MVR	M36C05	OK	0	8.33297	1.79769e+30	1.79769e+	0.00606	0.121216
gene1541	gene1541	SACOL1575	gi 57650036 ref NC_002951.2 :1609646-1610237	MVR	M36C05	OK	1.91099	3.95278	1.04855	-1.23275	0.21767	0.89416
gene1542	gene1542	SACOL1576	gi 57650036 ref NC_002951.2 :1610243-1613127	MVR	M36C05	OK	2.77118	11.5865	2.06387	-1.73757	0.08229	0.571339
gene1543	gene1543	SACOL1577	gi 57650036 ref NC_002951.2 :1610243-1613127	MVR	M36C05	OK	3.60152	8.09206	1.1679	-1.34583	0.17836	0.821737
gene1544	gene1544	SACOL1578	gi 57650036 ref NC_002951.2 :1613131-1614490	MVR	M36C05	OK	1.49432	0.85602	-0.803762	0.994314	0.32007	0.999883
gene1545	gene1545	SACOL1579	gi 57650036 ref NC_002951.2 :1614543-1617039	MVR	M36C05	OK	3.19232	2.68771	-0.248224	0.363703	0.71608	0.999883
gene1546	gene1546	SACOL1580	gi 57650036 ref NC_002951.2 :1617073-1617457	MVR	M36C05	OK	1.77849	1.78576	0.00588165	-0.005064	0.99596	0.999883
gene1547	gene1547	SACOL1581	gi 57650036 ref NC_002951.2 :1617468-1617729	MVR	M36C05	OK	20.8076	10.1443	-1.03644	1.22179	0.22179	0.89416
gene1548	gene1548	SACOL1582	gi 57650036 ref NC_002951.2 :1617733-1618789	MVR	M36C05	OK	2.8115	1.6746	-0.747528	0.980303	0.32694	0.999883
gene1549	gene1549	SACOL1583	gi 57650036 ref NC_002951.2 :1618849-1619941	MVR	M36C05	OK	5.18775	4.20278	-0.303763	0.4353	0.66335	0.999883
gene155	gene155	SACOL0161	gi 57650036 ref NC_002951.2 :179317-179677	MVR	M36C05	OK	449.545	265.538	-0.759547	0.991345	0.32152	0.999883
gene1550	gene1550	SACOL1584	gi 57650036 ref NC_002951.2 :1620115-1620418	MVR	M36C05	OK	3.67309	1.99077	-0.883668	0.707612	0.47919	0.999883
gene1551	gene1551	SACOL1585	gi 57650036 ref NC_002951.2 :1620431-1620752	MVR	M36C05	OK	10.6605	5.22968	-1.02748	1.17276	0.24089	0.911371
gene1552	gene1552	SACOL1586	gi 57650036 ref NC_002951.2 :1620902-1621187	MVR	M36C05	OK	0.71369	1.15323	0.692314	-0.296183	0.76709	0.999883
gene1553	gene1553	efp	gi 57650036 ref NC_002951.2 :1621581-1622139	MVR	M36C05	OK	294.046	297.924	0.0189039	-0.022868	0.98176	0.999883
gene1554	gene1554	SACOL1588	gi 57650036 ref NC_002951.2 :1622164-1623226	MVR	M36C05	OK	56.4556	77.646	0.459794	-0.595953	0.55121	0.999883
gene1555	gene1555	SACOL1589	gi 57650036 ref NC_002951.2 :1623330-1623912	MVR	M36C05	OK	24.3229	30.9235	0.34639	-0.508545	0.61107	0.999883
gene1556	gene1556	SACOL1590	gi 57650036 ref NC_002951.2 :1623925-1624144	MVR	M36C05	OK	93.1691	57.5312	-0.695507	0.969384	0.33235	0.999883
gene1557	gene1557	SACOL1591	gi 57650036 ref NC_002951.2 :1624207-1625038	MVR	M36C05	OK	53.0776	47.5484	-0.158708	0.218925	0.82671	0.999883
gene1558	gene1558	SACOL1592	gi 57650036 ref NC_002951.2 :1625195-1625582	MVR	M36C05	OK	92.6991	64.4724	-0.523872	0.764182	0.44476	0.999883
gene1559	gene1559	SACOL1593	gi 57650036 ref NC_002951.2 :1625946-1628758	MVR	M36C05	OK	32.4036	22.0805	-0.553379	0.510658	0.60959	0.999883

gene156	gene156	SACOL0162	gi 57650036 ref NC_002951.2 :179849-180875	MVR	M36C05	OK	4.44787	7.20892	0.696669	-1.00275	0.31598	0.999465
gene1560	gene1560	SACOL1594	gi 57650036 ref NC_002951.2 :1625946-1628758	MVR	M36C05	OK	32.1846	22.9702	-0.486607	0.429301	0.6677	0.999883
gene1561	gene1561	gcvT	gi 57650036 ref NC_002951.2 :1628777-1629869	MVR	M36C05	OK	20.3467	18.1709	-0.163171	0.236138	0.81333	0.999883
gene1562	gene1562	aroK	gi 57650036 ref NC_002951.2 :1630027-1630552	MVR	M36C05	OK	27.7385	28.1999	0.0238003	-0.034998	0.97208	0.999883
gene1563	gene1563	SACOL1597	gi 57650036 ref NC_002951.2 :1630784-1631282	MVR	M36C05	NOTEST	0.42579	0.74108	0.79948	-0.483704	0.6286	1
gene1564	gene1564	SACOL1598	gi 57650036 ref NC_002951.2 :1631485-1632221	MVR	M36C05	NOTEST	0.26054	0	-1.79769e+3(-1.79769e+0.27986			1
gene1565	gene1565	comGC	gi 57650036 ref NC_002951.2 :1631485-1632221	MVR	M36C05	OK	0.57026	1.85983	1.70548	-0.626414	0.53104	0.999883
gene1566	gene1566	SACOL1600	gi 57650036 ref NC_002951.2 :1632234-1634251	MVR	M36C05	OK	1.86417	1.26595	-0.558316	0.528305	0.59729	0.999883
gene1567	gene1567	SACOL1601	gi 57650036 ref NC_002951.2 :1632234-1634251	MVR	M36C05	OK	1.79091	1.99211	0.1536	-0.151751	0.87938	0.999883
gene1568	gene1568	SACOL1602	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	M36C05	OK	68.2459	34.6234	-0.978992	0.528887	0.59688	0.999883
gene1569	gene1569	SACOL1603	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	M36C05	OK	57.964	43.4238	-0.416672	0.125911	0.8998	0.999883
gene157	gene157	SACOL0163	gi 57650036 ref NC_002951.2 :181260-182511	MVR	M36C05	OK	24.6004	21.7134	-0.180098	0.254661	0.79899	0.999883
gene1570	gene1570	glk	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	M36C05	OK	50.1236	37.6926	-0.411207	0.288267	0.77314	0.999883
gene1571	gene1571	SACOL1605	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	M36C05	OK	10.3584	13.1331	0.342406	-0.023766	0.98104	0.999883
gene1572	gene1572	SACOL1606	gi 57650036 ref NC_002951.2 :1634302-1637882	MVR	M36C05	OK	37.7798	26.6854	-0.501563	0.382501	0.70209	0.999883
gene1573	gene1573	SACOL1607	gi 57650036 ref NC_002951.2 :1637893-1638433	MVR	M36C05	OK	41.2173	36.6976	-0.167567	0.245105	0.80638	0.999883
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	MVR	M36C05	OK	2264.82	474.778	-2.25407	3.21493	0.0013	0.0416986
gene1575	gene1575	pbp3	gi 57650036 ref NC_002951.2 :1638903-1640979	MVR	M36C05	OK	87.0716	86.5313	-0.0089797	0.010306	0.99178	0.999883
gene1576	gene1576	sodA2	gi 57650036 ref NC_002951.2 :1641099-1641699	MVR	M36C05	OK	128.244	307.438	1.26141	-1.57112	0.11616	0.673572
gene1577	gene1577	SACOL1611	gi 57650036 ref NC_002951.2 :1641974-1643235	MVR	M36C05	OK	26.2032	11.9947	-1.12734	0.953719	0.34023	0.999883
gene1578	gene1578	SACOL1612	gi 57650036 ref NC_002951.2 :1641974-1643235	MVR	M36C05	OK	14.3443	8.13945	-0.817472	0.97477	0.32967	0.999883
gene1579	gene1579	SACOL1613	gi 57650036 ref NC_002951.2 :1643276-1644062	MVR	M36C05	OK	21.0159	13.1778	-0.673374	0.988187	0.32306	0.999883
gene158	gene158	SACOL0164	gi 57650036 ref NC_002951.2 :182957-190133	MVR	M36C05	OK	20.8002	16.0294	-0.375873	0.443125	0.65768	0.999883
gene1580	gene1580	nfo	gi 57650036 ref NC_002951.2 :1644187-1645078	MVR	M36C05	OK	73.7287	32.4013	-1.18617	1.6203	0.10517	0.651623
gene1581	gene1581	SACOL1615	gi 57650036 ref NC_002951.2 :1645087-1646434	MVR	M36C05	OK	52.5473	29.5056	-0.832626	1.10531	0.26903	0.952424
gene1582	gene1582	SACOL1616	gi 57650036 ref NC_002951.2 :1646547-1647648	MVR	M36C05	OK	43.1433	50.9082	0.238759	-0.319406	0.74942	0.999883
gene1583	gene1583	SACOL1617	gi 57650036 ref NC_002951.2 :1647650-1648328	MVR	M36C05	OK	22.0202	46.8656	1.0897	-1.57522	0.11521	0.671711
gene1584	gene1584	rpoD	gi 57650036 ref NC_002951.2 :1648458-1649565	MVR	M36C05	OK	101.728	173.473	0.769997	-0.914872	0.36026	0.999883
gene1585	gene1585	dnaG	gi 57650036 ref NC_002951.2 :1649788-1651588	MVR	M36C05	OK	74.1867	57.9314	-0.356816	0.430694	0.66669	0.999883
gene1586	gene1586	SACOL1620	gi 57650036 ref NC_002951.2 :1651648-1652467	MVR	M36C05	OK	48.9392	54.3522	0.151347	-0.208606	0.83476	0.999883
gene1587	gene1587	SACOL1621	gi 57650036 ref NC_002951.2 :1652477-1653017	MVR	M36C05	OK	16.6348	15.2636	-0.12411	0.180332	0.85689	0.999883
gene1588	gene1588	glyS	gi 57650036 ref NC_002951.2 :1653435-1654827	MVR	M36C05	OK	394.572	446.672	0.178926	-0.185504	0.85283	0.999883
gene1589	gene1589	SACOL1623	gi 57650036 ref NC_002951.2 :1654976-1655729	MVR	M36C05	OK	79.9102	50.4749	-0.662815	0.904209	0.36589	0.999883

gene159	gene159	SACOL0165	gi 57650036 ref NC_002951.2 :190145-190790	MVR	M36C05	OK	36.6582	32.4904	-0.174121	0.253336	0.80001	0.999883
gene1590	gene1590	era	gi 57650036 ref NC_002951.2 :1655750-1656650	MVR	M36C05	OK	62.6269	56.2481	-0.154976	0.207749	0.83543	0.999883
gene1591	gene1591	cdd	gi 57650036 ref NC_002951.2 :1656650-1657055	MVR	M36C05	OK	38.1365	44.5186	0.223237	-0.327908	0.74298	0.999883
gene1592	gene1592	dgkA	gi 57650036 ref NC_002951.2 :1657065-1657410	MVR	M36C05	OK	53.2327	66.16	0.313647	-0.460528	0.64514	0.999883
gene1593	gene1593	SACOL1627	gi 57650036 ref NC_002951.2 :1657412-1657880	MVR	M36C05	OK	86.862	124.8	0.522825	-0.730728	0.46495	0.999883
gene1594	gene1594	SACOL1628	gi 57650036 ref NC_002951.2 :1657880-1658801	MVR	M36C05	OK	56.7137	130.937	1.2071	-1.54375	0.12265	0.695963
gene1595	gene1595	SACOL1629	gi 57650036 ref NC_002951.2 :1659131-1659830	MVR	M36C05	OK	365.435	459.513	0.330491	-0.371091	0.71057	0.999883
gene1596	gene1596	SACOL1630	gi 57650036 ref NC_002951.2 :1659846-1660836	MVR	M36C05	OK	277.043	409.832	0.564922	-0.617235	0.53708	0.999883
gene1597	gene1597	SACOL1631	gi 57650036 ref NC_002951.2 :1660853-1661561	MVR	M36C05	OK	270.946	338.627	0.321694	-0.372228	0.70972	0.999883
gene1598	gene1598	rpsU	gi 57650036 ref NC_002951.2 :1661780-1661957	MVR	M36C05	OK	11432.7	8648.61	-0.402627	0.462699	0.64358	0.999883
gene1599	gene1599	SACOL1633	gi 57650036 ref NC_002951.2 :1662249-1663596	MVR	M36C05	OK	50.6204	36.3294	-0.478581	0.630037	0.52867	0.999883
gene16	gene16	SACOL0017	gi 57650036 ref NC_002951.2 :22262-22355	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene160	gene160	SACOL0166	gi 57650036 ref NC_002951.2 :191117-191612	MVR	M36C05	OK	49.7165	121.648	1.29092	-1.81624	0.06933	0.522414
gene1600	gene1600	SACOL1634	gi 57650036 ref NC_002951.2 :1663602-1664355	MVR	M36C05	OK	34.042	25.7362	-0.403516	0.585182	0.55843	0.999883
gene1601	gene1601	prmA	gi 57650036 ref NC_002951.2 :1664356-1665295	MVR	M36C05	OK	80.2308	49.2469	-0.704123	0.932847	0.3509	0.999883
gene1602	gene1602	dnaJ	gi 57650036 ref NC_002951.2 :1665298-1666438	MVR	M36C05	OK	54.7142	45.5099	-0.265737	0.351716	0.72505	0.999883
gene1603	gene1603	dnaK	gi 57650036 ref NC_002951.2 :1666573-1668406	MVR	M36C05	OK	449.442	285.825	-0.653004	0.673449	0.50066	0.999883
gene1604	gene1604	grpE	gi 57650036 ref NC_002951.2 :1668474-1669101	MVR	M36C05	OK	195.383	112.186	-0.800407	1.02651	0.30465	0.990021
gene1605	gene1605	hrcA	gi 57650036 ref NC_002951.2 :1669132-1670110	MVR	M36C05	OK	166.745	89.8657	-0.891805	1.08904	0.27613	0.961224
gene1606	gene1606	SACOL1640	gi 57650036 ref NC_002951.2 :1670209-1671367	MVR	M36C05	OK	6.63707	3.33754	-0.991761	1.42152	0.15517	0.769852
gene1607	gene1607	lepA	gi 57650036 ref NC_002951.2 :1671896-1673720	MVR	M36C05	OK	28.0014	17.1021	-0.711326	0.96759	0.33325	0.999883
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	MVR	M36C05	OK	900.018	311.748	-1.52958	2.08479	0.03709	0.369812
gene1609	gene1609	holA	gi 57650036 ref NC_002951.2 :1674361-1675336	MVR	M36C05	OK	17.2862	6.11861	-1.49834	2.17847	0.02937	0.325512
gene161	gene161	argB	gi 57650036 ref NC_002951.2 :191866-192631	MVR	M36C05	OK	1.51306	1.36683	-0.146631	0.164784	0.86911	0.999883
gene1610	gene1610	SACOL1644	gi 57650036 ref NC_002951.2 :1675392-1677540	MVR	M36C05	OK	2.97923	6.16643	1.0495	-1.53417	0.12499	0.700644
gene1611	gene1611	SACOL1645	gi 57650036 ref NC_002951.2 :1677598-1678030	MVR	M36C05	OK	30.0952	52.2686	0.796412	-1.16599	0.24362	0.916835
gene1612	gene1612	comEA	gi 57650036 ref NC_002951.2 :1678151-1678838	MVR	M36C05	OK	5.93476	5.89137	-0.0105881	0.0147	0.98827	0.999883
gene1613	gene1613	SACOL1647	gi 57650036 ref NC_002951.2 :1678877-1679594	MVR	M36C05	OK	91.1975	51.4344	-0.826261	1.12599	0.26017	0.939875
gene1614	gene1614	SACOL1648	gi 57650036 ref NC_002951.2 :1679596-1679950	MVR	M36C05	OK	98.3024	109.758	0.159025	-0.231084	0.81725	0.999883
gene1615	gene1615	SACOL1649	gi 57650036 ref NC_002951.2 :1679950-1681094	MVR	M36C05	OK	47.1095	53.3353	0.179072	-0.18343	0.85446	0.999883
gene1616	gene1616	nadD	gi 57650036 ref NC_002951.2 :1679950-1681094	MVR	M36C05	OK	59.7842	19.3956	-1.62404	1.33049	0.18336	0.832468
gene1617	gene1617	SACOL1651	gi 57650036 ref NC_002951.2 :1681096-1681387	MVR	M36C05	OK	11.5057	5.47979	-1.07015	1.17292	0.24083	0.911371
gene1618	gene1618	aroE	gi 57650036 ref NC_002951.2 :1681390-1682197	MVR	M36C05	OK	37.5097	11.4491	-1.71203	2.47471	0.01333	0.198974

gene1619	gene1619	SACOL1653	gi 57650036 ref NC_002951.2 :1682210-1683311	MVR	M36C05	OK	29.6736	8.68865	-1.77197	2.54396	0.01096	0.176265
gene162	gene162	argJ	gi 57650036 ref NC_002951.2 :192646-193888	MVR	M36C05	OK	2.18305	1.69284	-0.366903	0.48818	0.62542	0.999883
gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	MVR	M36C05	OK	39.5676	14.1392	-1.48462	2.15924	0.03083	0.336036
gene1621	gene1621	mtn	gi 57650036 ref NC_002951.2 :1683858-1684545	MVR	M36C05	OK	19.3195	11.103	-0.799117	1.16894	0.24243	0.913772
gene1622	gene1622	SACOL1656	gi 57650036 ref NC_002951.2 :1684858-1685128	MVR	M36C05	OK	15.6452	9.26358	-0.756077	0.8769	0.38054	0.999883
gene1623	gene1623	SACOL1657	gi 57650036 ref NC_002951.2 :1685329-1686034	MVR	M36C05	OK	4.61887	3.71451	-0.314367	0.420179	0.67436	0.999883
gene1624	gene1624	SACOL1658	gi 57650036 ref NC_002951.2 :1686495-1687716	MVR	M36C05	OK	9.56132	16.413	0.779557	-1.13734	0.2554	0.93309
gene1625	gene1625	SACOL1659	gi 57650036 ref NC_002951.2 :1688004-1689234	MVR	M36C05	OK	37.8451	22.2635	-0.765427	1.05914	0.28954	0.975616
gene1626	gene1626	SACOL1660	gi 57650036 ref NC_002951.2 :1689246-1691360	MVR	M36C05	OK	33.3788	20.1501	-0.72815	0.518405	0.60418	0.999883
gene1627	gene1627	SACOL1661	gi 57650036 ref NC_002951.2 :1689246-1691360	MVR	M36C05	OK	35.2551	24.8554	-0.504273	0.558917	0.57622	0.999883
gene1628	gene1628	SACOL1662	gi 57650036 ref NC_002951.2 :1691373-1691823	MVR	M36C05	OK	19.5455	17.6532	-0.146904	0.211605	0.83242	0.999883
gene1629	gene1629	SACOL1663	gi 57650036 ref NC_002951.2 :1691824-1693559	MVR	M36C05	OK	24.595	24.2027	-0.0231966	0.027704	0.9779	0.999883
gene163	gene163	argC	gi 57650036 ref NC_002951.2 :193899-194931	MVR	M36C05	OK	1.95411	1.98802	0.0248189	-0.032077	0.97441	0.999883
gene1630	gene1630	SACOL1664	gi 57650036 ref NC_002951.2 :1691824-1693559	MVR	M36C05	OK	15.7896	12.1675	-0.37594	0.27341	0.78454	0.999883
gene1631	gene1631	greA	gi 57650036 ref NC_002951.2 :1693884-1694361	MVR	M36C05	OK	211.183	243.519	0.20554	-0.264693	0.79125	0.999883
gene1632	gene1632	udk	gi 57650036 ref NC_002951.2 :1694388-1696280	MVR	M36C05	OK	52.9015	57.2719	0.114518	-0.094694	0.92456	0.999883
gene1633	gene1633	SACOL1667	gi 57650036 ref NC_002951.2 :1694388-1696280	MVR	M36C05	OK	43.4846	17.1192	-1.34489	1.27968	0.20066	0.869538
gene1634	gene1634	SACOL1668	gi 57650036 ref NC_002951.2 :1696291-1697215	MVR	M36C05	OK	32.4957	13.8619	-1.22912	1.77545	0.07582	0.545462
gene1635	gene1635	SACOL1669	gi 57650036 ref NC_002951.2 :1697217-1697856	MVR	M36C05	OK	11.9733	5.0283	-1.25167	1.74924	0.08025	0.563304
gene1636	gene1636	SACOL1670	gi 57650036 ref NC_002951.2 :1698140-1698449	MVR	M36C05	OK	1320.87	2377.21	0.847777	-0.956302	0.33892	0.999883
gene1637	gene1637	SACOL1671	gi 57650036 ref NC_002951.2 :1698463-1698892	MVR	M36C05	OK	256.854	671.415	1.38626	-1.69504	0.09007	0.602417
gene1638	gene1638	SACOL1672	gi 57650036 ref NC_002951.2 :1698895-1699156	MVR	M36C05	OK	330.208	833.282	1.33543	-1.80054	0.07177	0.526806
gene1639	gene1639	alaS	gi 57650036 ref NC_002951.2 :1699218-1701849	MVR	M36C05	OK	68.2365	48.8643	-0.481762	0.561954	0.57415	0.999883
gene164	gene164	rocD1	gi 57650036 ref NC_002951.2 :194969-196154	MVR	M36C05	OK	3.10361	1.56702	-0.985923	1.31744	0.18769	0.844299
gene1640	gene1640	SACOL1674	gi 57650036 ref NC_002951.2 :1702191-1704669	MVR	M36C05	OK	23.6924	17.6566	-0.424216	0.561361	0.57455	0.999883
gene1641	gene1641	SACOL1675	gi 57650036 ref NC_002951.2 :1704670-1705339	MVR	M36C05	OK	25.3554	14.5888	-0.79743	1.16958	0.24217	0.913772
gene1642	gene1642	mnmA	gi 57650036 ref NC_002951.2 :1705800-1706919	MVR	M36C05	OK	55.9323	62.0277	0.149231	-0.194686	0.84564	0.999883
gene1643	gene1643	SACOL1677	gi 57650036 ref NC_002951.2 :1706919-1708062	MVR	M36C05	OK	37.9904	51.3279	0.434106	-0.581581	0.56085	0.999883
gene1644	gene1644	SACOL1678	gi 57650036 ref NC_002951.2 :1708373-1709387	MVR	M36C05	OK	73.875	219.866	1.57346	-1.89828	0.05766	0.48127
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	MVR	M36C05	OK	149.794	2298.48	3.93963	-4.87708	1.08E-06	0.0001217
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	MVR	M36C05	OK	23.4188	348.89	3.89703	-4.38249	1.17E-05	0.000913
gene1647	gene1647	SACOL1681	gi 57650036 ref NC_002951.2 :1710091-1710514	MVR	M36C05	OK	143.02	206.01	0.526497	-0.714032	0.47521	0.999883
gene1648	gene1648	SACOL1682	gi 57650036 ref NC_002951.2 :1710598-1711873	MVR	M36C05	OK	79.3503	97.1166	0.291482	-0.356512	0.72146	0.999883

gene1649	gene1649	SACOL1683	gi 57650036 ref NC_002951.2 :1712033-1712807	MVR	M36C05	OK	26.0454	13.0693	-0.99485	1.45549	0.14553	0.743774
gene165	gene165	brnQ1	gi 57650036 ref NC_002951.2 :196406-197762	MVR	M36C05	OK	24.179	11.634	-1.05541	1.50685	0.13185	0.719601
gene1650	gene1650	aspS	gi 57650036 ref NC_002951.2 :1713267-1715034	MVR	M36C05	OK	33.1294	11.324	-1.54873	2.12559	0.03354	0.350737
gene1651	gene1651	hisS	gi 57650036 ref NC_002951.2 :1715049-1716312	MVR	M36C05	OK	18.4624	6.0152	-1.61791	2.34709	0.01892	0.250785
gene1652	gene1652	SACOL1687	gi 57650036 ref NC_002951.2 :1716772-1718097	MVR	M36C05	OK	47.6222	87.7794	0.882249	-0.878621	0.37961	0.999883
gene1653	gene1653	SACOL1688	gi 57650036 ref NC_002951.2 :1716772-1718097	MVR	M36C05	OK	61.6972	172.712	1.48509	-1.13492	0.25641	0.933885
gene1654	gene1654	relA2	gi 57650036 ref NC_002951.2 :1718108-1720298	MVR	M36C05	OK	53.641	105.939	0.98182	-1.1373	0.25541	0.93309
gene1655	gene1655	apt	gi 57650036 ref NC_002951.2 :1720725-1721244	MVR	M36C05	OK	37.4008	23.8844	-0.647001	0.950045	0.34209	0.999883
gene1656	gene1656	recJ	gi 57650036 ref NC_002951.2 :1721265-1723539	MVR	M36C05	OK	12.7253	11.2645	-0.175917	0.248137	0.80403	0.999883
gene1657	gene1657	SACOL1692	gi 57650036 ref NC_002951.2 :1723741-1726021	MVR	M36C05	OK	95.9294	66.8091	-0.521928	0.597572	0.55013	0.999883
gene1658	gene1658	yajC	gi 57650036 ref NC_002951.2 :1726295-1726556	MVR	M36C05	OK	464.101	289.837	-0.679195	0.953533	0.34032	0.999883
gene1659	gene1659	tgt	gi 57650036 ref NC_002951.2 :1726574-1727714	MVR	M36C05	OK	66.0146	13.9579	-2.2417	3.06277	0.00219	0.061515
gene166	gene166	entB	gi 57650036 ref NC_002951.2 :198037-198535	MVR	M36C05	OK	7.87711	24.4555	1.63442	-2.29481	0.02174	0.276559
gene1660	gene1660	queA	gi 57650036 ref NC_002951.2 :1727736-1728762	MVR	M36C05	OK	31.4997	11.6144	-1.43943	2.06984	0.03847	0.382368
gene1661	gene1661	ruvB	gi 57650036 ref NC_002951.2 :1728763-1729768	MVR	M36C05	OK	59.4514	37.8078	-0.653026	0.88278	0.37736	0.999883
gene1662	gene1662	ruvA	gi 57650036 ref NC_002951.2 :1729799-1730402	MVR	M36C05	OK	43.0271	24.1049	-0.835922	1.22022	0.22238	0.89416
gene1663	gene1663	SACOL1698	gi 57650036 ref NC_002951.2 :1730415-1730874	MVR	M36C05	OK	24.7572	18.3227	-0.434212	0.630829	0.52815	0.999883
gene1664	gene1664	obgE	gi 57650036 ref NC_002951.2 :1730883-1732176	MVR	M36C05	OK	64.9391	47.8084	-0.441824	0.568686	0.56957	0.999883
gene1665	gene1665	rpmA	gi 57650036 ref NC_002951.2 :1732530-1732815	MVR	M36C05	OK	1647.91	686.172	-1.26399	1.54196	0.12308	0.6962
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	MVR	M36C05	OK	173.233	65.371	-1.40599	2.04465	0.04089	0.394682
gene1667	gene1667	rplU	gi 57650036 ref NC_002951.2 :1733152-1733461	MVR	M36C05	OK	565.003	214.899	-1.3946	1.88227	0.0598	0.491837
gene1668	gene1668	SACOL1703	gi 57650036 ref NC_002951.2 :1733627-1735000	MVR	M36C05	OK	19.4017	12.343	-0.652487	0.451799	0.65141	0.999883
gene1669	gene1669	mreC	gi 57650036 ref NC_002951.2 :1733627-1735000	MVR	M36C05	OK	31.4562	20.4137	-0.623808	0.777619	0.43679	0.999883
gene167	gene167	ipdC	gi 57650036 ref NC_002951.2 :198661-200302	MVR	M36C05	OK	12.4652	26.9242	1.111	-1.54816	0.12158	0.692837
gene1670	gene1670	SACOL1705	gi 57650036 ref NC_002951.2 :1735392-1735866	MVR	M36C05	OK	27.0294	38.6788	0.517014	-0.758665	0.44805	0.999883
gene1671	gene1671	SACOL1706	gi 57650036 ref NC_002951.2 :1736339-1736624	MVR	M36C05	OK	268.347	124.549	-1.10739	1.59958	0.10969	0.659073
gene1672	gene1672	radC	gi 57650036 ref NC_002951.2 :1736691-1738082	MVR	M36C05	OK	5.3034	3.17227	-0.741401	0.737597	0.46076	0.999883
gene1673	gene1673	SACOL1708	gi 57650036 ref NC_002951.2 :1736691-1738082	MVR	M36C05	OK	5.19424	3.25812	-0.672872	0.685317	0.49314	0.999883
gene1674	gene1674	folC	gi 57650036 ref NC_002951.2 :1738351-1739623	MVR	M36C05	OK	47.9362	55.8416	0.220226	-0.286476	0.77451	0.999883
gene1675	gene1675	valS	gi 57650036 ref NC_002951.2 :1739635-1742266	MVR	M36C05	OK	58.9293	67.857	0.203513	-0.23499	0.81422	0.999883
gene1676	gene1676	SACOL1711	gi 57650036 ref NC_002951.2 :1742668-1743229	MVR	M36C05	OK	91.0209	103.681	0.187882	-0.256815	0.79732	0.999883
gene1677	gene1677	SACOL1712	gi 57650036 ref NC_002951.2 :1743451-1744525	MVR	M36C05	OK	33.987	65.0983	0.937638	-1.25695	0.20877	0.885625
gene1678	gene1678	hemL1	gi 57650036 ref NC_002951.2 :1744720-1746007	MVR	M36C05	OK	27.5087	20.9937	-0.389931	0.547433	0.58408	0.999883

gene1679	gene1679	hemB	gi 57650036 ref NC_002951.2 :1746054-1747029	MVR	M36C05	OK	18.7656	17.2175	-0.124219	0.18129	0.85614	0.999883
gene168	gene168	SACOL0174	gi 57650036 ref NC_002951.2 :200495-202621	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1680	gene1680	hemD	gi 57650036 ref NC_002951.2 :1747031-1747700	MVR	M36C05	OK	8.01388	3.29425	-1.28255	1.72606	0.08434	0.577972
gene1681	gene1681	hemC	gi 57650036 ref NC_002951.2 :1747721-1748648	MVR	M36C05	OK	30.444	8.79856	-1.79082	2.58818	0.00965	0.163144
gene1682	gene1682	SACOL1718	gi 57650036 ref NC_002951.2 :1748689-1749505	MVR	M36C05	OK	26.964	17.7282	-0.604988	0.882914	0.37728	0.999883
gene1683	gene1683	hemA	gi 57650036 ref NC_002951.2 :1749526-1750873	MVR	M36C05	OK	240.707	288.617	0.261877	-0.282525	0.77754	0.999883
gene1684	gene1684	engB	gi 57650036 ref NC_002951.2 :1751089-1751680	MVR	M36C05	OK	11.3067	7.62321	-0.568707	0.804827	0.42092	0.999883
gene1685	gene1685	clpX	gi 57650036 ref NC_002951.2 :1751833-1753096	MVR	M36C05	OK	271.082	219.555	-0.304149	0.333069	0.73908	0.999883
gene1686	gene1686	tig	gi 57650036 ref NC_002951.2 :1753246-1754548	MVR	M36C05	OK	386.817	199.474	-0.955448	1.03038	0.30283	0.987655
gene1687	gene1687	SACOL1723	gi 57650036 ref NC_002951.2 :1754710-1755640	MVR	M36C05	OK	24.6824	21.7548	-0.182149	0.263803	0.79193	0.999883
gene1688	gene1688	SACOL1724	gi 57650036 ref NC_002951.2 :1755658-1756267	MVR	M36C05	OK	30.2123	26.4495	-0.191894	0.281534	0.7783	0.999883
gene1689	gene1689	rplT	gi 57650036 ref NC_002951.2 :1756408-1756765	MVR	M36C05	OK	395.003	64.9686	-2.60405	3.58521	0.00034	0.0147724
gene169	gene169	SACOL0175	gi 57650036 ref NC_002951.2 :200495-202621	MVR	M36C05	OK	11.7814	11.4027	-0.0471349	0.067312	0.94633	0.999883
gene1690	gene1690	rpmI	gi 57650036 ref NC_002951.2 :1756811-1757012	MVR	M36C05	OK	96.8904	31.4399	-1.62376	2.05746	0.03964	0.387684
gene1691	gene1691	infC	gi 57650036 ref NC_002951.2 :1757040-1757568	MVR	M36C05	OK	124.081	33.3282	-1.89647	2.66651	0.00766	0.141495
gene1692	gene1692	SACOL1728	gi 57650036 ref NC_002951.2 :1757796-1759290	MVR	M36C05	OK	14.6445	52.8993	1.85289	-2.49578	0.01257	0.192701
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	MVR	M36C05	OK	140.831	25.2379	-2.48031	2.97637	0.00292	0.0762067
gene1694	gene1694	dnaI	gi 57650036 ref NC_002951.2 :1762065-1764386	MVR	M36C05	OK	102.185	87.0361	-0.231502	0.182173	0.85545	0.999883
gene1695	gene1695	SACOL1732	gi 57650036 ref NC_002951.2 :1762065-1764386	MVR	M36C05	OK	60.4228	70.8581	0.22984	-0.195267	0.84518	0.999883
gene1696	gene1696	nrdR	gi 57650036 ref NC_002951.2 :1764386-1764857	MVR	M36C05	OK	153.97	177.195	0.202684	-0.270414	0.78684	0.999883
gene1697	gene1697	gapA2	gi 57650036 ref NC_002951.2 :1765066-1766092	MVR	M36C05	OK	506.911	524.249	0.0485185	-0.050819	0.95947	0.999883
gene1698	gene1698	coaE	gi 57650036 ref NC_002951.2 :1766261-1766885	MVR	M36C05	OK	61.3774	52.3257	-0.23019	0.326286	0.74421	0.999883
gene1699	gene1699	fpg	gi 57650036 ref NC_002951.2 :1766900-1767773	MVR	M36C05	OK	36.3997	41.1356	0.176461	-0.24808	0.80407	0.999883
gene17	gene17	purA	gi 57650036 ref NC_002951.2 :22464-23748	MVR	M36C05	OK	32.5521	5.18668	-2.64987	3.73275	0.00019	0.0095853
gene170	gene170	SACOL0176	gi 57650036 ref NC_002951.2 :203206-205158	MVR	M36C05	OK	14.5495	14.8137	0.0259639	-0.029651	0.97635	0.999883
gene1700	gene1700	polA	gi 57650036 ref NC_002951.2 :1767788-1770419	MVR	M36C05	OK	49.2333	65.9079	0.420817	-0.491607	0.623	0.999883
gene1701	gene1701	SACOL1738	gi 57650036 ref NC_002951.2 :1770712-1772200	MVR	M36C05	OK	7.17192	3.1665	-1.17947	1.71183	0.08693	0.59079
gene1702	gene1702	SACOL1739	gi 57650036 ref NC_002951.2 :1772698-1775064	MVR	M36C05	OK	81.1355	44.765	-0.857963	0.824208	0.40982	0.999883
gene1703	gene1703	phoP	gi 57650036 ref NC_002951.2 :1772698-1775064	MVR	M36C05	OK	97.604	78.0047	-0.323379	0.215824	0.82913	0.999883
gene1704	gene1704	icd	gi 57650036 ref NC_002951.2 :1775453-1776722	MVR	M36C05	OK	867.062	1702.54	0.973479	-1.00372	0.31551	0.999465
gene1705	gene1705	gltA	gi 57650036 ref NC_002951.2 :1776770-1777892	MVR	M36C05	OK	567.028	912.557	0.686494	-0.705439	0.48054	0.999883
gene1706	gene1706	SACOL1743	gi 57650036 ref NC_002951.2 :1778239-1779601	MVR	M36C05	OK	188.456	225.975	0.261942	-0.289032	0.77256	0.999883
gene1707	gene1707	SACOL1744	gi 57650036 ref NC_002951.2 :1779633-1781285	MVR	M36C05	NOTEST	0.69628	0.835	0.262118	-0.315793	0.75216	1

gene1708	gene1708	pyk	gi 57650036 ref NC_002951.2 :1781925-1783683	MVR	M36C05	OK	120.484	112.48	-0.0991774	0.112545	0.91039	0.999883
gene1709	gene1709	pfkA	gi 57650036 ref NC_002951.2 :1783704-1784673	MVR	M36C05	OK	44.1913	56.3581	0.350859	-0.474133	0.63541	0.999883
gene171	gene171	murQ	gi 57650036 ref NC_002951.2 :203206-205158	MVR	M36C05	OK	12.9752	7.87789	-0.719873	0.6137	0.53941	0.999883
gene1710	gene1710	accA	gi 57650036 ref NC_002951.2 :1784941-1786743	MVR	M36C05	OK	51.7446	26.3493	-0.973643	0.939887	0.34728	0.999883
gene1711	gene1711	accD	gi 57650036 ref NC_002951.2 :1784941-1786743	MVR	M36C05	OK	48.6047	25.8147	-0.912904	0.809642	0.41815	0.999883
gene1712	gene1712	SACOL1749	gi 57650036 ref NC_002951.2 :1786937-1788167	MVR	M36C05	OK	40.7518	23.6549	-0.784721	1.07878	0.28069	0.965951
gene1713	gene1713	dnaE	gi 57650036 ref NC_002951.2 :1788616-1791814	MVR	M36C05	OK	52.5927	27.8958	-0.914814	1.09168	0.27498	0.960416
gene1714	gene1714	SACOL1751	gi 57650036 ref NC_002951.2 :1791834-1792776	MVR	M36C05	OK	59.535	37.1573	-0.680092	0.927748	0.35354	0.999883
gene1715	gene1715	SACOL1752	gi 57650036 ref NC_002951.2 :1793036-1794335	MVR	M36C05	OK	33.186	36.513	0.137834	-0.186243	0.85225	0.999883
gene1716	gene1716	SACOL1753	gi 57650036 ref NC_002951.2 :1794539-1794953	MVR	M36C05	OK	547.266	361.602	-0.597841	0.733914	0.463	0.999883
gene1717	gene1717	SACOL1754	gi 57650036 ref NC_002951.2 :1795257-1795946	MVR	M36C05	OK	64.7503	237.171	1.87297	-2.39213	0.01675	0.231351
gene1718	gene1718	pepQ	gi 57650036 ref NC_002951.2 :1796120-1797176	MVR	M36C05	OK	32.0511	42.7666	0.41611	-0.573328	0.56642	0.999883
gene1719	gene1719	SACOL1757	gi 57650036 ref NC_002951.2 :1797269-1797368	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene172	gene172	SACOL0178	gi 57650036 ref NC_002951.2 :205169-206624	MVR	M36C05	OK	23.4702	16.6005	-0.499608	0.704226	0.48129	0.999883
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	MVR	M36C05	OK	305.929	75.3451	-2.02161	2.36073	0.01824	0.244437
gene1721	gene1721	SACOL1759	gi 57650036 ref NC_002951.2 :1798750-1799251	MVR	M36C05	OK	935.132	1668.79	0.835559	-0.888719	0.37415	0.999883
gene1722	gene1722	ackA	gi 57650036 ref NC_002951.2 :1799496-1800699	MVR	M36C05	OK	166.844	157.845	-0.0799966	0.091869	0.9268	0.999883
gene1723	gene1723	SACOL1761	gi 57650036 ref NC_002951.2 :1800786-1801734	MVR	M36C05	OK	85.13	202.134	1.24757	-1.51633	0.12944	0.7118
gene1724	gene1724	tpx	gi 57650036 ref NC_002951.2 :1801856-1802351	MVR	M36C05	OK	684.409	973.56	0.508411	-0.562481	0.57379	0.999883
gene1725	gene1725	SACOL1763	gi 57650036 ref NC_002951.2 :1802448-1803219	MVR	M36C05	OK	14.9647	4.83017	-1.63142	2.32658	0.01999	0.260836
gene1726	gene1726	thiI	gi 57650036 ref NC_002951.2 :1803262-1805625	MVR	M36C05	OK	10.8193	5.59851	-0.950487	1.06461	0.28705	0.975303
gene1727	gene1727	SACOL1765	gi 57650036 ref NC_002951.2 :1803262-1805625	MVR	M36C05	OK	8.68277	3.87068	-1.16557	1.07969	0.28028	0.965951
gene1728	gene1728	SACOL1766	gi 57650036 ref NC_002951.2 :1805782-1805923	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1729	gene1729	SACOL1767	gi 57650036 ref NC_002951.2 :1805996-1807691	MVR	M36C05	OK	126.915	130.05	0.0352034	-0.039713	0.96832	0.999883
gene173	gene173	SACOL0179	gi 57650036 ref NC_002951.2 :206626-207502	MVR	M36C05	OK	16.2328	11.0948	-0.549029	0.80639	0.42002	0.999883
gene1730	gene1730	SACOL1768	gi 57650036 ref NC_002951.2 :1807827-1808292	MVR	M36C05	OK	7.72933	9.99649	0.371078	-0.500828	0.61649	0.999883
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	MVR	M36C05	OK	373.056	66.8362	-2.48069	3.14066	0.00169	0.0508301
gene1732	gene1732	SACOL1770	gi 57650036 ref NC_002951.2 :1809353-1810097	MVR	M36C05	OK	2.58607	2.23092	-0.21312	0.264532	0.79137	0.999883
gene1733	gene1733	SACOL1771	gi 57650036 ref NC_002951.2 :1810176-1810623	MVR	M36C05	OK	16.4139	66.1029	2.0098	-2.88593	0.0039	0.0922789
gene1734	gene1734	SACOL1772	gi 57650036 ref NC_002951.2 :1810736-1813488	MVR	M36C05	OK	11.8586	51.3982	2.11579	-1.77418	0.07603	0.546428
gene1735	gene1735	serA	gi 57650036 ref NC_002951.2 :1810736-1813488	MVR	M36C05	OK	11.8583	44.2459	1.89964	-1.84841	0.06454	0.508201
gene1736	gene1736	SACOL1774	gi 57650036 ref NC_002951.2 :1813637-1814768	MVR	M36C05	OK	37.5257	46.8976	0.321635	-0.433732	0.66448	0.999883
gene1737	gene1737	SACOL1775	gi 57650036 ref NC_002951.2 :1814874-1816341	MVR	M36C05	OK	29.3604	16.5301	-0.828776	1.1533	0.24879	0.922459

gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	MVR	M36C05	OK	48.3649	14.2598	-1.762	2.55379	0.01066	0.173684
gene1739	gene1739	SACOL1777	gi 57650036 ref NC_002951.2 :1817257-1818532	MVR	M36C05	OK	29.3251	51.9938	0.826202	-1.10528	0.26904	0.952424
gene174	gene174	SACOL0180	gi 57650036 ref NC_002951.2 :208189-210979	MVR	M36C05	OK	16.025	8.29628	-0.949785	1.31179	0.18959	0.848649
gene1740	gene1740	tyrS	gi 57650036 ref NC_002951.2 :1818625-1819888	MVR	M36C05	OK	21.896	5.80778	-1.91461	2.75896	0.0058	0.118414
gene1741	gene1741	SACOL1779	gi 57650036 ref NC_002951.2 :1820269-1821175	MVR	M36C05	OK	18.7772	15.3093	-0.294573	0.431654	0.66599	0.999883
gene1742	gene1742	SACOL1781	gi 57650036 ref NC_002951.2 :1821377-1824065	MVR	M36C05	OK	6.10083	4.20753	-0.536031	0.783506	0.43333	0.999883
gene1743	gene1743	fhs	gi 57650036 ref NC_002951.2 :1824398-1826066	MVR	M36C05	OK	336.019	226.371	-0.569857	0.599789	0.54865	0.999883
gene1744	gene1744	acs	gi 57650036 ref NC_002951.2 :1826505-1828212	MVR	M36C05	OK	384.568	834.789	1.11817	-1.14875	0.25066	0.925525
gene1745	gene1745	acuA	gi 57650036 ref NC_002951.2 :1828380-1829013	MVR	M36C05	OK	63.0302	52.2556	-0.270458	0.382214	0.7023	0.999883
gene1746	gene1746	acuC	gi 57650036 ref NC_002951.2 :1829037-1830207	MVR	M36C05	OK	69.9182	51.4892	-0.4414	0.571047	0.56797	0.999883
gene1747	gene1747	ccpA	gi 57650036 ref NC_002951.2 :1830304-1831294	MVR	M36C05	OK	334.605	321.054	-0.0596429	0.065352	0.94789	0.999883
gene1748	gene1748	SACOL1787	gi 57650036 ref NC_002951.2 :1831833-1832925	MVR	M36C05	OK	66.3627	126.084	0.925935	-1.15032	0.25001	0.924551
gene1749	gene1749	SACOL1788	gi 57650036 ref NC_002951.2 :1833624-1835142	MVR	M36C05	OK	70.6896	361.875	2.35592	-2.64055	0.00828	0.148512
gene175	gene175	SACOL0181	gi 57650036 ref NC_002951.2 :211183-212026	MVR	M36C05	OK	51.1045	35.6811	-0.518292	0.724488	0.46877	0.999883
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	MVR	M36C05	OK	442.383	2228.77	2.33288	-2.56084	0.01044	0.17225
gene1751	gene1751	murC	gi 57650036 ref NC_002951.2 :1835780-1837094	MVR	M36C05	OK	84.8284	59.2763	-0.517091	0.64584	0.51838	0.999883
gene1752	gene1752	SACOL1791	gi 57650036 ref NC_002951.2 :1837117-1840942	MVR	M36C05	OK	46.7173	33.3127	-0.487884	0.567811	0.57016	0.999883
gene1753	gene1753	SACOL1792	gi 57650036 ref NC_002951.2 :1840962-1841559	MVR	M36C05	OK	23.034	19.4646	-0.242911	0.35708	0.72103	0.999883
gene1754	gene1754	SACOL1793	gi 57650036 ref NC_002951.2 :1841587-1842445	MVR	M36C05	OK	30.5278	19.6125	-0.638354	0.925314	0.3548	0.999883
gene1755	gene1755	SACOL1794	gi 57650036 ref NC_002951.2 :1842544-1842856	MVR	M36C05	OK	134.581	223.179	0.729723	-1.04325	0.29684	0.9791
gene1756	gene1756	pepA1	gi 57650036 ref NC_002951.2 :1842920-1843997	MVR	M36C05	OK	77.1274	92.5355	0.262763	-0.330951	0.74068	0.999883
gene1757	gene1757	SACOL1796	gi 57650036 ref NC_002951.2 :1844083-1844395	MVR	M36C05	OK	434.538	396.143	-0.133462	0.176846	0.85963	0.999883
gene1758	gene1758	SACOL1797	gi 57650036 ref NC_002951.2 :1844519-1845296	MVR	M36C05	OK	21.8864	30.5912	0.483079	-0.702627	0.48229	0.999883
gene1759	gene1759	trmB	gi 57650036 ref NC_002951.2 :1845831-1846476	MVR	M36C05	OK	130.525	73.6615	-0.825348	1.10187	0.27052	0.954062
gene176	gene176	SACOL0182	gi 57650036 ref NC_002951.2 :212027-214050	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1760	gene1760	SACOL1799	gi 57650036 ref NC_002951.2 :1846490-1847282	MVR	M36C05	OK	128.058	94.8487	-0.433099	0.553872	0.57967	0.999883
gene1761	gene1761	dat	gi 57650036 ref NC_002951.2 :1847831-1848680	MVR	M36C05	OK	115.262	144.462	0.325778	-0.404573	0.68579	0.999883
gene1762	gene1762	SACOL1801	gi 57650036 ref NC_002951.2 :1848683-1850093	MVR	M36C05	OK	62.2328	104.949	0.753948	-0.917388	0.35894	0.999883
gene1763	gene1763	SACOL1802	gi 57650036 ref NC_002951.2 :1851012-1851435	MVR	M36C05	OK	26.4529	226.759	3.09966	-4.27045	1.95E-05	0.0013978
gene1764	gene1764	SACOL1803	gi 57650036 ref NC_002951.2 :1851451-1853805	MVR	M36C05	OK	40.3801	15.3506	-1.39535	0.917693	0.35878	0.999883
gene1765	gene1765	SACOL1804	gi 57650036 ref NC_002951.2 :1851451-1853805	MVR	M36C05	OK	31.318	19.4506	-0.68718	0.778815	0.43609	0.999883
gene1766	gene1766	SACOL1805	gi 57650036 ref NC_002951.2 :1854211-1855480	MVR	M36C05	OK	19.4198	8.35336	-1.2171	1.76638	0.07733	0.552795
gene1767	gene1767	SACOL1806	gi 57650036 ref NC_002951.2 :1855596-1862157	MVR	M36C05	OK	3.06465	2.80577	-0.127323	0.183367	0.85451	0.999883

gene1768	gene1768	SACOL1807	gi 57650036 ref NC_002951.2 :1862482-1862794	MVR	M36C05	OK	20.5294	7.4393	-1.46445	1.80967	0.07035	0.522414
gene1769	gene1769	leuS	gi 57650036 ref NC_002951.2 :1862815-1865233	MVR	M36C05	OK	22.4474	11.1788	-1.00579	1.36828	0.17122	0.816303
gene177	gene177	SACOL0183	gi 57650036 ref NC_002951.2 :212027-214050	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1770	gene1770	SACOL1809	gi 57650036 ref NC_002951.2 :1865520-1866702	MVR	M36C05	OK	24.3572	8.30816	-1.55175	2.23946	0.02513	0.301055
gene1771	gene1771	SACOL1810	gi 57650036 ref NC_002951.2 :1866811-1868325	MVR	M36C05	OK	26.6749	52.3614	0.97302	-1.05493	0.29146	0.975616
gene1772	gene1772	SACOL1811	gi 57650036 ref NC_002951.2 :1866811-1868325	MVR	M36C05	OK	25.9494	61.8771	1.25371	-0.972539	0.33078	0.999883
gene1773	gene1773	rot	gi 57650036 ref NC_002951.2 :1868444-1868945	MVR	M36C05	OK	250.211	681.236	1.44501	-1.7149	0.08636	0.588521
gene1774	gene1774	SACOL1813	gi 57650036 ref NC_002951.2 :1869365-1870078	MVR	M36C05	OK	1.79343	2.79614	0.640716	-0.771497	0.44041	0.999883
gene1775	gene1775	SACOL1814	gi 57650036 ref NC_002951.2 :1870424-1871252	MVR	M36C05	OK	105.714	116.454	0.139586	-0.177223	0.85933	0.999883
gene1776	gene1776	SACOL1815	gi 57650036 ref NC_002951.2 :1871254-1871374	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1777	gene1777	putA	gi 57650036 ref NC_002951.2 :1871485-1872487	MVR	M36C05	OK	149.201	125.948	-0.244433	0.293677	0.76901	0.999883
gene1778	gene1778	ribH	gi 57650036 ref NC_002951.2 :1872608-1873073	MVR	M36C05	OK	4.83083	7.08085	0.551651	-0.699653	0.48414	0.999883
gene1779	gene1779	ribBA	gi 57650036 ref NC_002951.2 :1873085-1874267	MVR	M36C05	OK	5.55516	7.85907	0.50053	-0.731673	0.46437	0.999883
gene178	gene178	SACOL0184	gi 57650036 ref NC_002951.2 :214314-215907	MVR	M36C05	OK	9.74068	6.0136	-0.695793	1.01974	0.30785	0.991033
gene1780	gene1780	ribE	gi 57650036 ref NC_002951.2 :1874277-1874910	MVR	M36C05	OK	4.00192	5.60792	0.486774	-0.647125	0.51755	0.999883
gene1781	gene1781	ribD	gi 57650036 ref NC_002951.2 :1874916-1875960	MVR	M36C05	OK	5.56263	10.5825	0.927844	-1.3515	0.17654	0.821477
gene1782	gene1782	SACOL1821	gi 57650036 ref NC_002951.2 :1876440-1877943	MVR	M36C05	OK	3.56678	21.4872	2.59079	-3.67366	0.00024	0.0111637
gene1783	gene1783	arsR	gi 57650036 ref NC_002951.2 :1878465-1880072	MVR	M36C05	OK	19.5079	20.9241	0.101107	-0.072691	0.94205	0.999883
gene1784	gene1784	arsB	gi 57650036 ref NC_002951.2 :1878465-1880072	MVR	M36C05	OK	7.49508	5.64825	-0.408141	0.51957	0.60336	0.999883
gene1785	gene1785	arsC	gi 57650036 ref NC_002951.2 :1880089-1880485	MVR	M36C05	OK	10.6601	9.52357	-0.162644	0.21493	0.82982	0.999883
gene1786	gene1786	SACOL1825	gi 57650036 ref NC_002951.2 :1880779-1881634	MVR	M36C05	OK	219.529	233.061	0.0862954	-0.100201	0.92019	0.999883
gene1787	gene1787	SACOL1826	gi 57650036 ref NC_002951.2 :1881909-1882134	MVR	M36C05	OK	130.665	136.575	0.0638223	-0.093161	0.92578	0.999883
gene1788	gene1788	SACOL1827	gi 57650036 ref NC_002951.2 :1882332-1882803	MVR	M36C05	OK	5.42315	8.96158	0.724621	-0.946505	0.34389	0.999883
gene1789	gene1789	SACOL1828	gi 57650036 ref NC_002951.2 :1882915-1883789	MVR	M36C05	OK	17.4228	22.1518	0.346445	-0.255693	0.79819	0.999883
gene179	gene179	SACOL0185	gi 57650036 ref NC_002951.2 :216034-217342	MVR	M36C05	OK	5.34123	5.77071	0.111579	-0.163075	0.87046	0.999883
gene1790	gene1790	SACOL1829	gi 57650036 ref NC_002951.2 :1882915-1883789	MVR	M36C05	OK	43.2931	69.1679	0.675965	-0.835291	0.40355	0.999883
gene1791	gene1791	SACOL1830	gi 57650036 ref NC_002951.2 :1884084-1884720	MVR	M36C05	OK	4.25659	3.79722	-0.164754	0.214677	0.83002	0.999883
gene1792	gene1792	tal	gi 57650036 ref NC_002951.2 :1885159-1885873	MVR	M36C05	OK	267.272	1026.97	1.94202	-2.13086	0.0331	0.34869
gene1793	gene1793	crcB	gi 57650036 ref NC_002951.2 :1886612-1887406	MVR	M36C05	OK	5.01567	12.2061	1.28309	-1.27787	0.20129	0.870048
gene1794	gene1794	SACOL1833	gi 57650036 ref NC_002951.2 :1886612-1887406	MVR	M36C05	OK	11.0643	11.2572	0.0249324	-0.023679	0.98111	0.999883
gene1795	gene1795	SACOL1834	gi 57650036 ref NC_002951.2 :1887816-1889426	MVR	M36C05	NOTEST	0.37979	0.46903	0.304498	-0.317812	0.75063	1
gene1796	gene1796	SACOL1835	gi 57650036 ref NC_002951.2 :1889488-1890322	MVR	M36C05	OK	35.7543	65.7652	0.879206	-1.21281	0.2252	0.89446
gene1797	gene1797	SACOL1836	gi 57650036 ref NC_002951.2 :1890533-1891442	MVR	M36C05	OK	141.877	102.044	-0.475444	0.588952	0.55589	0.999883

gene1798	gene1798	metK	gi 57650036 ref NC_002951.2 :1891566-1892760	MVR	M36C05	OK	38.0434	14.3081	-1.41081	1.97991	0.04771	0.429484
gene1799	gene1799	pckA	gi 57650036 ref NC_002951.2 :1893130-1894723	MVR	M36C05	OK	504.593	397.927	-0.342618	0.351919	0.7249	0.999883
gene18	gene18	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :24177-24252	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene180	gene180	SACOL0186	gi 57650036 ref NC_002951.2 :217347-218511	MVR	M36C05	OK	2.98629	3.8886	0.380899	-0.535569	0.59226	0.999883
gene1800	gene1800	SACOL1839	gi 57650036 ref NC_002951.2 :1894858-1895344	MVR	M36C05	OK	103.914	219.28	1.07739	-1.43978	0.14993	0.752459
gene1801	gene1801	SACOL1840	gi 57650036 ref NC_002951.2 :1895718-1896949	MVR	M36C05	OK	10.3684	5.02338	-1.04546	1.19608	0.23167	0.902162
gene1802	gene1802	SACOL1841	gi 57650036 ref NC_002951.2 :1895718-1896949	MVR	M36C05	OK	11.3822	7.49176	-0.603407	0.540919	0.58856	0.999883
gene1803	gene1803	SACOL1842	gi 57650036 ref NC_002951.2 :1897008-1898264	MVR	M36C05	OK	634.836	611.902	-0.0530836	0.057128	0.95444	0.999883
gene1804	gene1804	SACOL1843	gi 57650036 ref NC_002951.2 :1897008-1898264	MVR	M36C05	OK	18.0395	28.3245	0.650897	-0.454587	0.64941	0.999883
gene1805	gene1805	SACOL1844	gi 57650036 ref NC_002951.2 :1898268-1899747	MVR	M36C05	OK	16.6836	28.8716	0.791221	-1.10035	0.27118	0.954536
gene1806	gene1806	SACOL1845	gi 57650036 ref NC_002951.2 :1899905-1900388	MVR	M36C05	OK	15.5285	7.80274	-0.992864	1.3796	0.16771	0.806453
gene1807	gene1807	SACOL1846	gi 57650036 ref NC_002951.2 :1900663-1901314	MVR	M36C05	OK	145.122	312.009	1.10432	-1.34778	0.17773	0.821737
gene1808	gene1808	SACOL1847	gi 57650036 ref NC_002951.2 :1901394-1902390	MVR	M36C05	OK	299.055	489.03	0.709513	-0.765447	0.44401	0.999883
gene1809	gene1809	SACOL1848	gi 57650036 ref NC_002951.2 :1902465-1903092	MVR	M36C05	OK	10.5887	3.36042	-1.65581	2.22564	0.02604	0.306341
gene181	gene181	SACOL0187	gi 57650036 ref NC_002951.2 :218527-220303	MVR	M36C05	OK	3.1656	2.23787	-0.500351	0.716972	0.47339	0.999883
gene1810	gene1810	SACOL1849	gi 57650036 ref NC_002951.2 :1903132-1903477	MVR	M36C05	OK	10.827	2.23011	-2.27944	2.34012	0.01928	0.25412
gene1811	gene1811	SACOL1850	gi 57650036 ref NC_002951.2 :1903574-1904126	MVR	M36C05	OK	12.4675	2.82307	-2.14284	2.76173	0.00575	0.118209
gene1812	gene1812	SACOL1851	gi 57650036 ref NC_002951.2 :1904343-1904985	MVR	M36C05	OK	6.4332	6.24263	-0.0433831	0.060045	0.95212	0.999883
gene1813	gene1813	SACOL1853	gi 57650036 ref NC_002951.2 :1905285-1905462	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1814	gene1814	SACOL1854	gi 57650036 ref NC_002951.2 :1905472-1905856	MVR	M36C05	OK	12.8051	21.4291	0.742847	-1.02843	0.30375	0.988652
gene1815	gene1815	SACOL1855	gi 57650036 ref NC_002951.2 :1905957-1906735	MVR	M36C05	OK	9.39313	16.0325	0.771325	-1.12734	0.2596	0.938894
gene1816	gene1816	SACOL1857	gi 57650036 ref NC_002951.2 :1907605-1907983	MVR	M36C05	OK	3.31212	5.52918	0.739311	-0.80455	0.42108	0.999883
gene1817	gene1817	SACOL1858	gi 57650036 ref NC_002951.2 :1908503-1909064	MVR	M36C05	OK	2.08048	6.11687	1.55588	-1.86799	0.06176	0.502797
gene1818	gene1818	SACOL1859	gi 57650036 ref NC_002951.2 :1909268-1912319	MVR	M36C05	OK	1.20007	1.19812	-0.0023428	0.003312	0.99736	0.999883
gene1819	gene1819	SACOL1860	gi 57650036 ref NC_002951.2 :1912385-1912616	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene182	gene182	ggt	gi 57650036 ref NC_002951.2 :220340-222347	MVR	M36C05	OK	3.37881	4.26924	0.337464	-0.494491	0.62096	0.999883
gene1820	gene1820	hsdS	gi 57650036 ref NC_002951.2 :1913465-1916214	MVR	M36C05	OK	6.65114	7.82774	0.234993	-0.179215	0.85777	0.999883
gene1821	gene1821	hsdM2	gi 57650036 ref NC_002951.2 :1913465-1916214	MVR	M36C05	OK	11.2322	14.6208	0.380383	-0.451449	0.65167	0.999883
gene1822	gene1822	SACOL1863	gi 57650036 ref NC_002951.2 :1916377-1916512	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1823	gene1823	SACOL1864	gi 57650036 ref NC_002951.2 :1916576-1917296	MVR	M36C05	OK	2.12176	1.27312	-0.736887	0.833304	0.40467	0.999883
gene1824	gene1824	SACOL1865	gi 57650036 ref NC_002951.2 :1917446-1918163	MVR	M36C05	NOTEST	0.71155	0.64026	-0.15231	0.136386	0.89152	1
gene1825	gene1825	SACOL1866	gi 57650036 ref NC_002951.2 :1918320-1919040	MVR	M36C05	OK	1.06088	0.63656	-0.736887	0.695997	0.48643	0.999883
gene1826	gene1826	splC	gi 57650036 ref NC_002951.2 :1919160-1919880	MVR	M36C05	OK	0.943	1.06094	0.170004	-0.170678	0.86448	0.999883

gene1827	gene1827	spIB	gi 57650036 ref NC_002951.2 :1919937-1920660	MVR	M36C05	OK	1.17167	1.89871	0.696455	-0.769828	0.4414	0.999883
gene1828	gene1828	spIA	gi 57650036 ref NC_002951.2 :1920784-1921501	MVR	M36C05	OK	2.01607	1.28052	-0.654811	0.736537	0.4614	0.999883
gene1829	gene1829	SACOL1870	gi 57650036 ref NC_002951.2 :1922464-1923031	MVR	M36C05	OK	1.87389	2.40669	0.361017	-0.399722	0.68936	0.999883
gene183	gene183	SACOL0189	gi 57650036 ref NC_002951.2 :222644-223418	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1830	gene1830	epiG	gi 57650036 ref NC_002951.2 :1923504-1925650	MVR	M36C05	OK	15.0162	161.648	3.42826	-2.21751	0.02659	0.309278
gene1831	gene1831	epiE	gi 57650036 ref NC_002951.2 :1923504-1925650	MVR	M36C05	OK	14.3455	148.014	3.36707	-2.22898	0.02582	0.304771
gene1832	gene1832	epiF	gi 57650036 ref NC_002951.2 :1923504-1925650	MVR	M36C05	OK	16.2054	280.457	4.11323	-3.18219	0.00146	0.0454837
gene1833	gene1833	epiP	gi 57650036 ref NC_002951.2 :1925672-1927046	MVR	M36C05	OK	4.9839	68.1696	3.77378	-5.05699	4.26E-07	5.82E-05
gene1834	gene1834	epiD	gi 57650036 ref NC_002951.2 :1927055-1927574	MVR	M36C05	OK	0.39578	2.0769	2.39168	-1.60645	0.10817	0.653986
gene1835	gene1835	epiC	gi 57650036 ref NC_002951.2 :1927589-1931820	MVR	M36C05	OK	0.91648	1.47698	0.688473	-0.628504	0.52967	0.999883
gene1836	gene1836	epiB	gi 57650036 ref NC_002951.2 :1927589-1931820	MVR	M36C05	NOTEST	0.42233	0.67044	0.666738	-0.678894	0.49721	1
gene1837	gene1837	epiA	gi 57650036 ref NC_002951.2 :1931884-1932028	MVR	M36C05	OK	0	74.8453	1.79769e+30	1.79769e+30	0.03514	0.35865
gene1838	gene1838	SACOL1879	gi 57650036 ref NC_002951.2 :1932919-1934239	MVR	M36C05	OK	1.01386	0.49214	-1.04272	1.15405	0.24848	0.922459
gene1839	gene1839	lukD	gi 57650036 ref NC_002951.2 :1934670-1935654	MVR	M36C05	OK	2.53915	3.51645	0.469774	-0.63679	0.52426	0.999883
gene184	gene184	acpD	gi 57650036 ref NC_002951.2 :223607-224234	MVR	M36C05	OK	39.4537	30.2438	-0.383522	0.558685	0.57638	0.999883
gene1840	gene1840	lukE	gi 57650036 ref NC_002951.2 :1935655-1936591	MVR	M36C05	OK	1.47833	2.09779	0.504906	-0.624551	0.53227	0.999883
gene1841	gene1841	SACOL1882	gi 57650036 ref NC_002951.2 :1937390-1937930	MVR	M36C05	OK	4.06628	6.49515	0.675651	-0.874067	0.38208	0.999883
gene1842	gene1842	SACOL1883	gi 57650036 ref NC_002951.2 :1937942-1938731	MVR	M36C05	OK	21.4218	32.2145	0.588631	-0.854503	0.39283	0.999883
gene1843	gene1843	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1939973-1940062	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1844	gene1844	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940116-1940188	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1845	gene1845	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940189-1940264	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1846	gene1846	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940278-1940352	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1847	gene1847	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940367-1940443	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1849	gene1849	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940545-1940621	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene185	gene185	SACOL0191	gi 57650036 ref NC_002951.2 :224442-225021	MVR	M36C05	OK	13.4985	32.3339	1.26025	-1.83442	0.06659	0.515441
gene1850	gene1850	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940642-1940716	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1851	gene1851	SACOL1885	gi 57650036 ref NC_002951.2 :1941187-1941742	MVR	M36C05	OK	9.00155	14.929	0.729868	-1.0397	0.29848	0.980522
gene1852	gene1852	SACOL1886	gi 57650036 ref NC_002951.2 :1941835-1942063	MVR	M36C05	OK	35.684	21.7698	-0.712947	0.885309	0.37599	0.999883
gene1853	gene1853	hemG	gi 57650036 ref NC_002951.2 :1942064-1943465	MVR	M36C05	OK	25.4909	22.0284	-0.210614	0.2934	0.76922	0.999883
gene1854	gene1854	hemH	gi 57650036 ref NC_002951.2 :1943488-1944412	MVR	M36C05	OK	27.0659	26.2005	-0.0468779	0.067454	0.94622	0.999883
gene1855	gene1855	hemE	gi 57650036 ref NC_002951.2 :1944469-1945607	MVR	M36C05	OK	16.308	21.9747	0.430264	-0.624287	0.53244	0.999883
gene1856	gene1856	SACOL1890	gi 57650036 ref NC_002951.2 :1944469-1945607	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1857	gene1857	SACOL1891	gi 57650036 ref NC_002951.2 :1945769-1946273	MVR	M36C05	OK	79.1857	161.637	1.02945	-1.40678	0.15949	0.779659

gene1858	gene1858	SACOL1892	gi 57650036 ref NC_002951.2 :1946396-1948353	MVR	M36C05	OK	65.091	60.6146	-0.102792	0.096248	0.92332	0.999883
gene1859	gene1859	SACOL1893	gi 57650036 ref NC_002951.2 :1946396-1948353	MVR	M36C05	OK	72.4907	84.8381	0.226917	-0.171532	0.86381	0.999883
gene186	gene186	SACOL0192	gi 57650036 ref NC_002951.2 :225403-226501	MVR	M36C05	OK	1.60586	2.57848	0.68317	-0.893664	0.3715	0.999883
gene1860	gene1860	SACOL1894	gi 57650036 ref NC_002951.2 :1948486-1948909	MVR	M36C05	OK	64.8242	72.1283	0.154033	-0.22429	0.82253	0.999883
gene1861	gene1861	SACOL1895	gi 57650036 ref NC_002951.2 :1949050-1949416	MVR	M36C05	OK	131.93	668.651	2.34148	-3.0438	0.00234	0.0650238
gene1862	gene1862	SACOL1896	gi 57650036 ref NC_002951.2 :1950148-1950706	MVR	M36C05	OK	5.07277	5.24297	0.0476104	-0.062457	0.9502	0.999883
gene1863	gene1863	SACOL1897	gi 57650036 ref NC_002951.2 :1950910-1951873	MVR	M36C05	OK	58.3186	50.8759	-0.196973	0.263997	0.79178	0.999883
gene1864	gene1864	cbf1	gi 57650036 ref NC_002951.2 :1951993-1957054	MVR	M36C05	OK	151.484	81.1515	-0.900479	0.43442	0.66398	0.999883
gene1865	gene1865	SACOL1899	gi 57650036 ref NC_002951.2 :1951993-1957054	MVR	M36C05	OK	91.9755	76.8147	-0.259867	0.212509	0.83171	0.999883
gene1866	gene1866	SACOL1900	gi 57650036 ref NC_002951.2 :1951993-1957054	MVR	M36C05	OK	66.3558	73.8687	0.15474	-0.068853	0.94511	0.999883
gene1867	gene1867	SACOL1902	gi 57650036 ref NC_002951.2 :1957825-1958170	MVR	M36C05	OK	640.597	242.339	-1.40239	1.81701	0.06922	0.522414
gene1868	gene1868	SACOL1903	gi 57650036 ref NC_002951.2 :1958238-1959363	MVR	M36C05	OK	22.8471	19.0716	-0.260586	0.374682	0.7079	0.999883
gene1869	gene1869	SACOL1904	gi 57650036 ref NC_002951.2 :1959541-1960006	MVR	M36C05	OK	73.9117	10.413	-2.82742	3.99696	6.42E-05	0.0039687
gene187	gene187	SACOL0193	gi 57650036 ref NC_002951.2 :226513-227785	MVR	M36C05	OK	2.06477	2.15962	0.0647957	-0.087682	0.93013	0.999883
gene1870	gene1870	SACOL1905	gi 57650036 ref NC_002951.2 :1960361-1960985	MVR	M36C05	OK	14.4675	8.85111	-0.70889	1.02182	0.30687	0.991033
gene1871	gene1871	SACOL1906	gi 57650036 ref NC_002951.2 :1961006-1962119	MVR	M36C05	OK	13.2222	9.54047	-0.470835	0.691264	0.4894	0.999883
gene1872	gene1872	SACOL1907	gi 57650036 ref NC_002951.2 :1962281-1963103	MVR	M36C05	OK	78.8097	32.6311	-1.27212	1.74738	0.08057	0.565013
gene1873	gene1873	fumC	gi 57650036 ref NC_002951.2 :1963565-1964951	MVR	M36C05	OK	196.744	104.1	-0.918345	1.05	0.29372	0.976946
gene1874	gene1874	SACOL1909	gi 57650036 ref NC_002951.2 :1965146-1965542	MVR	M36C05	OK	41.641	8.40315	-2.309	3.17432	0.0015	0.0464484
gene1875	gene1875	SACOL1910	gi 57650036 ref NC_002951.2 :1965660-1966023	MVR	M36C05	OK	0.80456	2.66989	1.7305	-1.13616	0.25589	0.933877
gene1876	gene1876	SACOL1911	gi 57650036 ref NC_002951.2 :1966318-1966471	MVR	M36C05	OK	698.883	2787.74	1.99597	-2.87035	0.0041	0.0948257
gene1877	gene1877	SACOL1912	gi 57650036 ref NC_002951.2 :1966495-1967095	MVR	M36C05	OK	105.859	692.978	2.71066	-3.23992	0.0012	0.0391064
gene1878	gene1878	SACOL1913	gi 57650036 ref NC_002951.2 :1967253-1967724	MVR	M36C05	OK	21.9284	15.8864	-0.465005	0.672691	0.50114	0.999883
gene1879	gene1879	SACOL1914	gi 57650036 ref NC_002951.2 :1967728-1968856	MVR	M36C05	OK	33.8335	23.4059	-0.53158	0.745947	0.4557	0.999883
gene188	gene188	SACOL0194	gi 57650036 ref NC_002951.2 :227787-229056	MVR	M36C05	OK	2.91017	3.50635	0.268866	-0.37956	0.70427	0.999883
gene1880	gene1880	SACOL1915	gi 57650036 ref NC_002951.2 :1969006-1971179	MVR	M36C05	OK	26.3969	14.1829	-0.896219	0.786827	0.43138	0.999883
gene1881	gene1881	SACOL1916	gi 57650036 ref NC_002951.2 :1969006-1971179	MVR	M36C05	OK	17.394	8.76235	-0.9892	1.07872	0.28071	0.965951
gene1882	gene1882	SACOL1917	gi 57650036 ref NC_002951.2 :1971436-1972498	MVR	M36C05	OK	49.4772	29.0373	-0.768856	1.05512	0.29137	0.975616
gene1883	gene1883	SACOL1918	gi 57650036 ref NC_002951.2 :1972990-1974310	MVR	M36C05	OK	1.01386	0.49214	-1.04272	1.15405	0.24848	0.922459
gene1884	gene1884	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974496-1974580	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1885	gene1885	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974796-1974871	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1886	gene1886	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974878-1974952	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1887	gene1887	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974957-1975029	MVR	M36C05	NOTEST	0	0	0	0	1	1

gene1888	gene1888	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975040-1975113	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1889	gene1889	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975115-1975189	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene189	gene189	SACOL0195 gi 57650036 ref NC_002951.2 :229057-229897	MVR	M36C05	OK	2.65784	3.27463	0.301075	-0.396797	0.69152	0.999883
gene1890	gene1890	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975204-1975285	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1891	gene1891	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975290-1975366	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1892	gene1892	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975373-1975446	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1893	gene1893	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975464-1975540	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1894	gene1894	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975549-1975623	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1896	gene1896	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975768-1975844	MVR	M36C05	OK	0	293622	1.79769e+30	1.79769e+30	0.14732	0.743774
gene1898	gene1898	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975953-1976027	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene19	gene19	SACOL_tRNA-gi 57650036 ref NC_002951.2 :24259-24332	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene190	gene190	SACOL0196 gi 57650036 ref NC_002951.2 :229970-231047	MVR	M36C05	OK	2.46808	2.2631	-0.125089	0.167298	0.86714	0.999883
gene1905	gene1905	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976595-1976677	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1906	gene1906	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976680-1976756	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1907	gene1907	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976761-1976837	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1908	gene1908	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976853-1976929	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1909	gene1909	rrfD gi 57650036 ref NC_002951.2 :1976940-1977055	MVR	M36C05	OK	776204	214973	-1.85228	2.14	0.03235	0.344846
gene191	gene191	SACOL0197 gi 57650036 ref NC_002951.2 :231071-232112	MVR	M36C05	OK	2.43364	2.75342	0.178107	-0.239656	0.8106	0.999883
gene1910	gene1910	rrlD gi 57650036 ref NC_002951.2 :1977127-1980050	MVR	M36C05	HIDATA	0	38501	0	0	1	1
gene1913	gene1913	rrsD gi 57650036 ref NC_002951.2 :1980523-1982078	MVR	M36C05	OK	10090.9	12425.8	0.300283	-0.416635	0.67695	0.999883
gene1914	gene1914	SACOL1919 gi 57650036 ref NC_002951.2 :1982817-1983264	MVR	M36C05	OK	805.323	1002.26	0.315622	-0.352291	0.72462	0.999883
gene1915	gene1915	SACOL1920 gi 57650036 ref NC_002951.2 :1983360-1984311	MVR	M36C05	OK	38.1263	87.0796	1.19155	-1.58706	0.1125	0.665508
gene1916	gene1916	bcp gi 57650036 ref NC_002951.2 :1984316-1984772	MVR	M36C05	OK	77.7159	178.031	1.19585	-1.65072	0.0988	0.634415
gene1917	gene1917	hemL2 gi 57650036 ref NC_002951.2 :1984852-1986142	MVR	M36C05	OK	88.4933	65.8418	-0.426565	0.529624	0.59637	0.999883
gene1918	gene1918	SACOL1923 gi 57650036 ref NC_002951.2 :1986434-1987529	MVR	M36C05	OK	40.0162	31.4151	-0.349126	0.481112	0.63044	0.999883
gene1919	gene1919	SACOL1924 gi 57650036 ref NC_002951.2 :1987719-1989456	MVR	M36C05	OK	20.2949	11.1149	-0.868623	1.22715	0.21977	0.89416
gene192	gene192	SACOL0198 gi 57650036 ref NC_002951.2 :232166-233135	MVR	M36C05	OK	2.90423	3.29831	0.183573	-0.249715	0.80281	0.999883
gene1920	gene1920	SACOL1925 gi 57650036 ref NC_002951.2 :1989746-1990289	MVR	M36C05	OK	58.41	24.1436	-1.27458	1.85454	0.06366	0.504626
gene1921	gene1921	mutY gi 57650036 ref NC_002951.2 :1990590-1991628	MVR	M36C05	OK	8.18991	9.07936	0.148743	-0.218258	0.82723	0.999883
gene1922	gene1922	SACOL1927 gi 57650036 ref NC_002951.2 :1991779-1992757	MVR	M36C05	OK	126.571	171.51	0.438343	-0.52403	0.60026	0.999883
gene1923	gene1923	SACOL1928 gi 57650036 ref NC_002951.2 :1993017-1993854	MVR	M36C05	OK	32.7178	20.4331	-0.679171	0.983231	0.32549	0.999883
gene1924	gene1924	SACOL1929 gi 57650036 ref NC_002951.2 :1993862-1995380	MVR	M36C05	OK	20.0227	21.0753	0.0739143	-0.10347	0.91759	0.999883
gene1925	gene1925	SACOL1930 gi 57650036 ref NC_002951.2 :1995394-1996505	MVR	M36C05	OK	31.2126	39.1189	0.325738	-0.245007	0.80645	0.999883

gene1926	gene1926	recX	gi 57650036 ref NC_002951.2 :1995394-1996505	MVR	M36C05	OK	12.8736	23.7011	0.880542	-1.09049	0.2755	0.961224
gene1927	gene1927	SACOL1932	gi 57650036 ref NC_002951.2 :1996765-1997575	MVR	M36C05	OK	70.6443	51.1768	-0.465083	0.631719	0.52757	0.999883
gene1928	gene1928	SACOL1933	gi 57650036 ref NC_002951.2 :1997915-1998431	MVR	M36C05	OK	58.1717	524.156	3.17161	-4.02727	5.64E-05	0.0035511
gene1929	gene1929	SACOL1934	gi 57650036 ref NC_002951.2 :1998561-1998723	MVR	M36C05	OK	12.8485	21.1514	0.719157	-0.435107	0.66349	0.999883
gene193	gene193	SACOL0199	gi 57650036 ref NC_002951.2 :233495-234068	MVR	M36C05	OK	3.85102	1.77594	-1.11666	1.28897	0.19741	0.861278
gene1930	gene1930	SACOL1935	gi 57650036 ref NC_002951.2 :1998946-2000098	MVR	M36C05	OK	13.2969	9.95997	-0.416879	0.611626	0.54079	0.999883
gene1931	gene1931	SACOL1936	gi 57650036 ref NC_002951.2 :2000357-2000888	MVR	M36C05	OK	89.0195	110.086	0.306443	-0.42185	0.67313	0.999883
gene1932	gene1932	pepS	gi 57650036 ref NC_002951.2 :2000977-2002234	MVR	M36C05	OK	40.9324	51.4197	0.329077	-0.433968	0.66431	0.999883
gene1933	gene1933	SACOL1938	gi 57650036 ref NC_002951.2 :2002236-2002443	MVR	M36C05	OK	17.584	21.6624	0.300932	-0.319515	0.74934	0.999883
gene1934	gene1934	SACOL1939	gi 57650036 ref NC_002951.2 :2002583-2003048	MVR	M36C05	OK	42.5113	812.631	4.25668	-5.34474	9.05E-08	1.56E-05
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	MVR	M36C05	OK	256.905	1030.1	2.00348	-2.64441	0.00818	0.14732
gene1936	gene1936	SACOL1941	gi 57650036 ref NC_002951.2 :2003607-2004825	MVR	M36C05	OK	11.7082	90.7543	2.95444	-3.92747	8.58E-05	0.0050509
gene1937	gene1937	vraR	gi 57650036 ref NC_002951.2 :2004940-2007301	MVR	M36C05	OK	28.2201	24.1286	-0.225981	0.167695	0.86682	0.999883
gene1938	gene1938	vraS	gi 57650036 ref NC_002951.2 :2004940-2007301	MVR	M36C05	OK	18.8274	20.1199	0.0957889	-0.086855	0.93079	0.999883
gene1939	gene1939	SACOL1944	gi 57650036 ref NC_002951.2 :2004940-2007301	MVR	M36C05	OK	16.5121	20.8818	0.338727	-0.229692	0.81833	0.999883
gene194	gene194	uhpT	gi 57650036 ref NC_002951.2 :234222-235602	MVR	M36C05	OK	9.05602	10.7433	0.246485	-0.361329	0.71785	0.999883
gene1940	gene1940	SACOL1945	gi 57650036 ref NC_002951.2 :2007315-2007702	MVR	M36C05	OK	9.095	6.44724	-0.496392	0.622451	0.53365	0.999883
gene1941	gene1941	SACOL1946	gi 57650036 ref NC_002951.2 :2007918-2008677	MVR	M36C05	OK	97.5933	105.983	0.118975	-0.154564	0.87717	0.999883
gene1942	gene1942	SACOL1947	gi 57650036 ref NC_002951.2 :2009204-2010191	MVR	M36C05	OK	9.0437	7.00607	-0.368309	0.53828	0.59038	0.999883
gene1943	gene1943	SACOL1948	gi 57650036 ref NC_002951.2 :2010621-2011035	MVR	M36C05	OK	3.64439	5.14369	0.497127	-0.569122	0.56927	0.999883
gene1944	gene1944	SACOL1949	gi 57650036 ref NC_002951.2 :2011063-2011174	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1945	gene1945	SACOL1950	gi 57650036 ref NC_002951.2 :2011259-2011991	MVR	M36C05	OK	69.4007	17.0063	-2.02889	2.86631	0.00415	0.0949445
gene1946	gene1946	SACOL1951	gi 57650036 ref NC_002951.2 :2011992-2013306	MVR	M36C05	OK	47.8065	21.9689	-1.12175	1.52225	0.12795	0.7083
gene1947	gene1947	SACOL1952	gi 57650036 ref NC_002951.2 :2013597-2014098	MVR	M36C05	OK	187.026	488.641	1.38553	-1.70078	0.08899	0.597944
gene1948	gene1948	SACOL1953	gi 57650036 ref NC_002951.2 :2014179-2014272	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1949	gene1949	SACOL1954	gi 57650036 ref NC_002951.2 :2014486-2015041	MVR	M36C05	OK	57.8923	45.7199	-0.340548	0.49174	0.6229	0.999883
gene195	gene195	SACOL0201	gi 57650036 ref NC_002951.2 :235960-239233	MVR	M36C05	OK	7.5408	3.94722	-0.933883	0.654737	0.51264	0.999883
gene1950	gene1950	dinP	gi 57650036 ref NC_002951.2 :2015108-2016179	MVR	M36C05	OK	22.0938	33.6741	0.607998	-0.85919	0.39024	0.999883
gene1951	gene1951	SACOL1956	gi 57650036 ref NC_002951.2 :2016425-2016956	MVR	M36C05	OK	65.2429	179.808	1.46256	-1.98369	0.04729	0.426221
gene1952	gene1952	SACOL1957	gi 57650036 ref NC_002951.2 :2017125-2018487	MVR	M36C05	OK	11.2549	9.86627	-0.189979	0.278234	0.78083	0.999883
gene1953	gene1953	SACOL1958	gi 57650036 ref NC_002951.2 :2018567-2019515	MVR	M36C05	OK	39.5766	40.6922	0.0401063	-0.055616	0.95565	0.999883
gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	MVR	M36C05	OK	112.259	36.9834	-1.60187	1.98807	0.0468	0.424995
gene1955	gene1955	gatA	gi 57650036 ref NC_002951.2 :2021723-2023181	MVR	M36C05	OK	61.5188	20.8544	-1.56068	2.06366	0.03905	0.38357

gene1956	gene1956	gatC	gi 57650036 ref NC_002951.2 :2023182-2023485	MVR	M36C05	OK	84.481	34.8385	-1.27795	1.85079	0.0642	0.507769
gene1957	gene1957	SACOL1963	gi 57650036 ref NC_002951.2 :2023852-2025391	MVR	M36C05	OK	124.445	116.482	-0.0953967	0.109632	0.9127	0.999883
gene1958	gene1958	camS	gi 57650036 ref NC_002951.2 :2025479-2026679	MVR	M36C05	OK	90.9588	61.4091	-0.56676	0.712506	0.47615	0.999883
gene1959	gene1959	ligA	gi 57650036 ref NC_002951.2 :2026691-2028695	MVR	M36C05	OK	42.4213	24.253	-0.806627	1.04159	0.2976	0.979427
gene196	gene196	SACOL0202	gi 57650036 ref NC_002951.2 :235960-239233	MVR	M36C05	OK	5.13347	3.89889	-0.396872	0.39807	0.69058	0.999883
gene1960	gene1960	pcrA	gi 57650036 ref NC_002951.2 :2028698-2031580	MVR	M36C05	OK	32.2009	11.2801	-1.51332	1.81898	0.06891	0.522414
gene1961	gene1961	SACOL1967	gi 57650036 ref NC_002951.2 :2028698-2031580	MVR	M36C05	OK	19.4465	12.982	-0.582994	0.304349	0.76086	0.999883
gene1962	gene1962	SACOL1968	gi 57650036 ref NC_002951.2 :2031751-2032054	MVR	M36C05	OK	220.385	100.534	-1.13235	1.63947	0.10112	0.639058
gene1963	gene1963	purB	gi 57650036 ref NC_002951.2 :2032162-2033458	MVR	M36C05	OK	82.1061	37.6189	-1.12603	1.44382	0.14879	0.749852
gene1964	gene1964	sspB2	gi 57650036 ref NC_002951.2 :2034318-2035485	MVR	M36C05	OK	1.61243	1.59622	-0.0145773	0.01868	0.9851	0.999883
gene1965	gene1965	SACOL1971	gi 57650036 ref NC_002951.2 :2035515-2035842	MVR	M36C05	OK	6.63535	2.50842	-1.40339	1.3767	0.1686	0.808072
gene1966	gene1966	SACOL1972	gi 57650036 ref NC_002951.2 :2036133-2036890	MVR	M36C05	OK	85.9305	41.6288	-1.04559	0.338611	0.7349	0.999883
gene1967	gene1967	SACOL1973	gi 57650036 ref NC_002951.2 :2036133-2036890	MVR	M36C05	OK	48.1163	36.4312	-0.401352	0.5647	0.57228	0.999883
gene1968	gene1968	nadE	gi 57650036 ref NC_002951.2 :2037160-2039444	MVR	M36C05	OK	50.6494	48.7694	-0.0545698	0.038537	0.96926	0.999883
gene1969	gene1969	SACOL1975	gi 57650036 ref NC_002951.2 :2037160-2039444	MVR	M36C05	OK	48.1591	48.9524	0.0235693	-0.023631	0.98115	0.999883
gene197	gene197	SACOL0203	gi 57650036 ref NC_002951.2 :235960-239233	MVR	M36C05	OK	4.86654	4.87576	0.002731	-0.002132	0.9983	0.999883
gene1970	gene1970	SACOL1976	gi 57650036 ref NC_002951.2 :2039627-2040704	MVR	M36C05	OK	27.8344	18.7334	-0.571257	0.818088	0.41331	0.999883
gene1971	gene1971	pheA	gi 57650036 ref NC_002951.2 :2040723-2041518	MVR	M36C05	OK	29.696	25.4001	-0.225434	0.32704	0.74364	0.999883
gene1972	gene1972	SACOL1978	gi 57650036 ref NC_002951.2 :2041542-2041665	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1973	gene1973	SACOL1979	gi 57650036 ref NC_002951.2 :2041707-2043270	MVR	M36C05	OK	90.5471	69.6283	-0.378996	0.455828	0.64851	0.999883
gene1974	gene1974	SACOL1980	gi 57650036 ref NC_002951.2 :2043474-2044572	MVR	M36C05	OK	6.75801	17.3126	1.35716	-1.97663	0.04808	0.430141
gene1975	gene1975	SACOL1981	gi 57650036 ref NC_002951.2 :2044943-2045504	MVR	M36C05	OK	54.4392	72.1791	0.406936	-0.578819	0.56271	0.999883
gene1976	gene1976	ppaC	gi 57650036 ref NC_002951.2 :2045556-2046486	MVR	M36C05	OK	199.033	208.635	0.0679716	-0.078871	0.93714	0.999883
gene1977	gene1977	SACOL1983	gi 57650036 ref NC_002951.2 :2046680-2046854	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1978	gene1978	aldA2	gi 57650036 ref NC_002951.2 :2046905-2048285	MVR	M36C05	OK	108.571	354.528	1.70726	-1.89194	0.0585	0.484391
gene1979	gene1979	SACOL1985	gi 57650036 ref NC_002951.2 :2048404-2049433	MVR	M36C05	OK	23.682	45.8901	0.954392	-1.32891	0.18388	0.83431
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	MVR	M36C05	OK	17.1776	77.7859	2.17898	-2.70793	0.00677	0.13101
gene1980	gene1980	SACOL1986	gi 57650036 ref NC_002951.2 :2049702-2050104	MVR	M36C05	OK	16.7841	42.9841	1.35671	-1.9451	0.05176	0.447556
gene1981	gene1981	SACOL1987	gi 57650036 ref NC_002951.2 :2050676-2050850	MVR	M36C05	OK	1039.76	1463.95	0.493614	-0.709609	0.47795	0.999883
gene1982	gene1982	SACOL1988	gi 57650036 ref NC_002951.2 :2051300-2052341	MVR	M36C05	OK	13.4566	17.5694	0.384753	-0.56237	0.57386	0.999883
gene1983	gene1983	SACOL1989	gi 57650036 ref NC_002951.2 :2052397-2053794	MVR	M36C05	OK	32.6842	31.2209	-0.0660808	0.071837	0.94273	0.999883
gene1984	gene1984	SACOL1990	gi 57650036 ref NC_002951.2 :2052397-2053794	MVR	M36C05	OK	31.1363	38.2429	0.296591	-0.247936	0.80418	0.999883
gene1985	gene1985	SACOL1991	gi 57650036 ref NC_002951.2 :2053853-2054378	MVR	M36C05	OK	44.0324	35.3348	-0.317477	0.464714	0.64214	0.999883

gene1986	gene1986	SACOL1992	gi 57650036 ref NC_002951.2 :2054498-2055062	MVR	M36C05	OK	78.0199	154.996	0.990318	-1.33341	0.1824	0.830192
gene1987	gene1987	SACOL1993	gi 57650036 ref NC_002951.2 :2055127-2057417	MVR	M36C05	OK	17.8682	39.36	1.13933	-0.944919	0.3447	0.999883
gene1988	gene1988	SACOL1994	gi 57650036 ref NC_002951.2 :2055127-2057417	MVR	M36C05	OK	19.3711	36.219	0.902838	-0.833381	0.40463	0.999883
gene1989	gene1989	SACOL1995	gi 57650036 ref NC_002951.2 :2055127-2057417	MVR	M36C05	OK	7.80362	19.0421	1.28698	-0.681611	0.49549	0.999883
gene199	gene199	pflA	gi 57650036 ref NC_002951.2 :242092-242848	MVR	M36C05	OK	13.9577	43.654	1.64506	-2.369	0.01784	0.242627
gene1990	gene1990	SACOL1996	gi 57650036 ref NC_002951.2 :2057417-2058691	MVR	M36C05	OK	14.8576	31.4891	1.08365	-1.21855	0.22302	0.89446
gene1991	gene1991	SACOL1997	gi 57650036 ref NC_002951.2 :2057417-2058691	MVR	M36C05	OK	23.8764	84.6526	1.82597	-1.48817	0.13671	0.732537
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	MVR	M36C05	OK	0	31.7031	1.79769e+30	1.79769e+30	0.01809	0.243354
gene1993	gene1993	SACOL1999	gi 57650036 ref NC_002951.2 :2059373-2059472	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene1994	gene1994	SACOL2000	gi 57650036 ref NC_002951.2 :2059671-2060958	MVR	M36C05	OK	111.355	99.1876	-0.166937	0.199553	0.84183	0.999883
gene1995	gene1995	map	gi 57650036 ref NC_002951.2 :2061281-2063337	MVR	M36C05	OK	7.94976	8.90674	0.163987	-0.238202	0.81173	0.999883
gene1996	gene1996	h1b	gi 57650036 ref NC_002951.2 :2063725-2064718	MVR	M36C05	OK	10.7982	26.5605	1.29849	-1.88193	0.05985	0.491837
gene1997	gene1997	SACOL2004	gi 57650036 ref NC_002951.2 :2064955-2065828	MVR	M36C05	OK	1.98216	2.13053	0.104137	-0.130695	0.89602	0.999883
gene1998	gene1998	SACOL2006	gi 57650036 ref NC_002951.2 :2065993-2067049	MVR	M36C05	OK	1.96805	1.28815	-0.611466	0.763536	0.44514	0.999883
gene1999	gene1999	SACOL2007	gi 57650036 ref NC_002951.2 :2067483-2068708	MVR	M36C05	OK	5.84241	163.166	4.80364	-6.1158	9.61E-10	3.48E-07
gene2	gene2	SACOL0003	gi 57650036 ref NC_002951.2 :3696-5051	MVR	M36C05	OK	334.631	421.879	0.334258	-0.129583	0.8969	0.999883
gene20	gene20	yycF	gi 57650036 ref NC_002951.2 :24951-25653	MVR	M36C05	OK	103.598	162.219	0.646946	-0.826695	0.40841	0.999883
gene200	gene200	SACOL0206	gi 57650036 ref NC_002951.2 :242951-243146	MVR	M36C05	OK	2.50546	0	-1.79769e+30	-1.79769e+30	0.22252	0.89416
gene2000	gene2000	SACOL2009	gi 57650036 ref NC_002951.2 :2069079-2069925	MVR	M36C05	OK	1.88015	3.75641	0.998504	-1.28566	0.19856	0.864099
gene2001	gene2001	SACOL2010	gi 57650036 ref NC_002951.2 :2069986-2070898	MVR	M36C05	OK	1.44488	0.4647	-1.63659	1.64204	0.10058	0.638047
gene2002	gene2002	SACOL2011	gi 57650036 ref NC_002951.2 :2071058-2072366	MVR	M36C05	OK	6.47421	9.94951	0.61992	-0.909706	0.36298	0.999883
gene2003	gene2003	SACOL2012	gi 57650036 ref NC_002951.2 :2073218-2073662	MVR	M36C05	OK	12.4072	9.94572	-0.319028	0.438929	0.66071	0.999883
gene2004	gene2004	SACOL2013	gi 57650036 ref NC_002951.2 :2073767-2074205	MVR	M36C05	OK	4.33817	10.6569	1.29663	-1.62997	0.10311	0.644382
gene2005	gene2005	SACOL2014	gi 57650036 ref NC_002951.2 :2074522-2075113	MVR	M36C05	OK	4.45898	1.12936	-1.9812	2.16994	0.03001	0.330484
gene2006	gene2006	SACOL2015	gi 57650036 ref NC_002951.2 :2075454-2075929	MVR	M36C05	OK	0.9284	1.20434	0.375416	-0.303769	0.7613	0.999883
gene2007	gene2007	groEL	gi 57650036 ref NC_002951.2 :2076023-2077640	MVR	M36C05	OK	61.2161	127.257	1.05576	-1.24828	0.21193	0.891421
gene2008	gene2008	groES	gi 57650036 ref NC_002951.2 :2077715-2078000	MVR	M36C05	OK	16.4148	25.3711	0.628184	-0.820538	0.41191	0.999883
gene2009	gene2009	SACOL2018	gi 57650036 ref NC_002951.2 :2078174-2078918	MVR	M36C05	OK	29.2338	23.5261	-0.313377	0.456988	0.64768	0.999883
gene201	gene201	SACOL0207	gi 57650036 ref NC_002951.2 :243183-244947	MVR	M36C05	OK	4.44358	2.95975	-0.586244	0.853076	0.39362	0.999883
gene2010	gene2010	SACOL2019	gi 57650036 ref NC_002951.2 :2078942-2080202	MVR	M36C05	OK	85.5794	230.265	1.42796	-1.65672	0.09758	0.629513
gene2011	gene2011	SACOL2020	gi 57650036 ref NC_002951.2 :2080398-2081025	MVR	M36C05	OK	92.9774	93.8334	0.0132212	-0.017821	0.98578	0.999883
gene2012	gene2012	SACOL2021	gi 57650036 ref NC_002951.2 :2081385-2082171	MVR	M36C05	OK	46.8176	58.7352	0.327175	-0.452593	0.65084	0.999883
gene2013	gene2013	h1d	gi 57650036 ref NC_002951.2 :2082767-2082902	MVR	M36C05	OK	100.672	1288.34	3.67778	-3.43907	0.00058	0.0229583

gene2014	gene2014	agrB	gi 57650036 ref NC_002951.2 :2083137-2083844	MVR	M36C05	OK	101.836	827.743	3.02294	-3.55066	0.00038	0.0163585
gene2015	gene2015	agrD	gi 57650036 ref NC_002951.2 :2083137-2083844	MVR	M36C05	OK	17.282	236.044	3.77171	-0.212414	0.83178	0.999883
gene2016	gene2016	argC2	gi 57650036 ref NC_002951.2 :2083868-2085161	MVR	M36C05	OK	41.4691	292.196	2.81683	-3.32443	0.00089	0.0317428
gene2017	gene2017	agrA	gi 57650036 ref NC_002951.2 :2085179-2085896	MVR	M36C05	OK	86.3352	413.396	2.2595	-2.73448	0.00625	0.123837
gene2018	gene2018	SACOL2028	gi 57650036 ref NC_002951.2 :2086262-2088703	MVR	M36C05	OK	36.2302	39.4685	0.123512	-0.098958	0.92117	0.999883
gene2019	gene2019	cscA	gi 57650036 ref NC_002951.2 :2086262-2088703	MVR	M36C05	OK	29.6371	36.8859	0.315663	-0.30881	0.75747	0.999883
gene202	gene202	SACOL0208	gi 57650036 ref NC_002951.2 :245110-245455	MVR	M36C05	OK	4.96237	2.97348	-0.738875	0.748764	0.454	0.999883
gene2020	gene2020	scrR	gi 57650036 ref NC_002951.2 :2088851-2089802	MVR	M36C05	OK	41.022	48.3123	0.235992	-0.32357	0.74626	0.999883
gene2021	gene2021	SACOL2031	gi 57650036 ref NC_002951.2 :2089984-2091235	MVR	M36C05	OK	1.70836	2.3077	0.433843	-0.579959	0.56194	0.999883
gene2022	gene2022	SACOL2033	gi 57650036 ref NC_002951.2 :2091441-2091666	MVR	M36C05	OK	5.74352	0	-1.79769e+30	-1.79769e+30	0.06333	0.504373
gene2023	gene2023	SACOL2034	gi 57650036 ref NC_002951.2 :2091725-2092805	MVR	M36C05	OK	3.68915	1.87948	-0.972954	1.31107	0.18983	0.848649
gene2024	gene2024	SACOL2035	gi 57650036 ref NC_002951.2 :2093108-2093744	MVR	M36C05	OK	78.3212	113.157	0.530853	-0.71337	0.47562	0.999883
gene2025	gene2025	SACOL2036	gi 57650036 ref NC_002951.2 :2093996-2095925	MVR	M36C05	OK	11.6292	10.5812	-0.136256	0.195983	0.84462	0.999883
gene2026	gene2026	SACOL2037	gi 57650036 ref NC_002951.2 :2096286-2097897	MVR	M36C05	OK	4.97582	5.46814	0.136117	-0.199827	0.84162	0.999883
gene2027	gene2027	SACOL2038	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	M36C05	OK	28.583	13.7503	-1.05569	1.12489	0.26063	0.940753
gene2028	gene2028	SACOL2039	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	M36C05	OK	21.7387	9.16345	-1.24631	0.624142	0.53253	0.999883
gene2029	gene2029	SACOL2040	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	M36C05	OK	11.852	10.0111	-0.243543	0.140744	0.88807	0.999883
gene203	gene203	SACOL0209	gi 57650036 ref NC_002951.2 :245644-247555	MVR	M36C05	NOTEST	0.9361	0.77295	-0.276282	0.350377	0.72606	1
gene2030	gene2030	SACOL2041	gi 57650036 ref NC_002951.2 :2097998-2100531	MVR	M36C05	OK	12.6431	11.2605	-0.167085	0.070684	0.94365	0.999883
gene2031	gene2031	ilvD	gi 57650036 ref NC_002951.2 :2101068-2102757	MVR	M36C05	OK	3.63302	4.51534	0.313666	-0.457952	0.64699	0.999883
gene2032	gene2032	ilvB	gi 57650036 ref NC_002951.2 :2102784-2104808	MVR	M36C05	OK	4.57766	7.16049	0.645447	-0.924044	0.35546	0.999883
gene2033	gene2033	SACOL2044	gi 57650036 ref NC_002951.2 :2102784-2104808	MVR	M36C05	OK	9.67064	3.09171	-1.64521	0.416953	0.67671	0.999883
gene2034	gene2034	ilvC	gi 57650036 ref NC_002951.2 :2104944-2105949	MVR	M36C05	OK	4.11817	9.31497	1.17755	-1.69183	0.09068	0.604003
gene2035	gene2035	leuA	gi 57650036 ref NC_002951.2 :2105978-2107508	MVR	M36C05	OK	4.79175	8.03906	0.746473	-1.0941	0.27391	0.958793
gene2036	gene2036	leuB	gi 57650036 ref NC_002951.2 :2107510-2108557	MVR	M36C05	OK	5.40025	10.2846	0.929392	-1.3527	0.17615	0.821477
gene2037	gene2037	leuC	gi 57650036 ref NC_002951.2 :2108570-2109941	MVR	M36C05	OK	3.87517	6.02485	0.636664	-0.92565	0.35463	0.999883
gene2038	gene2038	leuD	gi 57650036 ref NC_002951.2 :2109941-2110514	MVR	M36C05	OK	3.68359	4.73583	0.362507	-0.462312	0.64386	0.999883
gene2039	gene2039	ilvA2	gi 57650036 ref NC_002951.2 :2110528-2111797	MVR	M36C05	OK	3.86157	5.5689	0.528206	-0.763815	0.44498	0.999883
gene204	gene204	SACOL0210	gi 57650036 ref NC_002951.2 :248020-249342	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2040	gene2040	rrfE	gi 57650036 ref NC_002951.2 :2112006-2112121	MVR	M36C05	OK	867420	602455	-0.525878	0.572879	0.56673	0.999883
gene2041	gene2041	rrfE	gi 57650036 ref NC_002951.2 :2112193-2115116	MVR	M36C05	HIDATA	0	39229.6	0	0	1	1
gene2042	gene2042	rrsE	gi 57650036 ref NC_002951.2 :2115662-2117217	MVR	M36C05	OK	11237.5	14081.6	0.325488	-0.463689	0.64287	0.999883
gene2043	gene2043	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117334-2117408	MVR	M36C05	NOTEST	0	0	0	0	1	1

gene2044	gene2044	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117427-2117513	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2045	gene2045	SACOL2052	gi 57650036 ref NC_002951.2 :2118159-2120758	MVR	M36C05	OK	22.312	8.62137	-1.37183	0.474963	0.63481	0.999883
gene2046	gene2046	SACOL2053	gi 57650036 ref NC_002951.2 :2118159-2120758	MVR	M36C05	OK	37.6681	14.2909	-1.39825	1.76962	0.07679	0.551324
gene2047	gene2047	rpoF	gi 57650036 ref NC_002951.2 :2121191-2122416	MVR	M36C05	OK	104.005	144.905	0.478461	-0.538731	0.59007	0.999883
gene2048	gene2048	rsbW	gi 57650036 ref NC_002951.2 :2121191-2122416	MVR	M36C05	OK	42.1143	68.6088	0.704084	-0.363609	0.71615	0.999883
gene2049	gene2049	rsbV	gi 57650036 ref NC_002951.2 :2122417-2122744	MVR	M36C05	OK	74.5201	123.749	0.731712	-1.0683	0.28539	0.973566
gene205	gene205	SACOL0211	gi 57650036 ref NC_002951.2 :248020-249342	MVR	M36C05	OK	121.224	68.1655	-0.830557	1.01931	0.30806	0.991033
gene2050	gene2050	rsbU	gi 57650036 ref NC_002951.2 :2122863-2123865	MVR	M36C05	OK	62.2361	35.1994	-0.8222	1.11311	0.26566	0.948965
gene2051	gene2051	SACOL2058	gi 57650036 ref NC_002951.2 :2124214-2124744	MVR	M36C05	OK	95.7431	59.4051	-0.688581	0.958428	0.33785	0.999883
gene2052	gene2052	SACOL2059	gi 57650036 ref NC_002951.2 :2124214-2124744	MVR	M36C05	OK	113.077	68.6965	-0.718998	0.317542	0.75083	0.999883
gene2053	gene2053	alr	gi 57650036 ref NC_002951.2 :2124828-2125977	MVR	M36C05	OK	63.7919	46.8206	-0.446231	0.584368	0.55897	0.999883
gene2054	gene2054	acpS	gi 57650036 ref NC_002951.2 :2126042-2126402	MVR	M36C05	OK	45.4873	25.8068	-0.817712	1.18548	0.23583	0.904919
gene2055	gene2055	SACOL2062	gi 57650036 ref NC_002951.2 :2126405-2128939	MVR	M36C05	OK	36.1575	29.1956	-0.308544	0.131136	0.89567	0.999883
gene2056	gene2056	SACOL2063	gi 57650036 ref NC_002951.2 :2126405-2128939	MVR	M36C05	OK	43.263	45.2362	0.0643455	-0.070483	0.94381	0.999883
gene2057	gene2057	SACOL2064	gi 57650036 ref NC_002951.2 :2126405-2128939	MVR	M36C05	OK	29.3662	37.0645	0.335884	-0.139953	0.8887	0.999883
gene2058	gene2058	SACOL2065	gi 57650036 ref NC_002951.2 :2129034-2129708	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2059	gene2059	kdpC	gi 57650036 ref NC_002951.2 :2129034-2129708	MVR	M36C05	OK	14.2166	7.95193	-0.838199	1.18578	0.23571	0.904919
gene206	gene206	SACOL0212	gi 57650036 ref NC_002951.2 :249371-251633	MVR	M36C05	OK	110.495	54.7264	-1.01367	1.16565	0.24375	0.916865
gene2060	gene2060	kdpB	gi 57650036 ref NC_002951.2 :2129727-2131755	MVR	M36C05	OK	2.95042	2.65268	-0.153469	0.222683	0.82378	0.999883
gene2061	gene2061	kdpA	gi 57650036 ref NC_002951.2 :2131773-2133450	MVR	M36C05	OK	1.48936	1.11936	-0.412023	0.544539	0.58607	0.999883
gene2062	gene2062	kdpF	gi 57650036 ref NC_002951.2 :2133473-2133584	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2063	gene2063	kdpD	gi 57650036 ref NC_002951.2 :2133721-2137074	MVR	M36C05	OK	2.11475	2.55534	0.273033	-0.343738	0.73104	0.999883
gene2064	gene2064	kdpE	gi 57650036 ref NC_002951.2 :2133721-2137074	MVR	M36C05	OK	4.21142	4.22697	0.00531692	-0.004004	0.99681	0.999883
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	MVR	M36C05	OK	230.427	25.3663	-3.18332	3.81468	0.00014	0.007591
gene2066	gene2066	murF	gi 57650036 ref NC_002951.2 :2139479-2140838	MVR	M36C05	OK	79.0441	68.9574	-0.196952	0.243773	0.80741	0.999883
gene2067	gene2067	ddl	gi 57650036 ref NC_002951.2 :2140852-2141923	MVR	M36C05	OK	87.5468	98.364	0.168076	-0.209547	0.83402	0.999883
gene2068	gene2068	ftsW	gi 57650036 ref NC_002951.2 :2142240-2143443	MVR	M36C05	OK	58.2432	48.2548	-0.271418	0.354656	0.72285	0.999883
gene2069	gene2069	SACOL2076	gi 57650036 ref NC_002951.2 :2143706-2143844	MVR	M36C05	OK	16790.5	37366.6	1.15411	-1.44345	0.14889	0.749859
gene207	gene207	SACOL0213	gi 57650036 ref NC_002951.2 :251818-253030	MVR	M36C05	OK	122.114	59.8088	-1.0298	1.27043	0.20393	0.875882
gene2070	gene2070	SACOL2077	gi 57650036 ref NC_002951.2 :2143971-2144181	MVR	M36C05	OK	9.23386	0	-1.79769e+3(-1.79769e+0.04385			0.40838
gene2071	gene2071	SACOL2078	gi 57650036 ref NC_002951.2 :2144192-2144486	MVR	M36C05	OK	4.61712	0	-1.79769e+3(-1.79769e+0.02679			0.309278
gene2072	gene2072	cls2	gi 57650036 ref NC_002951.2 :2144651-2146136	MVR	M36C05	OK	19.1551	31.3101	0.708897	-0.975903	0.32911	0.999883
gene2073	gene2073	SACOL2080	gi 57650036 ref NC_002951.2 :2146163-2146811	MVR	M36C05	OK	20.9571	22.1719	0.0812962	-0.119521	0.90486	0.999883

gene2074	gene2074	SACOL2081	gi 57650036 ref NC_002951.2 :2146985-2147078	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2075	gene2075	SACOL2082	gi 57650036 ref NC_002951.2 :2147623-2148496	MVR	M36C05	OK	227.048	87.6795	-1.37268	1.67458	0.09402	0.615302
gene2076	gene2076	thiE	gi 57650036 ref NC_002951.2 :2148581-2149223	MVR	M36C05	OK	2.23763	2.49705	0.158251	-0.187672	0.85113	0.999883
gene2077	gene2077	thiM	gi 57650036 ref NC_002951.2 :2149224-2151512	MVR	M36C05	OK	2.67646	2.60881	-0.0369352	0.032244	0.97428	0.999883
gene2078	gene2078	thiD2	gi 57650036 ref NC_002951.2 :2149224-2151512	MVR	M36C05	OK	3.46787	2.62215	-0.403296	0.387593	0.69832	0.999883
gene2079	gene2079	SACOL2086	gi 57650036 ref NC_002951.2 :2149224-2151512	MVR	M36C05	OK	1.00367	1.80161	0.843997	-0.462425	0.64378	0.999883
gene208	gene208	SACOL0214	gi 57650036 ref NC_002951.2 :253141-254647	MVR	M36C05	OK	130.43	70.4748	-0.8881	1.05006	0.29369	0.976946
gene2080	gene2080	SACOL2088	gi 57650036 ref NC_002951.2 :2151897-2152593	MVR	M36C05	OK	20.4378	35.5956	0.800458	-1.16635	0.24347	0.916764
gene2081	gene2081	SACOL2089	gi 57650036 ref NC_002951.2 :2152981-2153377	MVR	M36C05	OK	5.33004	14.0053	1.39375	-1.75863	0.07864	0.557414
gene2082	gene2082	ywpF	gi 57650036 ref NC_002951.2 :2153570-2154011	MVR	M36C05	OK	41.7322	54.0021	0.371853	-0.545217	0.5856	0.999883
gene2083	gene2083	fabZ	gi 57650036 ref NC_002951.2 :2154069-2154510	MVR	M36C05	OK	75.7065	142.327	0.910725	-1.27978	0.20062	0.869538
gene2084	gene2084	murAA	gi 57650036 ref NC_002951.2 :2154543-2155809	MVR	M36C05	OK	59.2128	151.715	1.35738	-1.64301	0.10038	0.638047
gene2085	gene2085	SACOL2093	gi 57650036 ref NC_002951.2 :2155919-2156153	MVR	M36C05	OK	147.327	160.013	0.119164	-0.174995	0.86108	0.999883
gene2086	gene2086	atpC	gi 57650036 ref NC_002951.2 :2156714-2157119	MVR	M36C05	OK	389.945	156.083	-1.32096	1.73726	0.08234	0.571339
gene2087	gene2087	atpD	gi 57650036 ref NC_002951.2 :2157138-2158551	MVR	M36C05	OK	215.593	104.054	-1.05098	1.19301	0.23286	0.902162
gene2088	gene2088	atpG	gi 57650036 ref NC_002951.2 :2158572-2159439	MVR	M36C05	OK	187.516	93.7609	-0.999953	1.2316	0.2181	0.89416
gene2089	gene2089	atpA	gi 57650036 ref NC_002951.2 :2159469-2160978	MVR	M36C05	OK	202.585	99.2805	-1.02894	1.16523	0.24393	0.917031
gene209	gene209	SACOL0215	gi 57650036 ref NC_002951.2 :254672-256244	MVR	M36C05	OK	302.89	339.67	0.165342	-0.172744	0.86285	0.999883
gene2090	gene2090	atpH	gi 57650036 ref NC_002951.2 :2160999-2162060	MVR	M36C05	OK	151.746	89.3083	-0.764796	0.72127	0.47074	0.999883
gene2091	gene2091	atpF	gi 57650036 ref NC_002951.2 :2160999-2162060	MVR	M36C05	OK	139.489	68.9278	-1.017	0.857868	0.39097	0.999883
gene2092	gene2092	atpE	gi 57650036 ref NC_002951.2 :2162257-2162470	MVR	M36C05	OK	568.551	249.303	-1.18939	1.72934	0.08375	0.575114
gene2093	gene2093	atpB	gi 57650036 ref NC_002951.2 :2162512-2163241	MVR	M36C05	OK	232.709	137.866	-0.755265	0.924041	0.35547	0.999883
gene2094	gene2094	SACOL2102	gi 57650036 ref NC_002951.2 :2163261-2163615	MVR	M36C05	OK	175.327	106.944	-0.713201	1.02025	0.30761	0.991033
gene2095	gene2095	SACOL2103	gi 57650036 ref NC_002951.2 :2163781-2164909	MVR	M36C05	OK	158.623	238.336	0.587398	-0.66738	0.50453	0.999883
gene2096	gene2096	upp	gi 57650036 ref NC_002951.2 :2164932-2165562	MVR	M36C05	OK	108.273	183.531	0.761351	-0.980234	0.32697	0.999883
gene2097	gene2097	glyA	gi 57650036 ref NC_002951.2 :2165589-2166828	MVR	M36C05	OK	172.567	266.649	0.627786	-0.697837	0.48528	0.999883
gene2098	gene2098	SACOL2106	gi 57650036 ref NC_002951.2 :2166854-2167379	MVR	M36C05	OK	97.3756	158.667	0.704367	-0.948761	0.34274	0.999883
gene2099	gene2099	SACOL2107	gi 57650036 ref NC_002951.2 :2167485-2168957	MVR	M36C05	OK	27.427	10.0127	-1.45376	1.13729	0.25542	0.93309
gene21	gene21	yycG	gi 57650036 ref NC_002951.2 :25665-28819	MVR	M36C05	OK	99.6093	126.81	0.348312	-0.295653	0.7675	0.999883
gene210	gene210	SACOL0216	gi 57650036 ref NC_002951.2 :256690-257833	MVR	M36C05	OK	9.4817	4.79372	-0.984	1.43286	0.1519	0.758126
gene2100	gene2100	SACOL2108	gi 57650036 ref NC_002951.2 :2167485-2168957	MVR	M36C05	OK	13.2141	7.60009	-0.797985	0.978018	0.32807	0.999883
gene2101	gene2101	SACOL2109	gi 57650036 ref NC_002951.2 :2169031-2170931	MVR	M36C05	OK	73.2574	21.6452	-1.75893	1.64817	0.09932	0.636777
gene2102	gene2102	prfA	gi 57650036 ref NC_002951.2 :2169031-2170931	MVR	M36C05	OK	51.7611	14.2072	-1.86524	1.70157	0.08884	0.597944

gene2103	gene2103	tdk	gi 57650036 ref NC_002951.2 :2170931-2171531	MVR	M36C05	OK	63.1114	19.0424	-1.72868	2.49208	0.0127	0.19349
gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	MVR	M36C05	OK	659.538	75.7468	-3.1222	4.35883	1.31E-05	0.0009857
gene2105	gene2105	rho	gi 57650036 ref NC_002951.2 :2172249-2173566	MVR	M36C05	OK	139.441	45.5961	-1.61267	1.97673	0.04807	0.430141
gene2106	gene2106	SACOL2114	gi 57650036 ref NC_002951.2 :2173812-2175240	MVR	M36C05	OK	41.3865	566.421	3.77464	-4.30965	1.64E-05	0.0012075
gene2107	gene2107	SACOL2115	gi 57650036 ref NC_002951.2 :2175477-2175813	MVR	M36C05	OK	839.249	871.614	0.0545916	-0.065339	0.9479	0.999883
gene2108	gene2108	murAB	gi 57650036 ref NC_002951.2 :2175901-2177161	MVR	M36C05	OK	77.2812	71.8669	-0.10479	0.130978	0.89579	0.999883
gene2109	gene2109	fbaA	gi 57650036 ref NC_002951.2 :2177626-2178487	MVR	M36C05	OK	213.607	134.828	-0.663839	0.795839	0.42613	0.999883
gene211	gene211	SACOL0217	gi 57650036 ref NC_002951.2 :258146-259622	MVR	M36C05	OK	12.2857	12.5261	0.0279476	-0.040583	0.96763	0.999883
gene2110	gene2110	SACOL2118	gi 57650036 ref NC_002951.2 :2178704-2179226	MVR	M36C05	OK	22.9217	9.25895	-1.30779	1.87037	0.06143	0.500658
gene2111	gene2111	pyrG	gi 57650036 ref NC_002951.2 :2179334-2180945	MVR	M36C05	OK	38.6259	9.21773	-2.06708	2.84518	0.00444	0.0985356
gene2112	gene2112	rpoE	gi 57650036 ref NC_002951.2 :2181280-2181811	MVR	M36C05	OK	130.866	45.0353	-1.53896	2.14751	0.03175	0.342022
gene2113	gene2113	SACOL2121	gi 57650036 ref NC_002951.2 :2181922-2182783	MVR	M36C05	OK	30.4759	14.0167	-1.12052	1.62852	0.10342	0.645527
gene2114	gene2114	SACOL2122	gi 57650036 ref NC_002951.2 :2183206-2184010	MVR	M36C05	OK	16.9364	6.20962	-1.44755	2.09397	0.03626	0.365532
gene2115	gene2115	SACOL2123	gi 57650036 ref NC_002951.2 :2184139-2184811	MVR	M36C05	OK	38.3658	23.1467	-0.729016	1.06211	0.28819	0.975616
gene2116	gene2116	SACOL2124	gi 57650036 ref NC_002951.2 :2185209-2187587	MVR	M36C05	OK	41.1786	35.0494	-0.232503	0.211613	0.83241	0.999883
gene2117	gene2117	SACOL2125	gi 57650036 ref NC_002951.2 :2185209-2187587	MVR	M36C05	OK	30.9753	39.0636	0.334708	-0.290192	0.77167	0.999883
gene2118	gene2118	luxS	gi 57650036 ref NC_002951.2 :2187897-2188368	MVR	M36C05	OK	111.293	108.761	-0.0331956	0.046196	0.96315	0.999883
gene2119	gene2119	SACOL2127	gi 57650036 ref NC_002951.2 :2188519-2188870	MVR	M36C05	OK	277.636	270.802	-0.0359577	0.048369	0.96142	0.999883
gene212	gene212	SACOL0218	gi 57650036 ref NC_002951.2 :259819-260176	MVR	M36C05	OK	3.75796	6.2204	0.727058	-0.791216	0.42882	0.999883
gene2120	gene2120	pdp	gi 57650036 ref NC_002951.2 :2188883-2190185	MVR	M36C05	OK	102.157	119.044	0.220717	-0.261917	0.79339	0.999883
gene2121	gene2121	deoC2	gi 57650036 ref NC_002951.2 :2190463-2191126	MVR	M36C05	OK	68.8484	74.3678	0.111255	-0.152874	0.8785	0.999883
gene2122	gene2122	deoD	gi 57650036 ref NC_002951.2 :2191440-2192151	MVR	M36C05	OK	107.927	67.1545	-0.684504	0.913961	0.36074	0.999883
gene2123	gene2123	SACOL2131	gi 57650036 ref NC_002951.2 :2192271-2192715	MVR	M36C05	OK	1579.41	1778.93	0.171624	-0.180858	0.85648	0.999883
gene2124	gene2124	SACOL2132	gi 57650036 ref NC_002951.2 :2192914-2193328	MVR	M36C05	OK	4.85919	28.8047	2.56752	-3.31044	0.00093	0.0326101
gene2125	gene2125	SACOL2133	gi 57650036 ref NC_002951.2 :2193785-2195159	MVR	M36C05	OK	31.1748	30.235	-0.0441612	0.060045	0.95212	0.999883
gene2126	gene2126	SACOL2134	gi 57650036 ref NC_002951.2 :2195830-2196061	MVR	M36C05	OK	23.6471	6.25566	-1.91843	1.93303	0.05323	0.45686
gene2127	gene2127	manA1	gi 57650036 ref NC_002951.2 :2196091-2197030	MVR	M36C05	OK	34.1042	22.385	-0.607421	0.868716	0.385	0.999883
gene2128	gene2128	SACOL2136	gi 57650036 ref NC_002951.2 :2197464-2198130	MVR	M36C05	OK	15.7397	170.274	3.43539	-4.61773	3.88E-06	0.00036
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	MVR	M36C05	OK	42.1089	13.0742	-1.6874	2.3027	0.0213	0.273297
gene213	gene213	SACOL0219	gi 57650036 ref NC_002951.2 :260332-260506	MVR	M36C05	OK	0	6.93814	1.79769e+30	1.79769e+30	0.14732	0.743774
gene2130	gene2130	SACOL2138	gi 57650036 ref NC_002951.2 :2198603-2199584	MVR	M36C05	OK	32.4445	19.6267	-0.725159	1.0384	0.29908	0.981582
gene2131	gene2131	SACOL2139	gi 57650036 ref NC_002951.2 :2199793-2200941	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2132	gene2132	SACOL2140	gi 57650036 ref NC_002951.2 :2199793-2200941	MVR	M36C05	OK	159.54	160.442	0.00813402	-0.009252	0.99262	0.999883

gene2133	gene2133	SACOL2141	gi 57650036 ref NC_002951.2 :2201903-2202107	MVR	M36C05	OK	6.21505	3.28328	-0.920629	0.524183	0.60015	0.999883
gene2134	gene2134	SACOL2142	gi 57650036 ref NC_002951.2 :2202165-2203302	MVR	M36C05	OK	11.914	11.1786	-0.0919169	0.134974	0.89263	0.999883
gene2135	gene2135	SACOL2143	gi 57650036 ref NC_002951.2 :2204387-2205257	MVR	M36C05	OK	39.4652	51.362	0.380119	-0.526587	0.59848	0.999883
gene2136	gene2136	SACOL2144	gi 57650036 ref NC_002951.2 :2205312-2206095	MVR	M36C05	OK	7.11261	10.975	0.62577	-0.905427	0.36524	0.999883
gene2137	gene2137	glmS	gi 57650036 ref NC_002951.2 :2206326-2208132	MVR	M36C05	OK	30.3164	34.1073	0.169985	-0.222694	0.82377	0.999883
gene2138	gene2138	SACOL2146	gi 57650036 ref NC_002951.2 :2208812-2210351	MVR	M36C05	OK	4.09182	4.69221	0.197525	-0.288192	0.7732	0.999883
gene2139	gene2139	SACOL2147	gi 57650036 ref NC_002951.2 :2210385-2212518	MVR	M36C05	OK	4.62651	24.116	2.382	-3.31274	0.00092	0.0326101
gene214	gene214	SACOL0220	gi 57650036 ref NC_002951.2 :260531-261677	MVR	M36C05	OK	61.5257	76.9222	0.322212	-0.411829	0.68046	0.999883
gene2140	gene2140	SACOL2148	gi 57650036 ref NC_002951.2 :2212529-2214070	MVR	M36C05	OK	10.4443	234.593	4.48937	-3.00084	0.00269	0.0714957
gene2141	gene2141	mtID	gi 57650036 ref NC_002951.2 :2212529-2214070	MVR	M36C05	OK	8.54356	131.655	3.94578	-4.2463	2.17E-05	0.0014979
gene2142	gene2142	fmtB	gi 57650036 ref NC_002951.2 :2214388-2221825	MVR	M36C05	OK	2.4735	2.58789	0.0652224	-0.094033	0.92508	0.999883
gene2143	gene2143	glmM	gi 57650036 ref NC_002951.2 :2222101-2223457	MVR	M36C05	OK	97.9045	92.0231	-0.0893787	0.107351	0.91451	0.999883
gene2144	gene2144	SACOL2152	gi 57650036 ref NC_002951.2 :2223483-2224416	MVR	M36C05	OK	36.5371	31.1444	-0.23039	0.325393	0.74488	0.999883
gene2145	gene2145	SACOL2153	gi 57650036 ref NC_002951.2 :2224417-2225227	MVR	M36C05	OK	74.0369	72.6964	-0.0263597	0.035076	0.97202	0.999883
gene2146	gene2146	rocF	gi 57650036 ref NC_002951.2 :2225415-2226324	MVR	M36C05	OK	239.278	351.866	0.556336	-0.62382	0.53275	0.999883
gene2147	gene2147	SACOL2155	gi 57650036 ref NC_002951.2 :2226549-2227752	MVR	M36C05	OK	1.01552	0.76944	-0.400345	0.459382	0.64596	0.999883
gene2149	gene2149	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228058-2228133	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	MVR	M36C05	OK	16.9822	38.4666	1.17958	-1.68109	0.09275	0.611738
gene2150	gene2150	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228142-2228226	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2151	gene2151	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228255-2228331	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2152	gene2152	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228338-2228410	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2153	gene2153	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228411-2228486	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2154	gene2154	rrfF	gi 57650036 ref NC_002951.2 :2228496-2228611	MVR	M36C05	OK	863085	306801	-1.4922	1.68178	0.09261	0.611738
gene2155	gene2155	rrIF	gi 57650036 ref NC_002951.2 :2228683-2231606	MVR	M36C05	HIDATA	0	0	0	0	1	1
gene2156	gene2156	rrsF	gi 57650036 ref NC_002951.2 :2232152-2233707	MVR	M36C05	OK	10681	12926.1	0.275244	-0.386086	0.69943	0.999883
gene2157	gene2157	SACOL2156	gi 57650036 ref NC_002951.2 :2234162-2235227	MVR	M36C05	OK	240.941	220.147	-0.130214	0.146436	0.88358	0.999883
gene2158	gene2158	SACOL2157	gi 57650036 ref NC_002951.2 :2235374-2236817	MVR	M36C05	OK	26.292	41.5917	0.661669	-0.887249	0.37495	0.999883
gene2159	gene2159	SACOL2158	gi 57650036 ref NC_002951.2 :2237138-2237612	MVR	M36C05	OK	106.253	36.6643	-1.53506	2.20114	0.02773	0.315942
gene216	gene216	SACOL0223	gi 57650036 ref NC_002951.2 :263370-263496	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2160	gene2160	SACOL2159	gi 57650036 ref NC_002951.2 :2237710-2239054	MVR	M36C05	OK	29.9209	10.6962	-1.48406	2.09858	0.03585	0.362396
gene2161	gene2161	SACOL2160	gi 57650036 ref NC_002951.2 :2239230-2239914	MVR	M36C05	OK	138.914	81.8513	-0.763118	1.00044	0.3171	0.999883
gene2162	gene2162	SACOL2161	gi 57650036 ref NC_002951.2 :2239932-2241120	MVR	M36C05	OK	126.913	142.166	0.163734	-0.192352	0.84747	0.999883
gene2163	gene2163	SACOL2162	gi 57650036 ref NC_002951.2 :2241163-2241679	MVR	M36C05	OK	124.14	94.6975	-0.390565	0.53542	0.59236	0.999883

gene2164	gene2164	SACOL2163	gi 57650036 ref NC_002951.2 :2241856-2242117	MVR	M36C05	OK	1523.48	659.379	-1.20819	1.52401	0.12751	0.707889
gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	MVR	M36C05	OK	70.263	10.7318	-2.71088	3.63562	0.00028	0.0127829
gene2166	gene2166	SACOL2165	gi 57650036 ref NC_002951.2 :2243854-2245851	MVR	M36C05	OK	6.43639	2.72469	-1.24016	1.22298	0.22134	0.89416
gene2167	gene2167	SACOL2166	gi 57650036 ref NC_002951.2 :2243854-2245851	MVR	M36C05	OK	6.80321	3.0483	-1.15821	1.23852	0.21552	0.89416
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	MVR	M36C05	OK	28.2384	7.0329	-2.00547	2.89086	0.00384	0.0914612
gene2169	gene2169	SACOL2168	gi 57650036 ref NC_002951.2 :2247237-2248308	MVR	M36C05	OK	5.24728	14.5584	1.47221	-2.13733	0.03257	0.346169
gene217	gene217	SACOL0224	gi 57650036 ref NC_002951.2 :263522-265052	MVR	M36C05	OK	2.73175	2.98357	0.127215	-0.181227	0.85619	0.999883
gene2170	gene2170	SACOL2169	gi 57650036 ref NC_002951.2 :2248314-2251252	MVR	M36C05	OK	4.30844	22.3544	2.37532	-2.86377	0.00419	0.0949739
gene2171	gene2171	SACOL2170	gi 57650036 ref NC_002951.2 :2248314-2251252	MVR	M36C05	OK	4.40122	3.88206	-0.181084	0.098926	0.9212	0.999883
gene2172	gene2172	SACOL2171	gi 57650036 ref NC_002951.2 :2251353-2253330	MVR	M36C05	OK	13.5463	8.37261	-0.694151	0.996072	0.31922	0.999883
gene2173	gene2173	SACOL2172	gi 57650036 ref NC_002951.2 :2253785-2255410	MVR	M36C05	OK	0.54271	1.46962	1.4372	-1.74073	0.08173	0.568738
gene2174	gene2174	SACOL2173	gi 57650036 ref NC_002951.2 :2255445-2255955	MVR	M36C05	OK	613.801	13085	4.414	-4.89478	9.84E-07	0.0001163
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	MVR	M36C05	OK	111.485	2213.51	4.31141	-5.5741	2.49E-08	5.00E-06
gene2176	gene2176	SACOL2175	gi 57650036 ref NC_002951.2 :2256269-2256818	MVR	M36C05	OK	99.038	3337.43	5.07461	-5.8939	3.77E-09	9.87E-07
gene2177	gene2177	opuD2	gi 57650036 ref NC_002951.2 :2256980-2258543	MVR	M36C05	OK	26.0328	634.337	4.60684	-5.31994	1.04E-07	1.71E-05
gene2178	gene2178	SACOL2177	gi 57650036 ref NC_002951.2 :2258849-2259851	MVR	M36C05	OK	20.8957	35.3369	0.75797	-1.07658	0.28167	0.965951
gene2179	gene2179	SACOL2178	gi 57650036 ref NC_002951.2 :2260084-2261086	MVR	M36C05	OK	188.888	328.07	0.79647	-0.895664	0.37043	0.999883
gene218	gene218	SACOL0225	gi 57650036 ref NC_002951.2 :265413-266349	MVR	M36C05	OK	10.6768	9.29021	-0.200695	0.294577	0.76832	0.999883
gene2180	gene2180	SACOL2179	gi 57650036 ref NC_002951.2 :2261368-2262238	MVR	M36C05	OK	54.3099	106.675	0.973932	-1.27571	0.20206	0.871437
gene2181	gene2181	lacG	gi 57650036 ref NC_002951.2 :2262503-2263916	MVR	M36C05	OK	3.8367	2.99892	-0.35542	0.508926	0.6108	0.999883
gene2182	gene2182	lacE	gi 57650036 ref NC_002951.2 :2263933-2265963	MVR	M36C05	OK	1.95611	2.97493	0.604864	-0.850507	0.39504	0.999883
gene2183	gene2183	lacF	gi 57650036 ref NC_002951.2 :2263933-2265963	MVR	M36C05	NOTEST	0	0.92991	1.79769e+30	1.79769e+30	0.32694	1
gene2184	gene2184	lacD	gi 57650036 ref NC_002951.2 :2265984-2266965	MVR	M36C05	OK	2.00847	0.98839	-1.02294	1.217	0.22361	0.89446
gene2185	gene2185	lacC	gi 57650036 ref NC_002951.2 :2266968-2267901	MVR	M36C05	OK	2.30934	1.05319	-1.13271	1.35451	0.17558	0.821477
gene2186	gene2186	lacB	gi 57650036 ref NC_002951.2 :2267913-2268429	MVR	M36C05	OK	1.39932	0.69887	-1.00162	0.816133	0.41442	0.999883
gene2187	gene2187	SACOL2186	gi 57650036 ref NC_002951.2 :2268444-2268873	MVR	M36C05	OK	1.97797	1.9252	-0.0390091	0.037291	0.97025	0.999883
gene2188	gene2188	SACOL2187	gi 57650036 ref NC_002951.2 :2268887-2269004	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2189	gene2189	lacR	gi 57650036 ref NC_002951.2 :2269240-2269996	MVR	M36C05	OK	15.4963	17.66	0.188562	-0.27721	0.78162	0.999883
gene219	gene219	SACOL0228	gi 57650036 ref NC_002951.2 :266687-269236	MVR	M36C05	OK	1.90491	0.92951	-1.03518	1.36736	0.17151	0.816663
gene2190	gene2190	SACOL2189	gi 57650036 ref NC_002951.2 :2270246-2270978	MVR	M36C05	OK	19.2204	24.8872	0.372763	-0.546306	0.58486	0.999883
gene2191	gene2191	SACOL2190	gi 57650036 ref NC_002951.2 :2271268-2271877	MVR	M36C05	OK	0.91092	3.23871	1.83002	-1.89534	0.05805	0.482975
gene2192	gene2192	SACOL2191	gi 57650036 ref NC_002951.2 :2272138-2272264	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2193	gene2193	SACOL2192	gi 57650036 ref NC_002951.2 :2272483-2273332	MVR	M36C05	OK	77.5584	218.223	1.49245	-1.84173	0.06552	0.512024

gene2194	gene2194	SACOL2193	gi 57650036 ref NC_002951.2 :2273401-2273818	MVR	M36C05	OK	5.08722	12.1779	1.25932	-1.5983	0.10998	0.659073
gene2195	gene2195	hysA	gi 57650036 ref NC_002951.2 :2274225-2276649	MVR	M36C05	OK	1.43569	3.02251	1.074	-1.54022	0.12351	0.696637
gene2196	gene2196	SACOL2195	gi 57650036 ref NC_002951.2 :2276708-2277563	MVR	M36C05	OK	16.7728	20.8812	0.31608	-0.462779	0.64352	0.999883
gene2197	gene2197	SACOL2196	gi 57650036 ref NC_002951.2 :2277773-2278589	MVR	M36C05	OK	11.7535	15.9375	0.439328	-0.645136	0.51884	0.999883
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	MVR	M36C05	OK	10.6033	463.694	5.45058	-6.92813	4.26E-12	2.58E-09
gene2199	gene2199	budA1	gi 57650036 ref NC_002951.2 :2279671-2280376	MVR	M36C05	OK	2.43098	2.40351	-0.0163992	0.020093	0.98397	0.999883
gene22	gene22	yycH	gi 57650036 ref NC_002951.2 :25665-28819	MVR	M36C05	OK	98.0174	102.08	0.0585883	-0.039066	0.96884	0.999883
gene220	gene220	SACOL0229	gi 57650036 ref NC_002951.2 :266687-269236	MVR	M36C05	NOTEST	0.95453	0.41188	-1.21255	0.39585	0.69222	1
gene2200	gene2200	budB	gi 57650036 ref NC_002951.2 :2280412-2282077	MVR	M36C05	OK	3.89645	3.837	-0.0221832	0.032332	0.97421	0.999883
gene2201	gene2201	SACOL2200	gi 57650036 ref NC_002951.2 :2282356-2282452	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2202	gene2202	SACOL2201	gi 57650036 ref NC_002951.2 :2283266-2283866	MVR	M36C05	OK	7.77234	8.55529	0.138468	-0.1944	0.84586	0.999883
gene2203	gene2203	SACOL2202	gi 57650036 ref NC_002951.2 :2283898-2284672	MVR	M36C05	OK	6.6974	8.6488	0.368899	-0.529666	0.59634	0.999883
gene2204	gene2204	SACOL2203	gi 57650036 ref NC_002951.2 :2284800-2285937	MVR	M36C05	OK	12.4264	14.238	0.196337	-0.287403	0.7738	0.999883
gene2205	gene2205	SACOL2204	gi 57650036 ref NC_002951.2 :2285937-2286729	MVR	M36C05	OK	16.4705	21.8022	0.404586	-0.593256	0.55301	0.999883
gene2206	gene2206	SACOL2205	gi 57650036 ref NC_002951.2 :2286768-2288129	MVR	M36C05	OK	2.57187	5.41214	1.07338	-1.53215	0.12549	0.701806
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	MVR	M36C05	OK	651.818	123.658	-2.39811	3.08679	0.00202	0.057876
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	MVR	M36C05	OK	178.136	35.2143	-2.33875	3.28776	0.00101	0.0348021
gene2209	gene2209	truA	gi 57650036 ref NC_002951.2 :2289762-2290566	MVR	M36C05	OK	18.6502	17.8983	-0.0593675	0.087161	0.93054	0.999883
gene221	gene221	SACOL0230	gi 57650036 ref NC_002951.2 :269258-269537	MVR	M36C05	OK	4.52567	1.21621	-1.89574	1.19728	0.2312	0.901012
gene2210	gene2210	SACOL2209	gi 57650036 ref NC_002951.2 :2290570-2293033	MVR	M36C05	OK	24.6722	28.5319	0.209692	-0.15649	0.87565	0.999883
gene2211	gene2211	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	MVR	M36C05	OK	20.7456	28.5341	0.459878	-0.344008	0.73084	0.999883
gene2212	gene2212	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	MVR	M36C05	OK	24.2466	34.359	0.502907	-0.393314	0.69409	0.999883
gene2213	gene2213	rplQ	gi 57650036 ref NC_002951.2 :2293570-2293939	MVR	M36C05	OK	159.832	156.793	-0.0276897	0.038957	0.96892	0.999883
gene2214	gene2214	rpoA	gi 57650036 ref NC_002951.2 :2293955-2294900	MVR	M36C05	OK	214.035	201.617	-0.0862285	0.099616	0.92065	0.999883
gene2215	gene2215	rpsK	gi 57650036 ref NC_002951.2 :2294974-2295364	MVR	M36C05	OK	196.129	193.95	-0.0161179	0.021949	0.98249	0.999883
gene2216	gene2216	rpsM	gi 57650036 ref NC_002951.2 :2295387-2295753	MVR	M36C05	OK	141.015	141.079	0.0006576	-0.000936	0.99925	0.999883
gene2217	gene2217	rpmJ	gi 57650036 ref NC_002951.2 :2295775-2295889	MVR	M36C05	OK	804.75	910.472	0.178073	-0.144089	0.88543	0.999883
gene2218	gene2218	infA	gi 57650036 ref NC_002951.2 :2295920-2296139	MVR	M36C05	OK	176.863	220.119	0.315651	-0.463206	0.64322	0.999883
gene2219	gene2219	adk	gi 57650036 ref NC_002951.2 :2296331-2296979	MVR	M36C05	OK	182.547	143.378	-0.348441	0.44074	0.6594	0.999883
gene222	gene222	SACOL0231	gi 57650036 ref NC_002951.2 :269601-269736	MVR	M36C05	OK	25.1679	0	-1.79769e+3(-1.79769e+	0.22252	0.89416	
gene2220	gene2220	secY	gi 57650036 ref NC_002951.2 :2296995-2298728	MVR	M36C05	OK	285.524	251.65	-0.182197	0.165687	0.8684	0.999883
gene2221	gene2221	rplO	gi 57650036 ref NC_002951.2 :2296995-2298728	MVR	M36C05	OK	390.838	379.845	-0.0411605	0.020978	0.98326	0.999883
gene2222	gene2222	rpmD	gi 57650036 ref NC_002951.2 :2298744-2298924	MVR	M36C05	OK	474.577	279.463	-0.763982	1.11658	0.26418	0.945724

gene2223	gene2223	rpsE	gi 57650036 ref NC_002951.2 :2298940-2299441	MVR	M36C05	OK	197.557	101.984	-0.953934	1.27782	0.20131	0.870048
gene2224	gene2224	rplR	gi 57650036 ref NC_002951.2 :2299461-2299821	MVR	M36C05	OK	373.733	244.485	-0.612261	0.810816	0.41747	0.999883
gene2225	gene2225	rplF	gi 57650036 ref NC_002951.2 :2299851-2300388	MVR	M36C05	OK	265.519	122.214	-1.11941	1.44078	0.14965	0.751551
gene2226	gene2226	rpsH	gi 57650036 ref NC_002951.2 :2300412-2300811	MVR	M36C05	OK	165.905	77.8385	-1.09181	1.54858	0.12148	0.692806
gene2227	gene2227	rpsN	gi 57650036 ref NC_002951.2 :2300842-2301028	MVR	M36C05	OK	71.2806	39.7175	-0.843733	1.01145	0.3118	0.993813
gene2228	gene2228	rplE	gi 57650036 ref NC_002951.2 :2301050-2301590	MVR	M36C05	OK	187.049	81.8388	-1.19256	1.59785	0.11008	0.659073
gene2229	gene2229	rplX	gi 57650036 ref NC_002951.2 :2301616-2301934	MVR	M36C05	OK	184.742	96.1547	-0.942083	1.36595	0.17196	0.817635
gene223	gene223	SACOL0232	gi 57650036 ref NC_002951.2 :269763-271023	MVR	M36C05	OK	1.91933	1.35205	-0.505448	0.656393	0.51157	0.999883
gene2230	gene2230	rplN	gi 57650036 ref NC_002951.2 :2301969-2302338	MVR	M36C05	OK	207.549	95.4956	-1.11994	1.58218	0.11361	0.667905
gene2231	gene2231	rpsQ	gi 57650036 ref NC_002951.2 :2302369-2302633	MVR	M36C05	OK	252.31	106.772	-1.24067	1.80994	0.07031	0.522414
gene2232	gene2232	rpmC	gi 57650036 ref NC_002951.2 :2302656-2303290	MVR	M36C05	OK	238.234	64.3363	-1.88867	0.617309	0.53703	0.999883
gene2233	gene2233	rplP	gi 57650036 ref NC_002951.2 :2302656-2303290	MVR	M36C05	OK	365.001	193.304	-0.917024	1.12773	0.25943	0.938894
gene2234	gene2234	rpsC	gi 57650036 ref NC_002951.2 :2303292-2303946	MVR	M36C05	OK	265.517	138.806	-0.935738	1.15607	0.24765	0.922459
gene2235	gene2235	rplV	gi 57650036 ref NC_002951.2 :2303969-2304323	MVR	M36C05	OK	158.731	89.3542	-0.828975	1.19505	0.23207	0.902162
gene2236	gene2236	rpsS	gi 57650036 ref NC_002951.2 :2304351-2304630	MVR	M36C05	OK	216.478	116.756	-0.890718	1.29875	0.19403	0.85674
gene2237	gene2237	rplB	gi 57650036 ref NC_002951.2 :2304696-2305530	MVR	M36C05	OK	271.177	131.704	-1.04193	1.2395	0.21516	0.89416
gene2238	gene2238	rplW	gi 57650036 ref NC_002951.2 :2305562-2306461	MVR	M36C05	OK	112.541	81.2578	-0.469878	0.188772	0.85027	0.999883
gene2239	gene2239	rplD	gi 57650036 ref NC_002951.2 :2305562-2306461	MVR	M36C05	OK	225.781	111.94	-1.01219	1.18276	0.2369	0.906613
gene224	gene224	gutB	gi 57650036 ref NC_002951.2 :271040-272096	MVR	M36C05	OK	3.72524	3.34919	-0.15352	0.214404	0.83023	0.999883
gene2240	gene2240	rplC	gi 57650036 ref NC_002951.2 :2306487-2307150	MVR	M36C05	OK	215.334	106.069	-1.02157	1.29334	0.1959	0.858688
gene2241	gene2241	rpsJ	gi 57650036 ref NC_002951.2 :2307177-2307486	MVR	M36C05	OK	147.671	115.057	-0.360044	0.524995	0.59959	0.999883
gene2242	gene2242	SACOL2241	gi 57650036 ref NC_002951.2 :2307842-2308232	MVR	M36C05	OK	195.441	617.063	1.65868	-2.10678	0.03514	0.35865
gene2243	gene2243	SACOL2242	gi 57650036 ref NC_002951.2 :2308423-2309758	MVR	M36C05	OK	146.974	39.142	-1.90877	2.34334	0.01911	0.252566
gene2244	gene2244	topB	gi 57650036 ref NC_002951.2 :2309870-2312006	MVR	M36C05	OK	47.1714	30.3972	-0.633977	0.797975	0.42489	0.999883
gene2245	gene2245	SACOL2245	gi 57650036 ref NC_002951.2 :2312192-2313080	MVR	M36C05	OK	26.155	26.451	0.0162403	-0.023448	0.98129	0.999883
gene2246	gene2246	SACOL2246	gi 57650036 ref NC_002951.2 :2313260-2314124	MVR	M36C05	OK	54.1793	33.0561	-0.712825	0.99313	0.32065	0.999883
gene2247	gene2247	SACOL2247	gi 57650036 ref NC_002951.2 :2314240-2314372	MVR	M36C05	OK	62.2758	53.0518	-0.231271	0.120568	0.90403	0.999883
gene2248	gene2248	SACOL2248	gi 57650036 ref NC_002951.2 :2314542-2315451	MVR	M36C05	OK	17.4145	16.1778	-0.106276	0.155792	0.8762	0.999883
gene2249	gene2249	SACOL2250	gi 57650036 ref NC_002951.2 :2315583-2315748	MVR	M36C05	OK	126.668	94.1888	-0.427421	0.523442	0.60067	0.999883
gene225	gene225	SACOL0234	gi 57650036 ref NC_002951.2 :272097-272244	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2250	gene2250	SACOL2251	gi 57650036 ref NC_002951.2 :2315992-2316310	MVR	M36C05	OK	68.6652	72.116	0.0707409	-0.103958	0.9172	0.999883
gene2251	gene2251	SACOL2252	gi 57650036 ref NC_002951.2 :2316496-2319664	MVR	M36C05	OK	37.7702	33.3754	-0.178464	0.215219	0.8296	0.999883
gene2252	gene2252	femX	gi 57650036 ref NC_002951.2 :2319780-2321046	MVR	M36C05	OK	40.0739	36.093	-0.150943	0.202727	0.83935	0.999883

gene2253	gene2253	SACOL2255	gi 57650036 ref NC_002951.2 :2321677-2322442	MVR	M36C05	OK	11.456	15.0352	0.392235	-0.575218	0.56514	0.999883
gene2254	gene2254	SACOL2256	gi 57650036 ref NC_002951.2 :2322603-2324248	MVR	M36C05	OK	2.14011	1.37293	-0.640425	0.331391	0.74035	0.999883
gene2255	gene2255	SACOL2257	gi 57650036 ref NC_002951.2 :2322603-2324248	MVR	M36C05	OK	1.89416	2.39671	0.339495	-0.42554	0.67044	0.999883
gene2256	gene2256	sarV	gi 57650036 ref NC_002951.2 :2324349-2324700	MVR	M36C05	OK	4.77187	7.88047	0.723728	-0.825333	0.40918	0.999883
gene2257	gene2257	SACOL2259	gi 57650036 ref NC_002951.2 :2324825-2324996	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2258	gene2258	SACOL2260	gi 57650036 ref NC_002951.2 :2325052-2325196	MVR	M36C05	OK	0	24.9484	1.79769e+30	1.79769e+30	0.14732	0.743774
gene2259	gene2259	moaA	gi 57650036 ref NC_002951.2 :2325390-2326413	MVR	M36C05	OK	53.6479	44.2153	-0.278978	0.375271	0.70746	0.999883
gene226	gene226	SACOL0235	gi 57650036 ref NC_002951.2 :272267-273311	MVR	M36C05	OK	4.84948	3.65816	-0.406711	0.575767	0.56477	0.999883
gene2260	gene2260	mobA	gi 57650036 ref NC_002951.2 :2326432-2327032	MVR	M36C05	OK	41.9706	28.1497	-0.576263	0.840969	0.40037	0.999883
gene2261	gene2261	moaD	gi 57650036 ref NC_002951.2 :2327038-2327272	MVR	M36C05	OK	28.9618	32.0026	0.144039	-0.184469	0.85365	0.999883
gene2262	gene2262	moaE	gi 57650036 ref NC_002951.2 :2327277-2327724	MVR	M36C05	OK	32.8278	44.6641	0.444199	-0.652131	0.51432	0.999883
gene2263	gene2263	mobB	gi 57650036 ref NC_002951.2 :2327737-2329479	MVR	M36C05	OK	33.5995	32.4288	-0.0511649	0.034794	0.97224	0.999883
gene2264	gene2264	SACOL2266	gi 57650036 ref NC_002951.2 :2327737-2329479	MVR	M36C05	OK	27.4915	24.025	-0.194454	0.228459	0.81929	0.999883
gene2265	gene2265	moaC	gi 57650036 ref NC_002951.2 :2329541-2330036	MVR	M36C05	OK	105.674	129.134	0.289245	-0.396305	0.69188	0.999883
gene2266	gene2266	moaB	gi 57650036 ref NC_002951.2 :2330037-2330544	MVR	M36C05	OK	26.8057	20.5018	-0.386788	0.567087	0.57066	0.999883
gene2267	gene2267	SACOL2269	gi 57650036 ref NC_002951.2 :2330574-2331579	MVR	M36C05	OK	26.2065	25.8901	-0.017524	0.025078	0.97999	0.999883
gene2268	gene2268	modC	gi 57650036 ref NC_002951.2 :2331748-2332354	MVR	M36C05	OK	50.0344	56.5533	0.176692	-0.252471	0.80068	0.999883
gene2269	gene2269	modB	gi 57650036 ref NC_002951.2 :2332354-2333026	MVR	M36C05	OK	45.9346	55.8794	0.282735	-0.400539	0.68876	0.999883
gene227	gene227	ispD	gi 57650036 ref NC_002951.2 :273838-275573	MVR	M36C05	OK	32.3757	37.562	0.214364	-0.175087	0.86101	0.999883
gene2270	gene2270	modA	gi 57650036 ref NC_002951.2 :2333039-2333822	MVR	M36C05	OK	99.2628	106.155	0.0968446	-0.125113	0.90043	0.999883
gene2271	gene2271	fdhD	gi 57650036 ref NC_002951.2 :2334111-2334909	MVR	M36C05	OK	155.752	256.415	0.719229	-0.856073	0.39196	0.999883
gene2272	gene2272	SACOL2274	gi 57650036 ref NC_002951.2 :2335080-2335851	MVR	M36C05	OK	5.55832	2.8981	-0.939539	1.264	0.20623	0.87934
gene2273	gene2273	SACOL2275	gi 57650036 ref NC_002951.2 :2335922-2336477	MVR	M36C05	OK	4.94203	4.35428	-0.182669	0.235469	0.81385	0.999883
gene2274	gene2274	SACOL2276	gi 57650036 ref NC_002951.2 :2336597-2337539	MVR	M36C05	OK	6.27112	2.08081	-1.59158	2.15731	0.03098	0.336223
gene2275	gene2275	SACOL2277	gi 57650036 ref NC_002951.2 :2337937-2338846	MVR	M36C05	OK	56.341	14.4666	-1.96145	2.75565	0.00586	0.119078
gene2276	gene2276	SACOL2278	gi 57650036 ref NC_002951.2 :2339059-2340214	MVR	M36C05	OK	39.6366	41.4464	0.0644114	-0.086943	0.93072	0.999883
gene2277	gene2277	SACOL2279	gi 57650036 ref NC_002951.2 :2340430-2341336	MVR	M36C05	OK	6.3448	4.5303	-0.485968	0.690977	0.48958	0.999883
gene2278	gene2278	ureA	gi 57650036 ref NC_002951.2 :2341595-2341898	MVR	M36C05	NOTEST	0.61218	0	-1.79769e+30	-1.79769e+30	0.22252	1
gene2279	gene2279	ureB	gi 57650036 ref NC_002951.2 :2341911-2344034	MVR	M36C05	OK	2.77445	3.65056	0.395914	-0.191854	0.84786	0.999883
gene228	gene228	SACOL0237	gi 57650036 ref NC_002951.2 :273838-275573	MVR	M36C05	OK	36.0934	33.9086	-0.0900811	0.093626	0.92541	0.999883
gene2280	gene2280	ureC	gi 57650036 ref NC_002951.2 :2341911-2344034	MVR	M36C05	OK	3.41048	3.12622	-0.125555	0.17171	0.86367	0.999883
gene2281	gene2281	ureE	gi 57650036 ref NC_002951.2 :2344046-2345181	MVR	M36C05	OK	4.82406	5.66983	0.233057	-0.217844	0.82755	0.999883
gene2282	gene2282	ureF	gi 57650036 ref NC_002951.2 :2344046-2345181	MVR	M36C05	OK	2.7601	3.37802	0.291456	-0.294245	0.76857	0.999883

gene2283	gene2283	ureG	gi 57650036 ref NC_002951.2 :2345193-2346644	MVR	M36C05	OK	9.86666	6.91557	-0.512715	0.496898	0.61926	0.999883
gene2284	gene2284	ureD	gi 57650036 ref NC_002951.2 :2345193-2346644	MVR	M36C05	OK	8.2033	5.71433	-0.52162	0.573599	0.56624	0.999883
gene2285	gene2285	sarR	gi 57650036 ref NC_002951.2 :2346832-2347180	MVR	M36C05	OK	39.3669	78.8037	1.00128	-1.46091	0.14404	0.743774
gene2286	gene2286	SACOL2288	gi 57650036 ref NC_002951.2 :2347607-2347934	MVR	M36C05	OK	137.301	235.791	0.780172	-1.10342	0.26985	0.953548
gene2287	gene2287	sarY	gi 57650036 ref NC_002951.2 :2347997-2348741	MVR	M36C05	OK	3.48557	9.32932	1.42038	-1.95758	0.05028	0.441055
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	MVR	M36C05	OK	3.41075	11.8619	1.79817	-2.59839	0.00937	0.161634
gene2289	gene2289	SACOL2291	gi 57650036 ref NC_002951.2 :2351331-2352135	MVR	M36C05	OK	255.457	74.3328	-1.78101	2.19874	0.0279	0.315942
gene229	gene229	SACOL0238	gi 57650036 ref NC_002951.2 :275594-277289	MVR	M36C05	OK	36.4206	27.573	-0.401496	0.530548	0.59573	0.999883
gene2290	gene2290	nhaC	gi 57650036 ref NC_002951.2 :2352567-2353968	MVR	M36C05	OK	6.01247	19.7338	1.71464	-2.47076	0.01348	0.200357
gene2291	gene2291	SACOL2293	gi 57650036 ref NC_002951.2 :2354062-2355145	MVR	M36C05	OK	6.73982	35.214	2.38537	-3.38171	0.00072	0.0270119
gene2292	gene2292	SACOL2294	gi 57650036 ref NC_002951.2 :2355392-2355815	MVR	M36C05	OK	82.847	39.5223	-1.06778	1.5582	0.11919	0.6862
gene2293	gene2293	SACOL2295	gi 57650036 ref NC_002951.2 :2356051-2356552	MVR	M36C05	OK	1361.21	1354.77	-0.0068413	0.007202	0.99425	0.999883
gene2294	gene2294	SACOL2296	gi 57650036 ref NC_002951.2 :2356913-2357867	MVR	M36C05	OK	190.329	219.099	0.203085	-0.234751	0.8144	0.999883
gene2295	gene2295	SACOL2297	gi 57650036 ref NC_002951.2 :2357958-2359083	MVR	M36C05	OK	25.0539	8.5822	-1.54561	2.23352	0.02551	0.303701
gene2296	gene2296	SACOL2298	gi 57650036 ref NC_002951.2 :2359393-2360170	MVR	M36C05	OK	31.8252	12.2365	-1.37898	2.0075	0.0447	0.413637
gene2297	gene2297	SACOL2299	gi 57650036 ref NC_002951.2 :2360191-2360443	MVR	M36C05	OK	24.0272	14.3884	-0.739766	0.902244	0.36693	0.999883
gene2298	gene2298	SACOL2300	gi 57650036 ref NC_002951.2 :2360652-2364080	MVR	M36C05	OK	453.907	1322.73	1.54305	-0.657001	0.51118	0.999883
gene2299	gene2299	SACOL2301	gi 57650036 ref NC_002951.2 :2360652-2364080	MVR	M36C05	OK	199.209	677.855	1.76669	-1.67555	0.09383	0.615061
gene23	gene23	yycI	gi 57650036 ref NC_002951.2 :28819-29608	MVR	M36C05	OK	98.8301	74.7302	-0.403258	0.529966	0.59614	0.999883
gene230	gene230	SACOL0239	gi 57650036 ref NC_002951.2 :277716-278886	MVR	M36C05	OK	31.9609	23.9828	-0.414306	0.580194	0.56178	0.999883
gene2300	gene2300	SACOL2302	gi 57650036 ref NC_002951.2 :2364681-2365635	MVR	M36C05	OK	26.1142	33.64	0.365345	-0.519763	0.60323	0.999883
gene2301	gene2301	SACOL2303	gi 57650036 ref NC_002951.2 :2365761-2366559	MVR	M36C05	OK	40.3386	41.3215	0.0347311	-0.049132	0.96082	0.999883
gene2302	gene2302	SACOL2304	gi 57650036 ref NC_002951.2 :2366943-2367636	MVR	M36C05	OK	52.2314	69.163	0.405084	-0.562445	0.57381	0.999883
gene2303	gene2303	SACOL2305	gi 57650036 ref NC_002951.2 :2367991-2369020	MVR	M36C05	OK	3.90157	0.90974	-2.10053	0.426771	0.66955	0.999883
gene2304	gene2304	SACOL2306	gi 57650036 ref NC_002951.2 :2367991-2369020	MVR	M36C05	OK	16.9487	16.4061	-0.0469386	0.067996	0.94579	0.999883
gene2305	gene2305	SACOL2307	gi 57650036 ref NC_002951.2 :2369068-2369398	MVR	M36C05	OK	1.49907	0	-1.79769e+3(-1.79769e+0.09295		0.611738	
gene2306	gene2306	SACOL2308	gi 57650036 ref NC_002951.2 :2369842-2370715	MVR	M36C05	OK	90.729	71.4547	-0.344535	0.449538	0.65304	0.999883
gene2307	gene2307	SACOL2309	gi 57650036 ref NC_002951.2 :2371101-2372481	MVR	M36C05	OK	166.651	104.256	-0.676692	0.780955	0.43483	0.999883
gene2308	gene2308	SACOL2310	gi 57650036 ref NC_002951.2 :2372760-2373299	MVR	M36C05	OK	70.566	62.8951	-0.166026	0.185845	0.85257	0.999883
gene2309	gene2309	SACOL2311	gi 57650036 ref NC_002951.2 :2372760-2373299	MVR	M36C05	OK	365.7	292.917	-0.320171	0.293969	0.76878	0.999883
gene231	gene231	ispD	gi 57650036 ref NC_002951.2 :279161-280896	MVR	M36C05	OK	39.4912	35.8547	-0.139371	0.079408	0.93671	0.999883
gene2310	gene2310	SACOL2312	gi 57650036 ref NC_002951.2 :2373394-2373586	MVR	M36C05	OK	91.2101	85.6045	-0.0915072	0.122763	0.90229	0.999883
gene2311	gene2311	SACOL2313	gi 57650036 ref NC_002951.2 :2373596-2374232	MVR	M36C05	OK	16.6007	19.7455	0.250284	-0.367541	0.71322	0.999883

gene2312	gene2312	SACOL2314	gi 57650036 ref NC_002951.2 :2374306-2375224	MVR	M36C05	OK	7.24623	9.5234	0.394245	-0.574949	0.56533	0.999883
gene2313	gene2313	SACOL2315	gi 57650036 ref NC_002951.2 :2375491-2376022	MVR	M36C05	OK	11.603	3.00235	-1.95033	2.50336	0.0123	0.189861
gene2314	gene2314	SACOL2316	gi 57650036 ref NC_002951.2 :2376087-2377692	MVR	M36C05	OK	10.376	21.1031	1.0242	-1.45477	0.14573	0.743774
gene2315	gene2315	SACOL2317	gi 57650036 ref NC_002951.2 :2378021-2378786	MVR	M36C05	OK	14.8064	12.3015	-0.267384	0.392635	0.69459	0.999883
gene2316	gene2316	SACOL2318	gi 57650036 ref NC_002951.2 :2378843-2379350	MVR	M36C05	OK	121.656	206.457	0.763026	-1.00779	0.31355	0.995692
gene2317	gene2317	SACOL2319	gi 57650036 ref NC_002951.2 :2379516-2380830	MVR	M36C05	OK	9.97981	6.92712	-0.526757	0.773659	0.43913	0.999883
gene2318	gene2318	SACOL2320	gi 57650036 ref NC_002951.2 :2381054-2381624	MVR	M36C05	OK	9.62628	19.9923	1.0544	-1.51724	0.12921	0.7118
gene2319	gene2319	SACOL2321	gi 57650036 ref NC_002951.2 :2382110-2382992	MVR	M36C05	OK	49.3209	437.295	3.14834	-3.77824	0.00016	0.0084046
gene232	gene232	SACOL0241	gi 57650036 ref NC_002951.2 :279161-280896	MVR	M36C05	OK	90.7803	80.6331	-0.171006	0.186588	0.85198	0.999883
gene2320	gene2320	SACOL2322	gi 57650036 ref NC_002951.2 :2383102-2384224	MVR	M36C05	OK	18.8206	25.3521	0.429793	-0.615542	0.5382	0.999883
gene2321	gene2321	hutI	gi 57650036 ref NC_002951.2 :2384500-2387400	MVR	M36C05	OK	19.6479	32.8935	0.743427	-0.724611	0.46869	0.999883
gene2322	gene2322	hutU	gi 57650036 ref NC_002951.2 :2384500-2387400	MVR	M36C05	OK	12.6899	17.5658	0.469091	-0.415335	0.6779	0.999883
gene2323	gene2323	SACOL2325	gi 57650036 ref NC_002951.2 :2387559-2388444	MVR	M36C05	OK	37.3315	28.6602	-0.381346	0.542723	0.58732	0.999883
gene2324	gene2324	fosB	gi 57650036 ref NC_002951.2 :2388865-2389285	MVR	M36C05	OK	37.4541	13.5172	-1.47033	2.10437	0.03535	0.359272
gene2325	gene2325	hutG	gi 57650036 ref NC_002951.2 :2389540-2390476	MVR	M36C05	OK	28.3346	334.448	3.56114	-4.39372	1.11E-05	0.0008765
gene2326	gene2326	SACOL2328	gi 57650036 ref NC_002951.2 :2390765-2392025	MVR	M36C05	OK	179.288	162.559	-0.141318	0.160466	0.87251	0.999883
gene2327	gene2327	rpiA	gi 57650036 ref NC_002951.2 :2392090-2392777	MVR	M36C05	OK	32.3255	21.073	-0.61728	0.902455	0.36682	0.999883
gene2328	gene2328	SACOL2330	gi 57650036 ref NC_002951.2 :2392950-2393604	MVR	M36C05	OK	36.1636	51.2925	0.504208	-0.723557	0.46934	0.999883
gene2329	gene2329	SACOL2331	gi 57650036 ref NC_002951.2 :2393733-2394859	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene233	gene233	SACOL0242	gi 57650036 ref NC_002951.2 :280917-282606	MVR	M36C05	OK	68.9076	66.7678	-0.04551	0.055195	0.95598	0.999883
gene2330	gene2330	galM	gi 57650036 ref NC_002951.2 :2393733-2394859	MVR	M36C05	OK	7.05267	4.97563	-0.503291	0.721762	0.47044	0.999883
gene2331	gene2331	SACOL2333	gi 57650036 ref NC_002951.2 :2394888-2395215	MVR	M36C05	OK	14.8019	8.3614	-0.82397	1.03148	0.30232	0.987655
gene2332	gene2332	SACOL2334	gi 57650036 ref NC_002951.2 :2395432-2397557	MVR	M36C05	OK	24.7493	27.7485	0.165018	-0.187535	0.85124	0.999883
gene2333	gene2333	SACOL2335	gi 57650036 ref NC_002951.2 :2395432-2397557	MVR	M36C05	OK	17.3867	14.6529	-0.246804	0.179241	0.85775	0.999883
gene2334	gene2334	SACOL2336	gi 57650036 ref NC_002951.2 :2397626-2397725	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2335	gene2335	SACOL2338	gi 57650036 ref NC_002951.2 :2397787-2398435	MVR	M36C05	OK	33.5037	35.9677	0.102383	-0.148874	0.88165	0.999883
gene2336	gene2336	SACOL2339	gi 57650036 ref NC_002951.2 :2398833-2399442	MVR	M36C05	OK	6.6801	4.85807	-0.459485	0.621864	0.53403	0.999883
gene2337	gene2337	gltS	gi 57650036 ref NC_002951.2 :2399778-2400987	MVR	M36C05	OK	25.7678	7.53932	-1.77306	2.5482	0.01083	0.175699
gene2338	gene2338	fni	gi 57650036 ref NC_002951.2 :2401034-2402084	MVR	M36C05	OK	50.125	31.3935	-0.675062	0.923856	0.35556	0.999883
gene2339	gene2339	SACOL2342	gi 57650036 ref NC_002951.2 :2402114-2403062	MVR	M36C05	OK	16.1537	17.6923	0.131254	-0.192096	0.84767	0.999883
gene234	gene234	SACOL0243	gi 57650036 ref NC_002951.2 :282641-284363	MVR	M36C05	OK	139.543	95.9513	-0.540336	0.615121	0.53848	0.999883
gene2340	gene2340	SACOL2343	gi 57650036 ref NC_002951.2 :2403158-2404066	MVR	M36C05	OK	69.1971	116.468	0.751146	-0.762055	0.44603	0.999883
gene2341	gene2341	SACOL2344	gi 57650036 ref NC_002951.2 :2403158-2404066	MVR	M36C05	OK	56.0337	128.163	1.19361	-1.02171	0.30692	0.991033

gene2342	gene2342	SACOL2345	gi 57650036 ref NC_002951.2 :2404173-2405076	MVR	M36C05	OK	41.7678	24.6309	-0.761922	1.0806	0.27988	0.965951
gene2343	gene2343	SACOL2346	gi 57650036 ref NC_002951.2 :2405301-2405940	MVR	M36C05	OK	27.3272	29.6669	0.118518	-0.173557	0.86221	0.999883
gene2344	gene2344	SACOL2347	gi 57650036 ref NC_002951.2 :2406185-2408117	MVR	M36C05	OK	5.47908	2.54526	-1.10612	1.60939	0.10753	0.653986
gene2345	gene2345	SACOL2348	gi 57650036 ref NC_002951.2 :2408129-2408777	MVR	M36C05	OK	4.96351	1.47813	-1.74759	2.0747	0.03801	0.378414
gene2346	gene2346	SACOL2349	gi 57650036 ref NC_002951.2 :2408897-2409449	MVR	M36C05	OK	44.7049	48.3058	0.111764	-0.162223	0.87113	0.999883
gene2347	gene2347	tcaB	gi 57650036 ref NC_002951.2 :2409678-2410887	MVR	M36C05	OK	11.3402	11.3636	0.00297463	-0.004364	0.99652	0.999883
gene2348	gene2348	SACOL2351	gi 57650036 ref NC_002951.2 :2410996-2411125	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2349	gene2349	tcaA	gi 57650036 ref NC_002951.2 :2411155-2412538	MVR	M36C05	OK	9.53719	6.24324	-0.61127	0.897388	0.36951	0.999883
gene235	gene235	scdA	gi 57650036 ref NC_002951.2 :284502-285177	MVR	M36C05	OK	57.2959	65.7482	0.198519	-0.276286	0.78233	0.999883
gene2350	gene2350	tcaR	gi 57650036 ref NC_002951.2 :2412777-2413233	MVR	M36C05	OK	42.3677	37.934	-0.159473	0.234418	0.81466	0.999883
gene2351	gene2351	SACOL2354	gi 57650036 ref NC_002951.2 :2413427-2414396	MVR	M36C05	OK	11.0675	28.3942	1.35927	-1.96728	0.04915	0.435378
gene2352	gene2352	SACOL2355	gi 57650036 ref NC_002951.2 :2414970-2415327	MVR	M36C05	OK	0.8351	1.38231	0.727058	-0.439887	0.66002	0.999883
gene2353	gene2353	SACOL2356	gi 57650036 ref NC_002951.2 :2415466-2417187	MVR	M36C05	OK	3.43892	6.63099	0.94727	-0.832079	0.40537	0.999883
gene2354	gene2354	SACOL2357	gi 57650036 ref NC_002951.2 :2415466-2417187	MVR	M36C05	OK	2.88179	6.69839	1.21685	-1.39909	0.16179	0.786331
gene2355	gene2355	SACOL2358	gi 57650036 ref NC_002951.2 :2417322-2419363	MVR	M36C05	OK	9.4629	10.4547	0.143792	-0.077697	0.93807	0.999883
gene2356	gene2356	SACOL2359	gi 57650036 ref NC_002951.2 :2417322-2419363	MVR	M36C05	OK	24.5635	18.9673	-0.373003	0.474401	0.63521	0.999883
gene2357	gene2357	SACOL2360	gi 57650036 ref NC_002951.2 :2419525-2420421	MVR	M36C05	OK	10.2953	19.8914	0.950159	-1.03881	0.29889	0.981436
gene2358	gene2358	SACOL2361	gi 57650036 ref NC_002951.2 :2419525-2420421	MVR	M36C05	OK	10.5293	8.62137	-0.288415	0.262456	0.79297	0.999883
gene2359	gene2359	mqs1	gi 57650036 ref NC_002951.2 :2420486-2421965	MVR	M36C05	OK	183.939	139.79	-0.395963	0.443767	0.65721	0.999883
gene236	gene236	lytS	gi 57650036 ref NC_002951.2 :285423-287178	MVR	M36C05	OK	11.8046	10.49	-0.170331	0.246321	0.80543	0.999883
gene2360	gene2360	SACOL2363	gi 57650036 ref NC_002951.2 :2422345-2423944	MVR	M36C05	OK	25.0536	33.5632	0.421859	-0.566412	0.57111	0.999883
gene2361	gene2361	SACOL2364	gi 57650036 ref NC_002951.2 :2424260-2425934	MVR	M36C05	OK	15.9731	15.7029	-0.0246173	0.034922	0.97214	0.999883
gene2362	gene2362	SACOL2365	gi 57650036 ref NC_002951.2 :2426086-2426716	MVR	M36C05	OK	67.5267	475.898	2.81712	-3.48144	0.0005	0.0200515
gene2363	gene2363	SACOL2366	gi 57650036 ref NC_002951.2 :2427029-2427545	MVR	M36C05	OK	13.1936	10.1337	-0.380677	0.539238	0.58972	0.999883
gene2364	gene2364	SACOL2367	gi 57650036 ref NC_002951.2 :2427735-2428740	MVR	M36C05	OK	28.6026	25.4792	-0.166825	0.238097	0.81181	0.999883
gene2365	gene2365	SACOL2368	gi 57650036 ref NC_002951.2 :2428785-2429187	MVR	M36C05	OK	7.42372	14.6908	0.984695	-1.29893	0.19397	0.85674
gene2366	gene2366	SACOL2369	gi 57650036 ref NC_002951.2 :2429222-2430257	MVR	M36C05	OK	14.3493	17.0355	0.247565	-0.361907	0.71742	0.999883
gene2367	gene2367	SACOL2371	gi 57650036 ref NC_002951.2 :2430488-2430920	MVR	M36C05	OK	58.7971	29.4605	-0.996964	1.46075	0.14408	0.743774
gene2368	gene2368	SACOL2372	gi 57650036 ref NC_002951.2 :2430971-2431064	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2369	gene2369	SACOL2373	gi 57650036 ref NC_002951.2 :2431126-2432404	MVR	M36C05	OK	6.93588	2.35212	-1.56012	2.21295	0.0269	0.309278
gene237	gene237	lytR	gi 57650036 ref NC_002951.2 :287180-287921	MVR	M36C05	OK	9.0472	6.11813	-0.564379	0.805482	0.42054	0.999883
gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	MVR	M36C05	OK	25.5739	8.85111	-1.53074	2.21385	0.02684	0.309278
gene2371	gene2371	SACOL2375	gi 57650036 ref NC_002951.2 :2433233-2434178	MVR	M36C05	OK	51.9879	27.5336	-0.916986	1.27504	0.2023	0.871437

gene2372	gene2372	SACOL2376	gi 57650036 ref NC_002951.2 :2434263-2435706	MVR	M36C05	OK	4.41399	5.67562	0.362695	-0.52994	0.59615	0.999883
gene2373	gene2373	SACOL2377	gi 57650036 ref NC_002951.2 :2435888-2436272	MVR	M36C05	OK	92.1258	138.098	0.58402	-0.834937	0.40375	0.999883
gene2374	gene2374	SACOL2378	gi 57650036 ref NC_002951.2 :2437759-2439865	MVR	M36C05	OK	17.1865	12.0844	-0.508134	0.709317	0.47813	0.999883
gene2375	gene2375	SACOL2379	gi 57650036 ref NC_002951.2 :2439935-2440358	MVR	M36C05	OK	139.532	1079.45	2.95163	-3.60805	0.00031	0.0136973
gene2376	gene2376	SACOL2380	gi 57650036 ref NC_002951.2 :2440453-2440576	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2377	gene2377	SACOL2381	gi 57650036 ref NC_002951.2 :2440622-2440979	MVR	M36C05	OK	29.6461	44.2339	0.577311	-0.837532	0.40229	0.999883
gene2378	gene2378	SACOL2382	gi 57650036 ref NC_002951.2 :2441382-2442660	MVR	M36C05	OK	148.15	128.14	-0.209346	0.242811	0.80815	0.999883
gene2379	gene2379	SACOL2383	gi 57650036 ref NC_002951.2 :2442841-2443207	MVR	M36C05	OK	34.3651	12.4675	-1.46277	2.0381	0.04154	0.39608
gene238	gene238	lrgA	gi 57650036 ref NC_002951.2 :288033-289171	MVR	M36C05	OK	2.37584	2.26039	-0.0718677	0.040959	0.96733	0.999883
gene2380	gene2380	sarZ	gi 57650036 ref NC_002951.2 :2443604-2444051	MVR	M36C05	OK	14.5901	6.25298	-1.22238	1.63979	0.10105	0.639058
gene2381	gene2381	SACOL2385	gi 57650036 ref NC_002951.2 :2444266-2444695	MVR	M36C05	OK	175.192	101.073	-0.793533	1.10059	0.27108	0.954536
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	MVR	M36C05	OK	2.59643	13.5259	2.38112	-3.36392	0.00077	0.0282292
gene2383	gene2383	SACOL2387	gi 57650036 ref NC_002951.2 :2446340-2447974	MVR	M36C05	OK	1.69248	0.92549	-0.870852	0.691108	0.4895	0.999883
gene2384	gene2384	SACOL2388	gi 57650036 ref NC_002951.2 :2446340-2447974	MVR	M36C05	OK	2.60107	3.263	0.327096	-0.351076	0.72553	0.999883
gene2385	gene2385	SACOL2389	gi 57650036 ref NC_002951.2 :2448231-2448885	MVR	M36C05	OK	32.085	22.6076	-0.505093	0.739543	0.45958	0.999883
gene2386	gene2386	SACOL2390	gi 57650036 ref NC_002951.2 :2448907-2449942	MVR	M36C05	OK	30.1407	37.7686	0.325475	-0.453846	0.64994	0.999883
gene2387	gene2387	SACOL2391	gi 57650036 ref NC_002951.2 :2449965-2450418	MVR	M36C05	OK	26.4054	39.2526	0.571958	-0.83833	0.40185	0.999883
gene2388	gene2388	narI	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	M36C05	OK	19.3159	30.2433	0.646826	-0.534398	0.59307	0.999883
gene2389	gene2389	narJ	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	M36C05	OK	0.637	5.36448	3.07408	-0.617666	0.5368	0.999883
gene239	gene239	lrgB	gi 57650036 ref NC_002951.2 :288033-289171	MVR	M36C05	OK	3.91397	6.81407	0.799884	-1.00613	0.31435	0.997798
gene2390	gene2390	narH	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	M36C05	OK	2.14509	8.3479	1.96038	-1.18829	0.23472	0.903063
gene2391	gene2391	narG	gi 57650036 ref NC_002951.2 :2450437-2456914	MVR	M36C05	OK	1.63702	6.12474	1.90358	-1.6048	0.10854	0.655122
gene2392	gene2392	SACOL2396	gi 57650036 ref NC_002951.2 :2457223-2458506	MVR	M36C05	OK	6.28204	12.0482	0.939518	-1.3352	0.18181	0.829614
gene2393	gene2393	nirD	gi 57650036 ref NC_002951.2 :2457223-2458506	MVR	M36C05	OK	2.78684	3.63897	0.3849	-0.125963	0.89976	0.999883
gene2394	gene2394	nirB	gi 57650036 ref NC_002951.2 :2458509-2460915	MVR	M36C05	OK	2.30534	3.89639	0.757162	-1.10577	0.26883	0.952424
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	MVR	M36C05	OK	4.48861	5.18484	0.208031	-0.285192	0.7755	0.999883
gene2396	gene2396	SACOL2400	gi 57650036 ref NC_002951.2 :2461941-2462478	MVR	M36C05	OK	10.4491	20.642	0.982204	-1.41144	0.15812	0.776836
gene2397	gene2397	SACOL2401	gi 57650036 ref NC_002951.2 :2462710-2463535	MVR	M36C05	OK	13.6207	13.4133	-0.0221398	0.032553	0.97403	0.999883
gene2398	gene2398	SACOL2402	gi 57650036 ref NC_002951.2 :2464017-2464485	MVR	M36C05	OK	18.136	30.8912	0.768337	-1.1182	0.26348	0.945272
gene2399	gene2399	SACOL2403	gi 57650036 ref NC_002951.2 :2464670-2466221	MVR	M36C05	OK	4.98038	8.64831	0.796162	-1.16685	0.24327	0.916482
gene24	gene24	yycJ	gi 57650036 ref NC_002951.2 :29997-30798	MVR	M36C05	OK	55.836	48.0898	-0.215466	0.297777	0.76587	0.999883
gene240	gene240	SACOL0249	gi 57650036 ref NC_002951.2 :289278-289983	MVR	M36C05	OK	45.9456	114.494	1.31728	-1.78402	0.07442	0.538042
gene2400	gene2400	SACOL2404	gi 57650036 ref NC_002951.2 :2466515-2467033	MVR	M36C05	OK	12.7354	34.0752	1.41988	-1.02138	0.30708	0.991033

gene2401	gene2401	SACOL2405	gi 57650036 ref NC_002951.2 :2466515-2467033	MVR	M36C05	OK	51.0578	105.515	1.04724	-1.31229	0.18942	0.848649
gene2402	gene2402	SACOL2406	gi 57650036 ref NC_002951.2 :2467197-2467296	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2403	gene2403	SACOL2407	gi 57650036 ref NC_002951.2 :2467305-2467905	MVR	M36C05	OK	55.8054	38.9128	-0.520161	0.749485	0.45357	0.999883
gene2404	gene2404	SACOL2408	gi 57650036 ref NC_002951.2 :2467923-2468295	MVR	M36C05	OK	57.1644	36.8086	-0.635073	0.931789	0.35145	0.999883
gene2405	gene2405	fmhA	gi 57650036 ref NC_002951.2 :2468540-2469791	MVR	M36C05	OK	11.3321	7.1329	-0.66786	0.980075	0.32705	0.999883
gene2406	gene2406	SACOL2410	gi 57650036 ref NC_002951.2 :2469887-2472095	MVR	M36C05	OK	354.715	268.989	-0.399111	0.301949	0.76269	0.999883
gene2407	gene2407	SACOL2411	gi 57650036 ref NC_002951.2 :2469887-2472095	MVR	M36C05	OK	181.536	198.769	0.130831	-0.077059	0.93858	0.999883
gene2408	gene2408	SACOL2412	gi 57650036 ref NC_002951.2 :2469887-2472095	MVR	M36C05	OK	125.142	94.7218	-0.401798	0.188612	0.8504	0.999883
gene2409	gene2409	SACOL2413	gi 57650036 ref NC_002951.2 :2472215-2473613	MVR	M36C05	OK	21.9692	22.1756	0.0134946	-0.018936	0.98489	0.999883
gene241	gene241	SACOL0250	gi 57650036 ref NC_002951.2 :290131-290923	MVR	M36C05	OK	1.95587	1.49075	-0.391778	0.461825	0.64421	0.999883
gene2410	gene2410	SACOL2414	gi 57650036 ref NC_002951.2 :2473829-2473934	MVR	M36C05	OK	0	3033.39	1.79769e+30	1.79769e+	0.06916	0.522414
gene2411	gene2411	gpmA	gi 57650036 ref NC_002951.2 :2474087-2474774	MVR	M36C05	OK	141.55	246.304	0.799127	-0.982195	0.326	0.999883
gene2412	gene2412	SACOL2416	gi 57650036 ref NC_002951.2 :2475099-2475966	MVR	M36C05	OK	10.7308	15.5441	0.534617	-0.784746	0.4326	0.999883
gene2413	gene2413	SACOL2418	gi 57650036 ref NC_002951.2 :2476717-2478028	MVR	M36C05	OK	16.0333	4.56441	-1.81257	2.62472	0.00867	0.152769
gene2414	gene2414	hlgA	gi 57650036 ref NC_002951.2 :2478563-2479493	MVR	M36C05	OK	30.8116	17.8269	-0.789421	1.13946	0.25451	0.932605
gene2415	gene2415	SACOL2420	gi 57650036 ref NC_002951.2 :2479556-2479682	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2416	gene2416	hlgC	gi 57650036 ref NC_002951.2 :2480060-2481008	MVR	M36C05	OK	15.4268	8.10895	-0.927849	1.35873	0.17423	0.821477
gene2417	gene2417	hlgB	gi 57650036 ref NC_002951.2 :2481009-2481987	MVR	M36C05	OK	13.805	10.7725	-0.357829	0.5259	0.59896	0.999883
gene2418	gene2418	SACOL2423	gi 57650036 ref NC_002951.2 :2482038-2482506	MVR	M36C05	OK	1.67042	3.70694	1.15002	-1.20074	0.22985	0.898677
gene2419	gene2419	bioW	gi 57650036 ref NC_002951.2 :2482516-2483209	MVR	M36C05	OK	3.11643	3.1336	0.00792584	-0.010123	0.99192	0.999883
gene242	gene242	bglA	gi 57650036 ref NC_002951.2 :290938-292375	MVR	M36C05	OK	4.62868	7.57453	0.710555	-1.04018	0.29826	0.980231
gene2420	gene2420	SACOL2425	gi 57650036 ref NC_002951.2 :2483219-2485320	MVR	M36C05	OK	2.16352	2.40739	0.154091	-0.154757	0.87701	0.999883
gene2421	gene2421	bioB	gi 57650036 ref NC_002951.2 :2483219-2485320	MVR	M36C05	OK	2.75981	2.59304	-0.0899242	0.091688	0.92695	0.999883
gene2422	gene2422	bioA	gi 57650036 ref NC_002951.2 :2485321-2487344	MVR	M36C05	OK	1.75196	1.61693	-0.115706	0.136848	0.89115	0.999883
gene2423	gene2423	bioD	gi 57650036 ref NC_002951.2 :2485321-2487344	MVR	M36C05	OK	1.13644	1.58614	0.480991	-0.324306	0.74571	0.999883
gene2424	gene2424	SACOL2429	gi 57650036 ref NC_002951.2 :2487564-2487708	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	MVR	M36C05	OK	2.01415	1.79623	-0.1652	0.230047	0.81806	0.999883
gene2426	gene2426	SACOL2431	gi 57650036 ref NC_002951.2 :2489553-2491317	MVR	M36C05	OK	1.25332	1.26847	0.0173338	-0.023048	0.98161	0.999883
gene2427	gene2427	SACOL2433	gi 57650036 ref NC_002951.2 :2491944-2492052	MVR	M36C05	OK	6177.46	0	-1.79769e+30	-1.79769e+	0.01669	0.231165
gene2428	gene2428	SACOL2434	gi 57650036 ref NC_002951.2 :2492186-2492573	MVR	M36C05	OK	4.89731	13.4806	1.46082	-1.80417	0.0712	0.523314
gene2429	gene2429	SACOL2435	gi 57650036 ref NC_002951.2 :2492840-2493983	MVR	M36C05	OK	31.0542	51.7955	0.738042	-0.998219	0.31817	0.999883
gene243	gene243	SACOL0252	gi 57650036 ref NC_002951.2 :292808-293570	MVR	M36C05	OK	3.36902	4.90764	0.542703	-0.732213	0.46404	0.999883
gene2430	gene2430	SACOL2436	gi 57650036 ref NC_002951.2 :2494042-2494702	MVR	M36C05	OK	54.4383	108.922	1.0006	-1.36249	0.17304	0.821192

gene2431	gene2431	bcr	gi 57650036 ref NC_002951.2 :2494883-2496095	MVR	M36C05	OK	69.4329	48.37	-0.521508	0.673857	0.5004	0.999883
gene2432	gene2432	SACOL2438	gi 57650036 ref NC_002951.2 :2496217-2496691	MVR	M36C05	OK	7.22337	13.2958	0.88023	-1.20166	0.22949	0.898537
gene2433	gene2433	SACOL2439	gi 57650036 ref NC_002951.2 :2496803-2497460	MVR	M36C05	OK	45.7693	92.0091	1.0074	-1.39341	0.1635	0.793042
gene2434	gene2434	SACOL2440	gi 57650036 ref NC_002951.2 :2497522-2498329	MVR	M36C05	OK	5.11496	7.9962	0.644592	-0.916377	0.35947	0.999883
gene2435	gene2435	SACOL2441	gi 57650036 ref NC_002951.2 :2498614-2500024	MVR	M36C05	OK	90.637	101.396	0.161836	-0.193078	0.8469	0.999883
gene2436	gene2436	SACOL2442	gi 57650036 ref NC_002951.2 :2500161-2502240	MVR	M36C05	OK	30.3958	22.7566	-0.417586	0.549271	0.58282	0.999883
gene2437	gene2437	SACOL2443	gi 57650036 ref NC_002951.2 :2502379-2504209	MVR	M36C05	OK	28.2245	13.3879	-1.07603	1.47749	0.13954	0.736061
gene2438	gene2438	SACOL2445	gi 57650036 ref NC_002951.2 :2504440-2505937	MVR	M36C05	OK	25.5445	21.7567	-0.231557	0.320227	0.7488	0.999883
gene2439	gene2439	SACOL2446	gi 57650036 ref NC_002951.2 :2506028-2506880	MVR	M36C05	OK	20.7635	31.8044	0.615178	-0.88956	0.3737	0.999883
gene244	gene244	rbsK	gi 57650036 ref NC_002951.2 :293820-294735	MVR	M36C05	OK	12.4398	12.6484	0.0239932	-0.035284	0.97185	0.999883
gene2440	gene2440	SACOL2448	gi 57650036 ref NC_002951.2 :2507201-2508137	MVR	M36C05	OK	11.9087	6.89274	-0.788871	1.15226	0.24922	0.922545
gene2441	gene2441	SACOL2449	gi 57650036 ref NC_002951.2 :2508362-2509763	MVR	M36C05	OK	40.0997	52.3175	0.383704	-0.499233	0.61762	0.999883
gene2442	gene2442	SACOL2450	gi 57650036 ref NC_002951.2 :2510056-2511693	MVR	M36C05	OK	27.3743	60.0675	1.13377	-0.937357	0.34858	0.999883
gene2443	gene2443	SACOL2451	gi 57650036 ref NC_002951.2 :2510056-2511693	MVR	M36C05	OK	25.1659	64.505	1.35794	-1.37965	0.16769	0.806453
gene2444	gene2444	SACOL2452	gi 57650036 ref NC_002951.2 :2511709-2513568	MVR	M36C05	OK	14.0467	46.8324	1.73727	-1.06989	0.28467	0.971771
gene2445	gene2445	SACOL2453	gi 57650036 ref NC_002951.2 :2511709-2513568	MVR	M36C05	OK	20.466	68.7033	1.74715	-2.01222	0.0442	0.409545
gene2446	gene2446	SACOL2454	gi 57650036 ref NC_002951.2 :2513894-2514014	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2447	gene2447	SACOL2456	gi 57650036 ref NC_002951.2 :2514237-2515000	MVR	M36C05	OK	38.3954	27.0458	-0.50553	0.739119	0.45984	0.999883
gene2448	gene2448	SACOL2457	gi 57650036 ref NC_002951.2 :2514237-2515000	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2449	gene2449	SACOL2458	gi 57650036 ref NC_002951.2 :2515016-2516654	MVR	M36C05	OK	30.8567	30.2763	-0.027399	0.036482	0.9709	0.999883
gene245	gene245	SACOL0254	gi 57650036 ref NC_002951.2 :294762-295167	MVR	M36C05	OK	5.72047	3.75458	-0.607482	0.700959	0.48333	0.999883
gene2450	gene2450	pnbA	gi 57650036 ref NC_002951.2 :2517261-2518614	MVR	M36C05	OK	14.2455	97.1388	2.76954	-3.61552	0.0003	0.0133906
gene2451	gene2451	SACOL2460	gi 57650036 ref NC_002951.2 :2518675-2519863	MVR	M36C05	OK	8.61455	10.1547	0.237299	-0.348829	0.72722	0.999883
gene2452	gene2452	SACOL2461	gi 57650036 ref NC_002951.2 :2520258-2521690	MVR	M36C05	OK	7.82413	50.2842	2.6841	-3.12703	0.00177	0.0528066
gene2453	gene2453	SACOL2462	gi 57650036 ref NC_002951.2 :2520258-2521690	MVR	M36C05	OK	5.06042	24.0742	2.25016	-1.73097	0.08346	0.574119
gene2454	gene2454	pepA2	gi 57650036 ref NC_002951.2 :2521937-2523014	MVR	M36C05	OK	61.7019	91.7811	0.572882	-0.730439	0.46512	0.999883
gene2455	gene2455	SACOL2464	gi 57650036 ref NC_002951.2 :2523368-2523892	MVR	M36C05	OK	46.6965	55.8833	0.259102	-0.259987	0.79487	0.999883
gene2456	gene2456	SACOL2465	gi 57650036 ref NC_002951.2 :2523368-2523892	MVR	M36C05	OK	60.7722	67.3241	0.147712	-0.158151	0.87434	0.999883
gene2457	gene2457	SACOL2466	gi 57650036 ref NC_002951.2 :2523997-2524192	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2458	gene2458	SACOL2467	gi 57650036 ref NC_002951.2 :2524250-2524706	MVR	M36C05	OK	36.6017	61.6428	0.752021	-1.09877	0.27187	0.956024
gene2459	gene2459	SACOL2469	gi 57650036 ref NC_002951.2 :2524873-2526451	MVR	M36C05	OK	15.5072	19.8371	0.355264	-0.502035	0.61564	0.999883
gene246	gene246	SACOL0255	gi 57650036 ref NC_002951.2 :295181-296063	MVR	M36C05	OK	7.28705	6.95402	-0.0674876	0.09762	0.92223	0.999883
gene2460	gene2460	SACOL2470	gi 57650036 ref NC_002951.2 :2526645-2527395	MVR	M36C05	OK	14.0057	11.0327	-0.344217	0.504278	0.61407	0.999883

gene2461	gene2461	SACOL2471	gi 57650036 ref NC_002951.2 :2527618-2528812	MVR	M36C05	OK	4.34093	5.98946	0.46442	-0.672542	0.50124	0.999883
gene2462	gene2462	SACOL2472	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	M36C05	OK	2.66774	0.60179	-2.1483	1.07241	0.28354	0.96973
gene2463	gene2463	SACOL2473	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	M36C05	OK	1.58031	1.61166	0.0283378	-0.018159	0.98551	0.999883
gene2464	gene2464	SACOL2474	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	M36C05	OK	2.26291	1.31697	-0.780956	0.546404	0.58479	0.999883
gene2465	gene2465	SACOL2475	gi 57650036 ref NC_002951.2 :2528823-2532179	MVR	M36C05	OK	2.54601	2.54732	0.00074265	-0.000661	0.99947	0.999883
gene2466	gene2466	SACOL2476	gi 57650036 ref NC_002951.2 :2532191-2533790	MVR	M36C05	OK	4.59388	8.74534	0.928801	-1.35966	0.17394	0.821477
gene2467	gene2467	SACOL2477	gi 57650036 ref NC_002951.2 :2533932-2535147	MVR	M36C05	OK	0.41309	1.08619	1.39473	-1.46857	0.14195	0.740572
gene2468	gene2468	SACOL2478	gi 57650036 ref NC_002951.2 :2535226-2536045	MVR	M36C05	NOTEST	0.98272	0.71282	-0.463245	0.464312	0.64242	1
gene2469	gene2469	SACOL2479	gi 57650036 ref NC_002951.2 :2536055-2536877	MVR	M36C05	OK	1.07557	0.53203	-1.01552	0.980199	0.32699	0.999883
gene247	gene247	SACOL0257	gi 57650036 ref NC_002951.2 :296294-297293	MVR	M36C05	OK	6.03642	29.2591	2.27712	-3.25879	0.00112	0.0373153
gene2470	gene2470	SACOL2480	gi 57650036 ref NC_002951.2 :2537024-2537156	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2471	gene2471	SACOL2481	gi 57650036 ref NC_002951.2 :2537619-2537985	MVR	M36C05	OK	6.71501	71.524	3.41297	-4.43909	9.03E-06	0.0007783
gene2472	gene2472	fabG2	gi 57650036 ref NC_002951.2 :2538247-2539066	MVR	M36C05	OK	11.1047	124.921	3.49177	-4.69936	2.61E-06	0.0002518
gene2473	gene2473	SACOL2483	gi 57650036 ref NC_002951.2 :2539298-2540837	MVR	M36C05	OK	40.7848	116.976	1.52011	-1.85588	0.06347	0.504373
gene2474	gene2474	SACOL2484	gi 57650036 ref NC_002951.2 :2540948-2541371	MVR	M36C05	OK	22.0925	204.034	3.20718	-4.42492	9.65E-06	0.0008119
gene2475	gene2475	SACOL2485	gi 57650036 ref NC_002951.2 :2541822-2542242	MVR	M36C05	OK	83.4607	178.227	1.09454	-1.52643	0.1269	0.707666
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	MVR	M36C05	OK	26.8372	79.1006	1.55946	-2.26082	0.02377	0.292955
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	MVR	M36C05	OK	1.16277	5.92835	2.35007	-2.13427	0.03282	0.347766
gene2478	gene2478	SACOL2488	gi 57650036 ref NC_002951.2 :2543618-2544314	MVR	M36C05	OK	72.709	205.787	1.50095	-1.92232	0.05457	0.462964
gene2479	gene2479	SACOL2489	gi 57650036 ref NC_002951.2 :2544761-2544884	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene248	gene248	SACOL0258	gi 57650036 ref NC_002951.2 :297443-297623	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2480	gene2480	SACOL2491	gi 57650036 ref NC_002951.2 :2545143-2545335	MVR	M36C05	OK	96.5754	166.929	0.789505	-1.09573	0.2732	0.958375
gene2481	gene2481	SACOL2492	gi 57650036 ref NC_002951.2 :2545769-2545892	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2482	gene2482	SACOL2493	gi 57650036 ref NC_002951.2 :2545895-2546690	MVR	M36C05	OK	5.8368	6.11828	0.0679468	-0.096215	0.92335	0.999883
gene2483	gene2483	SACOL2494	gi 57650036 ref NC_002951.2 :2547225-2547513	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2484	gene2484	SACOL2495	gi 57650036 ref NC_002951.2 :2547515-2547842	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2485	gene2485	SACOL2496	gi 57650036 ref NC_002951.2 :2548053-2549948	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2486	gene2486	SACOL2497	gi 57650036 ref NC_002951.2 :2548053-2549948	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2487	gene2487	SACOL2498	gi 57650036 ref NC_002951.2 :2550059-2550836	MVR	M36C05	OK	6.0267	4.20628	-0.518821	0.72022	0.47139	0.999883
gene2488	gene2488	SACOL2499	gi 57650036 ref NC_002951.2 :2551138-2554000	MVR	M36C05	OK	11.7739	9.97593	-0.239066	0.332372	0.73961	0.999883
gene2489	gene2489	SACOL2500	gi 57650036 ref NC_002951.2 :2554001-2554394	MVR	M36C05	OK	16.5879	19.9011	0.262717	-0.37018	0.71125	0.999883
gene249	gene249	SACOL0259	gi 57650036 ref NC_002951.2 :297672-298065	MVR	M36C05	OK	4.73939	4.54882	-0.0592108	0.067562	0.94613	0.999883
gene2490	gene2490	SACOL2501	gi 57650036 ref NC_002951.2 :2554510-2556319	MVR	M36C05	OK	24.9083	32.1942	0.370175	-0.491104	0.62335	0.999883

gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	MVR	M36C05	OK	24.6218	96.7736	1.97468	-2.72201	0.00649	0.126644
gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	MVR	M36C05	OK	3.50209	29.4773	3.07332	-3.31006	0.00093	0.0326101
gene2493	gene2493	SACOL2504	gi 57650036 ref NC_002951.2 :2557642-2558836	MVR	M36C05	OK	4.64239	7.32045	0.657066	-0.95595	0.3391	0.999883
gene2494	gene2494	SACOL2505	gi 57650036 ref NC_002951.2 :2559219-2562951	MVR	M36C05	OK	8.90415	7.83002	-0.185462	0.257273	0.79697	0.999883
gene2495	gene2495	sarT	gi 57650036 ref NC_002951.2 :2563255-2563612	MVR	M36C05	OK	3.3404	1.38231	-1.27294	1.05155	0.29301	0.976946
gene2496	gene2496	sarU	gi 57650036 ref NC_002951.2 :2563935-2564679	MVR	M36C05	NOTEST	0.22488	0.40562	0.85101	-0.514881	0.60664	1
gene2497	gene2497	galU	gi 57650036 ref NC_002951.2 :2564889-2565756	MVR	M36C05	OK	41.8318	22.324	-0.906004	1.29245	0.1962	0.858993
gene2498	gene2498	fnbB	gi 57650036 ref NC_002951.2 :2565935-2568758	MVR	M36C05	OK	8.48466	5.37723	-0.657994	0.948039	0.34311	0.999883
gene2499	gene2499	SACOL2510	gi 57650036 ref NC_002951.2 :2568918-2569041	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene25	gene25	SACOL0024	gi 57650036 ref NC_002951.2 :31025-33344	MVR	M36C05	OK	8.4037	4.31646	-0.961176	1.40075	0.16129	0.784966
gene250	gene250	SACOL0260	gi 57650036 ref NC_002951.2 :298292-298697	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2500	gene2500	fnbA	gi 57650036 ref NC_002951.2 :2569439-2572496	MVR	M36C05	OK	27.5224	27.2674	-0.0134283	0.016788	0.98661	0.999883
gene2501	gene2501	SACOL2513	gi 57650036 ref NC_002951.2 :2572737-2572932	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2502	gene2502	gntP	gi 57650036 ref NC_002951.2 :2572963-2574322	MVR	M36C05	OK	10.8209	6.84819	-0.660027	0.968284	0.3329	0.999883
gene2503	gene2503	gntK	gi 57650036 ref NC_002951.2 :2574438-2575992	MVR	M36C05	OK	5.7607	3.82613	-0.590359	0.862408	0.38846	0.999883
gene2504	gene2504	gntR	gi 57650036 ref NC_002951.2 :2576015-2576696	MVR	M36C05	OK	7.41983	5.73556	-0.371451	0.519748	0.60324	0.999883
gene2505	gene2505	SACOL2517	gi 57650036 ref NC_002951.2 :2576849-2577614	MVR	M36C05	OK	52.957	53.697	0.0200185	-0.027765	0.97785	0.999883
gene2506	gene2506	SACOL2518	gi 57650036 ref NC_002951.2 :2577778-2578471	MVR	M36C05	OK	18.9479	19.6969	0.0559312	-0.082238	0.93446	0.999883
gene2507	gene2507	SACOL2519	gi 57650036 ref NC_002951.2 :2578701-2579190	MVR	M36C05	OK	132.678	2623.22	4.30533	-4.97663	6.47E-07	8.36E-05
gene2508	gene2508	SACOL2520	gi 57650036 ref NC_002951.2 :2579256-2581149	MVR	M36C05	OK	15.3844	30.2055	0.973339	-1.31955	0.18699	0.842603
gene2509	gene2509	SACOL2521	gi 57650036 ref NC_002951.2 :2581557-2582835	MVR	M36C05	OK	259.402	201.158	-0.366862	0.403778	0.68638	0.999883
gene251	gene251	SACOL0261	gi 57650036 ref NC_002951.2 :298737-300114	MVR	M36C05	OK	2.73909	2.52877	-0.115262	0.161413	0.87177	0.999883
gene2510	gene2510	SACOL2522	gi 57650036 ref NC_002951.2 :2583381-2583993	MVR	M36C05	OK	57.9998	99.6677	0.781079	-1.07714	0.28142	0.965951
gene2511	gene2511	SACOL2523	gi 57650036 ref NC_002951.2 :2584089-2585710	MVR	M36C05	OK	3.35957	11.094	1.72342	-2.40901	0.016	0.224781
gene2512	gene2512	SACOL2524	gi 57650036 ref NC_002951.2 :2584089-2585710	MVR	M36C05	OK	1.20771	0.83304	-0.535812	0.139142	0.88934	0.999883
gene2513	gene2513	SACOL2525	gi 57650036 ref NC_002951.2 :2586137-2586833	MVR	M36C05	OK	5.07848	4.44945	-0.190772	0.258996	0.79564	0.999883
gene2514	gene2514	SACOL2526	gi 57650036 ref NC_002951.2 :2586834-2587605	MVR	M36C05	OK	6.41344	5.603	-0.1949	0.275085	0.78325	0.999883
gene2515	gene2515	SACOL2527	gi 57650036 ref NC_002951.2 :2587977-2589942	MVR	M36C05	OK	80.9309	153.231	0.920942	-1.03643	0.3	0.982854
gene2516	gene2516	SACOL2528	gi 57650036 ref NC_002951.2 :2590285-2591365	MVR	M36C05	OK	34.9103	21.1755	-0.721258	1.01832	0.30853	0.991033
gene2517	gene2517	SACOL2529	gi 57650036 ref NC_002951.2 :2591469-2592063	MVR	M36C05	OK	24.7999	28.0187	0.176056	-0.258641	0.79591	0.999883
gene2518	gene2518	SACOL2530	gi 57650036 ref NC_002951.2 :2592084-2593053	MVR	M36C05	OK	4.00312	7.17024	0.840895	-1.19886	0.23058	0.899834
gene2519	gene2519	SACOL2531	gi 57650036 ref NC_002951.2 :2593130-2593565	MVR	M36C05	OK	29.1341	27.2128	-0.0984247	0.144016	0.88549	0.999883
gene252	gene252	SACOL0262	gi 57650036 ref NC_002951.2 :300347-301340	MVR	M36C05	OK	3.80219	9.31702	1.29304	-1.84896	0.06446	0.508201

gene2520	gene2520	SACOL2532	gi 57650036 ref NC_002951.2 :2593791-2594076	MVR	M36C05	OK	67.0867	252.557	1.91251	-2.74343	0.00608	0.121216
gene2521	gene2521	SACOL2533	gi 57650036 ref NC_002951.2 :2594246-2595053	MVR	M36C05	OK	100.394	262.421	1.38621	-1.68383	0.09222	0.611738
gene2522	gene2522	frp	gi 57650036 ref NC_002951.2 :2595172-2595844	MVR	M36C05	OK	121.492	172.314	0.504183	-0.641385	0.52127	0.999883
gene2523	gene2523	SACOL2535	gi 57650036 ref NC_002951.2 :2596113-2597106	MVR	M36C05	OK	1169.78	877.608	-0.414591	0.423666	0.67181	0.999883
gene2524	gene2524	SACOL2536	gi 57650036 ref NC_002951.2 :2597354-2598155	MVR	M36C05	OK	9.22155	4.77227	-0.950335	1.35112	0.17666	0.821477
gene2525	gene2525	SACOL2537	gi 57650036 ref NC_002951.2 :2598475-2599111	MVR	M36C05	OK	3.40527	5.06296	0.572212	-0.746415	0.45542	0.999883
gene2526	gene2526	SACOL2538	gi 57650036 ref NC_002951.2 :2599116-2599848	MVR	M36C05	OK	9.32249	7.46616	-0.320348	0.460678	0.64503	0.999883
gene2527	gene2527	srtA	gi 57650036 ref NC_002951.2 :2600007-2600628	MVR	M36C05	OK	131.926	95.6976	-0.463178	0.613532	0.53952	0.999883
gene2528	gene2528	SACOL2541	gi 57650036 ref NC_002951.2 :2600821-2601313	MVR	M36C05	OK	16.1025	32.5202	1.01405	-1.47457	0.14033	0.736447
gene2529	gene2529	SACOL2542	gi 57650036 ref NC_002951.2 :2601750-2601921	MVR	M36C05	OK	4.71154	7.63295	0.69604	-0.297777	0.76587	0.999883
gene253	gene253	lytM	gi 57650036 ref NC_002951.2 :301647-302616	MVR	M36C05	OK	108.32	156.741	0.53309	-0.647489	0.51732	0.999883
gene2530	gene2530	SACOL2543	gi 57650036 ref NC_002951.2 :2601982-2602081	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2531	gene2531	sdaAA	gi 57650036 ref NC_002951.2 :2602099-2602999	MVR	M36C05	OK	7.69861	9.45347	0.296246	-0.432211	0.66559	0.999883
gene2532	gene2532	sdaAB	gi 57650036 ref NC_002951.2 :2603012-2603693	MVR	M36C05	OK	2.43063	1.83538	-0.405254	0.47771	0.63286	0.999883
gene2533	gene2533	SACOL2546	gi 57650036 ref NC_002951.2 :2603695-2604739	MVR	M36C05	OK	3.92237	2.74362	-0.515646	0.712678	0.47605	0.999883
gene2534	gene2534	SACOL2547	gi 57650036 ref NC_002951.2 :2605290-2605494	MVR	M36C05	OK	31.0752	49.2491	0.664334	-0.808318	0.41891	0.999883
gene2535	gene2535	SACOL2548	gi 57650036 ref NC_002951.2 :2605649-2606612	MVR	M36C05	OK	19.2285	32.8092	0.770852	-1.10446	0.2694	0.952424
gene2536	gene2536	SACOL2549	gi 57650036 ref NC_002951.2 :2606693-2607662	MVR	M36C05	OK	45.9182	87.9071	0.936915	-1.23303	0.21757	0.89416
gene2537	gene2537	SACOL2550	gi 57650036 ref NC_002951.2 :2607794-2608139	MVR	M36C05	OK	25.263	55.7528	1.14202	-1.64296	0.10039	0.638047
gene2538	gene2538	SACOL2551	gi 57650036 ref NC_002951.2 :2608180-2608591	MVR	M36C05	OK	20.346	46.9358	1.20594	-1.74642	0.08074	0.56563
gene2539	gene2539	SACOL2552	gi 57650036 ref NC_002951.2 :2608970-2611037	MVR	M36C05	OK	3.45925	3.83684	0.14946	-0.219076	0.82659	0.999883
gene254	gene254	SACOL0264	gi 57650036 ref NC_002951.2 :302667-303327	MVR	M36C05	OK	11.9335	7.19747	-0.729457	1.0438	0.29658	0.9791
gene2540	gene2540	SACOL2553	gi 57650036 ref NC_002951.2 :2611337-2613077	MVR	M36C05	OK	30.4785	169.691	2.47704	-2.95261	0.00315	0.0802959
gene2541	gene2541	SACOL2554	gi 57650036 ref NC_002951.2 :2613123-2614201	MVR	M36C05	OK	15.0551	117.105	2.95947	-3.95954	7.51E-05	0.0044914
gene2542	gene2542	SACOL2554.1	gi 57650036 ref NC_002951.2 :2613123-2614201	MVR	M36C05	NOTEST	0.99938	0.56021	-0.83507	0.064709	0.94841	1
gene2543	gene2543	SACOL2555	gi 57650036 ref NC_002951.2 :2614413-2615298	MVR	M36C05	OK	20.3466	20.4486	0.00721403	-0.010528	0.9916	0.999883
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	MVR	M36C05	OK	5831.75	1548.34	-1.91321	2.26573	0.02347	0.292317
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	MVR	M36C05	OK	218.469	52.7438	-2.05035	2.84855	0.00439	0.0981908
gene2546	gene2546	SACOL2559	gi 57650036 ref NC_002951.2 :2617256-2617514	MVR	M36C05	OK	3.73983	2.99218	-0.321773	0.237234	0.81248	0.999883
gene2547	gene2547	SACOL2560	gi 57650036 ref NC_002951.2 :2618092-2619370	MVR	M36C05	OK	42.6695	23.419	-0.865529	1.18215	0.23715	0.906613
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	MVR	M36C05	OK	101.955	30.2141	-1.75464	2.27281	0.02304	0.288469
gene2549	gene2549	ogt	gi 57650036 ref NC_002951.2 :2620959-2621481	MVR	M36C05	OK	275.648	292.857	0.0873684	-0.107632	0.91429	0.999883
gene255	gene255	SACOL0265	gi 57650036 ref NC_002951.2 :303340-305424	MVR	M36C05	OK	6.45999	5.04779	-0.355881	0.348648	0.72735	0.999883

gene2550	gene2550	SACOL2563	gi 57650036 ref NC_002951.2 :2621889-2623995	MVR	M36C05	OK	14.7313	307.139	4.38194	-5.13105	2.88E-07	4.26E-05
gene2551	gene2551	feoB	gi 57650036 ref NC_002951.2 :2624246-2626241	MVR	M36C05	OK	3.00539	2.27169	-0.403783	0.582846	0.56	0.999883
gene2552	gene2552	SACOL2565	gi 57650036 ref NC_002951.2 :2626252-2626480	MVR	M36C05	OK	2.74492	0	-1.79769e+3l	-1.79769e+	0.14006	0.736107
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	MVR	M36C05	OK	10.4541	1.3955	-2.90522	4.09862	4.16E-05	0.0026856
gene2554	gene2554	SACOL2567	gi 57650036 ref NC_002951.2 :2629392-2629878	MVR	M36C05	OK	2.44765	7.33508	1.58342	-1.87144	0.06128	0.500012
gene2555	gene2555	SACOL2568	gi 57650036 ref NC_002951.2 :2629954-2630122	MVR	M36C05	OK	10.3885	8.4513	-0.29775	0.155225	0.87664	0.999883
gene2556	gene2556	SACOL2569	gi 57650036 ref NC_002951.2 :2630233-2631778	MVR	M36C05	OK	269.144	287.652	0.0959462	-0.10147	0.91918	0.999883
gene2557	gene2557	SACOL2570	gi 57650036 ref NC_002951.2 :2631967-2632567	MVR	M36C05	OK	12.9021	24.562	0.928822	-1.35496	0.17543	0.821477
gene2558	gene2558	SACOL2571	gi 57650036 ref NC_002951.2 :2632805-2632997	MVR	M36C05	OK	83.1622	107.006	0.363687	-0.490686	0.62365	0.999883
gene2559	gene2559	SACOL2572	gi 57650036 ref NC_002951.2 :2633236-2635645	MVR	M36C05	OK	25.2703	86.7515	1.77944	-2.14361	0.03206	0.3441
gene256	gene256	SACOL0266	gi 57650036 ref NC_002951.2 :303340-305424	MVR	M36C05	OK	6.3877	4.33259	-0.560066	0.611807	0.54067	0.999883
gene2560	gene2560	SACOL2573	gi 57650036 ref NC_002951.2 :2635935-2636142	MVR	M36C05	OK	130.903	247.571	0.919341	-1.33246	0.18271	0.831085
gene2561	gene2561	SACOL2574	gi 57650036 ref NC_002951.2 :2636231-2637230	MVR	M36C05	OK	45.7259	89.4335	0.967803	-1.26706	0.20513	0.877103
gene2562	gene2562	SACOL2575	gi 57650036 ref NC_002951.2 :2637252-2638407	MVR	M36C05	OK	18.0909	37.2902	1.04353	-1.46274	0.14354	0.743774
gene2563	gene2563	crtN	gi 57650036 ref NC_002951.2 :2638833-2640342	MVR	M36C05	OK	15.5659	36.0407	1.21124	-1.66441	0.09603	0.622731
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	MVR	M36C05	OK	10.9638	39.5345	1.85037	-2.65346	0.00797	0.14471
gene2565	gene2565	SACOL2578	gi 57650036 ref NC_002951.2 :2641253-2644361	MVR	M36C05	OK	20.4331	95.6652	2.22709	-1.62658	0.10383	0.645527
gene2566	gene2566	SACOL2579	gi 57650036 ref NC_002951.2 :2641253-2644361	MVR	M36C05	OK	21.0918	99.8358	2.24288	-1.96518	0.04939	0.436462
gene2567	gene2567	SACOL2580	gi 57650036 ref NC_002951.2 :2641253-2644361	MVR	M36C05	OK	13.6419	81.7607	2.58336	-0.905213	0.36535	0.999883
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	MVR	M36C05	OK	628.435	159.656	-1.9768	2.24923	0.0245	0.296972
gene2569	gene2569	SACOL2582	gi 57650036 ref NC_002951.2 :2645663-2647475	MVR	M36C05	OK	30.7543	19.2122	-0.678765	0.914429	0.36049	0.999883
gene257	gene257	SACOL0267	gi 57650036 ref NC_002951.2 :305491-307015	MVR	M36C05	OK	26.8587	31.7193	0.239973	-0.323838	0.74606	0.999883
gene2570	gene2570	SACOL2583	gi 57650036 ref NC_002951.2 :2647986-2648475	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	MVR	M36C05	OK	2962.14	402.47	-2.87969	3.09021	0.002	0.0576706
gene2572	gene2572	SACOL2585	gi 57650036 ref NC_002951.2 :2650059-2651115	MVR	M36C05	OK	3.79553	3.73564	-0.0229457	0.032241	0.97428	0.999883
gene2573	gene2573	SACOL2587	gi 57650036 ref NC_002951.2 :2651491-2652094	MVR	M36C05	OK	21.4364	12.8742	-0.735584	1.07486	0.28244	0.967802
gene2574	gene2574	SACOL2588	gi 57650036 ref NC_002951.2 :2652291-2652792	MVR	M36C05	OK	3.58046	3.30163	-0.116968	0.138154	0.89012	0.999883
gene2575	gene2575	SACOL2589	gi 57650036 ref NC_002951.2 :2653011-2653242	MVR	M36C05	OK	21.0197	20.8522	-0.0115406	0.013686	0.98908	0.999883
gene2576	gene2576	SACOL2590	gi 57650036 ref NC_002951.2 :2653391-2653769	MVR	M36C05	OK	19.8727	47.3052	1.25121	-1.79711	0.07232	0.527706
gene2577	gene2577	SACOL2591	gi 57650036 ref NC_002951.2 :2653785-2654607	MVR	M36C05	OK	11.7335	15.4289	0.395004	-0.580148	0.56182	0.999883
gene2578	gene2578	SACOL2592	gi 57650036 ref NC_002951.2 :2654626-2654926	MVR	M36C05	OK	6.90056	2.03801	-1.75956	1.49474	0.13498	0.729547
gene2579	gene2579	SACOL2593	gi 57650036 ref NC_002951.2 :2655056-2656311	MVR	M36C05	OK	6.29724	2.77569	-1.18187	1.1026	0.2702	0.953794
gene258	gene258	SACOL0268	gi 57650036 ref NC_002951.2 :307285-307939	MVR	M36C05	NOTEST	0	0	0	0	1	1

gene2580	gene2580	SACOL2594	gi 57650036 ref NC_002951.2 :2655056-2656311	MVR	M36C05	OK	4.86197	2.62201	-0.890868	0.919745	0.35771	0.999883
gene2581	gene2581	SACOL2595	gi 57650036 ref NC_002951.2 :2656320-2657419	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2582	gene2582	SACOL2596	gi 57650036 ref NC_002951.2 :2656320-2657419	MVR	M36C05	OK	6.46455	6.25463	-0.0476241	0.06777	0.94597	0.999883
gene2583	gene2583	SACOL2597	gi 57650036 ref NC_002951.2 :2657438-2658269	MVR	M36C05	OK	13.1008	83.2097	2.66709	-3.68452	0.00023	0.0109095
gene2584	gene2584	SACOL2598	gi 57650036 ref NC_002951.2 :2658415-2659306	MVR	M36C05	OK	7.18877	6.22489	-0.207697	0.299575	0.7645	0.999883
gene2585	gene2585	SACOL2599	gi 57650036 ref NC_002951.2 :2659403-2660723	MVR	M36C05	OK	8.5378	4.72456	-0.853685	1.24813	0.21199	0.891421
gene2586	gene2586	SACOL2600	gi 57650036 ref NC_002951.2 :2660737-2661844	MVR	M36C05	OK	7.68258	6.19982	-0.309366	0.452236	0.6511	0.999883
gene2587	gene2587	SACOL2601	gi 57650036 ref NC_002951.2 :2662177-2662830	MVR	M36C05	OK	1.92932	10.4359	2.43538	-1.29617	0.19492	0.856906
gene2588	gene2588	SACOL2602	gi 57650036 ref NC_002951.2 :2662177-2662830	MVR	M36C05	OK	8.92265	14.1953	0.669868	-0.794638	0.42682	0.999883
gene2589	gene2589	SACOL2603	gi 57650036 ref NC_002951.2 :2662844-2663123	MVR	M36C05	OK	4.52567	7.29727	0.689227	-0.674489	0.5	0.999883
gene259	gene259	SACOL0269	gi 57650036 ref NC_002951.2 :307972-308560	MVR	M36C05	NOTEST	0.48167	0.85358	0.825475	-0.61109	0.54114	1
gene2590	gene2590	SACOL2605	gi 57650036 ref NC_002951.2 :2663464-2664274	MVR	M36C05	OK	7.08439	51.7193	2.86799	-4.03019	5.57E-05	0.0035381
gene2591	gene2591	pyrD	gi 57650036 ref NC_002951.2 :2664548-2665613	MVR	M36C05	OK	6.25821	2.54947	-1.29555	1.81282	0.06986	0.522414
gene2592	gene2592	SACOL2607	gi 57650036 ref NC_002951.2 :2665767-2666043	MVR	M36C05	OK	63.6441	40.0039	-0.669889	0.959323	0.3374	0.999883
gene2593	gene2593	SACOL2608	gi 57650036 ref NC_002951.2 :2666228-2666951	MVR	M36C05	OK	28.7059	12.8691	-1.15744	1.6916	0.09072	0.604003
gene2594	gene2594	SACOL2609	gi 57650036 ref NC_002951.2 :2667304-2667754	MVR	M36C05	OK	1760.64	1036.24	-0.764734	0.819709	0.41238	0.999883
gene2595	gene2595	SACOL2610	gi 57650036 ref NC_002951.2 :2667834-2668422	MVR	M36C05	OK	13.4869	15.649	0.214518	-0.312143	0.75493	0.999883
gene2596	gene2596	SACOL2612	gi 57650036 ref NC_002951.2 :2668554-2670237	MVR	M36C05	OK	7.17565	6.31733	-0.183793	0.270106	0.78708	0.999883
gene2597	gene2597	panD	gi 57650036 ref NC_002951.2 :2670365-2670749	MVR	M36C05	OK	23.8318	19.0481	-0.323242	0.460065	0.64547	0.999883
gene2598	gene2598	panC	gi 57650036 ref NC_002951.2 :2670750-2672413	MVR	M36C05	OK	18.9013	24.6992	0.385978	-0.357754	0.72053	0.999883
gene2599	gene2599	panB	gi 57650036 ref NC_002951.2 :2670750-2672413	MVR	M36C05	OK	23.9783	32.0767	0.419799	-0.4294	0.66763	0.999883
gene26	gene26	SACOL0025	gi 57650036 ref NC_002951.2 :33575-34055	MVR	M36C05	OK	44.3907	33.5158	-0.405417	0.595375	0.55159	0.999883
gene260	gene260	SACOL0270	gi 57650036 ref NC_002951.2 :308702-309596	MVR	M36C05	OK	7.15659	8.74069	0.288475	-0.419493	0.67486	0.999883
gene2600	gene2600	SACOL2616	gi 57650036 ref NC_002951.2 :2672485-2673346	MVR	M36C05	OK	15.8805	18.1884	0.195761	-0.287229	0.77394	0.999883
gene2601	gene2601	budA2	gi 57650036 ref NC_002951.2 :2673431-2674136	MVR	M36C05	OK	32.089	16.8246	-0.93151	1.36157	0.17333	0.821477
gene2602	gene2602	ldh2	gi 57650036 ref NC_002951.2 :2674413-2675373	MVR	M36C05	OK	11.3616	26.4091	1.21686	-1.76669	0.07728	0.552795
gene2603	gene2603	SACOL2619	gi 57650036 ref NC_002951.2 :2676059-2677508	MVR	M36C05	OK	99.7356	280.475	1.49169	-1.66871	0.09518	0.619969
gene2604	gene2604	SACOL2620	gi 57650036 ref NC_002951.2 :2677588-2678926	MVR	M36C05	OK	17.5872	101.811	2.53329	-3.28573	0.00102	0.0348881
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	MVR	M36C05	OK	3.59098	104.02	4.85634	-5.94576	2.75E-09	7.66E-07
gene2606	gene2606	fdaB	gi 57650036 ref NC_002951.2 :2679722-2680613	MVR	M36C05	OK	168.673	550.663	1.70694	-1.91014	0.05611	0.471519
gene2607	gene2607	mqa2	gi 57650036 ref NC_002951.2 :2680805-2682302	MVR	M36C05	OK	430.26	309.947	-0.473185	0.492551	0.62233	0.999883
gene2608	gene2608	SACOL2624	gi 57650036 ref NC_002951.2 :2682986-2684585	MVR	M36C05	OK	88.2195	161.513	0.872481	-0.999127	0.31773	0.999883
gene2609	gene2609	SACOL2625	gi 57650036 ref NC_002951.2 :2684778-2685222	MVR	M36C05	OK	20.5906	195.298	3.24561	-4.47031	7.81E-06	0.0006893

gene261	gene261	SACOL0271	gi 57650036 ref NC_002951.2 :309843-310137	MVR	M36C05	OK	649.035	1084.18	0.740233	-0.920012	0.35757	0.999883
gene2610	gene2610	SACOL2626	gi 57650036 ref NC_002951.2 :2685502-2685715	MVR	M36C05	OK	57.7298	27.7004	-1.05941	1.33773	0.18099	0.828669
gene2611	gene2611	betA	gi 57650036 ref NC_002951.2 :2685992-2687702	MVR	M36C05	OK	65.1788	2.91968	-4.48052	5.89181	3.82E-09	9.87E-07
gene2612	gene2612	betB	gi 57650036 ref NC_002951.2 :2687962-2689453	MVR	M36C05	OK	111.432	2.81761	-5.30555	6.75942	1.39E-11	7.16E-09
gene2613	gene2613	SACOL2629	gi 57650036 ref NC_002951.2 :2689521-2689617	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2614	gene2614	SACOL2630	gi 57650036 ref NC_002951.2 :2689705-2690269	MVR	M36C05	OK	33.1671	10.0095	-1.72838	2.49488	0.0126	0.192783
gene2615	gene2615	SACOL2631	gi 57650036 ref NC_002951.2 :2690456-2691143	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2616	gene2616	cudT	gi 57650036 ref NC_002951.2 :2691406-2693029	MVR	M36C05	OK	92.8101	3.40812	-4.76723	6.15394	7.56E-10	3.04E-07
gene2617	gene2617	nrdG	gi 57650036 ref NC_002951.2 :2693547-2695931	MVR	M36C05	OK	16.9798	85.1893	2.32685	-1.73174	0.08332	0.574119
gene2618	gene2618	nrdD	gi 57650036 ref NC_002951.2 :2693547-2695931	MVR	M36C05	OK	7.80089	35.1131	2.1703	-2.38042	0.01729	0.237924
gene2619	gene2619	SACOL2636	gi 57650036 ref NC_002951.2 :2696177-2697548	MVR	M36C05	OK	1.22374	1.88277	0.621557	-0.810784	0.41749	0.999883
gene262	gene262	SACOL0272	gi 57650036 ref NC_002951.2 :310220-313922	MVR	M36C05	OK	8.12979	5.48996	-0.566424	0.766327	0.44348	0.999883
gene2620	gene2620	SACOL2637	gi 57650036 ref NC_002951.2 :2697869-2697965	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2621	gene2621	SACOL2638	gi 57650036 ref NC_002951.2 :2698040-2698646	MVR	M36C05	OK	11.6288	3.80647	-1.61117	2.18313	0.02903	0.324174
gene2622	gene2622	cysJ	gi 57650036 ref NC_002951.2 :2698708-2700589	MVR	M36C05	OK	6.24775	3.99934	-0.643575	0.944406	0.34496	0.999883
gene2623	gene2623	SACOL2640	gi 57650036 ref NC_002951.2 :2700783-2700876	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2624	gene2624	gpxA2	gi 57650036 ref NC_002951.2 :2700983-2701481	MVR	M36C05	OK	6.17395	12.2278	0.985893	-1.33867	0.18068	0.828449
gene2625	gene2625	SACOL2642	gi 57650036 ref NC_002951.2 :2702175-2702289	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2626	gene2626	SACOL2643	gi 57650036 ref NC_002951.2 :2702904-2705666	MVR	M36C05	OK	8.72241	6.05805	-0.525872	0.668623	0.50374	0.999883
gene2627	gene2627	SACOL2644	gi 57650036 ref NC_002951.2 :2702904-2705666	MVR	M36C05	OK	9.18642	5.0768	-0.855583	0.585531	0.55819	0.999883
gene2628	gene2628	nsaS	gi 57650036 ref NC_002951.2 :2705764-2706652	MVR	M36C05	OK	12.8573	5.77114	-1.15566	1.67565	0.09381	0.615061
gene2629	gene2629	SACOL2646	gi 57650036 ref NC_002951.2 :2706662-2707328	MVR	M36C05	OK	26.1887	12.5515	-1.06108	1.55228	0.1206	0.689371
gene263	gene263	SACOL0273	gi 57650036 ref NC_002951.2 :310220-313922	MVR	M36C05	OK	10.6456	6.39165	-0.735995	0.327503	0.74329	0.999883
gene2630	gene2630	SACOL2647	gi 57650036 ref NC_002951.2 :2707353-2707554	MVR	M36C05	OK	46.2431	13.9733	-1.72657	1.85677	0.06334	0.504373
gene2631	gene2631	SACOL2648	gi 57650036 ref NC_002951.2 :2707751-2709176	MVR	M36C05	OK	2.24007	3.23948	0.532223	-0.748138	0.45438	0.999883
gene2632	gene2632	SACOL2649	gi 57650036 ref NC_002951.2 :2709235-2709337	MVR	M36C05	OK	6008.4	0	-1.79769e+3(-1.79769e+3	0.22252	0.89416	
gene2633	gene2633	SACOL2650	gi 57650036 ref NC_002951.2 :2709458-2709914	MVR	M36C05	OK	22.0613	16.8117	-0.392055	0.56647	0.57108	0.999883
gene2634	gene2634	SACOL2651	gi 57650036 ref NC_002951.2 :2710158-2710920	MVR	M36C05	OK	7.17274	7.85223	0.130577	-0.187212	0.85149	0.999883
gene2635	gene2635	clfB	gi 57650036 ref NC_002951.2 :2711035-2713777	MVR	M36C05	OK	71.7098	130.089	0.85926	-0.945199	0.34456	0.999883
gene2636	gene2636	SACOL2653	gi 57650036 ref NC_002951.2 :2714126-2714813	MVR	M36C05	OK	43.3111	24.925	-0.797144	1.1551	0.24805	0.922459
gene2637	gene2637	arcC2	gi 57650036 ref NC_002951.2 :2714929-2715871	MVR	M36C05	OK	22.8041	11.4444	-0.994645	1.45201	0.1465	0.743774
gene2638	gene2638	arcD	gi 57650036 ref NC_002951.2 :2715887-2717318	MVR	M36C05	OK	12.356	9.93969	-0.313944	0.458259	0.64677	0.999883
gene2639	gene2639	arcB2	gi 57650036 ref NC_002951.2 :2717408-2718419	MVR	M36C05	OK	7.57912	4.89493	-0.630743	0.911572	0.36199	0.999883

gene264	gene264	SACOL0274	gi 57650036 ref NC_002951.2 :310220-313922	MVR	M36C05	OK	2.23444	0	-1.79769e+31	-1.79769e+0.42293	0.999883	
gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	MVR	M36C05	OK	8.37944	2.55397	-1.71411	2.43912	0.01472	0.210573
gene2641	gene2641	SACOL2658	gi 57650036 ref NC_002951.2 :2720033-2720483	MVR	M36C05	OK	2.05742	2.64798	0.364058	-0.373502	0.70878	0.999883
gene2642	gene2642	aur	gi 57650036 ref NC_002951.2 :2720849-2722379	MVR	M36C05	OK	1.2987	1.16028	-0.162599	0.21016	0.83354	0.999883
gene2643	gene2643	isaB	gi 57650036 ref NC_002951.2 :2722802-2723330	MVR	M36C05	NOTEST	0	0.6733	1.79769e+30	1.79769e+0.06916	1	1
gene2644	gene2644	SACOL2661	gi 57650036 ref NC_002951.2 :2723587-2724046	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2645	gene2645	SACOL2662	gi 57650036 ref NC_002951.2 :2724285-2726160	MVR	M36C05	OK	4.95968	4.80325	-0.0462362	0.067974	0.94581	0.999883
gene2646	gene2646	SACOL2663	gi 57650036 ref NC_002951.2 :2726236-2728189	MVR	M36C05	OK	4.73597	5.28098	0.157146	-0.231059	0.81727	0.999883
gene2647	gene2647	manA2	gi 57650036 ref NC_002951.2 :2728202-2729141	MVR	M36C05	OK	6.62456	9.10322	0.458552	-0.667567	0.50441	0.999883
gene2648	gene2648	SACOL2665	gi 57650036 ref NC_002951.2 :2729252-2732234	MVR	M36C05	OK	17.2212	10.8129	-0.671426	0.907097	0.36436	0.999883
gene2649	gene2649	SACOL2666	gi 57650036 ref NC_002951.2 :2732444-2734304	MVR	M36C05	OK	37.0381	72.7665	0.974265	-1.20175	0.22946	0.898537
gene265	gene265	SACOL0275	gi 57650036 ref NC_002951.2 :313934-315269	MVR	M36C05	OK	4.84297	1.74828	-1.46996	2.04247	0.0411	0.395011
gene2650	gene2650	SACOL2667	gi 57650036 ref NC_002951.2 :2734570-2735131	MVR	M36C05	OK	75.5907	120.502	0.672781	-0.920224	0.35746	0.999883
gene2651	gene2651	SACOL2668	gi 57650036 ref NC_002951.2 :2735298-2737206	MVR	M36C05	OK	22.4717	56.1377	1.32086	-1.69092	0.09085	0.604318
gene2652	gene2652	SACOL2669	gi 57650036 ref NC_002951.2 :2737447-2740307	MVR	M36C05	OK	17.2104	50.1249	1.54225	-1.2334	0.21743	0.89416
gene2653	gene2653	SACOL2670	gi 57650036 ref NC_002951.2 :2737447-2740307	MVR	M36C05	OK	17.7506	69.3869	1.96679	-1.84877	0.06449	0.508201
gene2654	gene2654	SACOL2671	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	M36C05	OK	12.3892	75.7456	2.61208	-2.86918	0.00412	0.0948257
gene2655	gene2655	SACOL2672	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	M36C05	OK	3.57534	2.03147	-0.815559	0.118677	0.90553	0.999883
gene2656	gene2656	SACOL2673	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	M36C05	OK	3.95709	2.2544	-0.811693	0.167119	0.86728	0.999883
gene2657	gene2657	SACOL2674	gi 57650036 ref NC_002951.2 :2740324-2746753	MVR	M36C05	OK	3.69388	1.46533	-1.33392	0.223173	0.8234	0.999883
gene2658	gene2658	secY	gi 57650036 ref NC_002951.2 :2746763-2747975	MVR	M36C05	OK	2.4269	0.65365	-1.89253	2.26088	0.02377	0.292955
gene2659	gene2659	SACOL2676	gi 57650036 ref NC_002951.2 :2748104-2754890	MVR	M36C05	OK	8.18339	6.95877	-0.233866	0.30737	0.75856	0.999883
gene266	gene266	yukA	gi 57650036 ref NC_002951.2 :315290-319730	MVR	M36C05	OK	4.06522	1.5851	-1.35876	1.97834	0.04789	0.430141
gene2660	gene2660	SACOL2677	gi 57650036 ref NC_002951.2 :2755243-2755354	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2661	gene2661	SACOL2678	gi 57650036 ref NC_002951.2 :2755434-2756127	MVR	M36C05	OK	0.8726	2.46211	1.4965	-1.5868	0.11256	0.665508
gene2662	gene2662	SACOL2680	gi 57650036 ref NC_002951.2 :2756807-2757110	MVR	M36C05	OK	3.67309	5.97231	0.701295	-0.686299	0.49252	0.999883
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	MVR	M36C05	OK	29.5052	634.983	4.42767	-5.79037	7.02E-09	1.69E-06
gene2664	gene2664	SACOL2682	gi 57650036 ref NC_002951.2 :2757707-2758319	MVR	M36C05	OK	4.82076	30.2754	2.65081	-3.67702	0.00024	0.0111617
gene2665	gene2665	SACOL2683	gi 57650036 ref NC_002951.2 :2758397-2758874	MVR	M36C05	OK	2.99387	2.39135	-0.324188	0.354527	0.72294	0.999883
gene2666	gene2666	SACOL2684	gi 57650036 ref NC_002951.2 :2758876-2759377	MVR	M36C05	OK	3.36985	1.83424	-0.877503	0.956306	0.33892	0.999883
gene2667	gene2667	cap1C	gi 57650036 ref NC_002951.2 :2759611-2761068	MVR	M36C05	OK	2.36456	1.74806	-0.435816	0.407458	0.68367	0.999883
gene2668	gene2668	cap1B	gi 57650036 ref NC_002951.2 :2759611-2761068	MVR	M36C05	OK	3.11643	2.01446	-0.629504	0.607307	0.54365	0.999883
gene2669	gene2669	cap1A	gi 57650036 ref NC_002951.2 :2761084-2761747	MVR	M36C05	NOTEST	0.79901	0.71508	-0.160127	0.143385	0.88599	1

gene267	gene267	SACOL0277	gi 57650036 ref NC_002951.2 :319759-320152	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2670	gene2670	icaR	gi 57650036 ref NC_002951.2 :2762595-2763156	MVR	M36C05	OK	33.1143	25.385	-0.383476	0.563292	0.57324	0.999883
gene2671	gene2671	icaA	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	M36C05	OK	1.20999	1.59162	0.395504	-0.280545	0.77906	0.999883
gene2672	gene2672	icaD	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	M36C05	OK	1.79294	0	-1.79769e+30	-1.79769e+30	0.30674	0.991033
gene2673	gene2673	icaB	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	M36C05	OK	1.3391	1.78681	0.416119	-0.249912	0.80266	0.999883
gene2674	gene2674	icaC	gi 57650036 ref NC_002951.2 :2763319-2766734	MVR	M36C05	OK	4.52013	3.49435	-0.371338	0.405289	0.68527	0.999883
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	MVR	M36C05	OK	0	#####	1.79769e+30	1.79769e+30	0.03514	0.35865
gene2676	gene2676	geh	gi 57650036 ref NC_002951.2 :2767124-2769167	MVR	M36C05	OK	61.9303	232.372	1.90772	-2.12383	0.03368	0.351535
gene2677	gene2677	SACOL2695	gi 57650036 ref NC_002951.2 :2769887-2770100	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2678	gene2678	hisI	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	M36C05	OK	4.00192	4.5883	0.197267	-0.109808	0.91256	0.999883
gene2679	gene2679	hisF	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	M36C05	OK	4.59005	5.92082	0.367286	-0.256678	0.79743	0.999883
gene268	gene268	SACOL0278	gi 57650036 ref NC_002951.2 :320167-321473	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2680	gene2680	hisA	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	M36C05	OK	6.44211	7.21052	0.162571	-0.123613	0.90162	0.999883
gene2681	gene2681	hisH	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	M36C05	OK	3.1277	4.36944	0.482347	-0.231748	0.81673	0.999883
gene2682	gene2682	hisB	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	M36C05	OK	2.30462	1.74778	-0.399008	0.141036	0.88784	0.999883
gene2683	gene2683	SACOL2701	gi 57650036 ref NC_002951.2 :2770259-2774476	MVR	M36C05	OK	3.47908	2.1675	-0.682677	0.412894	0.67969	0.999883
gene2684	gene2684	hisD	gi 57650036 ref NC_002951.2 :2774491-2776349	MVR	M36C05	OK	2.60428	1.35589	-0.941638	1.10594	0.26875	0.952424
gene2685	gene2685	hisG	gi 57650036 ref NC_002951.2 :2774491-2776349	MVR	M36C05	OK	2.09293	1.32992	-0.654188	0.448464	0.65382	0.999883
gene2686	gene2686	hisZ	gi 57650036 ref NC_002951.2 :2776366-2777185	MVR	M36C05	OK	2.84988	2.31665	-0.298858	0.383839	0.7011	0.999883
gene2687	gene2687	SACOL2705	gi 57650036 ref NC_002951.2 :2777489-2778614	MVR	M36C05	OK	19.6018	13.4693	-0.541309	0.787	0.43128	0.999883
gene2688	gene2688	SACOL2706	gi 57650036 ref NC_002951.2 :2778731-2779229	MVR	M36C05	OK	1.49026	2.9643	0.992125	-1.02537	0.30519	0.990872
gene2689	gene2689	SACOL2707	gi 57650036 ref NC_002951.2 :2779275-2781818	MVR	M36C05	OK	2.20469	4.69751	1.09132	-0.865849	0.38657	0.999883
gene269	gene269	SACOL0279	gi 57650036 ref NC_002951.2 :320167-321473	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2690	gene2690	SACOL2708	gi 57650036 ref NC_002951.2 :2779275-2781818	MVR	M36C05	OK	2.04255	4.73506	1.21301	-1.47489	0.14024	0.736447
gene2691	gene2691	SACOL2709	gi 57650036 ref NC_002951.2 :2781870-2782425	MVR	M36C05	OK	2.11801	9.64162	2.18656	-2.67174	0.00755	0.140745
gene2692	gene2692	SACOL2710	gi 57650036 ref NC_002951.2 :2782453-2783302	MVR	M36C05	OK	2.99381	13.0866	2.12803	-2.95799	0.0031	0.0795967
gene2693	gene2693	SACOL2711	gi 57650036 ref NC_002951.2 :2783681-2784197	MVR	M36C05	OK	159.522	582.861	1.86939	-2.27384	0.02298	0.288469
gene2694	gene2694	drp35	gi 57650036 ref NC_002951.2 :2784345-2785317	MVR	M36C05	OK	5.08157	8.28512	0.70525	-1.01874	0.30833	0.991033
gene2695	gene2695	SACOL2713	gi 57650036 ref NC_002951.2 :2785560-2786517	MVR	M36C05	OK	37.7346	12.8199	-1.5575	2.22949	0.02578	0.304771
gene2696	gene2696	pcp	gi 57650036 ref NC_002951.2 :2786668-2787307	MVR	M36C05	OK	5.63448	6.7882	0.268747	-0.3704	0.71109	0.999883
gene2697	gene2697	SACOL2715	gi 57650036 ref NC_002951.2 :2787425-2788521	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2698	gene2698	SACOL2716	gi 57650036 ref NC_002951.2 :2787425-2788521	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2699	gene2699	SACOL2717	gi 57650036 ref NC_002951.2 :2788687-2789152	MVR	M36C05	OK	10.1447	18.7434	0.885652	-1.24632	0.21265	0.892138

gene27	gene27	SACOL0026	gi 57650036 ref NC_002951.2 :34371-35667	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene270	gene270	SACOL0280	gi 57650036 ref NC_002951.2 :320167-321473	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2700	gene2700	SACOL2718	gi 57650036 ref NC_002951.2 :2789389-2790808	MVR	M36C05	OK	10.082	7.86731	-0.357833	0.525138	0.59949	0.999883
gene2701	gene2701	rarD	gi 57650036 ref NC_002951.2 :2791220-2792129	MVR	M36C05	OK	17.7559	34.8444	0.972624	-1.39758	0.16224	0.788002
gene2702	gene2702	SACOL2720	gi 57650036 ref NC_002951.2 :2792353-2792929	MVR	M36C05	OK	1.1621	15.2685	3.71575	-4.17087	3.03E-05	0.0020429
gene2703	gene2703	nixA	gi 57650036 ref NC_002951.2 :2793057-2794110	MVR	M36C05	OK	5.50226	13.8317	1.32989	-1.93393	0.05312	0.456582
gene2704	gene2704	SACOL2722	gi 57650036 ref NC_002951.2 :2794352-2795147	MVR	M36C05	NOTEST	0.3072	0.92701	1.59341	-1.23531	0.21672	1
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	MVR	M36C05	OK	7.2705	85.0216	3.5477	-4.86433	1.15E-06	0.0001279
gene2706	gene2706	SACOL2724	gi 57650036 ref NC_002951.2 :2796075-2798704	MVR	M36C05	OK	2.18574	3.55249	0.70071	-0.567439	0.57042	0.999883
gene2707	gene2707	SACOL2725	gi 57650036 ref NC_002951.2 :2796075-2798704	MVR	M36C05	OK	1.97669	1.83576	-0.106706	0.125795	0.89989	0.999883
gene2708	gene2708	SACOL2726	gi 57650036 ref NC_002951.2 :2798796-2798988	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2709	gene2709	SACOL2727	gi 57650036 ref NC_002951.2 :2798999-2799536	MVR	M36C05	OK	1.86591	1.3106	-0.509649	0.510823	0.60948	0.999883
gene271	gene271	SACOL0281	gi 57650036 ref NC_002951.2 :321482-323327	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2710	gene2710	SACOL2728	gi 57650036 ref NC_002951.2 :2799595-2800093	MVR	M36C05	OK	3.40632	1.85269	-0.878592	0.957493	0.33832	0.999883
gene2711	gene2711	SACOL2729	gi 57650036 ref NC_002951.2 :2800171-2800522	MVR	M36C05	OK	3.03664	0	-1.79769e+3	-1.79769e+0	0.02679	0.309278
gene2712	gene2712	SACOL2730	gi 57650036 ref NC_002951.2 :2800550-2800742	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	MVR	M36C05	OK	2065.53	754.558	-1.45281	1.96799	0.04907	0.435378
gene2714	gene2714	SACOL2732	gi 57650036 ref NC_002951.2 :2801461-2802031	MVR	M36C05	OK	6.24863	9.25019	0.565942	-0.780756	0.43495	0.999883
gene2715	gene2715	SACOL2733	gi 57650036 ref NC_002951.2 :2802290-2802671	MVR	M36C05	OK	9.0441	9.67459	0.0972225	-0.125449	0.90017	0.999883
gene2716	gene2716	SACOL2734	gi 57650036 ref NC_002951.2 :2802753-2803107	MVR	M36C05	OK	4.25552	4.22146	-0.0115935	0.012275	0.99021	0.999883
gene2717	gene2717	SACOL2735	gi 57650036 ref NC_002951.2 :2803560-2804400	MVR	M36C05	OK	45.9427	34.4697	-0.414504	0.58368	0.55944	0.999883
gene2718	gene2718	gidB	gi 57650036 ref NC_002951.2 :2804442-2807039	MVR	M36C05	OK	33.9481	30.7672	-0.14194	0.086562	0.93102	0.999883
gene2719	gene2719	gidA	gi 57650036 ref NC_002951.2 :2804442-2807039	MVR	M36C05	OK	34.5841	30.5413	-0.179346	0.198742	0.84247	0.999883
gene272	gene272	SACOL0282	gi 57650036 ref NC_002951.2 :323337-323829	MVR	M36C05	NOTEST	0.2176	0	-1.79769e+3	-1.79769e+0	0.22252	1
gene2720	gene2720	trmE	gi 57650036 ref NC_002951.2 :2807105-2808485	MVR	M36C05	OK	28.787	26.7181	-0.107602	0.147798	0.8825	0.999883
gene2721	gene2721	rnpA	gi 57650036 ref NC_002951.2 :2808623-2808971	MVR	M36C05	OK	26.0972	16.7823	-0.636955	0.887776	0.37466	0.999883
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	MVR	M36C05	OK	3912.94	1201.95	-1.70287	2.46142	0.01384	0.204544
gene273	gene273	SACOL0283	gi 57650036 ref NC_002951.2 :324036-324720	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene274	gene274	SACOL0284	gi 57650036 ref NC_002951.2 :324866-325478	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene275	gene275	SACOL0285	gi 57650036 ref NC_002951.2 :325613-325832	MVR	M36C05	OK	20.5288	25.0136	0.285063	-0.329761	0.74158	0.999883
gene276	gene276	SACOL0286	gi 57650036 ref NC_002951.2 :325963-326464	MVR	M36C05	NOTEST	0.84246	0	-1.79769e+3	-1.79769e+0	0.06333	1
gene277	gene277	SACOL0287	gi 57650036 ref NC_002951.2 :326474-326975	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene278	gene278	SACOL0288	gi 57650036 ref NC_002951.2 :326985-327481	MVR	M36C05	OK	1.71553	0.74608	-1.20126	0.992335	0.32103	0.999883

gene279	gene279	SACOL0289	gi 57650036 ref NC_002951.2 :327491-327983	MVR	M36C05	NOTEST	0	0.37814	1.79769e+30	1.79769e+30	0.14732	1
gene28	gene28	SACOL0027	gi 57650036 ref NC_002951.2 :36081-36321	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene280	gene280	SACOL0290	gi 57650036 ref NC_002951.2 :328192-328876	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene281	gene281	SACOL0291	gi 57650036 ref NC_002951.2 :329461-329962	MVR	M36C05	NOTEST	0	0.36685	1.79769e+30	1.79769e+30	0.14732	1
gene282	gene282	SACOL0292	gi 57650036 ref NC_002951.2 :329973-330474	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene283	gene283	SACOL0293	gi 57650036 ref NC_002951.2 :330484-330985	MVR	M36C05	OK	1.68492	0.7337	-1.19943	0.990826	0.32177	0.999883
gene284	gene284	SACOL0294	gi 57650036 ref NC_002951.2 :330995-331496	MVR	M36C05	OK	0.21062	1.10054	2.38553	-1.1635	0.24463	0.918242
gene285	gene285	SACOL0295	gi 57650036 ref NC_002951.2 :331506-332007	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene286	gene286	SACOL0296	gi 57650036 ref NC_002951.2 :332017-332518	MVR	M36C05	NOTEST	0	0.7337	1.79769e+30	1.79769e+30	0.06916	1
gene287	gene287	SACOL0297	gi 57650036 ref NC_002951.2 :332528-333017	MVR	M36C05	NOTEST	0.22003	0	-1.79769e+30	-1.79769e+30	0.22252	1
gene288	gene288	SACOL0299	gi 57650036 ref NC_002951.2 :333639-334014	MVR	M36C05	OK	7.86354	6.24339	-0.33285	0.405914	0.68481	0.999883
gene289	gene289	SACOL0300	gi 57650036 ref NC_002951.2 :334166-334565	MVR	M36C05	OK	33.7713	17.6655	-0.934864	1.34519	0.17856	0.821737
gene29	gene29	SACOL0028	gi 57650036 ref NC_002951.2 :36352-37027	MVR	M36C05	OK	198.073	211.881	0.0972248	-0.118705	0.90551	0.999883
gene290	gene290	SACOL0301	gi 57650036 ref NC_002951.2 :334780-335626	MVR	M36C05	OK	4.70038	18.9528	2.01156	-2.87251	0.00407	0.0947611
gene291	gene291	brnQ2	gi 57650036 ref NC_002951.2 :335841-337149	MVR	M36C05	OK	33.8817	17.4116	-0.960455	1.33949	0.18041	0.828444
gene292	gene292	SACOL0303	gi 57650036 ref NC_002951.2 :337732-338623	MVR	M36C05	OK	9.5558	21.0688	1.14066	-1.66548	0.09582	0.622468
gene293	gene293	SACOL0305	gi 57650036 ref NC_002951.2 :338871-339921	MVR	M36C05	OK	28.6024	173.313	2.59917	-3.29774	0.00097	0.0339119
gene294	gene294	SACOL0306	gi 57650036 ref NC_002951.2 :339933-340611	MVR	M36C05	OK	48.5474	260.877	2.42591	-3.12001	0.00181	0.0538586
gene295	gene295	pfoR	gi 57650036 ref NC_002951.2 :340818-341850	MVR	M36C05	OK	96.3306	127.498	0.404414	-0.496141	0.6198	0.999883
gene296	gene296	SACOL0308	gi 57650036 ref NC_002951.2 :342192-344209	MVR	M36C05	OK	2.679	1.07979	-1.31095	1.11813	0.26351	0.945272
gene297	gene297	SACOL0309	gi 57650036 ref NC_002951.2 :342192-344209	MVR	M36C05	OK	3.09085	3.65589	0.242216	-0.262565	0.79289	0.999883
gene298	gene298	SACOL0310	gi 57650036 ref NC_002951.2 :344219-345440	MVR	M36C05	OK	2.405	1.72768	-0.477194	0.637751	0.52364	0.999883
gene299	gene299	SACOL0311	gi 57650036 ref NC_002951.2 :345544-347077	MVR	M36C05	OK	6.38926	5.54025	-0.205698	0.302272	0.76245	0.999883
gene3	gene3	recF	gi 57650036 ref NC_002951.2 :3696-5051	MVR	M36C05	OK	177.744	188.273	0.0830288	-0.086821	0.93081	0.999883
gene30	gene30	SACOL0029	gi 57650036 ref NC_002951.2 :37284-37452	MVR	M36C05	OK	51.9427	67.6104	0.380322	-0.415617	0.67769	0.999883
gene300	gene300	nanA	gi 57650036 ref NC_002951.2 :347116-347998	MVR	M36C05	OK	3.91013	5.49853	0.491831	-0.688258	0.49129	0.999883
gene301	gene301	SACOL0313	gi 57650036 ref NC_002951.2 :348155-349016	MVR	M36C05	OK	8.35334	14.8511	0.830143	-1.2137	0.22486	0.89446
gene302	gene302	SACOL0314	gi 57650036 ref NC_002951.2 :349293-350094	MVR	M36C05	OK	24.7259	44.6023	0.851095	-1.21534	0.22424	0.89446
gene303	gene303	SACOL0315	gi 57650036 ref NC_002951.2 :350233-350902	MVR	M36C05	OK	9.59038	12.0005	0.323431	-0.468093	0.63972	0.999883
gene304	gene304	SACOL0316	gi 57650036 ref NC_002951.2 :351028-352342	MVR	M36C05	OK	1.6633	1.88022	0.17685	-0.234927	0.81427	0.999883
gene305	gene305	SACOL0317	gi 57650036 ref NC_002951.2 :352759-354694	MVR	M36C05	OK	6.08479	10.4175	0.775732	-1.12918	0.25882	0.938582
gene306	gene306	int	gi 57650036 ref NC_002951.2 :354784-355990	MVR	M36C05	OK	2.38217	1.75347	-0.442064	0.589971	0.55521	0.999883
gene307	gene307	SACOL0319	gi 57650036 ref NC_002951.2 :356183-356897	MVR	M36C05	OK	11.2159	17.3881	0.63256	-0.925675	0.35462	0.999883

gene308	gene308	SACOL0320	gi 57650036 ref NC_002951.2 :356974-357202	MVR	M36C05	OK	15.0971	15.2389	0.0134874	-0.014721	0.98826	0.999883
gene309	gene309	SACOL0321	gi 57650036 ref NC_002951.2 :357356-358076	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene31	gene31	SACOL0030	gi 57650036 ref NC_002951.2 :37549-37780	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene310	gene310	SACOL0322	gi 57650036 ref NC_002951.2 :358217-358436	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene311	gene311	SACOL0323	gi 57650036 ref NC_002951.2 :358450-358759	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene312	gene312	SACOL0324	gi 57650036 ref NC_002951.2 :358762-358915	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene313	gene313	SACOL0325	gi 57650036 ref NC_002951.2 :358915-359707	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene314	gene314	SACOL0326	gi 57650036 ref NC_002951.2 :359707-359932	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene315	gene315	SACOL0327	gi 57650036 ref NC_002951.2 :359971-360551	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene316	gene316	SACOL0328	gi 57650036 ref NC_002951.2 :359971-360551	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene317	gene317	SACOL0329	gi 57650036 ref NC_002951.2 :360604-361172	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene318	gene318	SACOL0330	gi 57650036 ref NC_002951.2 :360604-361172	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene319	gene319	SACOL0331	gi 57650036 ref NC_002951.2 :361219-361640	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene32	gene32	SACOL0031	gi 57650036 ref NC_002951.2 :38328-39072	MVR	M36C05	OK	81.2926	140.954	0.794028	-1.02608	0.30486	0.990233
gene320	gene320	SACOL0332	gi 57650036 ref NC_002951.2 :361219-361640	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene321	gene321	SACOL0333	gi 57650036 ref NC_002951.2 :361694-361958	MVR	M36C05	OK	3.50431	7.02445	1.00325	-0.85826	0.39075	0.999883
gene322	gene322	SACOL0334	gi 57650036 ref NC_002951.2 :361970-362132	MVR	M36C05	OK	0	10.5757	1.79769e+30	1.79769e+30	0.14732	0.743774
gene323	gene323	SACOL0335	gi 57650036 ref NC_002951.2 :362221-362539	MVR	M36C05	NOTEST	0	0.89032	1.79769e+30	1.79769e+30	0.14732	1
gene324	gene324	SACOL0336	gi 57650036 ref NC_002951.2 :362543-362804	MVR	M36C05	OK	0	2.89837	1.79769e+30	1.79769e+30	0.06916	0.522414
gene325	gene325	SACOL0337	gi 57650036 ref NC_002951.2 :362813-364070	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene326	gene326	SACOL0338	gi 57650036 ref NC_002951.2 :362813-364070	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene327	gene327	ssb1	gi 57650036 ref NC_002951.2 :362813-364070	MVR	M36C05	NOTEST	0	0.50064	1.79769e+30	1.79769e+30	0.2187	1
gene328	gene328	SACOL0340	gi 57650036 ref NC_002951.2 :364083-367357	MVR	M36C05	OK	16.598	50.7237	1.61165	-1.92128	0.0547	0.462964
gene329	gene329	SACOL0341	gi 57650036 ref NC_002951.2 :364083-367357	MVR	M36C05	OK	1.82404	2.38613	0.387535	-0.132338	0.89472	0.999883
gene33	gene33	maoC	gi 57650036 ref NC_002951.2 :39168-39597	MVR	M36C05	OK	29.387	17.8081	-0.722641	1.04572	0.29569	0.978474
gene330	gene330	SACOL0342	gi 57650036 ref NC_002951.2 :364083-367357	MVR	M36C05	OK	4.17551	3.45578	-0.272942	0.06083	0.95149	0.999883
gene331	gene331	SACOL0343	gi 57650036 ref NC_002951.2 :364083-367357	MVR	M36C05	OK	2.98733	3.91468	0.390038	-0.225245	0.82179	0.999883
gene332	gene332	SACOL0344	gi 57650036 ref NC_002951.2 :364083-367357	MVR	M36C05	OK	0	7.88874	1.79769e+30	1.79769e+30	0.38714	0.999883
gene333	gene333	SACOL0345	gi 57650036 ref NC_002951.2 :367359-367581	MVR	M36C05	OK	13.541	50.0644	1.88645	-2.16885	0.03009	0.330484
gene334	gene334	SACOL0346	gi 57650036 ref NC_002951.2 :367590-368417	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene335	gene335	SACOL0347	gi 57650036 ref NC_002951.2 :367590-368417	MVR	M36C05	OK	1.58902	3.21821	1.01812	-0.924222	0.35537	0.999883
gene336	gene336	SACOL0348	gi 57650036 ref NC_002951.2 :368421-368607	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene337	gene337	SACOL0349	gi 57650036 ref NC_002951.2 :368607-368865	MVR	M36C05	NOTEST	0	0	0	0	1	1

gene338	gene338	SACOL0350	gi 57650036 ref NC_002951.2 :368876-369233	MVR	M36C05	NOTEST	0	0.69116	1.79769e+30	1.79769e+30	0.14732	1
gene339	gene339	SACOL0351	gi 57650036 ref NC_002951.2 :369236-369479	MVR	M36C05	OK	2.23444	3.55812	0.671205	-0.406095	0.68467	0.999883
gene34	gene34	mecA	gi 57650036 ref NC_002951.2 :39642-41649	MVR	M36C05	OK	420.81	630.628	0.583621	-0.597044	0.55048	0.999883
gene340	gene340	SACOL0352	gi 57650036 ref NC_002951.2 :369492-369699	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene341	gene341	SACOL0353	gi 57650036 ref NC_002951.2 :369701-370981	MVR	M36C05	OK	0.64554	1.63231	1.33833	-0.315511	0.75237	0.999883
gene342	gene342	SACOL0354	gi 57650036 ref NC_002951.2 :369701-370981	MVR	M36C05	OK	23.8855	51.0765	1.09652	-1.35269	0.17616	0.821477
gene343	gene343	SACOL0355	gi 57650036 ref NC_002951.2 :369701-370981	MVR	M36C05	OK	11.6736	13.3124	0.189513	-0.12055	0.90405	0.999883
gene344	gene344	SACOL0356	gi 57650036 ref NC_002951.2 :369701-370981	MVR	M36C05	OK	3.62557	9.60596	1.40572	-0.422355	0.67277	0.999883
gene345	gene345	dut	gi 57650036 ref NC_002951.2 :370985-371528	MVR	M36C05	OK	12.0848	27.6846	1.19589	-1.73215	0.08325	0.574119
gene346	gene346	SACOL0358	gi 57650036 ref NC_002951.2 :371564-372307	MVR	M36C05	OK	11.7227	34.041	1.53797	-1.2142	0.22467	0.89446
gene347	gene347	SACOL0359	gi 57650036 ref NC_002951.2 :371564-372307	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene348	gene348	SACOL0360	gi 57650036 ref NC_002951.2 :371564-372307	MVR	M36C05	OK	18.6451	39.3993	1.07937	-0.982438	0.32588	0.999883
gene349	gene349	SACOL0361	gi 57650036 ref NC_002951.2 :371564-372307	MVR	M36C05	OK	0	15.7499	1.79769e+30	1.79769e+30	0.29145	0.975616
gene35	gene35	mecR1	gi 57650036 ref NC_002951.2 :41748-44481	MVR	M36C05	OK	115.116	109.295	-0.0748612	0.092372	0.9264	0.999883
gene350	gene350	SACOL0362	gi 57650036 ref NC_002951.2 :372374-372882	MVR	M36C05	OK	0	3.49332	1.79769e+30	1.79769e+30	0.2187	0.89416
gene351	gene351	SACOL0363	gi 57650036 ref NC_002951.2 :372374-372882	MVR	M36C05	OK	3.47045	3.58203	0.045656	-0.04303	0.96568	0.999883
gene352	gene352	SACOL0364	gi 57650036 ref NC_002951.2 :372894-373332	MVR	M36C05	OK	1.62682	1.85338	0.18811	-0.175601	0.86061	0.999883
gene353	gene353	SACOL0365	gi 57650036 ref NC_002951.2 :373488-373803	MVR	M36C05	NOTEST	0.55737	0.90974	0.706828	-0.302393	0.76235	1
gene354	gene354	SACOL0366	gi 57650036 ref NC_002951.2 :373931-375918	MVR	M36C05	OK	4.78118	14.5904	1.60958	-0.941071	0.34667	0.999883
gene355	gene355	SACOL0367	gi 57650036 ref NC_002951.2 :373931-375918	MVR	M36C05	OK	1.4343	5.54048	1.94966	-2.50933	0.0121	0.187953
gene356	gene356	SACOL0368	gi 57650036 ref NC_002951.2 :375922-377918	MVR	M36C05	OK	13.137	28.7553	1.13019	-1.49516	0.13487	0.729547
gene357	gene357	SACOL0369	gi 57650036 ref NC_002951.2 :375922-377918	MVR	M36C05	OK	3.72078	6.15026	0.725042	-0.34928	0.72688	0.999883
gene358	gene358	SACOL0370	gi 57650036 ref NC_002951.2 :377929-379093	MVR	M36C05	OK	5.91036	3.8886	-0.603994	0.869943	0.38433	0.999883
gene359	gene359	SACOL0371	gi 57650036 ref NC_002951.2 :379161-379440	MVR	M36C05	OK	1.50856	1.21621	-0.310773	0.162015	0.87129	0.999883
gene36	gene36	SACOL0035	gi 57650036 ref NC_002951.2 :41748-44481	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene360	gene360	SACOL0372	gi 57650036 ref NC_002951.2 :379451-380182	MVR	M36C05	OK	1.9573	0.80307	-1.28527	0.599375	0.54892	0.999883
gene361	gene361	SACOL0373	gi 57650036 ref NC_002951.2 :379451-380182	MVR	M36C05	OK	1.61385	1.63231	0.0164034	-0.012415	0.9901	0.999883
gene362	gene362	SACOL0374	gi 57650036 ref NC_002951.2 :380182-380578	MVR	M36C05	OK	2.99815	0.56021	-2.42003	1.56839	0.11679	0.676159
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	MVR	M36C05	OK	2.65719	5.99292	1.17336	-1.50886	0.13134	0.718382
gene364	gene364	SACOL0376	gi 57650036 ref NC_002951.2 :381345-381801	MVR	M36C05	OK	12.0334	12.9321	0.103902	-0.145373	0.88442	0.999883
gene365	gene365	SACOL0377	gi 57650036 ref NC_002951.2 :381858-382209	MVR	M36C05	OK	1.73522	0	-1.79769e+30	-1.79769e+30	0.06333	0.504373
gene366	gene366	SACOL0378	gi 57650036 ref NC_002951.2 :382250-382409	MVR	M36C05	OK	7.21565	11.9713	0.730382	-0.312469	0.75468	0.999883
gene367	gene367	SACOL0379	gi 57650036 ref NC_002951.2 :382422-389447	MVR	M36C05	OK	2.06502	2.97412	0.526305	-0.744448	0.45661	0.999883

gene368	gene368	SACOL0380	gi 57650036 ref NC_002951.2 :382422-389447	MVR	M36C05	OK	0.97291	1.58842	0.707213	-0.225887	0.82129	0.999883
gene369	gene369	SACOL0381	gi 57650036 ref NC_002951.2 :389455-391329	MVR	M36C05	OK	1.03212	1.27426	0.30405	-0.377138	0.70607	0.999883
gene37	gene37	SACOL0036	gi 57650036 ref NC_002951.2 :41748-44481	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene370	gene370	SACOL0382	gi 57650036 ref NC_002951.2 :389455-391329	MVR	M36C05	OK	1.35361	1.09596	-0.304616	0.097478	0.92235	0.999883
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	MVR	M36C05	OK	1.69885	1.86797	0.136914	-0.173013	0.86264	0.999883
gene372	gene372	SACOL0384	gi 57650036 ref NC_002951.2 :391344-395267	MVR	M36C05	NOTEST	0.65873	0.348	-0.920585	0.505853	0.61296	1
gene373	gene373	SACOL0385	gi 57650036 ref NC_002951.2 :391344-395267	MVR	M36C05	NOTEST	0.68817	0.57723	-0.253617	0.060104	0.95207	1
gene374	gene374	SACOL0386	gi 57650036 ref NC_002951.2 :391344-395267	MVR	M36C05	OK	0	9.41888	1.79769e+30	1.79769e+30	0.31165	0.993813
gene375	gene375	SACOL0387	gi 57650036 ref NC_002951.2 :395312-395612	MVR	M36C05	OK	1.25465	2.03801	0.699876	-0.423442	0.67197	0.999883
gene376	gene376	SACOL0388	gi 57650036 ref NC_002951.2 :395747-396050	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene377	gene377	SACOL0389	gi 57650036 ref NC_002951.2 :396061-397516	MVR	M36C05	OK	1.56785	1.22966	-0.350523	0.457249	0.64749	0.999883
gene378	gene378	SACOL0390	gi 57650036 ref NC_002951.2 :398285-398408	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	MVR	M36C05	OK	1.45212	6.85021	2.23799	-2.84194	0.00448	0.0988909
gene38	gene38	SACOL0037	gi 57650036 ref NC_002951.2 :44616-45123	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene380	gene380	SACOL0392	gi 57650036 ref NC_002951.2 :399549-400749	MVR	M36C05	OK	4.43409	4.96124	0.162062	-0.234004	0.81498	0.999883
gene381	gene381	SACOL0393	gi 57650036 ref NC_002951.2 :400844-400937	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene382	gene382	SACOL0394	gi 57650036 ref NC_002951.2 :401050-402052	MVR	M36C05	OK	6.01315	7.28738	0.277279	-0.402687	0.68718	0.999883
gene383	gene383	SACOL0395	gi 57650036 ref NC_002951.2 :402085-402418	MVR	M36C05	OK	7.33986	9.63679	0.3928	-0.469964	0.63838	0.999883
gene384	gene384	SACOL0396	gi 57650036 ref NC_002951.2 :402418-405153	MVR	M36C05	OK	7.70152	6.24066	-0.303445	0.278633	0.78053	0.999883
gene385	gene385	SACOL0397	gi 57650036 ref NC_002951.2 :402418-405153	MVR	M36C05	OK	6.16394	3.70075	-0.736035	0.627015	0.53065	0.999883
gene386	gene386	SACOL0398	gi 57650036 ref NC_002951.2 :402418-405153	MVR	M36C05	OK	4.46456	2.54573	-0.810441	0.609723	0.54205	0.999883
gene387	gene387	SACOL0399	gi 57650036 ref NC_002951.2 :405467-406493	MVR	M36C05	OK	11.9582	11.6144	-0.0420896	0.06188	0.95066	0.999883
gene388	gene388	ulaA	gi 57650036 ref NC_002951.2 :406585-407932	MVR	M36C05	OK	4.11421	3.36383	-0.290508	0.41706	0.67664	0.999883
gene389	gene389	SACOL0401	gi 57650036 ref NC_002951.2 :407946-408231	MVR	M36C05	OK	2.85475	1.15323	-1.30769	0.783277	0.43347	0.999883
gene39	gene39	SACOL0038	gi 57650036 ref NC_002951.2 :45137-45449	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene390	gene390	SACOL0402	gi 57650036 ref NC_002951.2 :408232-408676	MVR	M36C05	OK	3.43177	3.61662	0.0756895	-0.085619	0.93177	0.999883
gene391	gene391	SACOL0403	gi 57650036 ref NC_002951.2 :408680-410636	MVR	M36C05	OK	3.81599	2.7615	-0.466603	0.67956	0.49678	0.999883
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	MVR	M36C05	OK	37.749	9.01146	-2.06661	2.88394	0.00393	0.0922789
gene393	gene393	SACOL0405	gi 57650036 ref NC_002951.2 :411373-412729	MVR	M36C05	OK	2.68656	1.43041	-0.909331	1.22336	0.2212	0.89416
gene394	gene394	SACOL0406	gi 57650036 ref NC_002951.2 :412832-413273	MVR	M36C05	OK	11.5031	3.20351	-1.8443	2.25847	0.02392	0.292955
gene395	gene395	glpT	gi 57650036 ref NC_002951.2 :413355-414714	MVR	M36C05	OK	49.1063	12.6501	-1.95676	2.68229	0.00731	0.137988
gene396	gene396	SACOL0408	gi 57650036 ref NC_002951.2 :415021-415882	MVR	M36C05	OK	58.7487	174.375	1.56956	-1.98576	0.04706	0.426221
gene397	gene397	SACOL0409	gi 57650036 ref NC_002951.2 :415961-417023	MVR	M36C05	OK	45.639	133.162	1.54484	-1.95304	0.05081	0.443669

gene398	gene398	SACOL0410	gi 57650036 ref NC_002951.2 :417036-417603	MVR	M36C05	OK	73.0815	149.816	1.03562	-1.39985	0.16156	0.78575
gene399	gene399	SACOL0411	gi 57650036 ref NC_002951.2 :417662-418658	MVR	M36C05	OK	13.559	13.9921	0.0453624	-0.066598	0.9469	0.999883
gene4	gene4	gyrB	gi 57650036 ref NC_002951.2 :5060-6995	MVR	M36C05	OK	118.277	64.4107	-0.876801	1.01463	0.31029	0.993597
gene40	gene40	SACOL0039	gi 57650036 ref NC_002951.2 :45450-45886	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene400	gene400	SACOL0412	gi 57650036 ref NC_002951.2 :418755-419052	MVR	M36C05	OK	3.21554	4.17434	0.376489	-0.336834	0.73624	0.999883
gene401	gene401	SACOL0413	gi 57650036 ref NC_002951.2 :419131-419677	MVR	M36C05	OK	17.9593	32.5502	0.857933	-1.25529	0.20937	0.887248
gene402	gene402	SACOL0414	gi 57650036 ref NC_002951.2 :419944-423718	MVR	M36C05	OK	2.22402	1.17878	-0.915878	0.523523	0.60061	0.999883
gene403	gene403	SACOL0415	gi 57650036 ref NC_002951.2 :419944-423718	MVR	M36C05	OK	2.96482	2.56886	-0.206816	0.194056	0.84613	0.999883
gene404	gene404	SACOL0416	gi 57650036 ref NC_002951.2 :419944-423718	MVR	M36C05	OK	2.63175	1.38409	-0.927081	0.879134	0.37933	0.999883
gene405	gene405	SACOL0417	gi 57650036 ref NC_002951.2 :423809-424466	MVR	M36C05	OK	11.4761	20.7685	0.855765	-1.2493	0.21156	0.891171
gene406	gene406	SACOL0418	gi 57650036 ref NC_002951.2 :424527-424743	MVR	M36C05	OK	18.2654	36.8141	1.01115	-1.17388	0.24044	0.911371
gene407	gene407	SACOL0419	gi 57650036 ref NC_002951.2 :424851-425241	MVR	M36C05	OK	12.3871	51.3738	2.05219	-2.8773	0.00401	0.0939377
gene408	gene408	SACOL0420	gi 57650036 ref NC_002951.2 :425481-426395	MVR	M36C05	OK	10.3584	9.84983	-0.072632	0.032063	0.97442	0.999883
gene409	gene409	SACOL0421	gi 57650036 ref NC_002951.2 :425481-426395	MVR	M36C05	OK	4.41476	5.79605	0.392733	-0.513221	0.6078	0.999883
gene41	gene41	SACOL0040	gi 57650036 ref NC_002951.2 :45450-45886	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene410	gene410	SACOL0422	gi 57650036 ref NC_002951.2 :426419-427891	MVR	M36C05	OK	6.32902	7.71946	0.286517	-0.131697	0.89522	0.999883
gene411	gene411	SACOL0424	gi 57650036 ref NC_002951.2 :426419-427891	MVR	M36C05	OK	77.4614	83.68	0.111406	-0.141439	0.88752	0.999883
gene412	gene412	SACOL0425	gi 57650036 ref NC_002951.2 :428257-429391	MVR	M36C05	OK	9.63971	6.61067	-0.544194	0.798031	0.42485	0.999883
gene413	gene413	SACOL0426	gi 57650036 ref NC_002951.2 :429929-431111	MVR	M36C05	OK	26.8601	11.7886	-1.18807	1.70473	0.08824	0.597292
gene414	gene414	SACOL0427	gi 57650036 ref NC_002951.2 :431193-431946	MVR	M36C05	OK	11.0526	10.1748	-0.119387	0.174141	0.86176	0.999883
gene415	gene415	metE	gi 57650036 ref NC_002951.2 :431988-438284	MVR	M36C05	OK	3.87992	5.43133	0.485279	-0.469373	0.6388	0.999883
gene416	gene416	SACOL0429	gi 57650036 ref NC_002951.2 :431988-438284	MVR	M36C05	OK	3.43413	3.96014	0.205608	-0.159574	0.87322	0.999883
gene417	gene417	SACOL0430	gi 57650036 ref NC_002951.2 :431988-438284	MVR	M36C05	OK	1.99723	3.78603	0.922683	-0.471801	0.63707	0.999883
gene418	gene418	SACOL0431	gi 57650036 ref NC_002951.2 :431988-438284	MVR	M36C05	OK	1.79428	3.5371	0.979159	-0.463998	0.64265	0.999883
gene419	gene419	SACOL0432	gi 57650036 ref NC_002951.2 :438947-439793	MVR	M36C05	OK	5.64046	4.43939	-0.34545	0.485022	0.62766	0.999883
gene42	gene42	ccrB	gi 57650036 ref NC_002951.2 :46351-47976	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene420	gene420	SACOL0433	gi 57650036 ref NC_002951.2 :439949-440831	MVR	M36C05	OK	8.35345	6.63058	-0.333237	0.482912	0.62916	0.999883
gene421	gene421	SACOL0434	gi 57650036 ref NC_002951.2 :440860-441064	MVR	M36C05	OK	33.1469	26.2662	-0.335666	0.388823	0.69741	0.999883
gene422	gene422	SACOL0435	gi 57650036 ref NC_002951.2 :441075-442173	MVR	M36C05	OK	37.3363	21.6101	-0.788874	1.10726	0.26818	0.952082
gene423	gene423	SACOL0436	gi 57650036 ref NC_002951.2 :442258-442450	MVR	M36C05	OK	1038.19	539.309	-0.944882	1.36031	0.17373	0.821477
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	MVR	M36C05	OK	326.056	87.6612	-1.89511	2.70321	0.00687	0.132529
gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	MVR	M36C05	OK	216.302	46.4933	-2.21795	3.02643	0.00247	0.0683793
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	MVR	M36C05	OK	650.221	149.441	-2.12135	3.0029	0.00267	0.0714146

gene427	gene427	SACOL0440	gi 57650036 ref NC_002951.2 :444073-445012	MVR	M36C05	OK	2.28997	3.43236	0.583871	-0.778071	0.43653	0.999883
gene428	gene428	SACOL0441	gi 57650036 ref NC_002951.2 :445050-445598	MVR	M36C05	OK	2.70441	4.75926	0.815423	-0.992153	0.32112	0.999883
gene429	gene429	SACOL0442	gi 57650036 ref NC_002951.2 :445957-446569	MVR	M36C05	OK	5.12206	4.82263	-0.0869034	0.11579	0.90782	0.999883
gene43	gene43	ccrA1	gi 57650036 ref NC_002951.2 :47997-49347	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene430	gene430	SACOL0443	gi 57650036 ref NC_002951.2 :446937-447306	MVR	M36C05	OK	1.55177	1.93572	0.318961	-0.258088	0.79634	0.999883
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	MVR	M36C05	OK	22.9387	1250.85	5.76898	-6.92765	4.28E-12	2.58E-09
gene432	gene432	SACOL0445	gi 57650036 ref NC_002951.2 :448196-448460	MVR	M36C05	OK	162.074	132.06	-0.295467	0.433922	0.66435	0.999883
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	MVR	M36C05	OK	634.718	15736.1	4.63182	-5.34645	8.97E-08	1.56E-05
gene434	gene434	SACOL0447	gi 57650036 ref NC_002951.2 :449436-450018	MVR	M36C05	OK	15.0182	8.67014	-0.79258	1.13493	0.25641	0.933885
gene435	gene435	SACOL0448	gi 57650036 ref NC_002951.2 :450083-450467	MVR	M36C05	OK	82.8777	65.4777	-0.339979	0.497129	0.6191	0.999883
gene436	gene436	SACOL0449	gi 57650036 ref NC_002951.2 :450721-451348	MVR	M36C05	OK	51.783	47.8214	-0.114823	0.164328	0.86947	0.999883
gene437	gene437	SACOL0450	gi 57650036 ref NC_002951.2 :451420-451714	MVR	M36C05	OK	52.1075	55.5988	0.0935641	-0.135785	0.89199	0.999883
gene438	gene438	ahpF	gi 57650036 ref NC_002951.2 :451792-453316	MVR	M36C05	OK	958.409	1647.9	0.781919	-0.812171	0.41669	0.999883
gene439	gene439	ahpC	gi 57650036 ref NC_002951.2 :453331-453901	MVR	M36C05	OK	889.839	2659.58	1.57958	-1.65482	0.09796	0.63129
gene44	gene44	SACOL0043	gi 57650036 ref NC_002951.2 :49534-51600	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene440	gene440	SACOL0453	gi 57650036 ref NC_002951.2 :454392-455148	MVR	M36C05	OK	128.037	387.925	1.59922	-1.89428	0.05819	0.483479
gene441	gene441	SACOL0454	gi 57650036 ref NC_002951.2 :455228-456617	MVR	M36C05	OK	39.7596	32.2638	-0.301386	0.402699	0.68717	0.999883
gene442	gene442	SACOL0455	gi 57650036 ref NC_002951.2 :457593-458550	MVR	M36C05	OK	79.9367	93.2356	0.222023	-0.283818	0.77655	0.999883
gene443	gene443	SACOL0456	gi 57650036 ref NC_002951.2 :458667-459330	MVR	M36C05	OK	62.4563	185.204	1.5682	-2.05305	0.04007	0.389743
gene444	gene444	SACOL0457	gi 57650036 ref NC_002951.2 :459472-459880	MVR	M36C05	OK	1054.72	4023.41	1.93156	-2.06395	0.03902	0.38357
gene445	gene445	xpt	gi 57650036 ref NC_002951.2 :460391-462238	MVR	M36C05	OK	43.294	49.8117	0.202318	-0.139857	0.88877	0.999883
gene446	gene446	pbuX	gi 57650036 ref NC_002951.2 :460391-462238	MVR	M36C05	OK	42.4773	36.8166	-0.206333	0.224139	0.82265	0.999883
gene447	gene447	guaB	gi 57650036 ref NC_002951.2 :462275-463742	MVR	M36C05	OK	109.349	118.06	0.110581	-0.128676	0.89761	0.999883
gene448	gene448	guaA	gi 57650036 ref NC_002951.2 :463766-465308	MVR	M36C05	OK	166.673	149.486	-0.157005	0.175376	0.86078	0.999883
gene449	gene449	SACOL0462	gi 57650036 ref NC_002951.2 :465420-465957	MVR	M36C05	OK	3.17205	5.57007	0.812279	-1.01182	0.31163	0.993813
gene45	gene45	SACOL0044	gi 57650036 ref NC_002951.2 :49534-51600	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene450	gene450	SACOL0463	gi 57650036 ref NC_002951.2 :466349-467054	MVR	M36C05	OK	4.13267	2.40351	-0.781934	0.999276	0.31766	0.999883
gene451	gene451	SACOL0464	gi 57650036 ref NC_002951.2 :467452-467725	MVR	M36C05	OK	2.39752	2.57159	0.101121	-0.069172	0.94485	0.999883
gene452	gene452	SACOL0465	gi 57650036 ref NC_002951.2 :467985-468138	MVR	M36C05	OK	46.5922	0	-1.79769e+3	-1.79769e+3	0.04385	0.40838
gene453	gene453	SACOL0466	gi 57650036 ref NC_002951.2 :468661-469021	MVR	M36C05	OK	33.6032	63.1587	0.910383	-1.32733	0.1844	0.834616
gene454	gene454	SACOL0467	gi 57650036 ref NC_002951.2 :469039-469885	MVR	M36C05	OK	46.8158	68.6398	0.55205	-0.749686	0.45344	0.999883
gene455	gene455	SACOL0468	gi 57650036 ref NC_002951.2 :470356-471037	MVR	M36C05	OK	13.6883	41.0666	1.58502	-2.29676	0.02163	0.276112
gene456	gene456	SACOL0469	gi 57650036 ref NC_002951.2 :471322-472018	MVR	M36C05	OK	3.5921	2.66967	-0.428166	0.545936	0.58511	0.999883

gene457	gene457	SACOL0470	gi 57650036 ref NC_002951.2 :472308-473367	MVR	M36C05	OK	2.52126	1.66874	-0.595386	0.77596	0.43777	0.999883
gene458	gene458	SACOL0471	gi 57650036 ref NC_002951.2 :473485-473623	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	MVR	M36C05	OK	1.6636	1.66869	0.00440549	-0.005398	0.99569	0.999883
gene46	gene46	SACOL0045	gi 57650036 ref NC_002951.2 :51770-53348	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene460	gene460	SACOL0473	gi 57650036 ref NC_002951.2 :475037-475736	MVR	M36C05	OK	1.477	1.32679	-0.154728	0.167639	0.86687	0.999883
gene461	gene461	SACOL0474	gi 57650036 ref NC_002951.2 :476101-476785	MVR	M36C05	OK	4.19412	2.96397	-0.500834	0.649129	0.51626	0.999883
gene462	gene462	SACOL0475	gi 57650036 ref NC_002951.2 :476869-476971	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene463	gene463	hsdM1	gi 57650036 ref NC_002951.2 :477048-479809	MVR	M36C05	OK	14.7862	13.24	-0.159347	0.168523	0.86617	0.999883
gene464	gene464	SACOL0477	gi 57650036 ref NC_002951.2 :477048-479809	MVR	M36C05	OK	15.5677	10.6763	-0.544146	0.476553	0.63368	0.999883
gene465	gene465	SACOL0478	gi 57650036 ref NC_002951.2 :480191-480869	MVR	M36C05	NOTEST	0.90141	0.46173	-0.965134	0.786404	0.43163	1
gene466	gene466	SACOL0479	gi 57650036 ref NC_002951.2 :480890-482399	MVR	M36C05	OK	3.68667	4.79982	0.380662	-0.553671	0.5798	0.999883
gene467	gene467	SACOL0480	gi 57650036 ref NC_002951.2 :482502-482811	MVR	M36C05	OK	3189.82	11330.7	1.82869	-1.91811	0.0551	0.465171
gene468	gene468	SACOL0481	gi 57650036 ref NC_002951.2 :483148-483949	MVR	M36C05	OK	2.33072	1.65194	-0.496617	0.603593	0.54611	0.999883
gene469	gene469	SACOL0482	gi 57650036 ref NC_002951.2 :483980-484772	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene47	gene47	SACOL0046	gi 57650036 ref NC_002951.2 :53427-54756	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene470	gene470	SACOL0483	gi 57650036 ref NC_002951.2 :484841-485618	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene471	gene471	SACOL0484	gi 57650036 ref NC_002951.2 :485793-486609	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene472	gene472	SACOL0485	gi 57650036 ref NC_002951.2 :486627-487413	MVR	M36C05	OK	5.20196	1.88254	-1.46637	1.8922	0.05847	0.484391
gene473	gene473	SACOL0486	gi 57650036 ref NC_002951.2 :487592-490046	MVR	M36C05	OK	33.0877	43.3357	0.389259	-0.300544	0.76376	0.999883
gene474	gene474	SACOL0487	gi 57650036 ref NC_002951.2 :487592-490046	MVR	M36C05	OK	27.3314	36.7138	0.425759	-0.408437	0.68295	0.999883
gene475	gene475	SACOL0488	gi 57650036 ref NC_002951.2 :487592-490046	MVR	M36C05	OK	30.248	49.5067	0.710786	-0.247073	0.80485	0.999883
gene476	gene476	SACOL0489	gi 57650036 ref NC_002951.2 :490064-490379	MVR	M36C05	OK	69.6709	64.5917	-0.109209	0.160429	0.87254	0.999883
gene477	gene477	SACOL0490	gi 57650036 ref NC_002951.2 :490668-490929	MVR	M36C05	OK	18.9983	13.0427	-0.542629	0.654327	0.5129	0.999883
gene478	gene478	SACOL0491	gi 57650036 ref NC_002951.2 :491047-492250	MVR	M36C05	OK	3.5842	1.97856	-0.857202	1.17663	0.23934	0.9107
gene479	gene479	nuoF	gi 57650036 ref NC_002951.2 :493837-495322	MVR	M36C05	OK	14.0533	15.5264	0.143814	-0.206979	0.83603	0.999883
gene48	gene48	SACOL0047	gi 57650036 ref NC_002951.2 :54774-55842	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene480	gene480	SACOL0495	gi 57650036 ref NC_002951.2 :495334-498040	MVR	M36C05	OK	29.2225	25.9872	-0.169276	0.214779	0.82994	0.999883
gene481	gene481	SACOL0496	gi 57650036 ref NC_002951.2 :498201-498564	MVR	M36C05	OK	117.064	130.825	0.160337	-0.230328	0.81784	0.999883
gene482	gene482	SACOL0497	gi 57650036 ref NC_002951.2 :498792-499140	MVR	M36C05	OK	17.2507	13.8636	-0.315349	0.425439	0.67052	0.999883
gene483	gene483	SACOL0498	gi 57650036 ref NC_002951.2 :499246-499921	MVR	M36C05	OK	9.85178	7.89908	-0.318701	0.456534	0.64801	0.999883
gene484	gene484	SACOL0499	gi 57650036 ref NC_002951.2 :499957-500692	MVR	M36C05	OK	17.3914	14.2298	-0.289462	0.425478	0.67049	0.999883
gene485	gene485	SACOL0500	gi 57650036 ref NC_002951.2 :500801-500918	MVR	M36C05	OK	132.094	0	-1.79769e+3	-1.79769e+3	0.22252	0.89416
gene486	gene486	SACOL0501	gi 57650036 ref NC_002951.2 :501147-502485	MVR	M36C05	OK	2.67746	2.13114	-0.329237	0.454799	0.64925	0.999883

gene487	gene487	SACOL0502	gi 57650036 ref NC_002951.2 :502701-504742	MVR	M36C05	OK	30.3801	9.40915	-1.69099	1.17427	0.24029	0.911371
gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	MVR	M36C05	OK	75.9809	11.8089	-2.68576	2.97177	0.00296	0.0769228
gene489	gene489	SACOL0504	gi 57650036 ref NC_002951.2 :505035-506061	MVR	M36C05	OK	12.5415	12.5489	0.00084305	-0.001239	0.99901	0.999883
gene49	gene49	SACOL0048	gi 57650036 ref NC_002951.2 :55980-56241	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene490	gene490	SACOL0505	gi 57650036 ref NC_002951.2 :506064-506724	MVR	M36C05	OK	8.31324	9.59663	0.207117	-0.296245	0.76704	0.999883
gene491	gene491	SACOL0506	gi 57650036 ref NC_002951.2 :506760-507603	MVR	M36C05	OK	32.5897	28.9909	-0.16882	0.242566	0.80834	0.999883
gene492	gene492	SACOL0507	gi 57650036 ref NC_002951.2 :507934-508939	MVR	M36C05	OK	521.51	562.46	0.109055	-0.114029	0.90921	0.999883
gene493	gene493	SACOL0508	gi 57650036 ref NC_002951.2 :509123-509393	MVR	M36C05	OK	307.963	137.63	-1.16196	1.67944	0.09307	0.611738
gene494	gene494	SACOL0509	gi 57650036 ref NC_002951.2 :509541-510412	MVR	M36C05	OK	13.6582	19.6074	0.521624	-0.365831	0.71449	0.999883
gene495	gene495	SACOL0510	gi 57650036 ref NC_002951.2 :509541-510412	MVR	M36C05	OK	30.7068	44.3965	0.531888	-0.680174	0.4964	0.999883
gene496	gene496	SACOL0511	gi 57650036 ref NC_002951.2 :510580-512472	MVR	M36C05	OK	14.1206	11.1642	-0.338921	0.343268	0.7314	0.999883
gene497	gene497	SACOL0512	gi 57650036 ref NC_002951.2 :510580-512472	MVR	M36C05	OK	8.81483	8.09128	-0.123564	0.128936	0.89741	0.999883
gene498	gene498	gltC	gi 57650036 ref NC_002951.2 :512592-513477	MVR	M36C05	OK	2.6539	4.02531	0.600985	-0.808784	0.41864	0.999883
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	MVR	M36C05	OK	3.98082	14.2718	1.84203	-2.5033	0.0123	0.189861
gene5	gene5	gyrA	gi 57650036 ref NC_002951.2 :7031-9695	MVR	M36C05	OK	124.295	51.1613	-1.28065	1.44107	0.14957	0.751551
gene50	gene50	SACOL0049	gi 57650036 ref NC_002951.2 :56264-56996	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene500	gene500	gltD	gi 57650036 ref NC_002951.2 :518174-519638	MVR	M36C05	OK	3.7261	12.3834	1.73267	-2.50914	0.0121	0.187953
gene501	gene501	SACOL_tRNA	gi 57650036 ref NC_002951.2 :519906-519999	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene502	gene502	SACOL0516	gi 57650036 ref NC_002951.2 :520469-521897	MVR	M36C05	OK	73.3494	63.195	-0.214975	0.266801	0.78962	0.999883
gene503	gene503	SACOL0517	gi 57650036 ref NC_002951.2 :521960-523601	MVR	M36C05	OK	14.1987	6.96051	-1.0285	1.49263	0.13554	0.730357
gene504	gene504	SACOL0518	gi 57650036 ref NC_002951.2 :523625-524354	MVR	M36C05	OK	21.5343	8.34286	-1.36802	1.98885	0.04672	0.42474
gene505	gene505	SACOL0519	gi 57650036 ref NC_002951.2 :524992-525517	MVR	M36C05	OK	13.1903	9.51321	-0.471476	0.667451	0.50448	0.999883
gene506	gene506	dnaX	gi 57650036 ref NC_002951.2 :525585-527283	MVR	M36C05	OK	50.9882	55.9185	0.133161	-0.166115	0.86807	0.999883
gene507	gene507	SACOL0521	gi 57650036 ref NC_002951.2 :527372-527690	MVR	M36C05	OK	315.533	325.858	0.0464511	-0.062918	0.94983	0.999883
gene508	gene508	recR	gi 57650036 ref NC_002951.2 :527696-528293	MVR	M36C05	OK	214.828	203.823	-0.075865	0.094483	0.92473	0.999883
gene509	gene509	rrsA	gi 57650036 ref NC_002951.2 :529145-530700	MVR	M36C05	OK	10770	12635.1	0.230416	-0.322574	0.74702	0.999883
gene51	gene51	pls	gi 57650036 ref NC_002951.2 :57211-61858	MVR	M36C05	NOTEST	0.01323	0	-1.79769e+3	-1.79769e+3	0.22252	1
gene510	gene510	rrlA	gi 57650036 ref NC_002951.2 :531064-533987	MVR	M36C05	HIDATA	0	33541.8	0	0	1	1
gene511	gene511	rrfA	gi 57650036 ref NC_002951.2 :534059-534174	MVR	M36C05	OK	373015	80681.2	-2.20893	2.7923	0.00523	0.110421
gene512	gene512	SACOL0523	gi 57650036 ref NC_002951.2 :535056-536394	MVR	M36C05	OK	10.6573	11.6244	0.125312	-0.183368	0.85451	0.999883
gene513	gene513	tmk	gi 57650036 ref NC_002951.2 :536395-537013	MVR	M36C05	OK	28.7816	14.2598	-1.01319	1.48302	0.13807	0.733494
gene514	gene514	SACOL0525	gi 57650036 ref NC_002951.2 :537040-537370	MVR	M36C05	OK	763.526	859.463	0.170759	-0.2067	0.83624	0.999883
gene515	gene515	SACOL0526	gi 57650036 ref NC_002951.2 :537583-538510	MVR	M36C05	OK	50.4072	50.3642	-0.0012326	0.001674	0.99866	0.999883

gene516	gene516	SACOL0527	gi 57650036 ref NC_002951.2 :538510-539314	MVR	M36C05	OK	46.6759	32.6918	-0.513748	0.727825	0.46672	0.999883
gene517	gene517	SACOL0528	gi 57650036 ref NC_002951.2 :539330-539678	MVR	M36C05	OK	65.9064	35.0239	-0.91208	1.33359	0.18234	0.830192
gene518	gene518	SACOL0529	gi 57650036 ref NC_002951.2 :539951-540918	MVR	M36C05	OK	12.2291	5.6636	-1.11052	1.46238	0.14364	0.743774
gene519	gene519	SACOL0530	gi 57650036 ref NC_002951.2 :539951-540918	MVR	M36C05	OK	22.8221	8.27482	-1.46363	0.845524	0.39782	0.999883
gene52	gene52	SACOL0051	gi 57650036 ref NC_002951.2 :61981-63598	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene520	gene520	SACOL0531	gi 57650036 ref NC_002951.2 :540919-541759	MVR	M36C05	OK	11.8654	6.0322	-0.975999	1.41268	0.15775	0.776469
gene521	gene521	SACOL0532	gi 57650036 ref NC_002951.2 :541783-541939	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene522	gene522	metS	gi 57650036 ref NC_002951.2 :542043-544017	MVR	M36C05	OK	30.0134	20.1904	-0.571938	0.762004	0.44606	0.999883
gene523	gene523	SACOL0534	gi 57650036 ref NC_002951.2 :544047-544821	MVR	M36C05	OK	49.5395	33.6342	-0.55865	0.791721	0.42852	0.999883
gene524	gene524	SACOL0535	gi 57650036 ref NC_002951.2 :544987-545524	MVR	M36C05	OK	24.4434	23.5909	-0.0512191	0.075272	0.94	0.999883
gene525	gene525	ksgA	gi 57650036 ref NC_002951.2 :545534-546428	MVR	M36C05	OK	21.5571	16.3689	-0.3972	0.58063	0.56149	0.999883
gene526	gene526	SACOL0537	gi 57650036 ref NC_002951.2 :546527-546791	MVR	M36C05	OK	7532.52	4474.57	-0.751382	0.788138	0.43062	0.999883
gene527	gene527	ipk	gi 57650036 ref NC_002951.2 :547100-547949	MVR	M36C05	OK	38.3582	48.2674	0.331513	-0.462819	0.64349	0.999883
gene528	gene528	purR	gi 57650036 ref NC_002951.2 :547962-548787	MVR	M36C05	OK	55.7477	59.6539	0.0977038	-0.132974	0.89421	0.999883
gene529	gene529	SACOL0540	gi 57650036 ref NC_002951.2 :548803-549184	MVR	M36C05	OK	84.6528	998.901	3.56071	-4.50795	6.55E-06	0.0005921
gene53	gene53	SACOL0052	gi 57650036 ref NC_002951.2 :63757-65269	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene530	gene530	spoVG	gi 57650036 ref NC_002951.2 :549255-549558	MVR	M36C05	OK	340.373	3141.43	3.20624	-3.81225	0.00014	0.0076077
gene531	gene531	SACOL0542	gi 57650036 ref NC_002951.2 :549747-549879	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene532	gene532	glmU	gi 57650036 ref NC_002951.2 :549901-551254	MVR	M36C05	OK	50.0924	50.2904	0.00568932	-0.007369	0.99412	0.999883
gene533	gene533	prsA	gi 57650036 ref NC_002951.2 :551400-552366	MVR	M36C05	OK	106.551	48.3729	-1.13927	1.47868	0.13923	0.736061
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	MVR	M36C05	OK	937.4	190.828	-2.29639	2.59817	0.00937	0.161634
gene535	gene535	pth	gi 57650036 ref NC_002951.2 :553479-560527	MVR	M36C05	OK	34.9941	36.9987	0.0803635	-0.023109	0.98156	0.999883
gene536	gene536	mfd	gi 57650036 ref NC_002951.2 :553479-560527	MVR	M36C05	OK	41.6565	18.4583	-1.17427	0.936729	0.3489	0.999883
gene537	gene537	SACOL0548	gi 57650036 ref NC_002951.2 :553479-560527	MVR	M36C05	OK	34.5172	14.204	-1.28102	0.576372	0.56436	0.999883
gene538	gene538	SACOL0549	gi 57650036 ref NC_002951.2 :553479-560527	MVR	M36C05	OK	55.588	40.2625	-0.465339	0.261569	0.79365	0.999883
gene539	gene539	SACOL0550	gi 57650036 ref NC_002951.2 :553479-560527	MVR	M36C05	OK	35.0431	26.6929	-0.392675	0.047596	0.96204	0.999883
gene54	gene54	SACOL0054	gi 57650036 ref NC_002951.2 :65291-67344	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene540	gene540	SACOL0551	gi 57650036 ref NC_002951.2 :560544-560937	MVR	M36C05	OK	79.2156	63.1148	-0.327805	0.479239	0.63177	0.999883
gene541	gene541	SACOL0552	gi 57650036 ref NC_002951.2 :561041-561443	MVR	M36C05	OK	287.266	118.07	-1.28274	1.74243	0.08143	0.568124
gene542	gene542	SACOL0553	gi 57650036 ref NC_002951.2 :561622-562918	MVR	M36C05	OK	9.27445	4.42575	-1.06734	1.55685	0.11951	0.68714
gene543	gene543	hpt	gi 57650036 ref NC_002951.2 :562922-563462	MVR	M36C05	OK	24.9522	11.0417	-1.1762	1.7014	0.08887	0.597944
gene544	gene544	SACOL0555	gi 57650036 ref NC_002951.2 :563718-565812	MVR	M36C05	OK	170.903	219.945	0.36396	-0.385712	0.69971	0.999883
gene545	gene545	hslO	gi 57650036 ref NC_002951.2 :566040-566922	MVR	M36C05	OK	47.6324	33.9615	-0.488044	0.682283	0.49506	0.999883

gene546	gene546	cysK	gi 57650036 ref NC_002951.2 :567100-568033	MVR	M36C05	OK	157.448	465.361	1.56348	-1.75975	0.07845	0.55661
gene547	gene547	folP	gi 57650036 ref NC_002951.2 :568248-569868	MVR	M36C05	OK	16.9364	15.524	-0.125622	0.1161	0.90757	0.999883
gene548	gene548	folB	gi 57650036 ref NC_002951.2 :568248-569868	MVR	M36C05	OK	11.455	26.2473	1.19619	-0.558577	0.57645	0.999883
gene549	gene549	folK	gi 57650036 ref NC_002951.2 :568248-569868	MVR	M36C05	OK	43.7566	32.2832	-0.438717	0.411933	0.68039	0.999883
gene55	gene55	SACOL0057	gi 57650036 ref NC_002951.2 :68406-68499	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene550	gene550	SACOL0561	gi 57650036 ref NC_002951.2 :570261-570354	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene551	gene551	lysS	gi 57650036 ref NC_002951.2 :570406-571894	MVR	M36C05	OK	121.923	137.358	0.171973	-0.196938	0.84388	0.999883
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	MVR	M36C05	OK	409779	113856	-1.84764	2.28585	0.02226	0.282659
gene554	gene554	rrsB	gi 57650036 ref NC_002951.2 :572775-574330	MVR	M36C05	OK	10550.1	12971.5	0.298086	-0.417728	0.67615	0.999883
gene555	gene555	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :574422-574499	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene556	gene556	rrlB	gi 57650036 ref NC_002951.2 :574666-577589	MVR	M36C05	HIDATA	0	39771.2	0	0	1	1
gene557	gene557	rrfB	gi 57650036 ref NC_002951.2 :577661-577776	MVR	M36C05	OK	546950	303616	-0.849161	0.980949	0.32662	0.999883
gene558	gene558	rrsC	gi 57650036 ref NC_002951.2 :577987-579542	MVR	M36C05	OK	11084.7	12997.3	0.229638	-0.323681	0.74618	0.999883
gene559	gene559	rrlC	gi 57650036 ref NC_002951.2 :579844-582767	MVR	M36C05	HIDATA	0	31420.1	0	0	1	1
gene56	gene56	SACOL0058	gi 57650036 ref NC_002951.2 :68645-70391	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene560	gene560	rrfC	gi 57650036 ref NC_002951.2 :582839-582954	MVR	M36C05	OK	386541	506911	0.39111	-0.447805	0.65429	0.999883
gene561	gene561	SACOL0563	gi 57650036 ref NC_002951.2 :583478-584861	MVR	M36C05	OK	1.41292	1.30456	-0.115116	0.148391	0.88203	0.999883
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	MVR	M36C05	OK	167.145	56.5892	-1.5625	1.97813	0.04791	0.430141
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	MVR	M36C05	OK	222.611	73.0966	-1.60665	2.12561	0.03354	0.350737
gene564	gene564	nupC	gi 57650036 ref NC_002951.2 :586623-587838	MVR	M36C05	OK	80.4354	36.3874	-1.14439	1.48476	0.13761	0.73333
gene565	gene565	ctsR	gi 57650036 ref NC_002951.2 :587995-588457	MVR	M36C05	OK	194.883	187.883	-0.0527758	0.069621	0.9445	0.999883
gene566	gene566	SACOL0568	gi 57650036 ref NC_002951.2 :588475-590039	MVR	M36C05	OK	194.884	232.546	0.254902	-0.164874	0.86904	0.999883
gene567	gene567	SACOL0569	gi 57650036 ref NC_002951.2 :588475-590039	MVR	M36C05	OK	191.769	174.552	-0.135712	0.122085	0.90283	0.999883
gene568	gene568	clpC	gi 57650036 ref NC_002951.2 :590052-592508	MVR	M36C05	OK	256.974	214.923	-0.257801	0.266447	0.7899	0.999883
gene569	gene569	radA	gi 57650036 ref NC_002951.2 :592994-594359	MVR	M36C05	OK	24.0396	16.1806	-0.571148	0.809699	0.41811	0.999883
gene57	gene57	SACOL0059	gi 57650036 ref NC_002951.2 :70484-70937	MVR	M36C05	OK	20.3118	17.8818	-0.183831	0.265378	0.79072	0.999883
gene570	gene570	SACOL0573	gi 57650036 ref NC_002951.2 :594383-595457	MVR	M36C05	OK	18.8511	11.4805	-0.71546	1.04464	0.29619	0.9791
gene571	gene571	gltX	gi 57650036 ref NC_002951.2 :596013-597468	MVR	M36C05	OK	54.3521	25.3838	-1.09843	1.45149	0.14665	0.743774
gene572	gene572	cysE	gi 57650036 ref NC_002951.2 :597896-600319	MVR	M36C05	OK	23.4952	57.4322	1.2895	-0.688038	0.49143	0.999883
gene573	gene573	cysS	gi 57650036 ref NC_002951.2 :597896-600319	MVR	M36C05	OK	30.2114	80.2202	1.40887	-1.45003	0.14705	0.743774
gene574	gene574	SACOL0577	gi 57650036 ref NC_002951.2 :597896-600319	MVR	M36C05	OK	28.6024	84.7463	1.56702	-0.654672	0.51268	0.999883
gene575	gene575	SACOL0578	gi 57650036 ref NC_002951.2 :600326-601597	MVR	M36C05	OK	28.5073	73.0144	1.35685	-1.30402	0.19223	0.852075
gene576	gene576	SACOL0579	gi 57650036 ref NC_002951.2 :600326-601597	MVR	M36C05	OK	46.1661	103.966	1.1712	-1.05822	0.28996	0.975616

gene577	gene577	SACOL0580	gi 57650036 ref NC_002951.2 :601677-602247	MVR	M36C05	OK	19.2526	34.912	0.858674	-1.25702	0.20875	0.885625
gene578	gene578	secE	gi 57650036 ref NC_002951.2 :602560-602743	MVR	M36C05	OK	173.968	91.2481	-0.930958	1.26499	0.20588	0.878491
gene579	gene579	nusG	gi 57650036 ref NC_002951.2 :602755-603304	MVR	M36C05	OK	179.742	119.906	-0.584031	0.767536	0.44276	0.999883
gene58	gene58	SACOL0061	gi 57650036 ref NC_002951.2 :71151-72167	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	MVR	M36C05	OK	385.664	157.756	-1.28965	1.67228	0.09447	0.61699
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	MVR	M36C05	OK	710.546	154.665	-2.19978	2.52888	0.01144	0.182325
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	MVR	M36C05	OK	209.984	34.8505	-2.59102	3.55577	0.00038	0.0161387
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	MVR	M36C05	OK	742.908	90.9789	-3.02958	3.95708	7.59E-05	0.0045006
gene584	gene584	SACOL0587	gi 57650036 ref NC_002951.2 :606164-606773	MVR	M36C05	OK	47.2161	19.9721	-1.2413	1.80728	0.07072	0.522414
gene585	gene585	rpoB	gi 57650036 ref NC_002951.2 :606987-610539	MVR	M36C05	OK	180.174	111.104	-0.697484	0.726879	0.4673	0.999883
gene586	gene586	rpoC	gi 57650036 ref NC_002951.2 :610675-614299	MVR	M36C05	OK	181.193	94.7043	-0.936026	0.981	0.32659	0.999883
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	MVR	M36C05	OK	212.754	26.2795	-3.01718	4.18359	2.87E-05	0.001959
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	MVR	M36C05	OK	862.506	280.331	-1.6214	1.96201	0.04976	0.438109
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	MVR	M36C05	OK	1143.11	261.515	-2.12799	2.47745	0.01323	0.19827
gene59	gene59	SACOL0062	gi 57650036 ref NC_002951.2 :71151-72167	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	MVR	M36C05	OK	674.365	164.957	-2.03144	2.13117	0.03307	0.34869
gene591	gene591	tuf	gi 57650036 ref NC_002951.2 :618157-619342	MVR	M36C05	OK	1348.92	543.421	-1.31166	1.35032	0.17692	0.821477
gene592	gene592	SACOL0595	gi 57650036 ref NC_002951.2 :619623-620799	MVR	M36C05	OK	23.0978	43.4909	0.912956	-1.25773	0.20849	0.885625
gene593	gene593	SACOL0596	gi 57650036 ref NC_002951.2 :620969-622157	MVR	M36C05	OK	337.06	350.17	0.05505	-0.058749	0.95315	0.999883
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	MVR	M36C05	OK	179.082	1032.61	2.5276	-2.7731	0.00555	0.115648
gene595	gene595	SACOL0598	gi 57650036 ref NC_002951.2 :623460-625098	MVR	M36C05	OK	10.5889	8.35471	-0.341892	0.49913	0.61769	0.999883
gene596	gene596	SACOL0599	gi 57650036 ref NC_002951.2 :625311-626277	MVR	M36C05	OK	84.563	50.6764	-0.738712	0.970455	0.33182	0.999883
gene597	gene597	ilvE	gi 57650036 ref NC_002951.2 :626611-627834	MVR	M36C05	OK	104.139	266.417	1.35517	-1.51011	0.13102	0.718382
gene598	gene598	SACOL0601	gi 57650036 ref NC_002951.2 :626611-627834	MVR	M36C05	OK	17.1861	13.8763	-0.308622	0.013039	0.9896	0.999883
gene599	gene599	SACOL0602	gi 57650036 ref NC_002951.2 :627937-628621	MVR	M36C05	OK	61.0053	140.675	1.20536	-1.60056	0.10947	0.659073
gene6	gene6	SACOL0007	gi 57650036 ref NC_002951.2 :9781-10483	MVR	M36C05	OK	36.3265	19.3432	-0.9092	1.32524	0.18509	0.836151
gene60	gene60	SACOL0063	gi 57650036 ref NC_002951.2 :72303-73371	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene600	gene600	SACOL0603	gi 57650036 ref NC_002951.2 :628736-630009	MVR	M36C05	OK	51.5364	27.1729	-0.923426	1.2017	0.22948	0.898537
gene601	gene601	SACOL0604	gi 57650036 ref NC_002951.2 :628736-630009	MVR	M36C05	OK	9.79167	6.60177	-0.568702	0.324881	0.74527	0.999883
gene602	gene602	SACOL0605	gi 57650036 ref NC_002951.2 :630075-630545	MVR	M36C05	OK	20.8322	22.8954	0.136242	-0.198527	0.84263	0.999883
gene603	gene603	SACOL0606	gi 57650036 ref NC_002951.2 :630692-631562	MVR	M36C05	OK	14.3921	17.4499	0.277938	-0.408071	0.68322	0.999883
gene604	gene604	SACOL0607	gi 57650036 ref NC_002951.2 :631582-632149	MVR	M36C05	OK	53.1502	28.5794	-0.895098	1.30254	0.19273	0.853083
gene605	gene605	sdrC	gi 57650036 ref NC_002951.2 :632578-635422	MVR	M36C05	OK	8.17108	4.45931	-0.873705	1.26349	0.20641	0.87934

gene606	gene606	sdrD	gi 57650036 ref NC_002951.2 :635788-639934	MVR	M36C05	OK	70.948	17.7861	-1.99601	2.32715	0.01996	0.260836
gene607	gene607	sdrE	gi 57650036 ref NC_002951.2 :640327-643828	MVR	M36C05	OK	9.94231	9.74664	-0.028677	0.039391	0.96858	0.999883
gene608	gene608	SACOL0611	gi 57650036 ref NC_002951.2 :643946-645419	MVR	M36C05	OK	11.0978	12.8154	0.207605	-0.301917	0.76272	0.999883
gene609	gene609	SACOL0612	gi 57650036 ref NC_002951.2 :645542-647033	MVR	M36C05	OK	49.7153	68.2204	0.456513	-0.573414	0.56636	0.999883
gene61	gene61	SACOL0064	gi 57650036 ref NC_002951.2 :73401-74736	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene610	gene610	SACOL0613	gi 57650036 ref NC_002951.2 :647314-648193	MVR	M36C05	OK	147.658	62.3758	-1.2432	1.58218	0.11361	0.667905
gene611	gene611	SACOL0614	gi 57650036 ref NC_002951.2 :648205-648871	MVR	M36C05	OK	44.0446	25.5767	-0.784136	1.13759	0.25529	0.93309
gene612	gene612	SACOL0615	gi 57650036 ref NC_002951.2 :648884-649247	MVR	M36C05	OK	153.269	70.7522	-1.11522	1.61036	0.10732	0.653986
gene613	gene613	nagB	gi 57650036 ref NC_002951.2 :649522-650281	MVR	M36C05	OK	10.1637	15.9862	0.653404	-0.955964	0.33909	0.999883
gene614	gene614	SACOL0617	gi 57650036 ref NC_002951.2 :650357-650990	MVR	M36C05	OK	48.4518	197.552	2.02761	-2.68605	0.00723	0.137697
gene615	gene615	SACOL0618	gi 57650036 ref NC_002951.2 :650991-651540	MVR	M36C05	OK	92.0281	261.008	1.50395	-1.95341	0.05077	0.443669
gene616	gene616	SACOL0619	gi 57650036 ref NC_002951.2 :651643-652300	MVR	M36C05	OK	3.78035	4.10539	0.119	-0.155677	0.87629	0.999883
gene617	gene617	proP	gi 57650036 ref NC_002951.2 :652801-654202	MVR	M36C05	OK	256.598	246.076	-0.0604075	0.065181	0.94803	0.999883
gene618	gene618	SACOL0621	gi 57650036 ref NC_002951.2 :654745-656122	MVR	M36C05	OK	1.67389	3.55901	1.08827	-1.49979	0.13367	0.7248
gene619	gene619	atoB	gi 57650036 ref NC_002951.2 :656123-657603	MVR	M36C05	OK	5.36289	9.26618	0.788965	-1.09138	0.27511	0.960416
gene62	gene62	SACOL0065	gi 57650036 ref NC_002951.2 :74754-75948	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene620	gene620	SACOL0623	gi 57650036 ref NC_002951.2 :656123-657603	MVR	M36C05	OK	3.55501	6.56184	0.884248	-0.413937	0.67892	0.999883
gene621	gene621	SACOL0624	gi 57650036 ref NC_002951.2 :657605-657875	MVR	M36C05	OK	4.94058	2.64674	-0.900467	0.721064	0.47087	0.999883
gene622	gene622	SACOL0625	gi 57650036 ref NC_002951.2 :658075-658243	MVR	M36C05	OK	483.067	667.652	0.466872	-0.683055	0.49457	0.999883
gene623	gene623	thiD1	gi 57650036 ref NC_002951.2 :658749-659580	MVR	M36C05	OK	74.1738	86.8807	0.228125	-0.299768	0.76435	0.999883
gene624	gene624	ung	gi 57650036 ref NC_002951.2 :659763-660420	MVR	M36C05	OK	64.941	19.561	-1.73115	2.47633	0.01327	0.198481
gene625	gene625	SACOL0628	gi 57650036 ref NC_002951.2 :660420-660801	MVR	M36C05	OK	44.1352	18.1398	-1.28277	1.84461	0.0651	0.510075
gene626	gene626	SACOL0629	gi 57650036 ref NC_002951.2 :660933-661302	MVR	M36C05	OK	59.3551	15.4858	-1.93843	2.7584	0.00581	0.118414
gene627	gene627	SACOL0630	gi 57650036 ref NC_002951.2 :661422-662907	MVR	M36C05	OK	24.8599	409.605	4.04234	-4.72648	2.28E-06	0.0002265
gene628	gene628	SACOL0631	gi 57650036 ref NC_002951.2 :663048-663501	MVR	M36C05	OK	12.6949	22.2432	0.809114	-1.15283	0.24898	0.922459
gene629	gene629	SACOL0632	gi 57650036 ref NC_002951.2 :663513-664278	MVR	M36C05	OK	15.1306	37.8808	1.324	-1.9177	0.05515	0.465171
gene63	gene63	SACOL0066	gi 57650036 ref NC_002951.2 :76214-76316	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene630	gene630	SACOL0633	gi 57650036 ref NC_002951.2 :664826-665579	MVR	M36C05	OK	169.326	171.575	0.0190357	-0.023321	0.98139	0.999883
gene631	gene631	eutD	gi 57650036 ref NC_002951.2 :665746-666733	MVR	M36C05	OK	103.696	59.1312	-0.810369	1.04033	0.29819	0.980231
gene632	gene632	SACOL0635	gi 57650036 ref NC_002951.2 :666735-667572	MVR	M36C05	OK	123.24	47.0999	-1.38768	1.82472	0.06804	0.522414
gene633	gene633	mvk	gi 57650036 ref NC_002951.2 :668158-669079	MVR	M36C05	OK	12.5844	15.2963	0.281549	-0.413633	0.67914	0.999883
gene634	gene634	mvaD	gi 57650036 ref NC_002951.2 :669083-670067	MVR	M36C05	OK	12.8496	32.914	1.35697	-1.94929	0.05126	0.445887
gene635	gene635	SACOL0638	gi 57650036 ref NC_002951.2 :670079-671156	MVR	M36C05	OK	14.6714	23.5111	0.680338	-0.984539	0.32485	0.999883

gene636	gene636	SACOL0639	gi 57650036 ref NC_002951.2 :671332-671674	MVR	M36C05	OK	12.8859	9.84805	-0.387881	0.496859	0.61929	0.999883
gene637	gene637	SACOL0640	gi 57650036 ref NC_002951.2 :671726-673476	MVR	M36C05	OK	34.058	84.2257	1.30627	-1.58295	0.11343	0.667905
gene638	gene638	SACOL0641	gi 57650036 ref NC_002951.2 :671726-673476	MVR	M36C05	OK	20.3311	30.6622	0.592774	-0.21866	0.82692	0.999883
gene639	gene639	SACOL0642	gi 57650036 ref NC_002951.2 :673533-673635	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene64	gene64	SACOL0067	gi 57650036 ref NC_002951.2 :76614-77547	MVR	M36C05	OK	17.485	17.7538	0.0220089	-0.032197	0.97432	0.999883
gene640	gene640	SACOL0643	gi 57650036 ref NC_002951.2 :674100-675510	MVR	M36C05	OK	12.5255	12.3899	-0.015703	0.022848	0.98177	0.999883
gene641	gene641	SACOL0644	gi 57650036 ref NC_002951.2 :675513-676140	MVR	M36C05	OK	1.1604	4.65289	2.0035	-2.24053	0.02506	0.300717
gene642	gene642	SACOL0645	gi 57650036 ref NC_002951.2 :676265-676907	MVR	M36C05	OK	2.93689	1.74794	-0.74864	0.875983	0.38104	0.999883
gene643	gene643	SACOL0646	gi 57650036 ref NC_002951.2 :676994-677612	MVR	M36C05	OK	4.59912	4.22513	-0.122361	0.160616	0.8724	0.999883
gene644	gene644	SACOL0647	gi 57650036 ref NC_002951.2 :677686-678316	MVR	M36C05	OK	2.73562	2.82356	0.0456444	-0.055644	0.95563	0.999883
gene645	gene645	SACOL0648	gi 57650036 ref NC_002951.2 :678511-679132	MVR	M36C05	OK	3.3865	2.35967	-0.521213	0.633487	0.52642	0.999883
gene646	gene646	SACOL0649	gi 57650036 ref NC_002951.2 :679262-679904	MVR	M36C05	OK	2.65719	1.24853	-1.08968	1.20602	0.22781	0.898537
gene647	gene647	SACOL0650	gi 57650036 ref NC_002951.2 :679950-680580	MVR	M36C05	OK	2.73562	2.82356	0.0456444	-0.055644	0.95563	0.999883
gene648	gene648	SACOL0651	gi 57650036 ref NC_002951.2 :681032-681662	MVR	M36C05	OK	1.4398	1.28344	-0.16586	0.171612	0.86374	0.999883
gene649	gene649	SACOL0652	gi 57650036 ref NC_002951.2 :681776-682427	MVR	M36C05	OK	2.05362	1.22356	-0.747078	0.809108	0.41845	0.999883
gene65	gene65	SACOL0068	gi 57650036 ref NC_002951.2 :77909-78113	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene650	gene650	SACOL0653	gi 57650036 ref NC_002951.2 :682463-683099	MVR	M36C05	OK	4.1147	2.53148	-0.700807	0.877299	0.38032	0.999883
gene651	gene651	SACOL0654	gi 57650036 ref NC_002951.2 :683333-683960	MVR	M36C05	OK	2.17576	1.29247	-0.751387	0.813775	0.41577	0.999883
gene652	gene652	SACOL0655	gi 57650036 ref NC_002951.2 :684229-685168	MVR	M36C05	OK	236.113	281.006	0.251126	-0.283815	0.77655	0.999883
gene653	gene653	SACOL0656	gi 57650036 ref NC_002951.2 :685378-685915	MVR	M36C05	OK	677.886	726.075	0.0990754	-0.109766	0.9126	0.999883
gene654	gene654	SACOL0657	gi 57650036 ref NC_002951.2 :686083-686560	MVR	M36C05	OK	31.0902	37.0659	0.253632	-0.372722	0.70936	0.999883
gene655	gene655	SACOL0658	gi 57650036 ref NC_002951.2 :686599-687895	MVR	M36C05	OK	44.5173	66.4869	0.578702	-0.745886	0.45574	0.999883
gene656	gene656	SACOL0659	gi 57650036 ref NC_002951.2 :687922-688444	MVR	M36C05	OK	142.428	139.57	-0.0292438	0.03893	0.96895	0.999883
gene657	gene657	adhP	gi 57650036 ref NC_002951.2 :688942-689953	MVR	M36C05	OK	8.17357	19.3078	1.24014	-1.80835	0.07055	0.522414
gene658	gene658	SACOL0661	gi 57650036 ref NC_002951.2 :690027-690135	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene659	gene659	SACOL0662	gi 57650036 ref NC_002951.2 :690215-692302	MVR	M36C05	OK	65.8382	51.4992	-0.354373	0.158448	0.8741	0.999883
gene66	gene66	SACOL0069	gi 57650036 ref NC_002951.2 :78161-78458	MVR	M36C05	OK	0.64311	1.04359	0.698417	-0.298794	0.7651	0.999883
gene660	gene660	argS	gi 57650036 ref NC_002951.2 :690215-692302	MVR	M36C05	OK	72.8042	41.4644	-0.812149	0.922341	0.35635	0.999883
gene661	gene661	SACOL0664	gi 57650036 ref NC_002951.2 :692690-693326	MVR	M36C05	OK	9.93204	12.1511	0.290926	-0.419946	0.67453	0.999883
gene662	gene662	SACOL0665	gi 57650036 ref NC_002951.2 :693704-694592	MVR	M36C05	OK	26.5953	13.9469	-0.931224	1.35684	0.17483	0.821477
gene663	gene663	SACOL0666	gi 57650036 ref NC_002951.2 :694739-695690	MVR	M36C05	OK	13.9153	11.6008	-0.262446	0.385801	0.69964	0.999883
gene664	gene664	SACOL0667	gi 57650036 ref NC_002951.2 :695744-697248	MVR	M36C05	OK	22.6321	20.7944	-0.122177	0.105937	0.91563	0.999883
gene665	gene665	SACOL0668	gi 57650036 ref NC_002951.2 :695744-697248	MVR	M36C05	OK	31.0087	28.083	-0.14298	0.155718	0.87626	0.999883

gene666	gene666	SACOL0669	gi 57650036 ref NC_002951.2 :697383-697890	MVR	M36C05	OK	161.659	269.761	0.738727	-0.946348	0.34397	0.999883
gene667	gene667	SACOL0670	gi 57650036 ref NC_002951.2 :698051-698768	MVR	M36C05	OK	33.9174	34.7876	0.0365464	-0.052829	0.95787	0.999883
gene668	gene668	SACOL0671	gi 57650036 ref NC_002951.2 :698936-699725	MVR	M36C05	OK	76.5804	664.518	3.11726	-3.64157	0.00027	0.0125713
gene669	gene669	sarA	gi 57650036 ref NC_002951.2 :699975-700350	MVR	M36C05	OK	886.334	5032.8	2.50544	-2.72182	0.00649	0.126644
gene67	gene67	SACOL0070	gi 57650036 ref NC_002951.2 :78529-80204	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene670	gene670	SACOL0673	gi 57650036 ref NC_002951.2 :700497-700617	MVR	M36C05	OK	0	297.145	1.79769e+30	1.79769e+30	0.06916	0.522414
gene671	gene671	SACOL0675	gi 57650036 ref NC_002951.2 :701297-702191	MVR	M36C05	OK	13.7895	26.6988	0.953204	-1.38733	0.16534	0.797722
gene672	gene672	SACOL0676	gi 57650036 ref NC_002951.2 :702421-702646	MVR	M36C05	OK	1.43588	0	-1.79769e+30	-1.79769e+30	0.22252	0.89416
gene673	gene673	SACOL0677	gi 57650036 ref NC_002951.2 :702662-702866	MVR	M36C05	OK	4.14336	6.56655	0.664334	-0.401937	0.68773	0.999883
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	MVR	M36C05	OK	7.62842	66.0622	3.11437	-4.34484	1.39E-05	0.0010399
gene675	gene675	SACOL0679	gi 57650036 ref NC_002951.2 :703603-708245	MVR	M36C05	OK	5.87864	59.8261	3.34722	-2.86468	0.00417	0.0949739
gene676	gene676	SACOL0680	gi 57650036 ref NC_002951.2 :703603-708245	MVR	M36C05	OK	7.73758	77.0386	3.31563	-1.01538	0.30993	0.993387
gene677	gene677	SACOL0681	gi 57650036 ref NC_002951.2 :703603-708245	MVR	M36C05	OK	8.57136	64.6733	2.91557	-0.698166	0.48507	0.999883
gene678	gene678	SACOL0682	gi 57650036 ref NC_002951.2 :703603-708245	MVR	M36C05	OK	11.0264	65.9499	2.58041	-1.96346	0.04959	0.437686
gene679	gene679	SACOL0684	gi 57650036 ref NC_002951.2 :708245-709439	MVR	M36C05	OK	4.27596	17.9463	2.06937	-1.21696	0.22362	0.89446
gene68	gene68	SACOL0071	gi 57650036 ref NC_002951.2 :78529-80204	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene680	gene680	SACOL0685	gi 57650036 ref NC_002951.2 :708245-709439	MVR	M36C05	OK	18.3654	69.6769	1.92369	-1.4098	0.1586	0.778689
gene681	gene681	SACOL0686	gi 57650036 ref NC_002951.2 :708245-709439	MVR	M36C05	OK	17.895	67.1851	1.90859	-2.04445	0.04091	0.394682
gene682	gene682	SACOL0687	gi 57650036 ref NC_002951.2 :709778-711821	MVR	M36C05	OK	40.6759	101.715	1.32229	-1.57201	0.11595	0.672909
gene683	gene683	SACOL0688	gi 57650036 ref NC_002951.2 :712980-715480	MVR	M36C05	OK	265.295	418.025	0.655994	-0.43885	0.66077	0.999883
gene684	gene684	SACOL0689	gi 57650036 ref NC_002951.2 :712980-715480	MVR	M36C05	OK	156.435	300.608	0.942321	-0.475386	0.63451	0.999883
gene685	gene685	SACOL0690	gi 57650036 ref NC_002951.2 :712980-715480	MVR	M36C05	OK	264.117	505.406	0.936268	-0.565591	0.57167	0.999883
gene686	gene686	sirR	gi 57650036 ref NC_002951.2 :715601-716246	MVR	M36C05	OK	166.212	137.65	-0.272013	0.347073	0.72854	0.999883
gene687	gene687	SACOL0692	gi 57650036 ref NC_002951.2 :716325-717078	MVR	M36C05	OK	11.0526	9.97527	-0.147957	0.215727	0.8292	0.999883
gene688	gene688	tagA	gi 57650036 ref NC_002951.2 :717313-718078	MVR	M36C05	OK	24.8574	18.7451	-0.407159	0.596281	0.55099	0.999883
gene689	gene689	SACOL0694	gi 57650036 ref NC_002951.2 :718138-718933	MVR	M36C05	OK	78.9505	65.8178	-0.262469	0.350811	0.72573	0.999883
gene69	gene69	SACOL0072	gi 57650036 ref NC_002951.2 :80405-81266	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene690	gene690	SACOL0695	gi 57650036 ref NC_002951.2 :719279-720092	MVR	M36C05	OK	100.463	63.5226	-0.661329	0.871636	0.38341	0.999883
gene691	gene691	tagB	gi 57650036 ref NC_002951.2 :720190-722352	MVR	M36C05	OK	34.8224	37.0785	0.0905704	-0.087181	0.93053	0.999883
gene692	gene692	tagX	gi 57650036 ref NC_002951.2 :720190-722352	MVR	M36C05	OK	33.8455	26.7348	-0.340245	0.292433	0.76996	0.999883
gene693	gene693	tagD	gi 57650036 ref NC_002951.2 :722414-722813	MVR	M36C05	OK	53.4439	22.0818	-1.27516	1.85524	0.06356	0.504383
gene694	gene694	pbp4	gi 57650036 ref NC_002951.2 :722929-724225	MVR	M36C05	OK	19.6946	16.6972	-0.238194	0.341864	0.73245	0.999883
gene695	gene695	abcA	gi 57650036 ref NC_002951.2 :724645-726373	MVR	M36C05	OK	47.1325	79.9939	0.763168	-0.93288	0.35088	0.999883

gene696	gene696	SACOL0701	gi 57650036 ref NC_002951.2 :726731-727961	MVR	M36C05	OK	75.9809	58.8698	-0.368109	0.46743	0.64019	0.999883
gene697	gene697	SACOL0702	gi 57650036 ref NC_002951.2 :728215-728308	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene698	gene698	SACOL0703	gi 57650036 ref NC_002951.2 :728485-729319	MVR	M36C05	OK	44.0938	30.6208	-0.526063	0.745891	0.45573	0.999883
gene699	gene699	SACOL0704	gi 57650036 ref NC_002951.2 :729600-730398	MVR	M36C05	OK	40.6442	53.3121	0.391414	-0.546553	0.58469	0.999883
gene7	gene7	hutH	gi 57650036 ref NC_002951.2 :10919-12434	MVR	M36C05	OK	16.4903	9.38816	-0.812701	1.17488	0.24004	0.911371
gene70	gene70	SACOL0073	gi 57650036 ref NC_002951.2 :81620-82154	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene700	gene700	SACOL0705	gi 57650036 ref NC_002951.2 :730433-732451	MVR	M36C05	OK	11.6057	15.0683	0.37668	-0.245525	0.80605	0.999883
gene701	gene701	SACOL0706	gi 57650036 ref NC_002951.2 :730433-732451	MVR	M36C05	OK	45.4995	35.2273	-0.369155	0.425957	0.67014	0.999883
gene702	gene702	SACOL0707	gi 57650036 ref NC_002951.2 :732687-733653	MVR	M36C05	OK	27.347	35.8478	0.390501	-0.552357	0.5807	0.999883
gene703	gene703	SACOL0708	gi 57650036 ref NC_002951.2 :733694-734634	MVR	M36C05	OK	39.8246	58.7835	0.561754	-0.706327	0.47999	0.999883
gene704	gene704	SACOL0709	gi 57650036 ref NC_002951.2 :733694-734634	MVR	M36C05	OK	21.321	42.7183	1.00258	-0.640962	0.52155	0.999883
gene705	gene705	SACOL0710	gi 57650036 ref NC_002951.2 :734749-735247	MVR	M36C05	OK	445.163	408.333	-0.124589	0.1476	0.88266	0.999883
gene706	gene706	SACOL0711	gi 57650036 ref NC_002951.2 :735702-736770	MVR	M36C05	OK	264.959	75.0762	-1.81934	2.15527	0.03114	0.337139
gene707	gene707	SACOL0712	gi 57650036 ref NC_002951.2 :736920-737964	MVR	M36C05	OK	15.7608	8.23086	-0.937226	1.37257	0.16989	0.812063
gene708	gene708	SACOL0713	gi 57650036 ref NC_002951.2 :738292-738721	MVR	M36C05	OK	82.2271	40.4293	-1.02421	1.49381	0.13523	0.729769
gene709	gene709	SACOL0714	gi 57650036 ref NC_002951.2 :738929-739436	MVR	M36C05	OK	136.09	237.749	0.804875	-1.04802	0.29463	0.977693
gene71	gene71	SACOL0074	gi 57650036 ref NC_002951.2 :82253-82988	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene710	gene710	SACOL0715	gi 57650036 ref NC_002951.2 :739548-740472	MVR	M36C05	OK	29.9896	32.903	0.133755	-0.190236	0.84912	0.999883
gene711	gene711	SACOL0716	gi 57650036 ref NC_002951.2 :740478-742195	MVR	M36C05	OK	21.9873	18.4678	-0.251658	0.168731	0.86601	0.999883
gene712	gene712	SACOL0717	gi 57650036 ref NC_002951.2 :740478-742195	MVR	M36C05	OK	40.7992	29.632	-0.461386	0.539734	0.58938	0.999883
gene713	gene713	SACOL0718	gi 57650036 ref NC_002951.2 :742338-744979	MVR	M36C05	OK	257.675	192.576	-0.420128	0.241745	0.80898	0.999883
gene714	gene714	SACOL0720	gi 57650036 ref NC_002951.2 :742338-744979	MVR	M36C05	OK	251.228	105.581	-1.25065	1.08756	0.27679	0.962868
gene715	gene715	SACOL0721	gi 57650036 ref NC_002951.2 :745703-746321	MVR	M36C05	OK	55.1894	43.0435	-0.358595	0.514319	0.60703	0.999883
gene716	gene716	SACOL0722	gi 57650036 ref NC_002951.2 :746336-747344	MVR	M36C05	OK	63.8485	37.2579	-0.777108	1.04705	0.29508	0.978229
gene717	gene717	SACOL0723	gi 57650036 ref NC_002951.2 :747931-748729	MVR	M36C05	OK	1781.93	2444.98	0.456383	-0.46864	0.63933	0.999883
gene718	gene718	SACOL0724	gi 57650036 ref NC_002951.2 :749089-749734	MVR	M36C05	OK	29.1599	22.3217	-0.385542	0.565587	0.57167	0.999883
gene719	gene719	SACOL0725	gi 57650036 ref NC_002951.2 :750430-752581	MVR	M36C05	OK	6.19201	4.91426	-0.333435	0.489388	0.62457	0.999883
gene72	gene72	SACOL0075	gi 57650036 ref NC_002951.2 :83421-84024	MVR	M36C05	OK	15.2677	10.9568	-0.478661	0.693831	0.48779	0.999883
gene720	gene720	sarX	gi 57650036 ref NC_002951.2 :752660-753086	MVR	M36C05	OK	12.896	10.7269	-0.265687	0.364709	0.71533	0.999883
gene721	gene721	SACOL0727	gi 57650036 ref NC_002951.2 :753275-754465	MVR	M36C05	OK	47.1997	56.9833	0.271761	-0.306243	0.75942	0.999883
gene722	gene722	SACOL0728	gi 57650036 ref NC_002951.2 :753275-754465	MVR	M36C05	OK	50.7966	35.8585	-0.502418	0.367422	0.71331	0.999883
gene723	gene723	SACOL0730	gi 57650036 ref NC_002951.2 :754817-755462	MVR	M36C05	OK	39.5742	72.6694	0.876789	-1.23599	0.21646	0.89416
gene724	gene724	SACOL0731	gi 57650036 ref NC_002951.2 :755577-756444	MVR	M36C05	OK	32.0104	60.6882	0.922875	-1.27765	0.20137	0.870048

gene725	gene725	SACOL0733	gi 57650036 ref NC_002951.2 :756782-758488	MVR	M36C05	OK	24.4019	12.0938	-1.01273	1.19969	0.23026	0.899784
gene726	gene726	SACOL0734	gi 57650036 ref NC_002951.2 :756782-758488	MVR	M36C05	OK	41.1457	14.9003	-1.4654	1.0942	0.27387	0.958793
gene727	gene727	SACOL0735	gi 57650036 ref NC_002951.2 :758586-759276	MVR	M36C05	OK	19.8225	16.4397	-0.269959	0.396912	0.69143	0.999883
gene728	gene728	SACOL0736	gi 57650036 ref NC_002951.2 :759402-759846	MVR	M36C05	OK	3.16779	1.80831	-0.808833	0.827554	0.40792	0.999883
gene729	gene729	SACOL0737	gi 57650036 ref NC_002951.2 :759912-760308	MVR	M36C05	OK	37.6434	21.288	-0.822359	1.19249	0.23307	0.902479
gene73	gene73	SACOL0076	gi 57650036 ref NC_002951.2 :84290-87443	MVR	M36C05	OK	10.6042	10.6344	0.00409499	-0.005646	0.9955	0.999883
gene730	gene730	SACOL0738	gi 57650036 ref NC_002951.2 :760445-760745	MVR	M36C05	OK	84.6887	222.143	1.39125	-2.00506	0.04496	0.415523
gene731	gene731	SACOL0739	gi 57650036 ref NC_002951.2 :760824-761367	MVR	M36C05	OK	8.97207	14.808	0.722868	-1.02666	0.30458	0.990021
gene732	gene732	SACOL0740	gi 57650036 ref NC_002951.2 :761462-762029	MVR	M36C05	OK	14.1393	38.8079	1.45664	-2.11615	0.03433	0.354442
gene733	gene733	SACOL0741	gi 57650036 ref NC_002951.2 :762030-762489	MVR	M36C05	OK	8.66501	23.8622	1.46145	-2.04007	0.04134	0.396038
gene734	gene734	SACOL0742	gi 57650036 ref NC_002951.2 :762491-763175	MVR	M36C05	OK	39.1451	170.086	2.11937	-2.82164	0.00478	0.102605
gene735	gene735	uppP	gi 57650036 ref NC_002951.2 :763346-764222	MVR	M36C05	OK	25.5599	14.1948	-0.84852	1.23806	0.21569	0.89416
gene736	gene736	SACOL0744	gi 57650036 ref NC_002951.2 :764440-767742	MVR	M36C05	OK	19.8973	56.0342	1.49374	-1.29083	0.19676	0.860309
gene737	gene737	SACOL0745	gi 57650036 ref NC_002951.2 :764440-767742	MVR	M36C05	OK	27.7513	33.4995	0.271584	-0.223661	0.82302	0.999883
gene738	gene738	norR	gi 57650036 ref NC_002951.2 :767868-768312	MVR	M36C05	OK	762.646	763.56	0.00172834	-0.001964	0.99843	0.999883
gene739	gene739	SACOL0747	gi 57650036 ref NC_002951.2 :768538-769465	MVR	M36C05	OK	14.9724	15.9284	0.0892944	-0.131041	0.89574	0.999883
gene74	gene74	SACOL0077	gi 57650036 ref NC_002951.2 :87499-87982	MVR	M36C05	OK	20.9297	24.9688	0.254574	-0.372048	0.70986	0.999883
gene740	gene740	SACOL0748	gi 57650036 ref NC_002951.2 :769567-770476	MVR	M36C05	OK	47.5484	49.4666	0.0570586	-0.078025	0.93781	0.999883
gene741	gene741	SACOL0749	gi 57650036 ref NC_002951.2 :770510-770798	MVR	M36C05	OK	74.3458	65.1883	-0.189637	0.277519	0.78138	0.999883
gene742	gene742	SACOL0750	gi 57650036 ref NC_002951.2 :771080-772634	MVR	M36C05	OK	21.7235	31.1789	0.521309	-0.710035	0.47768	0.999883
gene743	gene743	SACOL0751	gi 57650036 ref NC_002951.2 :772719-774093	MVR	M36C05	OK	26.6995	40.2821	0.593325	-0.80097	0.42315	0.999883
gene744	gene744	SACOL0752	gi 57650036 ref NC_002951.2 :774528-775146	MVR	M36C05	OK	52.3706	100.347	0.938167	-1.2962	0.19491	0.856906
gene745	gene745	SACOL0753	gi 57650036 ref NC_002951.2 :775331-775754	MVR	M36C05	OK	95.3468	137.834	0.531677	-0.748927	0.4539	0.999883
gene746	gene746	norA	gi 57650036 ref NC_002951.2 :775962-777129	MVR	M36C05	OK	22.0779	50.5089	1.19394	-1.63563	0.10192	0.641366
gene747	gene747	SACOL0755	gi 57650036 ref NC_002951.2 :777421-777874	MVR	M36C05	OK	2110.65	2494.29	0.240939	-0.248592	0.80368	0.999883
gene748	gene748	SACOL0756	gi 57650036 ref NC_002951.2 :778047-778530	MVR	M36C05	OK	9.90222	10.1436	0.0347407	-0.048062	0.96167	0.999883
gene749	gene749	SACOL0757	gi 57650036 ref NC_002951.2 :778779-780461	MVR	M36C05	OK	2.80996	4.68628	0.737891	-0.673723	0.50049	0.999883
gene75	gene75	plc	gi 57650036 ref NC_002951.2 :88186-89173	MVR	M36C05	OK	0.99634	1.40121	0.491966	-0.569107	0.56928	0.999883
gene750	gene750	fruK	gi 57650036 ref NC_002951.2 :778779-780461	MVR	M36C05	OK	3.10415	5.65964	0.866511	-0.963379	0.33536	0.999883
gene751	gene751	SACOL0759	gi 57650036 ref NC_002951.2 :780466-782424	MVR	M36C05	OK	5.97036	8.65121	0.535085	-0.782005	0.43421	0.999883
gene752	gene752	nagA	gi 57650036 ref NC_002951.2 :782731-783913	MVR	M36C05	OK	16.1771	11.3395	-0.512595	0.74841	0.45421	0.999883
gene753	gene753	SACOL0762	gi 57650036 ref NC_002951.2 :784133-785483	MVR	M36C05	OK	121.072	257.956	1.09126	-1.22435	0.22082	0.89416
gene754	gene754	SACOL0763	gi 57650036 ref NC_002951.2 :785704-786544	MVR	M36C05	OK	22.212	99.4452	2.16257	-2.94364	0.00324	0.0820803

gene755	gene755	SACOL0764	gi 57650036 ref NC_002951.2 :786675-787659	MVR	M36C05	OK	45.0892	172.447	1.9353	-2.43247	0.015	0.21364
gene756	gene756	saeS	gi 57650036 ref NC_002951.2 :787730-789920	MVR	M36C05	OK	156.53	237.277	0.600132	-0.448151	0.65405	0.999883
gene757	gene757	saeR	gi 57650036 ref NC_002951.2 :787730-789920	MVR	M36C05	OK	203.045	321.759	0.664185	-0.428726	0.66812	0.999883
gene758	gene758	SACOL0767	gi 57650036 ref NC_002951.2 :787730-789920	MVR	M36C05	OK	149.128	233.684	0.648013	-0.265642	0.79052	0.999883
gene759	gene759	SACOL0768	gi 57650036 ref NC_002951.2 :790261-790702	MVR	M36C05	OK	364.354	368.861	0.0177374	-0.021972	0.98247	0.999883
gene76	gene76	SACOL0079	gi 57650036 ref NC_002951.2 :89393-90164	MVR	M36C05	OK	0.53445	1.35245	1.33944	-1.26846	0.20463	0.877017
gene760	gene760	SACOL0769	gi 57650036 ref NC_002951.2 :790981-791566	MVR	M36C05	OK	49.5379	28.3881	-0.803243	1.1691	0.24237	0.913772
gene761	gene761	SACOL0770	gi 57650036 ref NC_002951.2 :791664-792378	MVR	M36C05	OK	23.5056	24.0429	0.0326016	-0.047769	0.9619	0.999883
gene762	gene762	SACOL0771	gi 57650036 ref NC_002951.2 :792381-792801	MVR	M36C05	OK	14.1559	10.5134	-0.429176	0.589447	0.55556	0.999883
gene763	gene763	SACOL0772	gi 57650036 ref NC_002951.2 :792802-793471	MVR	M36C05	OK	16.5533	7.0591	-1.22956	1.76856	0.07697	0.551492
gene764	gene764	pabA	gi 57650036 ref NC_002951.2 :793821-796158	MVR	M36C05	OK	5.68661	2.52169	-1.17318	0.687985	0.49146	0.999883
gene765	gene765	SACOL0774	gi 57650036 ref NC_002951.2 :793821-796158	MVR	M36C05	OK	6.20674	3.74451	-0.72906	0.977483	0.32833	0.999883
gene766	gene766	SACOL0776	gi 57650036 ref NC_002951.2 :796517-798216	MVR	M36C05	OK	11.2849	12.3081	0.125204	-0.109024	0.91318	0.999883
gene767	gene767	SACOL0777	gi 57650036 ref NC_002951.2 :796517-798216	MVR	M36C05	OK	14.6757	11.3697	-0.368226	0.424364	0.6713	0.999883
gene768	gene768	SACOL0778	gi 57650036 ref NC_002951.2 :798689-800630	MVR	M36C05	OK	319.391	143.127	-1.15803	1.23124	0.21824	0.89416
gene769	gene769	SACOL0779	gi 57650036 ref NC_002951.2 :800906-802784	MVR	M36C05	OK	36.9533	36.978	0.00096187	-0.001236	0.99901	0.999883
gene77	gene77	SACOL0080	gi 57650036 ref NC_002951.2 :90215-90986	MVR	M36C05	NOTEST	0.32067	0.57962	0.85401	-0.632213	0.52725	1
gene770	gene770	recQ1	gi 57650036 ref NC_002951.2 :802795-804577	MVR	M36C05	OK	56.3484	43.9606	-0.358165	0.447498	0.65452	0.999883
gene771	gene771	SACOL0781	gi 57650036 ref NC_002951.2 :804798-807283	MVR	M36C05	OK	23.577	104.182	2.14365	-1.53571	0.12461	0.699617
gene772	gene772	opuBB	gi 57650036 ref NC_002951.2 :804798-807283	MVR	M36C05	OK	30.7607	91.0316	1.56528	-1.49399	0.13518	0.729769
gene773	gene773	hisC	gi 57650036 ref NC_002951.2 :807522-808581	MVR	M36C05	OK	10.0851	47.8801	2.24721	-3.14709	0.00165	0.0501425
gene774	gene774	SACOL0785	gi 57650036 ref NC_002951.2 :808931-809474	MVR	M36C05	OK	25.8176	61.4856	1.25189	-1.81437	0.06962	0.522414
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	MVR	M36C05	OK	0	560.512	1.79769e+30	1.79769e+30	0.00145	0.0454417
gene776	gene776	SACOL0787	gi 57650036 ref NC_002951.2 :810153-811071	MVR	M36C05	OK	31.4284	320.723	3.35119	-4.14308	3.43E-05	0.0022544
gene777	gene777	SACOL0788	gi 57650036 ref NC_002951.2 :811340-812846	MVR	M36C05	OK	146.443	56.7174	-1.36848	1.62668	0.10381	0.645527
gene778	gene778	SACOL0789	gi 57650036 ref NC_002951.2 :813186-813687	MVR	M36C05	OK	37.0683	12.106	-1.61447	2.33212	0.01969	0.25867
gene779	gene779	SACOL0790	gi 57650036 ref NC_002951.2 :813706-814573	MVR	M36C05	OK	28.3729	10.5832	-1.42273	2.06931	0.03852	0.382368
gene78	gene78	SACOL0081	gi 57650036 ref NC_002951.2 :91049-91214	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene780	gene780	SACOL0790.1	gi 57650036 ref NC_002951.2 :814957-815224	MVR	M36C05	OK	303.103	162.198	-0.902052	1.3039	0.19227	0.852075
gene781	gene781	nrdI	gi 57650036 ref NC_002951.2 :815373-817840	MVR	M36C05	OK	629.523	636.509	0.0159232	-0.005638	0.9955	0.999883
gene782	gene782	nrdE	gi 57650036 ref NC_002951.2 :815373-817840	MVR	M36C05	OK	531.103	384.04	-0.467736	0.446967	0.6549	0.999883
gene783	gene783	nrdF	gi 57650036 ref NC_002951.2 :817957-818929	MVR	M36C05	OK	929.536	284.551	-1.70782	1.81861	0.06897	0.522414
gene784	gene784	SACOL0794	gi 57650036 ref NC_002951.2 :819061-819166	MVR	M36C05	NOTEST	0	0	0	0	1	1

gene785	gene785	SACOL0796	gi 57650036 ref NC_002951.2 :819636-822309	MVR	M36C05	OK	2.50169	1.28562	-0.960438	0.848667	0.39607	0.999883
gene786	gene786	SACOL0797	gi 57650036 ref NC_002951.2 :819636-822309	MVR	M36C05	OK	1.43599	1.74817	0.283799	-0.232614	0.81606	0.999883
gene787	gene787	SACOL0798	gi 57650036 ref NC_002951.2 :819636-822309	MVR	M36C05	OK	1.84752	0.98153	-0.912492	0.594702	0.55204	0.999883
gene788	gene788	SACOL0799	gi 57650036 ref NC_002951.2 :822427-823456	MVR	M36C05	OK	6.68327	3.19236	-1.06593	1.50921	0.13125	0.718382
gene789	gene789	SACOL0800	gi 57650036 ref NC_002951.2 :823772-824087	MVR	M36C05	OK	11.7047	13.6461	0.221401	-0.279769	0.77966	0.999883
gene79	gene79	SACOL0082	gi 57650036 ref NC_002951.2 :91226-91823	MVR	M36C05	NOTEST	0.15669	0.55613	1.82748	-0.859942	0.38982	1
gene790	gene790	murB	gi 57650036 ref NC_002951.2 :824104-825028	MVR	M36C05	OK	23.4738	21.6307	-0.117972	0.171142	0.86411	0.999883
gene791	gene791	SACOL0802	gi 57650036 ref NC_002951.2 :825154-825673	MVR	M36C05	OK	14.6437	13.846	-0.0808079	0.116304	0.90741	0.999883
gene792	gene792	SACOL0803	gi 57650036 ref NC_002951.2 :825792-826671	MVR	M36C05	OK	16.7834	13.9696	-0.264746	0.388914	0.69734	0.999883
gene793	gene793	SACOL0804	gi 57650036 ref NC_002951.2 :826824-827145	MVR	M36C05	OK	70.8922	232.721	1.7149	-2.44657	0.01442	0.207918
gene794	gene794	SACOL0805	gi 57650036 ref NC_002951.2 :827569-828694	MVR	M36C05	OK	35.0495	45.5334	0.37753	-0.512022	0.60864	0.999883
gene795	gene795	pepT	gi 57650036 ref NC_002951.2 :828882-830109	MVR	M36C05	OK	94.2251	100.157	0.0880727	-0.107021	0.91477	0.999883
gene796	gene796	SACOL0807	gi 57650036 ref NC_002951.2 :830122-830617	MVR	M36C05	OK	10.5459	12.7263	0.271124	-0.381625	0.70274	0.999883
gene797	gene797	SACOL0808	gi 57650036 ref NC_002951.2 :830634-831396	MVR	M36C05	OK	6.62935	8.83375	0.414159	-0.59389	0.55259	0.999883
gene798	gene798	SACOL0809	gi 57650036 ref NC_002951.2 :831591-832662	MVR	M36C05	OK	21.2653	22.0275	0.0508008	-0.073174	0.94167	0.999883
gene799	gene799	SACOL0810	gi 57650036 ref NC_002951.2 :832979-834035	MVR	M36C05	OK	19.9617	11.3357	-0.816355	1.19118	0.23358	0.902568
gene8	gene8	serS	gi 57650036 ref NC_002951.2 :12812-14099	MVR	M36C05	OK	46.1596	57.0988	0.30683	-0.398766	0.69007	0.999883
gene80	gene80	SACOL0083	gi 57650036 ref NC_002951.2 :91889-92657	MVR	M36C05	NOTEST	0.10748	0.38846	1.85369	-0.872277	0.38306	1
gene800	gene800	SACOL0811	gi 57650036 ref NC_002951.2 :834204-834846	MVR	M36C05	OK	69.6464	93.8891	0.43091	-0.587262	0.55703	0.999883
gene801	gene801	SACOL0812	gi 57650036 ref NC_002951.2 :834989-835856	MVR	M36C05	OK	91.6662	45.9709	-0.995668	1.32826	0.18409	0.834616
gene802	gene802	SACOL0813	gi 57650036 ref NC_002951.2 :836219-837969	MVR	M36C05	OK	3.8805	2.49745	-0.635788	0.759583	0.4475	0.999883
gene803	gene803	SACOL0814	gi 57650036 ref NC_002951.2 :836219-837969	MVR	M36C05	OK	1.68517	2.78791	0.726286	-0.51221	0.6085	0.999883
gene804	gene804	SACOL0815	gi 57650036 ref NC_002951.2 :838029-838602	MVR	M36C05	OK	816.584	1142.22	0.484171	-0.515428	0.60625	0.999883
gene805	gene805	secA	gi 57650036 ref NC_002951.2 :839015-841547	MVR	M36C05	OK	120.252	81.2764	-0.565158	0.625687	0.53152	0.999883
gene806	gene806	SACOL0817	gi 57650036 ref NC_002951.2 :841588-841693	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene807	gene807	prfB	gi 57650036 ref NC_002951.2 :841861-842972	MVR	M36C05	OK	37.976	27.9581	-0.441822	0.612788	0.54002	0.999883
gene808	gene808	SACOL0819	gi 57650036 ref NC_002951.2 :843125-843233	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene809	gene809	SACOL0820	gi 57650036 ref NC_002951.2 :843380-844220	MVR	M36C05	OK	5.7903	8.78978	0.602191	-0.865875	0.38656	0.999883
gene81	gene81	SACOL0084	gi 57650036 ref NC_002951.2 :92789-94988	MVR	M36C05	OK	13.8304	20.563	0.572211	-0.782554	0.43389	0.999883
gene810	gene810	SACOL0821	gi 57650036 ref NC_002951.2 :844393-845277	MVR	M36C05	OK	14.9229	20.5559	0.462017	-0.648403	0.51672	0.999883
gene811	gene811	SACOL0822	gi 57650036 ref NC_002951.2 :844393-845277	MVR	M36C05	OK	12.0852	15.3695	0.346827	-0.148108	0.88226	0.999883
gene812	gene812	uvrB	gi 57650036 ref NC_002951.2 :845539-847531	MVR	M36C05	OK	56.306	55.6574	-0.0167147	0.020285	0.98382	0.999883
gene813	gene813	uvrA	gi 57650036 ref NC_002951.2 :847538-850385	MVR	M36C05	OK	65.8737	43.0439	-0.613892	0.715759	0.47414	0.999883

gene814	gene814	hprK	gi 57650036 ref NC_002951.2 :850991-851924	MVR	M36C05	OK	68.5381	118.71	0.792463	-1.0092	0.31288	0.994633
gene815	gene815	lgt	gi 57650036 ref NC_002951.2 :851929-852769	MVR	M36C05	OK	35.5961	60.8391	0.77328	-1.07053	0.28438	0.97125
gene816	gene816	SACOL0827	gi 57650036 ref NC_002951.2 :852776-853262	MVR	M36C05	OK	30.9293	38.6057	0.319838	-0.469817	0.63849	0.999883
gene817	gene817	SACOL0828	gi 57650036 ref NC_002951.2 :853269-854709	MVR	M36C05	OK	31.9361	20.8906	-0.612331	0.842055	0.39976	0.999883
gene818	gene818	trxB	gi 57650036 ref NC_002951.2 :854775-855711	MVR	M36C05	OK	233.083	562.957	1.27218	-1.39082	0.16428	0.794505
gene819	gene819	SACOL0830	gi 57650036 ref NC_002951.2 :856420-858324	MVR	M36C05	OK	37.3119	79.6181	1.09346	-0.677881	0.49785	0.999883
gene82	gene82	SACOL0085	gi 57650036 ref NC_002951.2 :95138-96317	MVR	M36C05	OK	4.40909	9.79766	1.15195	-1.67355	0.09422	0.615952
gene820	gene820	SACOL0831	gi 57650036 ref NC_002951.2 :856420-858324	MVR	M36C05	OK	41.8131	256.844	2.61887	-2.53076	0.01138	0.182229
gene821	gene821	SACOL0832	gi 57650036 ref NC_002951.2 :858433-859378	MVR	M36C05	OK	53.8533	225.301	2.06475	-2.54553	0.01091	0.176027
gene823	gene823	clpP	gi 57650036 ref NC_002951.2 :859950-860538	MVR	M36C05	OK	430.777	633.075	0.555434	-0.624738	0.53214	0.999883
gene824	gene824	SACOL0834	gi 57650036 ref NC_002951.2 :860780-861683	MVR	M36C05	OK	22.8216	112.016	2.29523	-3.07401	0.00211	0.0599397
gene825	gene825	SACOL0835	gi 57650036 ref NC_002951.2 :862386-863016	MVR	M36C05	OK	45.2098	221.264	2.29106	-3.0182	0.00254	0.0691808
gene826	gene826	SACOL0836	gi 57650036 ref NC_002951.2 :863204-863351	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene827	gene827	gapR	gi 57650036 ref NC_002951.2 :863775-864789	MVR	M36C05	OK	66.6208	359.669	2.43263	-2.86586	0.00416	0.0949445
gene828	gene828	gapA1	gi 57650036 ref NC_002951.2 :864841-865852	MVR	M36C05	OK	302.645	1562.03	2.36772	-2.51447	0.01192	0.186337
gene829	gene829	pgk	gi 57650036 ref NC_002951.2 :865990-867181	MVR	M36C05	OK	68.7632	317.513	2.20711	-2.56246	0.01039	0.172118
gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	MVR	M36C05	OK	3.2129	8.34409	1.37688	-1.99163	0.04641	0.423595
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	MVR	M36C05	OK	87.9204	403.604	2.19867	-2.64	0.00829	0.148512
gene831	gene831	pgm	gi 57650036 ref NC_002951.2 :868066-869584	MVR	M36C05	OK	79.8196	292.043	1.87137	-2.10235	0.03552	0.360558
gene832	gene832	eno	gi 57650036 ref NC_002951.2 :869713-871018	MVR	M36C05	OK	295.773	425.4	0.52433	-0.553401	0.57999	0.999883
gene833	gene833	SACOL0843	gi 57650036 ref NC_002951.2 :871357-871816	MVR	M36C05	OK	33.1746	46.0199	0.472178	-0.692937	0.48835	0.999883
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	MVR	M36C05	OK	1119.44	436.036	-1.36025	1.84749	0.06468	0.508207
gene835	gene835	est	gi 57650036 ref NC_002951.2 :872231-872972	MVR	M36C05	OK	33.927	31.8143	-0.0927584	0.134077	0.89334	0.999883
gene836	gene836	SACOL0846	gi 57650036 ref NC_002951.2 :873005-875378	MVR	M36C05	OK	64.4246	91.8913	0.512318	-0.586308	0.55767	0.999883
gene837	gene837	smpB	gi 57650036 ref NC_002951.2 :875399-875864	MVR	M36C05	OK	93.4766	119.125	0.349797	-0.489311	0.62462	0.999883
gene838	gene838	SACOL_Satml	gi 57650036 ref NC_002951.2 :875954-876313	MVR	M36C05	OK	162613	193158	0.248344	-0.396094	0.69204	0.999883
gene839	gene839	SACOL0848	gi 57650036 ref NC_002951.2 :876637-876919	MVR	M36C05	OK	10.2688	13.0235	0.342851	-0.403696	0.68644	0.999883
gene84	gene84	SACOL0087	gi 57650036 ref NC_002951.2 :97874-97982	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene840	gene840	SACOL0849	gi 57650036 ref NC_002951.2 :877185-877509	MVR	M36C05	OK	37.0277	26.4605	-0.484765	0.690385	0.48995	0.999883
gene841	gene841	SACOL0850	gi 57650036 ref NC_002951.2 :877524-877671	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene842	gene842	SACOL0851	gi 57650036 ref NC_002951.2 :877862-878591	MVR	M36C05	OK	3.8206	4.38	0.197132	-0.264697	0.79124	0.999883
gene843	gene843	SACOL0853	gi 57650036 ref NC_002951.2 :879026-879182	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	MVR	M36C05	OK	1.95912	5.82971	1.57322	-1.82132	0.06856	0.522414

gene845	gene845	SACOL0855	gi 57650036 ref NC_002951.2 :879849-880380	MVR	M36C05	OK	3.0434	8.00628	1.39545	-1.75762	0.07881	0.558089
gene846	gene846	clfA	gi 57650036 ref NC_002951.2 :880642-883444	MVR	M36C05	OK	93.3653	1037.04	3.47344	-3.76697	0.00017	0.0087287
gene847	gene847	SACOL0857	gi 57650036 ref NC_002951.2 :883664-885191	MVR	M36C05	OK	1.16703	0.99677	-0.227507	0.287661	0.77361	0.999883
gene848	gene848	empbp	gi 57650036 ref NC_002951.2 :885541-886564	MVR	M36C05	OK	3.73267	2.54573	-0.552129	0.755589	0.4499	0.999883
gene849	gene849	SACOL0859	gi 57650036 ref NC_002951.2 :886898-887369	MVR	M36C05	OK	1.41474	1.22203	-0.211248	0.189162	0.84997	0.999883
gene85	gene85	SACOL0088	gi 57650036 ref NC_002951.2 :98199-99861	MVR	M36C05	OK	76.18	188.55	1.30746	-1.48982	0.13627	0.732537
gene850	gene850	nuc	gi 57650036 ref NC_002951.2 :887709-888396	MVR	M36C05	OK	8.33392	5.89137	-0.500393	0.70508	0.48076	0.999883
gene851	gene851	SACOL0861	gi 57650036 ref NC_002951.2 :888752-888953	MVR	M36C05	OK	18765.9	6839.93	-1.45606	1.56228	0.11822	0.68227
gene852	gene852	SACOL0862	gi 57650036 ref NC_002951.2 :889448-889667	MVR	M36C05	OK	26.8453	72.5393	1.43409	-1.83441	0.06659	0.515441
gene853	gene853	SACOL0863	gi 57650036 ref NC_002951.2 :889728-890013	MVR	M36C05	OK	5.70951	31.1372	2.4472	-2.78121	0.00542	0.113604
gene854	gene854	SACOL0864	gi 57650036 ref NC_002951.2 :890100-890670	MVR	M36C05	OK	6.5864	0.89518	-2.87924	3.0234	0.0025	0.0687796
gene855	gene855	SACOL0865	gi 57650036 ref NC_002951.2 :891074-891335	MVR	M36C05	OK	28.9497	39.128	0.434651	-0.589995	0.55519	0.999883
gene856	gene856	SACOL0866	gi 57650036 ref NC_002951.2 :891639-891744	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene857	gene857	SACOL0868	gi 57650036 ref NC_002951.2 :891875-892112	MVR	M36C05	OK	39.8813	528.328	3.72765	-5.04833	4.46E-07	5.86E-05
gene858	gene858	SACOL0869	gi 57650036 ref NC_002951.2 :892327-892918	MVR	M36C05	OK	8.28096	9.03492	0.125713	-0.177059	0.85946	0.999883
gene859	gene859	SACOL0870	gi 57650036 ref NC_002951.2 :892990-893608	MVR	M36C05	OK	35.9028	59.68	0.733151	-1.05073	0.29338	0.976946
gene86	gene86	SACOL0089	gi 57650036 ref NC_002951.2 :100186-101962	MVR	M36C05	OK	4.86145	22.4486	2.20717	-3.11626	0.00183	0.0540416
gene860	gene860	SACOL0871	gi 57650036 ref NC_002951.2 :893762-894257	MVR	M36C05	OK	14.2047	96.1957	2.7596	-3.89027	0.0001	0.005706
gene861	gene861	SACOL0872	gi 57650036 ref NC_002951.2 :894655-895078	MVR	M36C05	OK	15.988	189.707	3.56871	-4.88807	1.02E-06	0.000117
gene862	gene862	aroD	gi 57650036 ref NC_002951.2 :895225-895942	MVR	M36C05	OK	8.42005	11.3113	0.425863	-0.616221	0.53775	0.999883
gene863	gene863	SACOL0874	gi 57650036 ref NC_002951.2 :896024-896564	MVR	M36C05	OK	33.2696	40.5947	0.287086	-0.420288	0.67428	0.999883
gene864	gene864	SACOL0875	gi 57650036 ref NC_002951.2 :896713-897034	MVR	M36C05	OK	118.864	210.93	0.827449	-1.18349	0.23662	0.90647
gene865	gene865	SACOL0876	gi 57650036 ref NC_002951.2 :897177-897534	MVR	M36C05	OK	75.1591	81.5563	0.117848	-0.172686	0.8629	0.999883
gene866	gene866	gcvH	gi 57650036 ref NC_002951.2 :897691-898072	MVR	M36C05	OK	546.626	888.853	0.701391	-0.832708	0.40501	0.999883
gene867	gene867	SACOL0879	gi 57650036 ref NC_002951.2 :898250-899129	MVR	M36C05	OK	65.0803	18.3554	-1.82602	2.54656	0.01088	0.176027
gene868	gene868	SACOL0880	gi 57650036 ref NC_002951.2 :899870-900546	MVR	M36C05	OK	37.7792	27.5473	-0.455682	0.532	0.59473	0.999883
gene869	gene869	SACOL0881	gi 57650036 ref NC_002951.2 :899870-900546	MVR	M36C05	OK	35.3709	32.3512	-0.128747	0.11436	0.90895	0.999883
gene87	gene87	SACOL0090	gi 57650036 ref NC_002951.2 :102135-103008	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene870	gene870	SACOL0882	gi 57650036 ref NC_002951.2 :900795-902509	MVR	M36C05	OK	11.302	20.0248	0.825213	-0.98574	0.32426	0.999883
gene871	gene871	SACOL0883	gi 57650036 ref NC_002951.2 :900795-902509	MVR	M36C05	OK	8.91831	14.4607	0.697295	-0.557528	0.57717	0.999883
gene872	gene872	SACOL0884	gi 57650036 ref NC_002951.2 :902526-903348	MVR	M36C05	OK	23.5647	39.9022	0.759843	-1.08928	0.27603	0.961224
gene873	gene873	SACOL0885	gi 57650036 ref NC_002951.2 :903490-904711	MVR	M36C05	OK	2.58097	1.40374	-0.878634	1.15809	0.24683	0.921724
gene874	gene874	sek	gi 57650036 ref NC_002951.2 :904799-905528	MVR	M36C05	OK	18.061	6.46572	-1.482	2.13611	0.03267	0.346679

gene875	gene875	sei	gi 57650036 ref NC_002951.2 :905551-906280	MVR	M36C05	OK	10.4198	7.09143	-0.555182	0.79874	0.42444	0.999883
gene876	gene876	SACOL0888	gi 57650036 ref NC_002951.2 :906349-906781	MVR	M36C05	OK	15.0476	13.7799	-0.126967	0.178399	0.85841	0.999883
gene877	gene877	SACOL0889	gi 57650036 ref NC_002951.2 :906797-907256	MVR	M36C05	OK	8.41744	12.7833	0.602807	-0.825668	0.40899	0.999883
gene878	gene878	SACOL0890	gi 57650036 ref NC_002951.2 :907267-907600	MVR	M36C05	OK	15.169	36.138	1.25239	-1.72522	0.08449	0.57847
gene879	gene879	SACOL0891	gi 57650036 ref NC_002951.2 :907792-908321	MVR	M36C05	OK	6.13255	12.644	1.0439	-1.02904	0.30346	0.988364
gene88	gene88	SACOL0091	gi 57650036 ref NC_002951.2 :103120-104518	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene880	gene880	SACOL0892	gi 57650036 ref NC_002951.2 :907792-908321	MVR	M36C05	OK	0.79917	2.57159	1.68608	-0.58612	0.5578	0.999883
gene881	gene881	SACOL0893	gi 57650036 ref NC_002951.2 :908332-908681	MVR	M36C05	OK	0	21.2822	1.79769e+30	1.79769e+30	0.2187	0.89416
gene882	gene882	SACOL0894	gi 57650036 ref NC_002951.2 :908332-908681	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene883	gene883	SACOL0895	gi 57650036 ref NC_002951.2 :908683-909004	MVR	M36C05	NOTEST	0	0.87161	1.79769e+30	1.79769e+30	0.14732	1
gene884	gene884	SACOL0896	gi 57650036 ref NC_002951.2 :909067-909937	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene885	gene885	SACOL0897	gi 57650036 ref NC_002951.2 :909953-911411	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene886	gene886	SACOL0898	gi 57650036 ref NC_002951.2 :911711-912074	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene887	gene887	SACOL0899	gi 57650036 ref NC_002951.2 :912075-912998	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene888	gene888	SACOL0900	gi 57650036 ref NC_002951.2 :912075-912998	MVR	M36C05	OK	2.09778	3.99528	0.929432	-1.1289	0.25894	0.938582
gene889	gene889	SACOL0901	gi 57650036 ref NC_002951.2 :913514-913856	MVR	M36C05	OK	28.9932	18.9386	-0.614389	0.862473	0.38843	0.999883
gene89	gene89	SACOL0092	gi 57650036 ref NC_002951.2 :104707-105181	MVR	M36C05	OK	6.05831	53.1833	3.13399	-4.26126	2.03E-05	0.0014283
gene890	gene890	SACOL0902	gi 57650036 ref NC_002951.2 :913867-914446	MVR	M36C05	OK	31.6062	29.7122	-0.0891531	0.130801	0.89593	0.999883
gene891	gene891	SACOL0903	gi 57650036 ref NC_002951.2 :914463-914682	MVR	M36C05	OK	213.183	137.575	-0.631881	0.926108	0.35439	0.999883
gene892	gene892	SACOL0904	gi 57650036 ref NC_002951.2 :914732-915260	MVR	M36C05	OK	11.7166	5.72302	-1.03371	1.41376	0.15743	0.77612
gene893	gene893	SACOL0905	gi 57650036 ref NC_002951.2 :915262-916170	MVR	M36C05	OK	11.5052	7.57543	-0.602893	0.440479	0.65959	0.999883
gene894	gene894	SACOL0906	gi 57650036 ref NC_002951.2 :915262-916170	MVR	M36C05	OK	14.355	7.16144	-1.00323	1.24166	0.21436	0.89416
gene895	gene895	seb	gi 57650036 ref NC_002951.2 :916477-917278	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene896	gene896	SACOL0908	gi 57650036 ref NC_002951.2 :917355-917913	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene897	gene897	SACOL0909	gi 57650036 ref NC_002951.2 :918285-918438	MVR	M36C05	OK	167.732	204.749	0.2877	-0.353817	0.72348	0.999883
gene898	gene898	SACOL0910	gi 57650036 ref NC_002951.2 :918508-918806	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene899	gene899	SACOL0911	gi 57650036 ref NC_002951.2 :918508-918806	MVR	M36C05	OK	88.0822	83.8398	-0.0712147	0.096569	0.92307	0.999883
gene9	gene9	SACOL0010	gi 57650036 ref NC_002951.2 :14748-15770	MVR	M36C05	OK	9.16604	8.89889	-0.042673	0.054137	0.95683	0.999883
gene90	gene90	SACOL0093	gi 57650036 ref NC_002951.2 :105442-107035	MVR	M36C05	OK	30.1192	31.6506	0.0715465	-0.095479	0.92393	0.999883
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	MVR	M36C05	OK	2853.72	58362.5	4.35413	-4.94854	7.48E-07	9.49E-05
gene901	gene901	SACOL0913	gi 57650036 ref NC_002951.2 :920063-920915	MVR	M36C05	OK	52.8864	121.635	1.20159	-1.56756	0.11698	0.676208
gene902	gene902	SACOL0914	gi 57650036 ref NC_002951.2 :921242-922004	MVR	M36C05	OK	180.188	353.546	0.972397	-1.1354	0.25621	0.933885
gene903	gene903	sufD	gi 57650036 ref NC_002951.2 :922101-923409	MVR	M36C05	OK	173.563	252.32	0.539793	-0.597612	0.5501	0.999883

gene904	gene904	SACOL0916	gi 57650036 ref NC_002951.2 :923523-925219	MVR	M36C05	OK	164.878	207.478	0.331563	-0.335519	0.73723	0.999883
gene905	gene905	SACOL0917	gi 57650036 ref NC_002951.2 :923523-925219	MVR	M36C05	OK	139.128	159.944	0.201153	-0.090615	0.9278	0.999883
gene906	gene906	sufB	gi 57650036 ref NC_002951.2 :925369-926767	MVR	M36C05	OK	200.861	215.775	0.103332	-0.113577	0.90957	0.999883
gene907	gene907	SACOL0919	gi 57650036 ref NC_002951.2 :926953-927091	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene908	gene908	SACOL0920	gi 57650036 ref NC_002951.2 :927096-927411	MVR	M36C05	OK	2.78684	0	-1.79769e+30	-1.79769e+30	0.04385	0.40838
gene909	gene909	SACOL0921	gi 57650036 ref NC_002951.2 :927775-928816	MVR	M36C05	OK	13.1703	62.1485	2.23843	-3.09153	0.00199	0.0576438
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	MVR	M36C05	OK	106.424	9.22015	-3.52889	4.55517	5.23E-06	0.0004795
gene910	gene910	SACOL0922	gi 57650036 ref NC_002951.2 :928829-929897	MVR	M36C05	OK	9.28466	34.1717	1.87988	-2.68097	0.00734	0.137988
gene911	gene911	SACOL0924	gi 57650036 ref NC_002951.2 :930109-930958	MVR	M36C05	OK	40.3229	32.8014	-0.297841	0.42233	0.67278	0.999883
gene912	gene912	SACOL0925	gi 57650036 ref NC_002951.2 :930970-931798	MVR	M36C05	OK	25.5573	17.9159	-0.512491	0.748253	0.45431	0.999883
gene913	gene913	SACOL0926	gi 57650036 ref NC_002951.2 :931824-933144	MVR	M36C05	OK	38.4201	26.2803	-0.547876	0.745653	0.45588	0.999883
gene914	gene914	lipA	gi 57650036 ref NC_002951.2 :933227-934145	MVR	M36C05	OK	268.448	192.465	-0.480047	0.551478	0.58131	0.999883
gene915	gene915	SACOL0928	gi 57650036 ref NC_002951.2 :934265-934658	MVR	M36C05	OK	172.988	78.4671	-1.14051	1.6175	0.10577	0.653986
gene916	gene916	SACOL0929	gi 57650036 ref NC_002951.2 :934736-934994	MVR	M36C05	OK	160.813	95.7499	-0.748038	1.09847	0.272	0.956031
gene917	gene917	SACOL0930	gi 57650036 ref NC_002951.2 :935100-936314	MVR	M36C05	OK	101.145	60.5249	-0.74082	0.585834	0.55799	0.999883
gene918	gene918	SACOL0931	gi 57650036 ref NC_002951.2 :935100-936314	MVR	M36C05	OK	65.4103	45.649	-0.518934	0.54609	0.585	0.999883
gene919	gene919	SACOL0932	gi 57650036 ref NC_002951.2 :936346-937306	MVR	M36C05	OK	77.6247	44.9825	-0.787151	1.04637	0.29539	0.978474
gene92	gene92	sarS	gi 57650036 ref NC_002951.2 :109310-110063	MVR	M36C05	OK	109.863	47.8813	-1.19817	1.61055	0.10728	0.653986
gene920	gene920	SACOL0933	gi 57650036 ref NC_002951.2 :937559-937670	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene921	gene921	SACOL0934	gi 57650036 ref NC_002951.2 :937717-937870	MVR	M36C05	OK	260.916	204.749	-0.34973	0.44799	0.65416	0.999883
gene922	gene922	dltA	gi 57650036 ref NC_002951.2 :937885-940554	MVR	M36C05	OK	528.408	477.899	-0.144947	0.119036	0.90525	0.999883
gene923	gene923	dltB	gi 57650036 ref NC_002951.2 :937885-940554	MVR	M36C05	OK	447.263	246.457	-0.859789	0.512378	0.60839	0.999883
gene924	gene924	dltC	gi 57650036 ref NC_002951.2 :940571-941980	MVR	M36C05	OK	502.746	282.415	-0.832012	0.178338	0.85846	0.999883
gene925	gene925	dltD	gi 57650036 ref NC_002951.2 :940571-941980	MVR	M36C05	OK	678.744	312.682	-1.11817	1.14545	0.25202	0.92853
gene926	gene926	SACOL0939	gi 57650036 ref NC_002951.2 :942242-942464	MVR	M36C05	OK	142.933	73.9046	-0.951605	1.36546	0.17211	0.817827
gene927	gene927	SACOL0940	gi 57650036 ref NC_002951.2 :942585-942909	MVR	M36C05	OK	163.756	67.4316	-1.28005	1.86348	0.06239	0.504373
gene928	gene928	SACOL0941	gi 57650036 ref NC_002951.2 :942969-944032	MVR	M36C05	OK	67.5406	79.728	0.239332	-0.306949	0.75888	0.999883
gene929	gene929	SACOL0942	gi 57650036 ref NC_002951.2 :944348-944585	MVR	M36C05	OK	334.761	528.328	0.658301	-0.931762	0.35146	0.999883
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	MVR	M36C05	OK	8.30008	107.927	3.70079	-4.84367	1.27E-06	0.0001377
gene930	gene930	SACOL0943	gi 57650036 ref NC_002951.2 :944597-944957	MVR	M36C05	OK	195.062	364.691	0.902737	-1.20942	0.2265	0.897207
gene931	gene931	SACOL0944	gi 57650036 ref NC_002951.2 :945410-946619	MVR	M36C05	OK	110.671	77.7971	-0.508489	0.62245	0.53365	0.999883
gene932	gene932	SACOL0945	gi 57650036 ref NC_002951.2 :946749-948225	MVR	M36C05	OK	36.0164	91.2242	1.34076	-1.68074	0.09281	0.611738
gene933	gene933	SACOL0946	gi 57650036 ref NC_002951.2 :948635-949952	MVR	M36C05	OK	15.2497	11.251	-0.438728	0.638672	0.52304	0.999883

gene934	gene934	SACOL0947	gi 57650036 ref NC_002951.2 :949970-950345	MVR	M36C05	OK	51.3003	61.1852	0.254217	-0.37347	0.7088	0.999883
gene935	gene935	SACOL0948	gi 57650036 ref NC_002951.2 :950400-951555	MVR	M36C05	OK	1.69602	1.50084	-0.17638	0.225296	0.82175	0.999883
gene936	gene936	mnhG	gi 57650036 ref NC_002951.2 :951803-952910	MVR	M36C05	OK	79.3346	45.6162	-0.798403	0.701593	0.48293	0.999883
gene937	gene937	mnhF	gi 57650036 ref NC_002951.2 :951803-952910	MVR	M36C05	OK	15.1705	7.48446	-1.0193	0.300627	0.7637	0.999883
gene938	gene938	mnhE	gi 57650036 ref NC_002951.2 :951803-952910	MVR	M36C05	OK	58.2771	42.1905	-0.466011	0.497309	0.61897	0.999883
gene939	gene939	mnhD	gi 57650036 ref NC_002951.2 :952911-957568	MVR	M36C05	OK	65.8369	56.0064	-0.233304	0.127976	0.89817	0.999883
gene94	gene94	sirB	gi 57650036 ref NC_002951.2 :110431-112422	MVR	M36C05	OK	0.60599	1.66242	1.45593	-0.289945	0.77186	0.999883
gene940	gene940	mnhC	gi 57650036 ref NC_002951.2 :952911-957568	MVR	M36C05	OK	49.2425	62.876	0.352607	-0.060746	0.95156	0.999883
gene941	gene941	mnhB	gi 57650036 ref NC_002951.2 :952911-957568	MVR	M36C05	OK	56.5134	54.387	-0.0553314	0.012026	0.99041	0.999883
gene942	gene942	mnhA	gi 57650036 ref NC_002951.2 :952911-957568	MVR	M36C05	OK	75.808	106.551	0.491127	-0.432118	0.66566	0.999883
gene943	gene943	kapB	gi 57650036 ref NC_002951.2 :957698-958082	MVR	M36C05	OK	39.4825	50.5964	0.357822	-0.525086	0.59952	0.999883
gene944	gene944	SACOL0957	gi 57650036 ref NC_002951.2 :958145-958739	MVR	M36C05	OK	125.421	63.3224	-0.985996	1.34519	0.17856	0.821737
gene945	gene945	SACOL0958	gi 57650036 ref NC_002951.2 :959154-959532	MVR	M36C05	OK	217.864	486.568	1.15921	-1.49966	0.1337	0.7248
gene946	gene946	SACOL0959	gi 57650036 ref NC_002951.2 :959893-961021	MVR	M36C05	OK	62.1035	176.673	1.50833	-1.83257	0.06687	0.516447
gene947	gene947	rocD	gi 57650036 ref NC_002951.2 :961328-962519	MVR	M36C05	OK	388.388	786.996	1.01886	-1.0582	0.28997	0.975616
gene948	gene948	gluD	gi 57650036 ref NC_002951.2 :962627-963872	MVR	M36C05	OK	695.207	1143.6	0.718071	-0.735184	0.46223	0.999883
gene949	gene949	SACOL0962	gi 57650036 ref NC_002951.2 :964374-965304	MVR	M36C05	OK	31.0601	40.6392	0.387811	-0.544904	0.58582	0.999883
gene95	gene95	sirA	gi 57650036 ref NC_002951.2 :112437-113430	MVR	M36C05	OK	6.0835	4.03274	-0.593142	0.845236	0.39798	0.999883
gene950	gene950	argH	gi 57650036 ref NC_002951.2 :965545-968120	MVR	M36C05	OK	78.5698	24.8497	-1.66075	1.68086	0.09279	0.611738
gene951	gene951	argG	gi 57650036 ref NC_002951.2 :965545-968120	MVR	M36C05	OK	50.5019	13.151	-1.94117	1.39198	0.16393	0.793541
gene952	gene952	SACOL0965	gi 57650036 ref NC_002951.2 :968264-968399	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene953	gene953	pgi	gi 57650036 ref NC_002951.2 :968470-969802	MVR	M36C05	OK	101.608	294.489	1.5352	-1.72928	0.08376	0.575114
gene954	gene954	SACOL0967	gi 57650036 ref NC_002951.2 :970126-970702	MVR	M36C05	OK	39.8433	30.5369	-0.383784	0.561251	0.57463	0.999883
gene955	gene955	spsA	gi 57650036 ref NC_002951.2 :970706-971231	MVR	M36C05	OK	56.2528	37.7131	-0.576861	0.839707	0.40107	0.999883
gene956	gene956	spsB	gi 57650036 ref NC_002951.2 :971237-971822	MVR	M36C05	OK	86.2865	51.6148	-0.74135	1.04245	0.2972	0.9791
gene957	gene957	rexB	gi 57650036 ref NC_002951.2 :971981-975458	MVR	M36C05	OK	35.0099	38.8014	0.148349	-0.176009	0.86029	0.999883
gene958	gene958	rexA	gi 57650036 ref NC_002951.2 :975458-979112	MVR	M36C05	OK	31.2422	32.6975	0.0656823	-0.078764	0.93722	0.999883
gene959	gene959	SACOL0973	gi 57650036 ref NC_002951.2 :979277-980180	MVR	M36C05	OK	258.185	345.46	0.420112	-0.470098	0.63829	0.999883
gene96	gene96	SACOL0100	gi 57650036 ref NC_002951.2 :113693-114641	MVR	M36C05	OK	0.72692	1.32692	0.86822	-0.944834	0.34474	0.999883
gene960	gene960	SACOL0974	gi 57650036 ref NC_002951.2 :980508-980898	MVR	M36C05	OK	40.6022	60.6095	0.577985	-0.847603	0.39666	0.999883
gene961	gene961	SACOL0975	gi 57650036 ref NC_002951.2 :981068-982385	MVR	M36C05	OK	76.9975	156.823	1.02625	-1.21629	0.22388	0.89446
gene962	gene962	SACOL0976	gi 57650036 ref NC_002951.2 :982436-983261	MVR	M36C05	OK	73.4546	142.075	0.951728	-1.21576	0.22408	0.89446
gene963	gene963	SACOL0977	gi 57650036 ref NC_002951.2 :983374-983683	MVR	M36C05	OK	294.175	286.216	-0.0395743	0.054552	0.9565	0.999883

gene964	gene964	SACOL0978	gi 57650036 ref NC_002951.2 :984229-986044	MVR	M36C05	OK	2.86744	2.25204	-0.348529	0.499058	0.61774	0.999883
gene965	gene965	clpB	gi 57650036 ref NC_002951.2 :986246-988856	MVR	M36C05	OK	262.747	112.206	-1.22752	1.29685	0.19468	0.856906
gene966	gene966	SACOL0980	gi 57650036 ref NC_002951.2 :988914-989784	MVR	M36C05	NOTEST	0.5431	0.65849	0.277938	-0.259455	0.79528	1
gene967	gene967	SACOL0981	gi 57650036 ref NC_002951.2 :989893-993274	MVR	M36C05	NOTEST	0.31714	0.69929	1.14076	-0.495721	0.62009	1
gene968	gene968	SACOL0982	gi 57650036 ref NC_002951.2 :989893-993274	MVR	M36C05	OK	1.11882	1.99764	0.836323	-0.446702	0.65509	0.999883
gene969	gene969	SACOL0983	gi 57650036 ref NC_002951.2 :989893-993274	MVR	M36C05	OK	1.96024	2.0396	0.0572502	-0.05181	0.95868	0.999883
gene97	gene97	SACOL0101	gi 57650036 ref NC_002951.2 :114649-115648	MVR	M36C05	OK	1.13183	0.82809	-0.450801	0.500736	0.61656	0.999883
gene970	gene970	SACOL0984	gi 57650036 ref NC_002951.2 :989893-993274	MVR	M36C05	OK	5.19747	5.591	0.105296	-0.090535	0.92786	0.999883
gene971	gene971	SACOL0985	gi 57650036 ref NC_002951.2 :993584-994019	MVR	M36C05	OK	87.952	41.2883	-1.09098	1.58713	0.11248	0.665508
gene972	gene972	SACOL0986	gi 57650036 ref NC_002951.2 :994275-994461	MVR	M36C05	OK	3030.97	2020.63	-0.584977	0.767028	0.44307	0.999883
gene973	gene973	fabH	gi 57650036 ref NC_002951.2 :994755-995697	MVR	M36C05	OK	82.0133	13.5252	-2.6002	3.56697	0.00036	0.015577
gene974	gene974	fabF	gi 57650036 ref NC_002951.2 :995708-996953	MVR	M36C05	OK	172.298	111.301	-0.630444	0.733496	0.46326	0.999883
gene975	gene975	SACOL0989	gi 57650036 ref NC_002951.2 :997007-997379	MVR	M36C05	OK	25.5334	11.4234	-1.1604	1.59906	0.10981	0.659073
gene976	gene976	SACOL0990	gi 57650036 ref NC_002951.2 :997601-999618	MVR	M36C05	NOTEST	0	0	0	0	1	1
gene977	gene977	oppB	gi 57650036 ref NC_002951.2 :997601-999618	MVR	M36C05	OK	373.104	111.321	-1.74485	1.29055	0.19686	0.860309
gene978	gene978	oppC	gi 57650036 ref NC_002951.2 :997601-999618	MVR	M36C05	OK	286.046	108.745	-1.3953	1.10904	0.26741	0.950995
gene979	gene979	oppD	gi 57650036 ref NC_002951.2 :999634-1001648	MVR	M36C05	OK	451.023	195.675	-1.20474	1.05063	0.29343	0.976946
gene98	gene98	SACOL0102	gi 57650036 ref NC_002951.2 :115668-124110	MVR	M36C05	OK	0.61124	1.27581	1.0616	-0.459635	0.64578	0.999883
gene980	gene980	oppF	gi 57650036 ref NC_002951.2 :999634-1001648	MVR	M36C05	OK	272.835	105.675	-1.36839	0.827135	0.40816	0.999883
gene981	gene981	SACOL0995	gi 57650036 ref NC_002951.2 :1001665-1003321	MVR	M36C05	OK	452.746	164.119	-1.46396	1.55457	0.12005	0.688173
gene982	gene982	SACOL0996	gi 57650036 ref NC_002951.2 :1003532-1005248	MVR	M36C05	OK	1.45043	1.23595	-0.230866	0.308064	0.75803	0.999883
gene983	gene983	SACOL0997	gi 57650036 ref NC_002951.2 :1005298-1006285	MVR	M36C05	OK	1.14962	1.40121	0.285515	-0.336109	0.73679	0.999883
gene984	gene984	SACOL0998	gi 57650036 ref NC_002951.2 :1006287-1008223	MVR	M36C05	OK	1.08148	0.98839	-0.129855	0.07989	0.93633	0.999883
gene985	gene985	SACOL0999	gi 57650036 ref NC_002951.2 :1006287-1008223	MVR	M36C05	OK	3.63996	5.49228	0.593482	-0.760655	0.44686	0.999883
gene986	gene986	SACOL1000	gi 57650036 ref NC_002951.2 :1008234-1009116	MVR	M36C05	OK	5.68746	6.14542	0.111727	-0.159748	0.87308	0.999883
gene987	gene987	trpS	gi 57650036 ref NC_002951.2 :1009157-1010147	MVR	M36C05	OK	79.8532	62.3961	-0.355894	0.462817	0.6435	0.999883
gene988	gene988	spxA	gi 57650036 ref NC_002951.2 :1010441-1010837	MVR	M36C05	OK	10827.3	28626.7	1.40269	-1.53721	0.12424	0.698629
gene989	gene989	SACOL1003	gi 57650036 ref NC_002951.2 :1011207-1011927	MVR	M36C05	OK	28.8795	179.086	2.63254	-3.48904	0.00048	0.0197088
gene99	gene99	SACOL0103	gi 57650036 ref NC_002951.2 :115668-124110	MVR	M36C05	OK	1.86829	1.1473	-0.703478	0.326595	0.74397	0.999883
gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	MVR	M36C05	OK	0.9197	1.12097	0.285515	-0.31977	0.74914	0.999883
gene991	gene991	pepF	gi 57650036 ref NC_002951.2 :1013081-1014890	MVR	M36C05	OK	36.2739	69.9369	0.947122	-1.17669	0.23932	0.9107
gene992	gene992	SACOL1006	gi 57650036 ref NC_002951.2 :1015349-1016156	MVR	M36C05	OK	80.1344	157.562	0.975422	-1.23677	0.21617	0.89416
gene993	gene993	SACOL1007	gi 57650036 ref NC_002951.2 :1016178-1016544	MVR	M36C05	OK	100.725	213.26	1.08219	-1.52007	0.12849	0.710394

gene994	gene994	SACOL1008	gi 57650036 ref NC_002951.2 :1016647-1017241	MVR	M36C05	OK	15.7961	24.0961	0.609229	-0.89251	0.37212	0.999883
gene995	gene995	SACOL1009	gi 57650036 ref NC_002951.2 :1017426-1017774	MVR	M36C05	OK	43.7902	43.7798	-0.00034	0.000497	0.9996	0.999883
gene996	gene996	relA1	gi 57650036 ref NC_002951.2 :1017790-1018426	MVR	M36C05	OK	33.4852	46.8324	0.483985	-0.699634	0.48416	0.999883
gene997	gene997	ppnK	gi 57650036 ref NC_002951.2 :1018442-1020103	MVR	M36C05	OK	58.3714	90.4184	0.631355	-0.708819	0.47844	0.999883
gene998	gene998	SACOL1012	gi 57650036 ref NC_002951.2 :1018442-1020103	MVR	M36C05	OK	17.3288	27.617	0.672387	-0.42969	0.66742	0.999883
gene999	gene999	mgtE	gi 57650036 ref NC_002951.2 :1020123-1021509	MVR	M36C05	OK	21.9947	27.2334	0.308223	-0.428396	0.66836	0.999883
	-	-	gi 57650036 ref NC_002951.2 :2227979-2228055	MR150	M36C05	OK	0	293622	1.79769e+30	1.79769e+30	0.14732	0.743774
gene0	gene0	dnaA	gi 57650036 ref NC_002951.2 :543-1905	MR150	M36C05	OK	58.652	24.9503	-1.23313	1.6348	0.10209	0.641904
gene1	gene1	dnaN	gi 57650036 ref NC_002951.2 :2182-3316	MR150	M36C05	OK	101.985	79.21	-0.364609	0.451642	0.65153	0.999883
gene10	gene10	SACOL0011	gi 57650036 ref NC_002951.2 :14748-15770	MR150	M36C05	OK	14.7443	14.7477	0.00033068	-0.00026	0.99979	0.999883
gene100	gene100	SACOL0104	gi 57650036 ref NC_002951.2 :115668-124110	MR150	M36C05	OK	0.19931	1.07563	2.43213	-0.931637	0.35152	0.999883
gene1000	gene1000	SACOL1014	gi 57650036 ref NC_002951.2 :1021518-1023363	MR150	M36C05	OK	31.4718	24.4545	-0.363961	0.482411	0.62951	0.999883
gene1001	gene1001	fabI	gi 57650036 ref NC_002951.2 :1023640-1024411	MR150	M36C05	OK	173.481	105.877	-0.712381	0.890074	0.37343	0.999883
gene1002	gene1002	SACOL1017	gi 57650036 ref NC_002951.2 :1024605-1025691	MR150	M36C05	OK	77.0879	51.6464	-0.577836	0.749199	0.45374	0.999883
gene1003	gene1003	SACOL1018	gi 57650036 ref NC_002951.2 :1026032-1027601	MR150	M36C05	OK	36.3605	68.1152	0.905603	-1.14682	0.25146	0.927778
gene1004	gene1004	SACOL1019	gi 57650036 ref NC_002951.2 :1027742-1028501	MR150	M36C05	OK	15.6113	17.9598	0.202181	-0.297228	0.76629	0.999883
gene1005	gene1005	SACOL1020	gi 57650036 ref NC_002951.2 :1028694-1029204	MR150	M36C05	OK	599.099	760.132	0.343457	-0.383787	0.70114	0.999883
gene1006	gene1006	SACOL1021	gi 57650036 ref NC_002951.2 :1029316-1031660	MR150	M36C05	OK	57.9512	22.2504	-1.38101	0.828524	0.40737	0.999883
gene1007	gene1007	ypfP	gi 57650036 ref NC_002951.2 :1029316-1031660	MR150	M36C05	OK	106.072	89.128	-0.251088	0.248073	0.80408	0.999883
gene1008	gene1008	murE	gi 57650036 ref NC_002951.2 :1032092-1035380	MR150	M36C05	OK	35.8406	20.4637	-0.808527	0.643068	0.52018	0.999883
gene1009	gene1009	SACOL1024	gi 57650036 ref NC_002951.2 :1032092-1035380	MR150	M36C05	OK	42.368	28.7767	-0.558075	0.11535	0.90817	0.999883
gene101	gene101	SACOL0105	gi 57650036 ref NC_002951.2 :115668-124110	MR150	M36C05	OK	1.35804	3.07122	1.17729	-1.00218	0.31626	0.999883
gene1010	gene1010	prfC	gi 57650036 ref NC_002951.2 :1032092-1035380	MR150	M36C05	OK	55.8484	18.9234	-1.56135	1.42248	0.15489	0.769852
gene1011	gene1011	SACOL1026	gi 57650036 ref NC_002951.2 :1035681-1036485	MR150	M36C05	OK	23.5746	11.3234	-1.05792	1.54662	0.12196	0.694408
gene1012	gene1012	SACOL1027	gi 57650036 ref NC_002951.2 :1036543-1036639	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1013	gene1013	htrA	gi 57650036 ref NC_002951.2 :1036718-1039028	MR150	M36C05	OK	17.7133	6.89402	-1.36142	1.90847	0.05633	0.472382
gene1014	gene1014	SACOL1030	gi 57650036 ref NC_002951.2 :1039044-1040403	MR150	M36C05	OK	58.6716	33.9556	-0.789014	1.03081	0.30263	0.987655
gene1015	gene1015	SACOL1031	gi 57650036 ref NC_002951.2 :1040541-1042053	MR150	M36C05	OK	22.2969	30.4133	0.447859	-0.611477	0.54088	0.999883
gene1018	gene1018	SACOL1032	gi 57650036 ref NC_002951.2 :1042539-1043070	MR150	M36C05	OK	2.31133	3.33595	0.529374	-0.612948	0.53991	0.999883
gene1019	gene1019	SACOL1033	gi 57650036 ref NC_002951.2 :1043318-1043537	MR150	M36C05	OK	573.859	3799.56	2.72706	-3.42381	0.00062	0.0238979
gene102	gene102	SACOL0106	gi 57650036 ref NC_002951.2 :115668-124110	MR150	M36C05	OK	2.12276	4.97106	1.22762	-0.797302	0.42528	0.999883
gene1020	gene1020	SACOL1034	gi 57650036 ref NC_002951.2 :1043617-1044604	MR150	M36C05	OK	20.0412	44.9789	1.16628	-1.6376	0.10151	0.63989
gene1021	gene1021	SACOL1035	gi 57650036 ref NC_002951.2 :1044802-1044979	MR150	M36C05	OK	286.672	126.812	-1.1767	1.64392	0.10019	0.638047

gene1022	gene1022	SACOL1036	gi 57650036 ref NC_002951.2 :1044993-1045596	MR150	M36C05	OK	386.258	250.636	-0.623972	0.736893	0.46119	0.999883
gene1023	gene1023	SACOL1037	gi 57650036 ref NC_002951.2 :1045867-1045975	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1024	gene1024	SACOL1038	gi 57650036 ref NC_002951.2 :1046940-1048905	MR150	M36C05	OK	0.60748	2.06056	1.76213	-2.28506	0.02231	0.282751
gene1025	gene1025	SACOL1039	gi 57650036 ref NC_002951.2 :1048907-1049866	MR150	M36C05	OK	0	7.84452	1.79769e+30	1.79769e+30	0.04502	0.415575
gene1026	gene1026	SACOL1040	gi 57650036 ref NC_002951.2 :1048907-1049866	MR150	M36C05	OK	1.03896	3.99528	1.94316	-1.93749	0.05269	0.453909
gene1027	gene1027	SACOL1041	gi 57650036 ref NC_002951.2 :1049953-1050244	MR150	M36C05	OK	57.8526	37.2626	-0.634655	0.914895	0.36025	0.999883
gene1028	gene1028	SACOL1042	gi 57650036 ref NC_002951.2 :1050522-1050810	MR150	M36C05	OK	21.8659	5.61968	-1.96012	2.26297	0.02364	0.292955
gene1029	gene1029	SACOL1043	gi 57650036 ref NC_002951.2 :1050815-1052297	MR150	M36C05	OK	34.2875	7.39445	-2.21317	3.08748	0.00202	0.057876
gene103	gene103	SACOL0107	gi 57650036 ref NC_002951.2 :115668-124110	MR150	M36C05	OK	1.67957	2.30831	0.458747	-0.299176	0.76481	0.999883
gene1030	gene1030	SACOL1044	gi 57650036 ref NC_002951.2 :1052385-1052742	MR150	M36C05	OK	87.0651	22.117	-1.97694	2.84223	0.00448	0.0988909
gene1031	gene1031	SACOL1045	gi 57650036 ref NC_002951.2 :1053218-1054178	MR150	M36C05	OK	4.63413	2.75699	-0.749204	1.03249	0.30184	0.987544
gene1032	gene1032	SACOL1046	gi 57650036 ref NC_002951.2 :1054223-1054355	MR150	M36C05	OK	504.02	477.466	-0.0780835	0.091436	0.92715	0.999883
gene1033	gene1033	SACOL1047	gi 57650036 ref NC_002951.2 :1054418-1054709	MR150	M36C05	OK	70.0321	55.8939	-0.325327	0.475762	0.63424	0.999883
gene1034	gene1034	SACOL1048	gi 57650036 ref NC_002951.2 :1054852-1055350	MR150	M36C05	OK	30.2844	48.911	0.691586	-1.0121	0.31149	0.993813
gene1035	gene1035	menA	gi 57650036 ref NC_002951.2 :1055401-1056340	MR150	M36C05	OK	48.4864	42.9792	-0.173942	0.237891	0.81197	0.999883
gene1036	gene1036	SACOL1050	gi 57650036 ref NC_002951.2 :1056490-1056595	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1037	gene1037	SACOL1051	gi 57650036 ref NC_002951.2 :1056671-1061147	MR150	M36C05	OK	26.1802	12.2014	-1.10143	0.363351	0.71634	0.999883
gene1038	gene1038	menD	gi 57650036 ref NC_002951.2 :1056671-1061147	MR150	M36C05	OK	31.485	20.8624	-0.593761	0.28417	0.77628	0.999883
gene1039	gene1039	SACOL1053	gi 57650036 ref NC_002951.2 :1056671-1061147	MR150	M36C05	OK	38.5306	20.8205	-0.888	0.285864	0.77498	0.999883
gene104	gene104	SACOL0108	gi 57650036 ref NC_002951.2 :124113-124878	MR150	M36C05	OK	4.06465	4.49102	0.143913	-0.196509	0.84421	0.999883
gene1040	gene1040	menB	gi 57650036 ref NC_002951.2 :1056671-1061147	MR150	M36C05	OK	254.036	180.181	-0.49559	0.444657	0.65657	0.999883
gene1041	gene1041	sspC	gi 57650036 ref NC_002951.2 :1061385-1061715	MR150	M36C05	OK	4.53671	10.6511	1.23129	-1.41209	0.15792	0.776469
gene1042	gene1042	sspB1	gi 57650036 ref NC_002951.2 :1061752-1062934	MR150	M36C05	OK	4.36666	8.42043	0.947363	-1.3772	0.16845	0.808072
gene1043	gene1043	sspA	gi 57650036 ref NC_002951.2 :1063015-1064026	MR150	M36C05	OK	3.58757	3.6712	0.0332427	-0.046374	0.96301	0.999883
gene1044	gene1044	SACOL1058	gi 57650036 ref NC_002951.2 :1064553-1065708	MR150	M36C05	OK	41.0521	56.1085	0.450763	-0.597171	0.55039	0.999883
gene1045	gene1045	SACOL1059	gi 57650036 ref NC_002951.2 :1065903-1066914	MR150	M36C05	OK	7.93042	23.5229	1.56859	-2.27625	0.02283	0.287725
gene1046	gene1046	SACOL1060	gi 57650036 ref NC_002951.2 :1067066-1067486	MR150	M36C05	OK	35.3517	34.5439	-0.0333458	0.048999	0.96092	0.999883
gene1047	gene1047	atl	gi 57650036 ref NC_002951.2 :1067692-1071463	MR150	M36C05	OK	494.397	529.032	0.097686	-0.10182	0.9189	0.999883
gene1048	gene1048	SACOL1063	gi 57650036 ref NC_002951.2 :1071690-1072125	MR150	M36C05	OK	16.2416	14.5448	-0.159199	0.2261	0.82112	0.999883
gene1049	gene1049	SACOL1064	gi 57650036 ref NC_002951.2 :1072279-1072750	MR150	M36C05	OK	515.641	571.097	0.14737	-0.170895	0.86431	0.999883
gene105	gene105	SACOL0109	gi 57650036 ref NC_002951.2 :125073-125481	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1050	gene1050	SACOL1065	gi 57650036 ref NC_002951.2 :1072797-1074015	MR150	M36C05	OK	139.758	245.08	0.810321	-0.915285	0.36004	0.999883
gene1051	gene1051	SACOL1066	gi 57650036 ref NC_002951.2 :1074465-1075659	MR150	M36C05	OK	30.9681	8.09686	-1.93535	2.75462	0.00588	0.119116

gene1052	gene1052	qoxD	gi 57650036 ref NC_002951.2 :1076195-1076474	MR150	M36C05	OK	1757.72	1488.64	-0.239709	0.278097	0.78094	0.999883
gene1053	gene1053	qoxC	gi 57650036 ref NC_002951.2 :1076482-1080166	MR150	M36C05	OK	434.301	553.298	0.34936	-0.136084	0.89176	0.999883
gene1054	gene1054	qoxA	gi 57650036 ref NC_002951.2 :1076482-1080166	MR150	M36C05	OK	370.129	555.537	0.585853	-0.461012	0.64479	0.999883
gene1055	gene1055	qoxB	gi 57650036 ref NC_002951.2 :1076482-1080166	MR150	M36C05	OK	354.04	505.655	0.51424	-0.277449	0.78144	0.999883
gene1056	gene1056	SACOL1071	gi 57650036 ref NC_002951.2 :1080737-1081055	MR150	M36C05	OK	146.726	220.8	0.589611	-0.836776	0.40272	0.999883
gene1057	gene1057	folD	gi 57650036 ref NC_002951.2 :1081860-1082721	MR150	M36C05	OK	171.416	327.558	0.934246	-1.07637	0.28176	0.965951
gene1058	gene1058	purE	gi 57650036 ref NC_002951.2 :1082921-1084515	MR150	M36C05	OK	64.3048	85.4401	0.409986	-0.21041	0.83335	0.999883
gene1059	gene1059	purK	gi 57650036 ref NC_002951.2 :1082921-1084515	MR150	M36C05	OK	87.2493	115.025	0.398737	-0.428252	0.66847	0.999883
gene106	gene106	SACOL0110	gi 57650036 ref NC_002951.2 :125530-126157	MR150	M36C05	OK	3.22627	2.84344	-0.182232	0.226666	0.82068	0.999883
gene1060	gene1060	purC	gi 57650036 ref NC_002951.2 :1084518-1085486	MR150	M36C05	OK	65.1767	62.4912	-0.0607038	0.067555	0.94614	0.999883
gene1061	gene1061	purS	gi 57650036 ref NC_002951.2 :1084518-1085486	MR150	M36C05	OK	142.889	199.494	0.48145	-0.342234	0.73218	0.999883
gene1062	gene1062	purQ	gi 57650036 ref NC_002951.2 :1085487-1090825	MR150	M36C05	OK	119.027	133.737	0.1681	-0.059119	0.95286	0.999883
gene1063	gene1063	purL	gi 57650036 ref NC_002951.2 :1085487-1090825	MR150	M36C05	OK	125.08	100.511	-0.315492	0.216459	0.82863	0.999883
gene1064	gene1064	purF	gi 57650036 ref NC_002951.2 :1085487-1090825	MR150	M36C05	OK	112.754	89.0408	-0.340635	0.177531	0.85909	0.999883
gene1065	gene1065	purM	gi 57650036 ref NC_002951.2 :1085487-1090825	MR150	M36C05	OK	139.65	95.6377	-0.54616	0.245208	0.8063	0.999883
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	MR150	M36C05	OK	100.915	58.9639	-0.775241	1.07671	0.28161	0.965951
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	MR150	M36C05	OK	83.5847	48.2629	-0.792323	0.984034	0.3251	0.999883
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	MR150	M36C05	OK	123.484	62.4864	-0.982704	1.20207	0.22934	0.898537
gene1069	gene1069	SACOL1084	gi 57650036 ref NC_002951.2 :1094420-1096620	MR150	M36C05	OK	9.33282	4.72503	-0.981991	0.707372	0.47934	0.999883
gene107	gene107	SACOL0111	gi 57650036 ref NC_002951.2 :126368-127145	MR150	M36C05	OK	702.367	712.009	0.0196711	-0.020645	0.98353	0.999883
gene1070	gene1070	SACOL1085	gi 57650036 ref NC_002951.2 :1094420-1096620	MR150	M36C05	OK	9.30923	9.91279	0.0906305	-0.112185	0.91068	0.999883
gene1071	gene1071	SACOL1086	gi 57650036 ref NC_002951.2 :1096634-1097210	MR150	M36C05	OK	7.3267	6.16611	-0.248803	0.341406	0.7328	0.999883
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	MR150	M36C05	OK	0	343.556	1.79769e+30	1.79769e+30	0.00944	0.161634
gene1073	gene1073	SACOL1088	gi 57650036 ref NC_002951.2 :1098142-1099438	MR150	M36C05	OK	183.893	273.19	0.571034	-0.627904	0.53007	0.999883
gene1074	gene1074	SACOL1089	gi 57650036 ref NC_002951.2 :1099862-1101035	MR150	M36C05	OK	19.5169	15.2971	-0.351465	0.508533	0.61108	0.999883
gene1075	gene1075	SACOL1090	gi 57650036 ref NC_002951.2 :1101088-1101631	MR150	M36C05	OK	37.4748	246.264	2.71621	-3.6304	0.00028	0.0128802
gene1076	gene1076	ptsH	gi 57650036 ref NC_002951.2 :1101784-1102051	MR150	M36C05	OK	351.212	658.333	0.906476	-1.22081	0.22216	0.89416
gene1077	gene1077	ptsI	gi 57650036 ref NC_002951.2 :1102053-1103772	MR150	M36C05	OK	411.804	470.691	0.192825	-0.197584	0.84337	0.999883
gene1078	gene1078	SACOL1093	gi 57650036 ref NC_002951.2 :1104008-1104242	MR150	M36C05	OK	30.7429	12.001	-1.3571	1.59097	0.11162	0.663742
gene1079	gene1079	cydA	gi 57650036 ref NC_002951.2 :1104439-1106817	MR150	M36C05	OK	2.89965	8.91759	1.62077	-1.78307	0.07457	0.53808
gene108	gene108	SACOL0112	gi 57650036 ref NC_002951.2 :127288-127411	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1080	gene1080	cydB	gi 57650036 ref NC_002951.2 :1104439-1106817	MR150	M36C05	OK	3.73496	7.53068	1.01169	-0.952179	0.34101	0.999883
gene1081	gene1081	SACOL1096	gi 57650036 ref NC_002951.2 :1106949-1107612	MR150	M36C05	OK	21.8212	52.2005	1.25833	-1.81292	0.06984	0.522414

gene1082	gene1082	SACOL1097	gi 57650036 ref NC_002951.2 :1107647-1107827	MR150	M36C05	OK	90.3482	139.732	0.629091	-0.84214	0.39971	0.999883
gene1083	gene1083	SACOL1098	gi 57650036 ref NC_002951.2 :1107960-1109876	MR150	M36C05	OK	200.301	162.826	-0.298841	0.318228	0.75031	0.999883
gene1084	gene1084	SACOL1099	gi 57650036 ref NC_002951.2 :1107960-1109876	MR150	M36C05	OK	97.9759	185.1	0.917809	-0.139274	0.88923	0.999883
gene1085	gene1085	def	gi 57650036 ref NC_002951.2 :1110356-1110908	MR150	M36C05	OK	38.6923	26.976	-0.52037	0.762337	0.44586	0.999883
gene1086	gene1086	SACOL1101	gi 57650036 ref NC_002951.2 :1111272-1111899	MR150	M36C05	OK	115.429	105.207	-0.13377	0.176771	0.85969	0.999883
gene1087	gene1087	pdhA	gi 57650036 ref NC_002951.2 :1112069-1113182	MR150	M36C05	OK	259.819	291.769	0.16732	-0.183586	0.85434	0.999883
gene1088	gene1088	pdhB	gi 57650036 ref NC_002951.2 :1113185-1114163	MR150	M36C05	OK	242.488	248.052	0.0327289	-0.036916	0.97055	0.999883
gene1089	gene1089	pdhC	gi 57650036 ref NC_002951.2 :1114253-1115546	MR150	M36C05	OK	294.953	266.678	-0.145384	0.156485	0.87565	0.999883
gene109	gene109	SACOL0113	gi 57650036 ref NC_002951.2 :127489-129116	MR150	M36C05	NOTEST	0.59506	0.57139	-0.0585685	0.048514	0.96131	1
gene1090	gene1090	pdhD	gi 57650036 ref NC_002951.2 :1115549-1116956	MR150	M36C05	OK	527.735	532.08	0.0118292	-0.012133	0.99032	0.999883
gene1091	gene1091	SACOL1106	gi 57650036 ref NC_002951.2 :1117123-1117399	MR150	M36C05	OK	59.1421	40.0039	-0.564045	0.809347	0.41832	0.999883
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	MR150	M36C05	OK	9.00114	1.62379	-2.47075	2.89333	0.00381	0.0910432
gene1093	gene1093	SACOL1108	gi 57650036 ref NC_002951.2 :1118094-1119979	MR150	M36C05	OK	5.81759	1.97115	-1.56139	1.75333	0.07955	0.560699
gene1094	gene1094	SACOL1109	gi 57650036 ref NC_002951.2 :1118094-1119979	MR150	M36C05	OK	3.58445	2.39812	-0.579848	0.495715	0.6201	0.999883
gene1095	gene1095	SACOL1110	gi 57650036 ref NC_002951.2 :1119984-1121867	MR150	M36C05	OK	8.28296	2.35088	-1.81695	0.582628	0.56014	0.999883
gene1096	gene1096	SACOL1111	gi 57650036 ref NC_002951.2 :1119984-1121867	MR150	M36C05	OK	13.842	49.833	1.84805	-2.32458	0.02009	0.261084
gene1097	gene1097	SACOL1112	gi 57650036 ref NC_002951.2 :1121940-1122960	MR150	M36C05	OK	271.345	484.787	0.837223	-0.903998	0.366	0.999883
gene1098	gene1098	SACOL1113	gi 57650036 ref NC_002951.2 :1123242-1123662	MR150	M36C05	OK	177.451	237.302	0.419298	-0.556224	0.57806	0.999883
gene1099	gene1099	SACOL1114	gi 57650036 ref NC_002951.2 :1123743-1125096	MR150	M36C05	OK	386.67	1171.88	1.59965	-1.65661	0.0976	0.629513
gene11	gene11	SACOL0012	gi 57650036 ref NC_002951.2 :16111-17101	MR150	M36C05	OK	2.51987	6.28149	1.31775	-1.8284	0.06749	0.520149
gene110	gene110	SACOL0114	gi 57650036 ref NC_002951.2 :127489-129116	MR150	M36C05	OK	0	1.34297	1.79769e+30	1.79769e+30	0.02857	0.321026
gene1100	gene1100	SACOL1115	gi 57650036 ref NC_002951.2 :1125279-1125894	MR150	M36C05	OK	197.324	339.661	0.783527	-0.94192	0.34623	0.999883
gene1101	gene1101	SACOL1116	gi 57650036 ref NC_002951.2 :1126050-1126878	MR150	M36C05	OK	146.773	247.31	0.752737	-0.893729	0.37147	0.999883
gene1102	gene1102	SACOL1117	gi 57650036 ref NC_002951.2 :1127031-1127223	MR150	M36C05	OK	372.293	308.176	-0.272683	0.400865	0.68852	0.999883
gene1103	gene1103	typA	gi 57650036 ref NC_002951.2 :1127324-1129172	MR150	M36C05	OK	93.3141	23.8749	-1.9666	2.43626	0.01484	0.211829
gene1104	gene1104	SACOL1119	gi 57650036 ref NC_002951.2 :1129311-1129479	MR150	M36C05	OK	96.0281	84.513	-0.184285	0.224689	0.82222	0.999883
gene1105	gene1105	SACOL1120	gi 57650036 ref NC_002951.2 :1129480-1129963	MR150	M36C05	OK	91.864	80.3683	-0.192874	0.272396	0.78532	0.999883
gene1106	gene1106	SACOL1121	gi 57650036 ref NC_002951.2 :1130103-1130379	MR150	M36C05	OK	1125.44	411.29	-1.45226	1.85874	0.06306	0.504373
gene1107	gene1107	SACOL1122	gi 57650036 ref NC_002951.2 :1130692-1131919	MR150	M36C05	OK	93.7974	98.1169	0.0649537	-0.078936	0.93708	0.999883
gene1108	gene1108	pyc	gi 57650036 ref NC_002951.2 :1132472-1135925	MR150	M36C05	OK	81.3258	198.42	1.28677	-1.36014	0.17379	0.821477
gene1109	gene1109	ctaA	gi 57650036 ref NC_002951.2 :1136064-1137135	MR150	M36C05	OK	59.7782	43.4219	-0.461195	0.613045	0.53985	0.999883
gene111	gene111	SACOL0115	gi 57650036 ref NC_002951.2 :129325-133131	MR150	M36C05	OK	0.79185	1.82425	1.204	-0.744015	0.45687	0.999883
gene1110	gene1110	ctaB	gi 57650036 ref NC_002951.2 :1137415-1138327	MR150	M36C05	OK	164.306	77.9143	-1.07643	1.33634	0.18144	0.828964

gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	MR150	M36C05	OK	204.772	66.5594	-1.62131	2.21977	0.02643	0.309053
gene1112	gene1112	SACOL1127	gi 57650036 ref NC_002951.2 :1139024-1139228	MR150	M36C05	OK	13.7972	19.6997	0.513796	-0.525651	0.59913	0.999883
gene1113	gene1113	SACOL1128	gi 57650036 ref NC_002951.2 :1139277-1140177	MR150	M36C05	OK	47.9051	91.0684	0.926771	-1.22526	0.22048	0.89416
gene1114	gene1114	SACOL1129	gi 57650036 ref NC_002951.2 :1140192-1140627	MR150	M36C05	OK	99.3989	87.2685	-0.187768	0.26746	0.78912	0.999883
gene1115	gene1115	SACOL1130	gi 57650036 ref NC_002951.2 :1140689-1141616	MR150	M36C05	OK	36.6488	50.6676	0.467298	-0.643665	0.51979	0.999883
gene1116	gene1116	SACOL1131	gi 57650036 ref NC_002951.2 :1141854-1142109	MR150	M36C05	OK	40.9563	12.3668	-1.72761	2.16794	0.03016	0.330747
gene1117	gene1117	SACOL1132	gi 57650036 ref NC_002951.2 :1142111-1142501	MR150	M36C05	OK	23.9751	5.77234	-2.05431	2.68989	0.00715	0.136826
gene1118	gene1118	SACOL1133	gi 57650036 ref NC_002951.2 :1142570-1143113	MR150	M36C05	OK	21.8603	16.0957	-0.441639	0.645947	0.51831	0.999883
gene1119	gene1119	coaD	gi 57650036 ref NC_002951.2 :1143114-1143597	MR150	M36C05	OK	61.6029	43.3052	-0.508457	0.739615	0.45953	0.999883
gene112	gene112	SACOL0116	gi 57650036 ref NC_002951.2 :129325-133131	MR150	M36C05	OK	0.737	1.48551	1.01123	-0.608749	0.54269	0.999883
gene1120	gene1120	SACOL1135	gi 57650036 ref NC_002951.2 :1143658-1144798	MR150	M36C05	OK	14.1738	8.9143	-0.669036	0.980535	0.32682	0.999883
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	MR150	M36C05	OK	247.933	64.1493	-1.95045	2.56498	0.01032	0.171267
gene1122	gene1122	rpmF	gi 57650036 ref NC_002951.2 :1145561-1145735	MR150	M36C05	OK	2356.8	950.525	-1.31004	1.83696	0.06622	0.515048
gene1123	gene1123	isdB	gi 57650036 ref NC_002951.2 :1145888-1147826	MR150	M36C05	OK	1.85074	4.24858	1.19888	-1.72229	0.08502	0.580986
gene1124	gene1124	isdA	gi 57650036 ref NC_002951.2 :1148028-1149081	MR150	M36C05	OK	8.43775	6.33416	-0.413705	0.604626	0.54543	0.999883
gene1125	gene1125	isdC	gi 57650036 ref NC_002951.2 :1149289-1151924	MR150	M36C05	OK	2.53032	1.36799	-0.887266	0.644797	0.51906	0.999883
gene1126	gene1126	isdD	gi 57650036 ref NC_002951.2 :1149289-1151924	MR150	M36C05	NOTEST	0.17462	0.88009	2.33347	-0.919235	0.35797	1
gene1127	gene1127	SACOL1143	gi 57650036 ref NC_002951.2 :1149289-1151924	MR150	M36C05	OK	2.02956	2.76143	0.444249	-0.449581	0.65301	0.999883
gene1128	gene1128	SACOL1144	gi 57650036 ref NC_002951.2 :1151936-1152902	MR150	M36C05	OK	2.39888	1.58364	-0.599119	0.76173	0.44622	0.999883
gene1129	gene1129	srtB	gi 57650036 ref NC_002951.2 :1152963-1153698	MR150	M36C05	OK	1.4308	0.82491	-0.794509	0.820274	0.41206	0.999883
gene113	gene113	SACOL0117	gi 57650036 ref NC_002951.2 :129325-133131	MR150	M36C05	OK	2.986	3.31323	0.150022	-0.172422	0.86311	0.999883
gene1130	gene1130	SACOL1146	gi 57650036 ref NC_002951.2 :1153716-1154040	MR150	M36C05	OK	5.90877	10.2428	0.793678	-0.933499	0.35056	0.999883
gene1131	gene1131	SACOL1147	gi 57650036 ref NC_002951.2 :1154423-1155164	MR150	M36C05	OK	28.5819	24.6765	-0.211966	0.3088	0.75747	0.999883
gene1132	gene1132	pheS	gi 57650036 ref NC_002951.2 :1155544-1159005	MR150	M36C05	OK	19.6101	8.72881	-1.16774	0.748753	0.45401	0.999883
gene1133	gene1133	pheT	gi 57650036 ref NC_002951.2 :1155544-1159005	MR150	M36C05	OK	19.9555	13.3558	-0.57932	0.664704	0.50624	0.999883
gene1134	gene1134	rnhC	gi 57650036 ref NC_002951.2 :1159175-1160114	MR150	M36C05	OK	6.2162	3.88006	-0.679954	0.963306	0.33539	0.999883
gene1135	gene1135	SACOL1151	gi 57650036 ref NC_002951.2 :1160483-1160750	MR150	M36C05	OK	91.1252	51.7943	-0.815057	1.18319	0.23673	0.90647
gene1136	gene1136	SACOL1152	gi 57650036 ref NC_002951.2 :1160750-1161272	MR150	M36C05	OK	124.015	34.9783	-1.82598	2.55852	0.01051	0.172504
gene1137	gene1137	SACOL1153	gi 57650036 ref NC_002951.2 :1161344-1163057	MR150	M36C05	OK	31.8885	29.5759	-0.108611	0.143697	0.88574	0.999883
gene1138	gene1138	SACOL1154	gi 57650036 ref NC_002951.2 :1163066-1165415	MR150	M36C05	OK	36.9222	30.9727	-0.253492	0.319497	0.74935	0.999883
gene1139	gene1139	trxA	gi 57650036 ref NC_002951.2 :1165587-1165902	MR150	M36C05	OK	1223.6	1303.66	0.0914356	-0.105554	0.91594	0.999883
gene114	gene114	sodA1	gi 57650036 ref NC_002951.2 :133398-133998	MR150	M36C05	OK	248.338	62.9228	-1.98065	2.57567	0.01	0.167602
gene1140	gene1140	SACOL1156	gi 57650036 ref NC_002951.2 :1165964-1166060	MR150	M36C05	NOTEST	0	0	0	0	1	1

gene1141	gene1141	uvrC	gi 57650036 ref NC_002951.2 :1166225-1168007	MR150	M36C05	OK	13.8451	30.445	1.13683	-1.55582	0.11975	0.687616
gene1142	gene1142	sdhC	gi 57650036 ref NC_002951.2 :1168330-1168945	MR150	M36C05	OK	404.975	201.881	-1.00433	1.19347	0.23269	0.902162
gene1143	gene1143	sdhA	gi 57650036 ref NC_002951.2 :1168996-1171578	MR150	M36C05	OK	711.391	458.375	-0.634114	0.452116	0.65119	0.999883
gene1144	gene1144	sdhB	gi 57650036 ref NC_002951.2 :1168996-1171578	MR150	M36C05	OK	2041.88	1374.56	-0.570926	0.437212	0.66196	0.999883
gene1145	gene1145	murI	gi 57650036 ref NC_002951.2 :1171813-1172614	MR150	M36C05	OK	122.282	174.738	0.51498	-0.634269	0.52591	0.999883
gene1146	gene1146	SACOL1162	gi 57650036 ref NC_002951.2 :1172625-1173709	MR150	M36C05	OK	155.026	196.04	0.338641	-0.258422	0.79608	0.999883
gene1147	gene1147	SACOL1163	gi 57650036 ref NC_002951.2 :1172625-1173709	MR150	M36C05	OK	265.689	307.292	0.20987	-0.181436	0.85603	0.999883
gene1148	gene1148	SACOL1164	gi 57650036 ref NC_002951.2 :1174197-1174527	MR150	M36C05	OK	677.105	364.596	-0.89308	1.13315	0.25715	0.935184
gene1149	gene1149	SACOL1165	gi 57650036 ref NC_002951.2 :1174697-1174805	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene115	gene115	SACOL0119	gi 57650036 ref NC_002951.2 :134365-135091	MR150	M36C05	OK	22.4111	17.4103	-0.364271	0.53478	0.5928	0.999883
gene1150	gene1150	SACOL1166	gi 57650036 ref NC_002951.2 :1174895-1175297	MR150	M36C05	OK	18.8325	13.0585	-0.528244	0.740931	0.45874	0.999883
gene1151	gene1151	SACOL1167	gi 57650036 ref NC_002951.2 :1175968-1176475	MR150	M36C05	OK	15.9455	7.91298	-1.01086	1.42095	0.15533	0.769852
gene1152	gene1152	efb	gi 57650036 ref NC_002951.2 :1176733-1177231	MR150	M36C05	OK	180.68	57.8039	-1.64419	2.25138	0.02436	0.296308
gene1153	gene1153	SACOL1169	gi 57650036 ref NC_002951.2 :1177384-1177735	MR150	M36C05	OK	336.183	69.4914	-2.27434	3.14222	0.00168	0.0507715
gene1154	gene1154	SACOL1170	gi 57650036 ref NC_002951.2 :1178160-1178406	MR150	M36C05	OK	0	10.2897	1.79769e+30	1.79769e+30	0.0141	0.204943
gene1155	gene1155	SACOL1171	gi 57650036 ref NC_002951.2 :1178556-1178742	MR150	M36C05	OK	41.8899	24.8235	-0.754897	0.821274	0.41149	0.999883
gene1156	gene1156	SACOL1172	gi 57650036 ref NC_002951.2 :1179363-1179597	MR150	M36C05	OK	86.6392	30.0025	-1.52994	2.08922	0.03669	0.368762
gene1157	gene1157	hly	gi 57650036 ref NC_002951.2 :1180073-1181033	MR150	M36C05	OK	2.41781	1.16084	-1.05853	1.29767	0.1944	0.856906
gene1158	gene1158	SACOL1174	gi 57650036 ref NC_002951.2 :1181705-1182033	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1159	gene1159	SACOL1175	gi 57650036 ref NC_002951.2 :1181705-1182033	MR150	M36C05	OK	67.9226	37.2726	-0.865779	1.08926	0.27604	0.961224
gene116	gene116	SACOL0120	gi 57650036 ref NC_002951.2 :135282-136038	MR150	M36C05	OK	19.8259	10.9135	-0.861272	1.26138	0.20717	0.881947
gene1160	gene1160	SACOL1176	gi 57650036 ref NC_002951.2 :1182064-1182421	MR150	M36C05	OK	48.489	41.3741	-0.22893	0.272891	0.78494	0.999883
gene1161	gene1161	SACOL1177	gi 57650036 ref NC_002951.2 :1182064-1182421	MR150	M36C05	OK	168.007	1061.04	2.65888	-1.43391	0.1516	0.757479
gene1162	gene1162	SACOL1178	gi 57650036 ref NC_002951.2 :1182589-1183306	MR150	M36C05	OK	2.07281	3.20131	0.627071	-0.781233	0.43467	0.999883
gene1163	gene1163	SACOL1179	gi 57650036 ref NC_002951.2 :1183413-1184139	MR150	M36C05	OK	1.45527	2.30739	0.66498	-0.776522	0.43744	0.999883
gene1164	gene1164	SACOL1180	gi 57650036 ref NC_002951.2 :1184233-1184959	MR150	M36C05	OK	0.58211	1.46834	1.33483	-1.28289	0.19953	0.867146
gene1165	gene1165	arcB1	gi 57650036 ref NC_002951.2 :1185396-1186398	MR150	M36C05	OK	1.14563	4.67492	2.02881	-2.58267	0.0098	0.16462
gene1166	gene1166	arcC1	gi 57650036 ref NC_002951.2 :1186420-1187353	MR150	M36C05	OK	3.13353	5.56688	0.82908	-1.15558	0.24785	0.922459
gene1167	gene1167	SACOL1183	gi 57650036 ref NC_002951.2 :1187524-1189081	MR150	M36C05	OK	2.14449	11.453	2.41702	-3.43746	0.00059	0.0229705
gene1168	gene1168	SACOL1184	gi 57650036 ref NC_002951.2 :1189920-1190868	MR150	M36C05	OK	18.0149	16.2179	-0.151604	0.22172	0.82453	0.999883
gene1169	gene1169	SACOL1185	gi 57650036 ref NC_002951.2 :1191116-1191305	MR150	M36C05	OK	25.8623	18.4185	-0.489692	0.493536	0.62163	0.999883
gene117	gene117	deoD1	gi 57650036 ref NC_002951.2 :136273-136981	MR150	M36C05	OK	4.21902	1.52046	-1.4724	1.78911	0.0736	0.532623
gene1170	gene1170	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1191779-1191853	MR150	M36C05	NOTEST	0	0	0	0	1	1

gene1171	gene1171	SACOL1186	gi 57650036 ref NC_002951.2 :1192216-1192351	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1172	gene1172	SACOL1187	gi 57650036 ref NC_002951.2 :1192407-1192542	MR150	M36C05	OK	0	85.8891	1.79769e+30	1.79769e+30	0.06916	0.522414
gene1173	gene1173	SACOL1188	gi 57650036 ref NC_002951.2 :1192665-1193361	MR150	M36C05	OK	37.9632	72.081	0.925017	-1.29297	0.19602	0.858721
gene1174	gene1174	SACOL1189	gi 57650036 ref NC_002951.2 :1193469-1193910	MR150	M36C05	OK	791.498	1560.11	0.978991	-1.06733	0.28582	0.973566
gene1175	gene1175	SACOL1190	gi 57650036 ref NC_002951.2 :1194104-1195718	MR150	M36C05	OK	44.5191	50.356	0.177739	-0.226199	0.82105	0.999883
gene1176	gene1176	mraZ	gi 57650036 ref NC_002951.2 :1195861-1196293	MR150	M36C05	OK	247.385	142.551	-0.795285	1.05843	0.28986	0.975616
gene1177	gene1177	mraW	gi 57650036 ref NC_002951.2 :1196308-1197244	MR150	M36C05	OK	107.77	53.4937	-1.01052	1.30743	0.19107	0.851696
gene1178	gene1178	SACOL1193	gi 57650036 ref NC_002951.2 :1197272-1199874	MR150	M36C05	OK	140.382	61.5419	-1.18972	0.712008	0.47646	0.999883
gene1179	gene1179	pbp1	gi 57650036 ref NC_002951.2 :1197272-1199874	MR150	M36C05	OK	56.4529	11.6971	-2.2709	2.45618	0.01404	0.204943
gene118	gene118	SACOL0122	gi 57650036 ref NC_002951.2 :136987-138340	MR150	M36C05	OK	6.77437	4.39802	-0.623234	0.910064	0.36279	0.999883
gene1180	gene1180	mraY	gi 57650036 ref NC_002951.2 :1200165-1201131	MR150	M36C05	OK	35.9832	5.75868	-2.64351	3.74746	0.00018	0.0092341
gene1181	gene1181	murD	gi 57650036 ref NC_002951.2 :1201132-1202482	MR150	M36C05	OK	49.6751	9.29829	-2.41749	3.3213	0.0009	0.0319428
gene1182	gene1182	divIB	gi 57650036 ref NC_002951.2 :1202497-1203817	MR150	M36C05	OK	56.8852	31.9892	-0.830469	1.09436	0.2738	0.958793
gene1183	gene1183	ftsA	gi 57650036 ref NC_002951.2 :1203922-1205335	MR150	M36C05	OK	247.853	268.267	0.114185	-0.122667	0.90237	0.999883
gene1184	gene1184	ftsZ	gi 57650036 ref NC_002951.2 :1205367-1206540	MR150	M36C05	OK	499.255	669.446	0.423193	-0.436436	0.66252	0.999883
gene1185	gene1185	SACOL1200	gi 57650036 ref NC_002951.2 :1206799-1207591	MR150	M36C05	OK	21.7245	40.4365	0.896332	-1.28888	0.19744	0.861278
gene1186	gene1186	SACOL1201	gi 57650036 ref NC_002951.2 :1207608-1208843	MR150	M36C05	OK	258.79	285.993	0.1442	-0.128952	0.8974	0.999883
gene1187	gene1187	ylmF	gi 57650036 ref NC_002951.2 :1207608-1208843	MR150	M36C05	OK	192.14	213.84	0.154378	-0.104313	0.91692	0.999883
gene1188	gene1188	ylmG	gi 57650036 ref NC_002951.2 :1208854-1209145	MR150	M36C05	OK	353.206	254.262	-0.47419	0.655644	0.51205	0.999883
gene1189	gene1189	ylmH	gi 57650036 ref NC_002951.2 :1209254-1210034	MR150	M36C05	OK	97.934	61.436	-0.672725	0.892694	0.37202	0.999883
gene119	gene119	deoC1	gi 57650036 ref NC_002951.2 :138420-139083	MR150	M36C05	OK	31.4093	37.6606	0.261864	-0.379914	0.70401	0.999883
gene1190	gene1190	SACOL1205	gi 57650036 ref NC_002951.2 :1210057-1210675	MR150	M36C05	OK	283.061	213.369	-0.407764	0.492968	0.62204	0.999883
gene1191	gene1191	ileS	gi 57650036 ref NC_002951.2 :1210895-1213649	MR150	M36C05	OK	77.4304	14.0221	-2.4652	3.01934	0.00253	0.0691808
gene1192	gene1192	SACOL1207	gi 57650036 ref NC_002951.2 :1213938-1214736	MR150	M36C05	OK	25.3472	26.5638	0.0676358	-0.098258	0.92173	0.999883
gene1193	gene1193	lspA	gi 57650036 ref NC_002951.2 :1215559-1216968	MR150	M36C05	OK	28.2852	7.94098	-1.83266	1.16099	0.24565	0.919205
gene1194	gene1194	SACOL1209	gi 57650036 ref NC_002951.2 :1215559-1216968	MR150	M36C05	OK	42.866	13.2099	-1.69822	2.12351	0.03371	0.351535
gene1195	gene1195	pyrR	gi 57650036 ref NC_002951.2 :1217367-1217895	MR150	M36C05	OK	112.423	32.6549	-1.78356	2.51148	0.01202	0.187518
gene1196	gene1196	uraA	gi 57650036 ref NC_002951.2 :1218112-1219420	MR150	M36C05	OK	72.0145	9.05405	-2.99165	4.02214	5.77E-05	0.0035981
gene1197	gene1197	pyrB	gi 57650036 ref NC_002951.2 :1219447-1220329	MR150	M36C05	OK	118.993	10.1885	-3.54587	4.75778	1.96E-06	0.0001995
gene1198	gene1198	pyrC	gi 57650036 ref NC_002951.2 :1220346-1221621	MR150	M36C05	OK	130.498	15.8955	-3.03734	3.89885	9.67E-05	0.0055513
gene1199	gene1199	carA	gi 57650036 ref NC_002951.2 :1221622-1225889	MR150	M36C05	OK	102.49	8.4439	-3.60143	2.02169	0.04321	0.407214
gene12	gene12	SACOL0013	gi 57650036 ref NC_002951.2 :17406-18330	MR150	M36C05	OK	78.8885	66.1106	-0.254933	0.333261	0.73894	0.999883
gene120	gene120	deoB	gi 57650036 ref NC_002951.2 :139110-140289	MR150	M36C05	OK	64.4492	76.692	0.250915	-0.318272	0.75028	0.999883

gene1200	gene1200	carB	gi 57650036 ref NC_002951.2 :1221622-1225889	MR150	M36C05	OK	107.343	8.48446	-3.66125	3.79198	0.00015	0.0081058
gene1201	gene1201	pyrF	gi 57650036 ref NC_002951.2 :1225998-1227302	MR150	M36C05	OK	92.8457	9.62462	-3.27003	3.58776	0.00033	0.0147179
gene1202	gene1202	pyrE	gi 57650036 ref NC_002951.2 :1225998-1227302	MR150	M36C05	OK	71.3305	3.75093	-4.2492	3.19319	0.00141	0.0444683
gene1203	gene1203	SACOL1218	gi 57650036 ref NC_002951.2 :1227331-1227544	MR150	M36C05	OK	372.137	160.662	-1.2118	1.76903	0.07689	0.551487
gene1204	gene1204	SACOL1219	gi 57650036 ref NC_002951.2 :1227980-1228382	MR150	M36C05	OK	143.127	126.232	-0.181225	0.25325	0.80008	0.999883
gene1205	gene1205	SACOL1220	gi 57650036 ref NC_002951.2 :1228644-1230342	MR150	M36C05	OK	38.4447	45.2498	0.235126	-0.30156	0.76299	0.999883
gene1206	gene1206	gmk	gi 57650036 ref NC_002951.2 :1230616-1231458	MR150	M36C05	OK	222.381	202.013	-0.138583	0.155518	0.87641	0.999883
gene1207	gene1207	rpoZ	gi 57650036 ref NC_002951.2 :1230616-1231458	MR150	M36C05	OK	468.885	185.1	-1.34093	0.556408	0.57793	0.999883
gene1208	gene1208	coaBC	gi 57650036 ref NC_002951.2 :1231667-1235281	MR150	M36C05	OK	34.2525	43.5079	0.34507	-0.206864	0.83612	0.999883
gene1209	gene1209	priA	gi 57650036 ref NC_002951.2 :1231667-1235281	MR150	M36C05	OK	49.6493	46.0946	-0.107178	0.106286	0.91536	0.999883
gene121	gene121	SACOL0125	gi 57650036 ref NC_002951.2 :140419-142032	MR150	M36C05	OK	1.73989	2.68609	0.626516	-0.611309	0.541	0.999883
gene1210	gene1210	SACOL1225	gi 57650036 ref NC_002951.2 :1235786-1236740	MR150	M36C05	OK	26.1982	30.1298	0.201723	-0.288067	0.7733	0.999883
gene1211	gene1211	SACOL1226	gi 57650036 ref NC_002951.2 :1236902-1237181	MR150	M36C05	OK	1740.8	3536.74	1.02267	-1.13438	0.25664	0.934247
gene1212	gene1212	def2	gi 57650036 ref NC_002951.2 :1237404-1240125	MR150	M36C05	OK	58.2134	23.3056	-1.32067	0.58284	0.56	0.999883
gene1213	gene1213	fmt	gi 57650036 ref NC_002951.2 :1237404-1240125	MR150	M36C05	OK	54.0932	32.0662	-0.754394	0.557589	0.57713	0.999883
gene1214	gene1214	sun	gi 57650036 ref NC_002951.2 :1237404-1240125	MR150	M36C05	OK	61.6478	23.2818	-1.40484	1.2316	0.2181	0.89416
gene1215	gene1215	SACOL1230	gi 57650036 ref NC_002951.2 :1240127-1241222	MR150	M36C05	OK	54.5826	23.2842	-1.22909	1.68368	0.09224	0.611738
gene1216	gene1216	SACOL1231	gi 57650036 ref NC_002951.2 :1241228-1243963	MR150	M36C05	OK	50.3759	15.6165	-1.68967	0.823961	0.40996	0.999883
gene1217	gene1217	SACOL1232	gi 57650036 ref NC_002951.2 :1241228-1243963	MR150	M36C05	OK	84.3085	22.7169	-1.89191	2.10597	0.03521	0.358866
gene1218	gene1218	SACOL1234	gi 57650036 ref NC_002951.2 :1244190-1245066	MR150	M36C05	OK	44.1688	35.2423	-0.32572	0.45599	0.6484	0.999883
gene1219	gene1219	rpe	gi 57650036 ref NC_002951.2 :1245066-1245711	MR150	M36C05	OK	45.7502	38.1948	-0.260401	0.374891	0.70774	0.999883
gene122	gene122	SACOL0126	gi 57650036 ref NC_002951.2 :140419-142032	MR150	M36C05	OK	2.03804	2.20259	0.112015	-0.106663	0.91506	0.999883
gene1220	gene1220	SACOL1236	gi 57650036 ref NC_002951.2 :1245717-1246359	MR150	M36C05	OK	54.3721	26.4687	-1.03858	1.4948	0.13497	0.729547
gene1221	gene1221	rpmB	gi 57650036 ref NC_002951.2 :1246739-1246928	MR150	M36C05	OK	19707	9425.67	-1.06404	1.14155	0.25364	0.931299
gene1222	gene1222	SACOL1239	gi 57650036 ref NC_002951.2 :1247370-1247745	MR150	M36C05	OK	102.856	76.7937	-0.421564	0.61166	0.54076	0.999883
gene1223	gene1223	SACOL1240	gi 57650036 ref NC_002951.2 :1247759-1249406	MR150	M36C05	OK	118.34	37.705	-1.65011	2.00218	0.04527	0.41665
gene1224	gene1224	recG	gi 57650036 ref NC_002951.2 :1249595-1251656	MR150	M36C05	OK	35.7212	68.9897	0.949603	-1.16122	0.24555	0.919205
gene1225	gene1225	SACOL1242	gi 57650036 ref NC_002951.2 :1251858-1252431	MR150	M36C05	OK	79.5997	34.0388	-1.22558	1.74381	0.08119	0.567724
gene1226	gene1226	plsX	gi 57650036 ref NC_002951.2 :1252435-1255068	MR150	M36C05	OK	59.54	37.2723	-0.675755	0.460855	0.6449	0.999883
gene1227	gene1227	fabD	gi 57650036 ref NC_002951.2 :1252435-1255068	MR150	M36C05	OK	67.1894	30.6433	-1.13266	0.731652	0.46438	0.999883
gene1228	gene1228	fabG1	gi 57650036 ref NC_002951.2 :1252435-1255068	MR150	M36C05	OK	105.307	60.8374	-0.791572	0.581443	0.56094	0.999883
gene1229	gene1229	SACOL1246	gi 57650036 ref NC_002951.2 :1255190-1255289	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene123	gene123	SACOL0127	gi 57650036 ref NC_002951.2 :142033-142807	MR150	M36C05	OK	1.60038	1.34537	-0.250415	0.285017	0.77563	0.999883

gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	MR150	M36C05	OK	1173.82	298.025	-1.97771	2.6816	0.00733	0.137988
gene1231	gene1231	rnc	gi 57650036 ref NC_002951.2 :1255659-1256391	MR150	M36C05	OK	16.1153	19.9098	0.305046	-0.448295	0.65394	0.999883
gene1232	gene1232	SACOL1250	gi 57650036 ref NC_002951.2 :1256537-1261673	MR150	M36C05	OK	19.791	11.4863	-0.784933	0.837963	0.40205	0.999883
gene1233	gene1233	SACOL1251	gi 57650036 ref NC_002951.2 :1256537-1261673	MR150	M36C05	OK	27.3949	10.4896	-1.38495	0.87799	0.37995	0.999883
gene1234	gene1234	SACOL1252	gi 57650036 ref NC_002951.2 :1256537-1261673	MR150	M36C05	OK	15.563	8.83373	-0.817029	0.155532	0.8764	0.999883
gene1235	gene1235	ffh	gi 57650036 ref NC_002951.2 :1261698-1263066	MR150	M36C05	OK	110.408	76.5424	-0.528509	0.635508	0.5251	0.999883
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	MR150	M36C05	OK	280.055	57.5055	-2.28394	3.26711	0.00109	0.0364367
gene1237	gene1237	rimM	gi 57650036 ref NC_002951.2 :1263963-1265204	MR150	M36C05	OK	6.03839	3.26906	-0.885287	0.688937	0.49086	0.999883
gene1238	gene1238	trmD	gi 57650036 ref NC_002951.2 :1263963-1265204	MR150	M36C05	OK	8.25241	4.30661	-0.938263	1.12879	0.25899	0.938582
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	MR150	M36C05	OK	802.277	148.296	-2.43562	3.13004	0.00175	0.0524863
gene124	gene124	SACOL0128	gi 57650036 ref NC_002951.2 :143020-143977	MR150	M36C05	OK	4.85477	3.49634	-0.47356	0.66325	0.50717	0.999883
gene1240	gene1240	SACOL1259	gi 57650036 ref NC_002951.2 :1265900-1268507	MR150	M36C05	OK	6.23666	6.22619	-0.0024245	0.003527	0.99719	0.999883
gene1241	gene1241	rbgA	gi 57650036 ref NC_002951.2 :1268907-1270543	MR150	M36C05	OK	16.3179	13.364	-0.288097	0.324459	0.74559	0.999883
gene1242	gene1242	rnhB	gi 57650036 ref NC_002951.2 :1268907-1270543	MR150	M36C05	OK	13.7469	9.71144	-0.501344	0.454848	0.64922	0.999883
gene1243	gene1243	sucC	gi 57650036 ref NC_002951.2 :1270651-1271818	MR150	M36C05	OK	474.795	419.805	-0.177583	0.185645	0.85272	0.999883
gene1244	gene1244	sucD	gi 57650036 ref NC_002951.2 :1271839-1272748	MR150	M36C05	OK	840.122	965.376	0.200493	-0.205679	0.83704	0.999883
gene1245	gene1245	lytN	gi 57650036 ref NC_002951.2 :1272941-1274093	MR150	M36C05	OK	2.41297	2.08465	-0.211009	0.283754	0.7766	0.999883
gene1246	gene1246	eprH	gi 57650036 ref NC_002951.2 :1274120-1275365	MR150	M36C05	OK	5.27594	1.68797	-1.64414	2.26456	0.02354	0.292706
gene1247	gene1247	SACOL1266	gi 57650036 ref NC_002951.2 :1275537-1276410	MR150	M36C05	OK	2.50267	3.44163	0.45962	-0.610831	0.54131	0.999883
gene1248	gene1248	topA	gi 57650036 ref NC_002951.2 :1276589-1278659	MR150	M36C05	OK	55.6993	43.7876	-0.347137	0.425091	0.67077	0.999883
gene1249	gene1249	gid	gi 57650036 ref NC_002951.2 :1278814-1280122	MR150	M36C05	OK	74.2261	45.7677	-0.697596	0.889806	0.37357	0.999883
gene125	gene125	SACOL0129	gi 57650036 ref NC_002951.2 :144205-145750	MR150	M36C05	OK	1.13874	2.0488	0.847336	-1.12744	0.25956	0.938894
gene1250	gene1250	xerC	gi 57650036 ref NC_002951.2 :1280538-1281977	MR150	M36C05	OK	76.6704	90.5114	0.239431	-0.252939	0.80032	0.999883
gene1251	gene1251	hslV	gi 57650036 ref NC_002951.2 :1280538-1281977	MR150	M36C05	OK	67.6671	62.2284	-0.120882	0.079205	0.93687	0.999883
gene1252	gene1252	hslU	gi 57650036 ref NC_002951.2 :1282042-1283446	MR150	M36C05	OK	102.019	67.2023	-0.602258	0.730523	0.46507	0.999883
gene1253	gene1253	codY	gi 57650036 ref NC_002951.2 :1283470-1284244	MR150	M36C05	OK	138.7	78.9924	-0.812181	1.0435	0.29672	0.9791
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	MR150	M36C05	OK	279.106	59.3596	-2.23326	2.78187	0.0054	0.113604
gene1255	gene1255	SACOL1275	gi 57650036 ref NC_002951.2 :1285395-1285509	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1256	gene1256	tsf	gi 57650036 ref NC_002951.2 :1285543-1286425	MR150	M36C05	OK	509.425	432.281	-0.236897	0.253929	0.79955	0.999883
gene1257	gene1257	pyrH	gi 57650036 ref NC_002951.2 :1286561-1287284	MR150	M36C05	OK	72.8877	37.9743	-0.940653	1.30803	0.19086	0.851584
gene1258	gene1258	frr	gi 57650036 ref NC_002951.2 :1287302-1287857	MR150	M36C05	OK	89.6641	49.4522	-0.858496	1.20971	0.22639	0.897207
gene1259	gene1259	uppS	gi 57650036 ref NC_002951.2 :1288229-1289000	MR150	M36C05	OK	34.857	19.7071	-0.822734	1.19344	0.2327	0.902162
gene126	gene126	SACOL0130	gi 57650036 ref NC_002951.2 :145800-147336	MR150	M36C05	OK	8.48345	10.6431	0.327191	-0.478439	0.63234	0.999883

gene1260	gene1260	cdsA	gi 57650036 ref NC_002951.2 :1289006-1289789	MR150	M36C05	OK	62.5025	15.1379	-2.04575	2.8847	0.00392	0.0922789
gene1261	gene1261	SACOL1281	gi 57650036 ref NC_002951.2 :1290025-1291312	MR150	M36C05	OK	28.7422	33.2654	0.21085	-0.288467	0.77299	0.999883
gene1262	gene1262	proS	gi 57650036 ref NC_002951.2 :1291331-1293035	MR150	M36C05	OK	42.2631	43.3837	0.0377538	-0.048267	0.9615	0.999883
gene1263	gene1263	polC	gi 57650036 ref NC_002951.2 :1293298-1297609	MR150	M36C05	OK	26.5688	25.6216	-0.0523765	0.062999	0.94977	0.999883
gene1264	gene1264	SACOL1284	gi 57650036 ref NC_002951.2 :1297898-1298366	MR150	M36C05	OK	54.7613	25.5367	-1.10058	1.60804	0.10783	0.653986
gene1265	gene1265	nusA	gi 57650036 ref NC_002951.2 :1298386-1299562	MR150	M36C05	OK	83.1626	40.102	-1.05226	1.35979	0.1739	0.821477
gene1266	gene1266	SACOL1286	gi 57650036 ref NC_002951.2 :1299582-1300181	MR150	M36C05	OK	49.6961	20.7581	-1.25946	0.933623	0.3505	0.999883
gene1267	gene1267	SACOL1287	gi 57650036 ref NC_002951.2 :1299582-1300181	MR150	M36C05	OK	98.6395	50.7483	-0.958805	1.20199	0.22937	0.898537
gene1268	gene1268	infB	gi 57650036 ref NC_002951.2 :1300185-1302303	MR150	M36C05	OK	138.32	77.1086	-0.843043	0.947307	0.34348	0.999883
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	MR150	M36C05	OK	104.127	30.0891	-1.79104	2.5922	0.00954	0.161634
gene127	gene127	SACOL0132	gi 57650036 ref NC_002951.2 :147862-148756	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1270	gene1270	truB	gi 57650036 ref NC_002951.2 :1303207-1304125	MR150	M36C05	OK	11.5163	39.7832	1.78849	-2.55629	0.01058	0.173222
gene1271	gene1271	ribF	gi 57650036 ref NC_002951.2 :1304139-1305111	MR150	M36C05	OK	60.4979	93.5647	0.62908	-0.812093	0.41674	0.999883
gene1272	gene1272	rpsO	gi 57650036 ref NC_002951.2 :1305225-1305495	MR150	M36C05	OK	1739.44	625.953	-1.4745	1.81136	0.07009	0.522414
gene1273	gene1273	pnp	gi 57650036 ref NC_002951.2 :1305864-1307961	MR150	M36C05	OK	100.285	117.699	0.230991	-0.258497	0.79602	0.999883
gene1274	gene1274	SACOL1294	gi 57650036 ref NC_002951.2 :1308298-1309870	MR150	M36C05	OK	190.559	171.924	-0.14847	0.163096	0.87044	0.999883
gene1275	gene1275	SACOL1295	gi 57650036 ref NC_002951.2 :1310116-1312495	MR150	M36C05	OK	25.6585	33.9345	0.403316	-0.515373	0.60629	0.999883
gene1276	gene1276	SACOL1296	gi 57650036 ref NC_002951.2 :1312499-1313213	MR150	M36C05	OK	12.5094	11.8068	-0.0834019	0.122002	0.9029	0.999883
gene1277	gene1277	SACOL1297	gi 57650036 ref NC_002951.2 :1313243-1316499	MR150	M36C05	OK	9.91307	5.79143	-0.775414	0.698054	0.48514	0.999883
gene1278	gene1278	SACOL1298	gi 57650036 ref NC_002951.2 :1313243-1316499	MR150	M36C05	OK	11.2715	5.07094	-1.15235	1.05227	0.29268	0.976946
gene1279	gene1279	SACOL1299	gi 57650036 ref NC_002951.2 :1313243-1316499	MR150	M36C05	OK	12.1259	4.15151	-1.54638	0.928721	0.35303	0.999883
gene128	gene128	SACOL0134	gi 57650036 ref NC_002951.2 :149516-150001	MR150	M36C05	OK	0.5366	3.48667	2.69992	-2.05792	0.0396	0.387684
gene1280	gene1280	SACOL1300	gi 57650036 ref NC_002951.2 :1316603-1317431	MR150	M36C05	OK	63.1465	80.7974	0.355606	-0.472187	0.63679	0.999883
gene1281	gene1281	SACOL1301	gi 57650036 ref NC_002951.2 :1317449-1317842	MR150	M36C05	OK	48.0205	65.3893	0.445403	-0.653272	0.51358	0.999883
gene1282	gene1282	pgsA	gi 57650036 ref NC_002951.2 :1317875-1318454	MR150	M36C05	OK	133.665	126.714	-0.0770469	0.101344	0.91928	0.999883
gene1283	gene1283	SACOL1303	gi 57650036 ref NC_002951.2 :1318680-1319832	MR150	M36C05	OK	47.1334	52.9268	0.16725	-0.220775	0.82527	0.999883
gene1284	gene1284	recA	gi 57650036 ref NC_002951.2 :1319996-1321040	MR150	M36C05	OK	514.564	453.742	-0.181478	0.190504	0.84891	0.999883
gene1285	gene1285	SACOL1305	gi 57650036 ref NC_002951.2 :1321393-1322953	MR150	M36C05	OK	409.482	921.673	1.17046	-1.20297	0.22899	0.898537
gene1286	gene1286	SACOL1306	gi 57650036 ref NC_002951.2 :1323249-1323465	MR150	M36C05	OK	3263.38	2553.32	-0.353993	0.419909	0.67455	0.999883
gene1287	gene1287	SACOL1307	gi 57650036 ref NC_002951.2 :1323638-1324436	MR150	M36C05	OK	95.5	32.4669	-1.55653	2.11807	0.03417	0.353769
gene1288	gene1288	SACOL1308	gi 57650036 ref NC_002951.2 :1324575-1326336	MR150	M36C05	OK	40.8184	26.689	-0.612973	0.801697	0.42273	0.999883
gene1289	gene1289	SACOL1309	gi 57650036 ref NC_002951.2 :1326336-1327203	MR150	M36C05	OK	66.1136	43.4905	-0.604248	0.820946	0.41168	0.999883
gene129	gene129	SACOL0135	gi 57650036 ref NC_002951.2 :150450-153060	MR150	M36C05	OK	0.9534	2.14902	1.17252	-1.6447	0.10003	0.638047

gene1290	gene1290	SACOL1310	gi 57650036 ref NC_002951.2 :1327296-1327590	MR150	M36C05	OK	1.48471	3.20763	1.11132	-0.786253	0.43172	0.999883
gene1291	gene1291	miaB	gi 57650036 ref NC_002951.2 :1327723-1329268	MR150	M36C05	OK	38.1479	26.7983	-0.509462	0.679386	0.49689	0.999883
gene1292	gene1292	SACOL1313	gi 57650036 ref NC_002951.2 :1329268-1329634	MR150	M36C05	OK	69.9458	44.6205	-0.64853	0.951569	0.34132	0.999883
gene1293	gene1293	SACOL1314	gi 57650036 ref NC_002951.2 :1329660-1330152	MR150	M36C05	OK	65.4749	25.7137	-1.34841	1.95954	0.05005	0.440105
gene1294	gene1294	hexA	gi 57650036 ref NC_002951.2 :1330454-1333073	MR150	M36C05	OK	15.1977	10.7962	-0.493329	0.680192	0.49638	0.999883
gene1295	gene1295	mutL	gi 57650036 ref NC_002951.2 :1333085-1335095	MR150	M36C05	OK	21.0717	7.00213	-1.58944	2.23018	0.02574	0.304771
gene1296	gene1296	glpP	gi 57650036 ref NC_002951.2 :1335100-1335643	MR150	M36C05	OK	16.5068	4.82871	-1.77335	2.43038	0.01508	0.214453
gene1297	gene1297	glpF	gi 57650036 ref NC_002951.2 :1336107-1336926	MR150	M36C05	OK	151.626	114.942	-0.399622	0.496584	0.61948	0.999883
gene1298	gene1298	glpK	gi 57650036 ref NC_002951.2 :1337054-1338551	MR150	M36C05	OK	28.4591	18.3572	-0.632544	0.875445	0.38133	0.999883
gene1299	gene1299	glpD	gi 57650036 ref NC_002951.2 :1338708-1340382	MR150	M36C05	OK	91.7534	162.637	0.825822	-0.937232	0.34864	0.999883
gene13	gene13	SACOL0014	gi 57650036 ref NC_002951.2 :18344-20755	MR150	M36C05	OK	112.713	83.2798	-0.43661	0.452465	0.65093	0.999883
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	MR150	M36C05	OK	2.61118	262.128	6.64942	-8.02718	8.88E-16	6.43E-12
gene1300	gene1300	SACOL1322	gi 57650036 ref NC_002951.2 :1340531-1341446	MR150	M36C05	OK	11.3504	10.7974	-0.0720589	0.105912	0.91565	0.999883
gene1301	gene1301	miaA	gi 57650036 ref NC_002951.2 :1341463-1342399	MR150	M36C05	OK	19.3487	13.7855	-0.48909	0.71576	0.47414	0.999883
gene1302	gene1302	SACOL1324	gi 57650036 ref NC_002951.2 :1342413-1342647	MR150	M36C05	OK	44.717	20.0017	-1.1607	1.48559	0.13739	0.733066
gene1303	gene1303	gpxA1	gi 57650036 ref NC_002951.2 :1342868-1343345	MR150	M36C05	OK	126.963	136.705	0.106659	-0.14467	0.88497	0.999883
gene1304	gene1304	SACOL1326	gi 57650036 ref NC_002951.2 :1343456-1344695	MR150	M36C05	OK	15.6244	7.21535	-1.11466	1.62664	0.10381	0.645527
gene1305	gene1305	SACOL1327	gi 57650036 ref NC_002951.2 :1344713-1345952	MR150	M36C05	OK	23.8788	5.72983	-2.05916	2.95419	0.00313	0.0801678
gene1306	gene1306	glnR	gi 57650036 ref NC_002951.2 :1346194-1346563	MR150	M36C05	OK	242.071	169.053	-0.517952	0.706116	0.48012	0.999883
gene1307	gene1307	femC	gi 57650036 ref NC_002951.2 :1346581-1347922	MR150	M36C05	OK	207.515	226.176	0.12423	-0.136532	0.8914	0.999883
gene1308	gene1308	SACOL1331	gi 57650036 ref NC_002951.2 :1348414-1348612	MR150	M36C05	OK	5.22482	3.72726	-0.487267	0.269967	0.78719	0.999883
gene1309	gene1309	SACOL1332	gi 57650036 ref NC_002951.2 :1349300-1349525	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	MR150	M36C05	OK	0.94303	124.852	7.04869	-7.76014	8.44E-15	2.09E-11
gene1310	gene1310	SACOL1333	gi 57650036 ref NC_002951.2 :1349818-1350025	MR150	M36C05	OK	4.33328	3.09463	-0.485691	0.269094	0.78786	0.999883
gene1311	gene1311	SACOL1334	gi 57650036 ref NC_002951.2 :1350725-1350836	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1312	gene1312	SACOL1335	gi 57650036 ref NC_002951.2 :1351263-1351449	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1313	gene1313	SACOL1336	gi 57650036 ref NC_002951.2 :1351960-1352065	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1314	gene1314	SACOL1337	gi 57650036 ref NC_002951.2 :1352097-1352193	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1315	gene1315	SACOL1338	gi 57650036 ref NC_002951.2 :1352193-1352445	MR150	M36C05	OK	4.45979	1.59871	-1.48007	0.922094	0.35648	0.999883
gene1316	gene1316	SACOL1339	gi 57650036 ref NC_002951.2 :1352649-1353075	MR150	M36C05	OK	4.05069	3.90069	-0.0544378	0.062936	0.94982	0.999883
gene1317	gene1317	SACOL1340	gi 57650036 ref NC_002951.2 :1353195-1353444	MR150	M36C05	OK	23.09	18.2046	-0.342965	0.430309	0.66697	0.999883
gene1318	gene1318	SACOL1341	gi 57650036 ref NC_002951.2 :1353573-1353675	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1319	gene1319	SACOL1342	gi 57650036 ref NC_002951.2 :1353720-1353987	MR150	M36C05	OK	0	1.36301	1.79769e+30	1.79769e+30	0.14732	0.743774

gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	MR150	M36C05	OK	1.08391	95.2877	6.45798	-7.49227	6.77E-14	7.00E-11
gene1320	gene1320	SACOL1344	gi 57650036 ref NC_002951.2 :1354323-1354458	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1321	gene1321	SACOL1345	gi 57650036 ref NC_002951.2 :1354548-1354839	MR150	M36C05	OK	13.7019	5.47979	-1.32219	1.48771	0.13683	0.732537
gene1322	gene1322	SACOL1346	gi 57650036 ref NC_002951.2 :1354849-1355044	MR150	M36C05	OK	27.9654	11.9653	-1.22479	1.2023	0.22925	0.898537
gene1323	gene1323	SACOL1347	gi 57650036 ref NC_002951.2 :1355093-1355435	MR150	M36C05	OK	3.14579	18.181	2.53094	-2.85511	0.0043	0.0972982
gene1324	gene1324	SACOL1348	gi 57650036 ref NC_002951.2 :1355441-1355633	MR150	M36C05	OK	0	4.28023	1.79769e+30	1.79769e+30	0.14732	0.743774
gene1325	gene1325	SACOL1349	gi 57650036 ref NC_002951.2 :1356181-1357207	MR150	M36C05	OK	1.48314	3.87146	1.38422	-1.81389	0.0697	0.522414
gene1326	gene1326	SACOL1350	gi 57650036 ref NC_002951.2 :1357476-1357674	MR150	M36C05	OK	83.5971	26.0908	-1.67991	2.05475	0.0399	0.389112
gene1327	gene1327	cls1	gi 57650036 ref NC_002951.2 :1357731-1359213	MR150	M36C05	OK	33.5707	20.1198	-0.738588	1.01021	0.3124	0.994118
gene1328	gene1328	SACOL1352	gi 57650036 ref NC_002951.2 :1359387-1360996	MR150	M36C05	OK	3.23954	6.06666	0.905111	-0.942248	0.34607	0.999883
gene1329	gene1329	SACOL1353	gi 57650036 ref NC_002951.2 :1359387-1360996	MR150	M36C05	OK	4.3166	7.25877	0.749831	-0.75982	0.44736	0.999883
gene133	gene133	cap5D	gi 57650036 ref NC_002951.2 :155561-158403	MR150	M36C05	OK	1.60336	85.9854	5.74492	-6.08734	1.15E-09	3.96E-07
gene1330	gene1330	SACOL1354	gi 57650036 ref NC_002951.2 :1360999-1362690	MR150	M36C05	OK	10.1292	12.4847	0.301651	-0.30373	0.76133	0.999883
gene1331	gene1331	SACOL1355	gi 57650036 ref NC_002951.2 :1360999-1362690	MR150	M36C05	OK	28.8649	21.0917	-0.452637	0.453855	0.64993	0.999883
gene1332	gene1332	SACOL1356	gi 57650036 ref NC_002951.2 :1362962-1363070	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1333	gene1333	SACOL1357	gi 57650036 ref NC_002951.2 :1363129-1363663	MR150	M36C05	OK	14.66	5.62014	-1.3832	1.90977	0.05616	0.471519
gene1334	gene1334	SACOL1358	gi 57650036 ref NC_002951.2 :1363805-1364660	MR150	M36C05	OK	55.6359	113.331	1.02645	-1.33879	0.18064	0.828449
gene1335	gene1335	SACOL1359	gi 57650036 ref NC_002951.2 :1364975-1365566	MR150	M36C05	OK	229.386	97.9724	-1.22733	1.57731	0.11472	0.670749
gene1336	gene1336	SACOL1360	gi 57650036 ref NC_002951.2 :1365619-1367002	MR150	M36C05	OK	48.5488	85.8213	0.821901	-1.02798	0.30396	0.988652
gene1337	gene1337	SACOL1361	gi 57650036 ref NC_002951.2 :1367007-1367115	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1338	gene1338	hom	gi 57650036 ref NC_002951.2 :1367192-1368473	MR150	M36C05	OK	238.864	541.831	1.18165	-1.25248	0.2104	0.88887
gene1339	gene1339	thrC	gi 57650036 ref NC_002951.2 :1368478-1369540	MR150	M36C05	OK	339.673	717.106	1.07804	-1.13504	0.25636	0.933885
gene134	gene134	cap5E	gi 57650036 ref NC_002951.2 :155561-158403	MR150	M36C05	OK	1.47777	57.9945	5.29442	-3.48321	0.0005	0.0200306
gene1340	gene1340	thrB	gi 57650036 ref NC_002951.2 :1369541-1370456	MR150	M36C05	OK	207.091	359.245	0.794701	-0.894433	0.37109	0.999883
gene1341	gene1341	SACOL1365	gi 57650036 ref NC_002951.2 :1370513-1371317	MR150	M36C05	OK	333.847	537.862	0.68805	-0.753497	0.45115	0.999883
gene1342	gene1342	SACOL1366	gi 57650036 ref NC_002951.2 :1371609-1371924	MR150	M36C05	OK	138.616	106.44	-0.381055	0.554372	0.57932	0.999883
gene1343	gene1343	SACOL1367	gi 57650036 ref NC_002951.2 :1372141-1373596	MR150	M36C05	OK	38.5641	83.9684	1.12259	-1.41206	0.15793	0.776469
gene1344	gene1344	kataA	gi 57650036 ref NC_002951.2 :1373895-1375317	MR150	M36C05	OK	537.176	2052.29	1.93377	-2.01756	0.04364	0.40838
gene1345	gene1345	rpmG	gi 57650036 ref NC_002951.2 :1375407-1375557	MR150	M36C05	OK	694.511	785.21	0.177081	-0.254689	0.79896	0.999883
gene1346	gene1346	rpsN	gi 57650036 ref NC_002951.2 :1376010-1376280	MR150	M36C05	OK	16.5837	26.4674	0.674453	-0.878311	0.37978	0.999883
gene1347	gene1347	guaC	gi 57650036 ref NC_002951.2 :1376436-1377515	MR150	M36C05	OK	6.69204	3.96883	-0.753732	1.06768	0.28566	0.973566
gene1348	gene1348	SACOL1372	gi 57650036 ref NC_002951.2 :1376436-1377515	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1349	gene1349	SACOL1373	gi 57650036 ref NC_002951.2 :1377588-1378452	MR150	M36C05	OK	17.9866	13.7872	-0.383592	0.563058	0.5734	0.999883

gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	MR150	M36C05	OK	1.51458	47.6174	4.9745	-6.43694	1.22E-10	5.19E-08
gene1350	gene1350	lexA	gi 57650036 ref NC_002951.2 :1378831-1379455	MR150	M36C05	OK	657.396	762.497	0.213968	-0.230774	0.81749	0.999883
gene1351	gene1351	SACOL1375	gi 57650036 ref NC_002951.2 :1379597-1379831	MR150	M36C05	OK	363.326	104.009	-1.80456	2.61015	0.00905	0.157446
gene1352	gene1352	SACOL1376	gi 57650036 ref NC_002951.2 :1379966-1380206	MR150	M36C05	OK	77.4024	31.4104	-1.30114	1.79363	0.07287	0.528958
gene1353	gene1353	tkt	gi 57650036 ref NC_002951.2 :1380326-1382315	MR150	M36C05	OK	244.527	354.772	0.536901	-0.555687	0.57843	0.999883
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	MR150	M36C05	OK	484.291	80.0577	-2.59676	3.67522	0.00024	0.0111637
gene1355	gene1355	SACOL1379	gi 57650036 ref NC_002951.2 :1382592-1382920	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1356	gene1356	SACOL1380	gi 57650036 ref NC_002951.2 :1383013-1383481	MR150	M36C05	OK	44.4936	12.3565	-1.84833	2.65568	0.00791	0.14471
gene1357	gene1357	sbcD	gi 57650036 ref NC_002951.2 :1383604-1384726	MR150	M36C05	OK	8.96923	3.34839	-1.42152	2.03924	0.04143	0.396038
gene1358	gene1358	sbcC	gi 57650036 ref NC_002951.2 :1384729-1387759	MR150	M36C05	OK	10.9881	3.73784	-1.55566	2.21201	0.02697	0.309278
gene1359	gene1359	mscL	gi 57650036 ref NC_002951.2 :1387829-1388192	MR150	M36C05	OK	671.75	1270.2	0.919061	-1.06168	0.28838	0.975616
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	MR150	M36C05	OK	2.15226	38.3815	4.15649	-5.59662	2.19E-08	4.52E-06
gene1360	gene1360	opuD1	gi 57650036 ref NC_002951.2 :1388395-1390042	MR150	M36C05	OK	232.869	23.7656	-3.29257	3.91358	9.09E-05	0.0052649
gene1361	gene1361	acnA	gi 57650036 ref NC_002951.2 :1390933-1393639	MR150	M36C05	OK	283.073	752.31	1.41015	-1.45697	0.14513	0.743774
gene1362	gene1362	SACOL1386	gi 57650036 ref NC_002951.2 :1393818-1394286	MR150	M36C05	OK	77.0081	89.7903	0.22155	-0.315149	0.75265	0.999883
gene1363	gene1363	SACOL1387	gi 57650036 ref NC_002951.2 :1394492-1394789	MR150	M36C05	OK	59.3894	174.279	1.55312	-2.25528	0.02412	0.294807
gene1364	gene1364	SACOL1388	gi 57650036 ref NC_002951.2 :1395164-1395773	MR150	M36C05	OK	194.228	138.185	-0.49115	0.624506	0.5323	0.999883
gene1365	gene1365	parE	gi 57650036 ref NC_002951.2 :1395972-1400372	MR150	M36C05	OK	49.3251	34.2024	-0.528224	0.411498	0.68071	0.999883
gene1366	gene1366	parC	gi 57650036 ref NC_002951.2 :1395972-1400372	MR150	M36C05	OK	56.9463	25.5111	-1.15848	0.969871	0.33211	0.999883
gene1367	gene1367	SACOL1392	gi 57650036 ref NC_002951.2 :1400621-1402097	MR150	M36C05	OK	75.3791	21.7694	-1.79186	2.326	0.02002	0.260836
gene1368	gene1368	SACOL1393	gi 57650036 ref NC_002951.2 :1402581-1404776	MR150	M36C05	OK	28.1807	41.1089	0.544742	-0.236505	0.81304	0.999883
gene1369	gene1369	SACOL1394	gi 57650036 ref NC_002951.2 :1402581-1404776	MR150	M36C05	OK	108.032	143.672	0.411325	-0.047833	0.96185	0.999883
gene137	gene137	cap5H	gi 57650036 ref NC_002951.2 :160655-161282	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1370	gene1370	SACOL1395	gi 57650036 ref NC_002951.2 :1402581-1404776	MR150	M36C05	OK	84.9972	190.013	1.16061	-1.23115	0.21827	0.89416
gene1371	gene1371	fmtC	gi 57650036 ref NC_002951.2 :1405256-1407779	MR150	M36C05	OK	262.31	344.676	0.393967	-0.403562	0.68654	0.999883
gene1372	gene1372	msrA	gi 57650036 ref NC_002951.2 :1407981-1408491	MR150	M36C05	OK	24.1811	63.4037	1.39069	-2.01952	0.04343	0.40838
gene1373	gene1373	SACOL1398	gi 57650036 ref NC_002951.2 :1408627-1409611	MR150	M36C05	OK	22.0711	16.457	-0.423456	0.615666	0.53812	0.999883
gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	MR150	M36C05	OK	314.174	104.259	-1.5914	2.24332	0.02488	0.299551
gene1375	gene1375	SACOL1400	gi 57650036 ref NC_002951.2 :1410031-1411294	MR150	M36C05	OK	80.825	68.6563	-0.235409	0.293704	0.76898	0.999883
gene1376	gene1376	tyrA	gi 57650036 ref NC_002951.2 :1411430-1412522	MR150	M36C05	OK	68.844	59.0862	-0.220509	0.285747	0.77507	0.999883
gene1377	gene1377	SACOL1402	gi 57650036 ref NC_002951.2 :1412686-1413718	MR150	M36C05	OK	66.2601	55.1345	-0.265186	0.34804	0.72781	0.999883
gene1378	gene1378	trpE	gi 57650036 ref NC_002951.2 :1414209-1416179	MR150	M36C05	OK	0.76134	2.83118	1.89479	-2.20728	0.02729	0.312057
gene1379	gene1379	trpG	gi 57650036 ref NC_002951.2 :1414209-1416179	MR150	M36C05	OK	0.83401	1.80502	1.11387	-0.657285	0.511	0.999883

gene138	gene138	cap5I	gi 57650036 ref NC_002951.2 :161286-162396	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1380	gene1380	trpD	gi 57650036 ref NC_002951.2 :1416184-1417183	MR150	M36C05	OK	1.14992	2.76029	1.26328	-1.57334	0.11564	0.672201
gene1381	gene1381	trpC	gi 57650036 ref NC_002951.2 :1417184-1420527	MR150	M36C05	OK	0.52523	3.59526	2.77507	-1.37097	0.17039	0.813911
gene1382	gene1382	trpF	gi 57650036 ref NC_002951.2 :1417184-1420527	MR150	M36C05	OK	1.75541	2.53148	0.528177	-0.299384	0.76465	0.999883
gene1383	gene1383	trpB	gi 57650036 ref NC_002951.2 :1417184-1420527	MR150	M36C05	OK	1.05619	2.93272	1.47337	-1.17272	0.24091	0.911371
gene1384	gene1384	trpA	gi 57650036 ref NC_002951.2 :1417184-1420527	MR150	M36C05	OK	3.18344	5.00572	0.652988	-0.565536	0.57171	0.999883
gene1385	gene1385	femA	gi 57650036 ref NC_002951.2 :1420809-1422111	MR150	M36C05	OK	98.534	161.36	0.71159	-0.830632	0.40618	0.999883
gene1386	gene1386	SACOL1411	gi 57650036 ref NC_002951.2 :1422129-1423389	MR150	M36C05	OK	167.453	184.399	0.139077	-0.157261	0.87504	0.999883
gene1387	gene1387	SACOL1412	gi 57650036 ref NC_002951.2 :1424071-1424839	MR150	M36C05	OK	5.66047	3.30189	-0.777629	1.05918	0.28952	0.975616
gene1388	gene1388	SACOL1413	gi 57650036 ref NC_002951.2 :1424886-1425360	MR150	M36C05	OK	75.8909	162.37	1.09729	-1.51076	0.13085	0.718382
gene1389	gene1389	SACOL1414	gi 57650036 ref NC_002951.2 :1425483-1428747	MR150	M36C05	OK	7.01403	12.5291	0.836967	-0.785893	0.43193	0.999883
gene139	gene139	cap5J	gi 57650036 ref NC_002951.2 :162409-164774	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1390	gene1390	SACOL1415	gi 57650036 ref NC_002951.2 :1425483-1428747	MR150	M36C05	OK	2.13384	6.72684	1.65648	-1.03052	0.30277	0.987655
gene1391	gene1391	SACOL1416	gi 57650036 ref NC_002951.2 :1425483-1428747	MR150	M36C05	OK	2.4265	1.39848	-0.795017	0.345877	0.72944	0.999883
gene1392	gene1392	SACOL1417	gi 57650036 ref NC_002951.2 :1425483-1428747	MR150	M36C05	OK	3.30778	4.624	0.483281	-0.366281	0.71416	0.999883
gene1393	gene1393	SACOL1418	gi 57650036 ref NC_002951.2 :1429050-1429395	MR150	M36C05	OK	26.7537	22.3011	-0.262621	0.372977	0.70917	0.999883
gene1394	gene1394	SACOL1419	gi 57650036 ref NC_002951.2 :1429599-1431414	MR150	M36C05	OK	46.5669	103.731	1.15546	-1.3814	0.16716	0.804863
gene1395	gene1395	SACOL1420	gi 57650036 ref NC_002951.2 :1431553-1432195	MR150	M36C05	OK	6.92639	3.24617	-1.09337	1.45282	0.14627	0.743774
gene1396	gene1396	SACOL1421	gi 57650036 ref NC_002951.2 :1432201-1433053	MR150	M36C05	OK	5.16647	3.89097	-0.40905	0.569576	0.56897	0.999883
gene1397	gene1397	SACOL1422	gi 57650036 ref NC_002951.2 :1433099-1434017	MR150	M36C05	OK	4.47854	5.37611	0.263534	-0.373392	0.70886	0.999883
gene1398	gene1398	SACOL1423	gi 57650036 ref NC_002951.2 :1434018-1434945	MR150	M36C05	OK	3.58063	3.48908	-0.0373636	0.051391	0.95901	0.999883
gene1399	gene1399	SACOL1424	gi 57650036 ref NC_002951.2 :1435135-1436119	MR150	M36C05	OK	16.2115	14.0658	-0.204825	0.300121	0.76409	0.999883
gene14	gene14	rplI	gi 57650036 ref NC_002951.2 :18344-20755	MR150	M36C05	OK	93.3919	72.3559	-0.368187	0.135129	0.89251	0.999883
gene140	gene140	cap5K	gi 57650036 ref NC_002951.2 :162409-164774	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1400	gene1400	SACOL1425	gi 57650036 ref NC_002951.2 :1436658-1436955	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1401	gene1401	SACOL1426	gi 57650036 ref NC_002951.2 :1437090-1437993	MR150	M36C05	OK	180.348	112.957	-0.675013	0.81807	0.41332	0.999883
gene1402	gene1402	SACOL1427	gi 57650036 ref NC_002951.2 :1438139-1439741	MR150	M36C05	OK	28.2947	9.51279	-1.57259	2.20008	0.0278	0.315942
gene1403	gene1403	lysC	gi 57650036 ref NC_002951.2 :1440600-1441806	MR150	M36C05	OK	8.37282	10.192	0.283655	-0.416932	0.67673	0.999883
gene1404	gene1404	asd	gi 57650036 ref NC_002951.2 :1441869-1442859	MR150	M36C05	OK	36.6351	71.7486	0.969723	-1.30012	0.19356	0.855702
gene1405	gene1405	dapA	gi 57650036 ref NC_002951.2 :1442860-1444467	MR150	M36C05	OK	36.9446	81.1165	1.13463	-1.12263	0.2616	0.942812
gene1406	gene1406	dapB	gi 57650036 ref NC_002951.2 :1442860-1444467	MR150	M36C05	OK	40.6883	55.4846	0.447474	-0.355778	0.72201	0.999883
gene1407	gene1407	dapD	gi 57650036 ref NC_002951.2 :1444493-1445213	MR150	M36C05	OK	61.8259	106.73	0.787685	-1.05202	0.29279	0.976946
gene1408	gene1408	SACOL1433	gi 57650036 ref NC_002951.2 :1445355-1446507	MR150	M36C05	OK	29.2774	18.5302	-0.65991	0.936342	0.3491	0.999883

gene1409	gene1409	SACOL1434	gi 57650036 ref NC_002951.2 :1446511-1448852	MR150	M36C05	OK	18.3213	12.9427	-0.501384	0.31129	0.75558	0.999883
gene141	gene141	cap5L	gi 57650036 ref NC_002951.2 :164774-165980	MR150	M36C05	OK	0.9134	11.6167	3.66881	-4.72359	2.32E-06	0.0002266
gene1410	gene1410	lysA	gi 57650036 ref NC_002951.2 :1446511-1448852	MR150	M36C05	OK	39.2213	44.0562	0.167708	-0.188998	0.8501	0.999883
gene1411	gene1411	SACOL1436	gi 57650036 ref NC_002951.2 :1449091-1449493	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1412	gene1412	SACOL1437	gi 57650036 ref NC_002951.2 :1449689-1449890	MR150	M36C05	OK	3847.5	1551.04	-1.31069	1.63354	0.10236	0.641957
gene1413	gene1413	SACOL1438	gi 57650036 ref NC_002951.2 :1450060-1450369	MR150	M36C05	OK	57.9846	88.432	0.6089	-0.893609	0.37153	0.999883
gene1414	gene1414	SACOL1439	gi 57650036 ref NC_002951.2 :1450531-1450801	MR150	M36C05	OK	270.866	397.011	0.551597	-0.769763	0.44144	0.999883
gene1415	gene1415	SACOL1440	gi 57650036 ref NC_002951.2 :1450819-1451449	MR150	M36C05	OK	105.369	170.184	0.691645	-0.893429	0.37163	0.999883
gene1416	gene1416	SACOL1441	gi 57650036 ref NC_002951.2 :1451480-1452617	MR150	M36C05	OK	169.813	236.045	0.475113	-0.536856	0.59137	0.999883
gene1417	gene1417	SACOL1442	gi 57650036 ref NC_002951.2 :1452884-1453277	MR150	M36C05	OK	0	1.70581	1.79769e+30	1.79769e+30	0.03514	0.35865
gene1418	gene1418	brnQ3	gi 57650036 ref NC_002951.2 :1453629-1454973	MR150	M36C05	OK	11.1117	4.23992	-1.38997	2.02275	0.0431	0.407192
gene1419	gene1419	SACOL1444	gi 57650036 ref NC_002951.2 :1455197-1457084	MR150	M36C05	OK	7.35433	8.55819	0.218712	-0.319392	0.74943	0.999883
gene142	gene142	cap5M	gi 57650036 ref NC_002951.2 :165990-167435	MR150	M36C05	OK	1.70988	10.7944	2.65831	-2.01301	0.04411	0.409293
gene1420	gene1420	SACOL1445	gi 57650036 ref NC_002951.2 :1457097-1457889	MR150	M36C05	OK	9.82777	17.3299	0.818329	-1.19831	0.2308	0.899929
gene1421	gene1421	SACOL1446	gi 57650036 ref NC_002951.2 :1458069-1458273	MR150	M36C05	OK	151.769	124.765	-0.282671	0.40791	0.68334	0.999883
gene1422	gene1422	SACOL1447	gi 57650036 ref NC_002951.2 :1458301-1459111	MR150	M36C05	OK	171.934	149.914	-0.197723	0.240452	0.80998	0.999883
gene1423	gene1423	sucB	gi 57650036 ref NC_002951.2 :1459690-1460959	MR150	M36C05	OK	255.441	411.068	0.686386	-0.731354	0.46456	0.999883
gene1424	gene1424	sucA	gi 57650036 ref NC_002951.2 :1460972-1463771	MR150	M36C05	OK	227.68	375.05	0.720071	-0.737955	0.46054	0.999883
gene1425	gene1425	arlS	gi 57650036 ref NC_002951.2 :1464054-1466066	MR150	M36C05	OK	8.08166	34.902	2.11059	-1.89524	0.05806	0.482975
gene1426	gene1426	arlR	gi 57650036 ref NC_002951.2 :1464054-1466066	MR150	M36C05	OK	17.6373	119.478	2.76005	-2.63449	0.00843	0.150573
gene1427	gene1427	SACOL1452	gi 57650036 ref NC_002951.2 :1466853-1467468	MR150	M36C05	OK	35.7765	44.9512	0.329346	-0.476812	0.6335	0.999883
gene1428	gene1428	murG	gi 57650036 ref NC_002951.2 :1467484-1468555	MR150	M36C05	OK	17.2302	20.0019	0.215202	-0.312034	0.75502	0.999883
gene1429	gene1429	SACOL1454	gi 57650036 ref NC_002951.2 :1468566-1469077	MR150	M36C05	OK	7.37864	9.23144	0.3232	-0.444147	0.65694	0.999883
gene143	gene143	cap5N	gi 57650036 ref NC_002951.2 :165990-167435	MR150	M36C05	OK	2.44814	10.901	2.15471	-2.52491	0.01157	0.183265
gene1430	gene1430	SACOL1455	gi 57650036 ref NC_002951.2 :1469476-1470967	MR150	M36C05	OK	37.9636	42.2642	0.15482	-0.202658	0.8394	0.999883
gene1431	gene1431	SACOL1456	gi 57650036 ref NC_002951.2 :1471158-1471880	MR150	M36C05	OK	236.752	293.234	0.308674	-0.191577	0.84807	0.999883
gene1432	gene1432	SACOL1457	gi 57650036 ref NC_002951.2 :1471158-1471880	MR150	M36C05	OK	99.0984	181.223	0.87083	-0.994791	0.31984	0.999883
gene1433	gene1433	SACOL1459	gi 57650036 ref NC_002951.2 :1471891-1473771	MR150	M36C05	OK	101.858	172.73	0.761961	-0.759438	0.44759	0.999883
gene1434	gene1434	SACOL1460	gi 57650036 ref NC_002951.2 :1471891-1473771	MR150	M36C05	OK	50.9581	73.7652	0.533629	-0.308876	0.75742	0.999883
gene1435	gene1435	folA	gi 57650036 ref NC_002951.2 :1473785-1474265	MR150	M36C05	OK	50.7905	111.982	1.14064	-1.61558	0.10619	0.653986
gene1436	gene1436	thyA	gi 57650036 ref NC_002951.2 :1474464-1475421	MR150	M36C05	OK	28.1172	55.5043	0.981146	-1.35399	0.17574	0.821477
gene1437	gene1437	SACOL1464	gi 57650036 ref NC_002951.2 :1475844-1476282	MR150	M36C05	OK	100.088	113.983	0.18755	-0.263806	0.79193	0.999883
gene1438	gene1438	SACOL1465	gi 57650036 ref NC_002951.2 :1476297-1477422	MR150	M36C05	OK	68.0445	94.5234	0.474194	-0.595922	0.55123	0.999883

gene1439	gene1439	SACOL1466	gi 57650036 ref NC_002951.2 :1477459-1477711	MR150	M36C05	OK	55.7474	75.1392	0.43066	-0.619887	0.53533	0.999883
gene144	gene144	cap5O	gi 57650036 ref NC_002951.2 :167488-168751	MR150	M36C05	OK	3.02553	10.8896	1.84769	-2.65239	0.00799	0.14471
gene1440	gene1440	SACOL1467	gi 57650036 ref NC_002951.2 :1477722-1477917	MR150	M36C05	OK	22.3723	75.7799	1.7601	-2.06486	0.03894	0.38357
gene1441	gene1441	SACOL1468	gi 57650036 ref NC_002951.2 :1478161-1478866	MR150	M36C05	OK	7.27554	2.84051	-1.35691	1.81553	0.06944	0.522414
gene1442	gene1442	SACOL1469	gi 57650036 ref NC_002951.2 :1478930-1479062	MR150	M36C05	OK	0	318.311	1.79769e+30	1.79769e+30	0.0141	0.204943
gene1443	gene1443	SACOL1471	gi 57650036 ref NC_002951.2 :1479406-1479808	MR150	M36C05	OK	3.76651	2.72051	-0.46935	0.50123	0.61621	0.999883
gene1444	gene1444	ebh	gi 57650036 ref NC_002951.2 :1479866-1511363	MR150	M36C05	OK	1.93357	3.44937	0.835067	-1.03752	0.29949	0.982072
gene1445	gene1445	SACOL1475	gi 57650036 ref NC_002951.2 :1511760-1513152	MR150	M36C05	OK	2.18426	3.8841	0.830433	-1.17062	0.24175	0.913135
gene1446	gene1446	SACOL1476	gi 57650036 ref NC_002951.2 :1513308-1514631	MR150	M36C05	OK	2.31843	9.81651	2.08206	-2.95748	0.0031	0.0795967
gene1447	gene1447	ilvA1	gi 57650036 ref NC_002951.2 :1514661-1515702	MR150	M36C05	OK	1.82087	6.81798	1.90472	-2.59323	0.00951	0.161634
gene1448	gene1448	ald1	gi 57650036 ref NC_002951.2 :1515796-1516915	MR150	M36C05	OK	1.66639	5.39893	1.69595	-2.30265	0.0213	0.273297
gene1449	gene1449	SACOL1479	gi 57650036 ref NC_002951.2 :1517389-1518268	MR150	M36C05	OK	52.092	48.2438	-0.110719	0.151288	0.87975	0.999883
gene145	gene145	cap5P	gi 57650036 ref NC_002951.2 :168797-169973	MR150	M36C05	OK	6.90407	14.9111	1.11087	-1.62316	0.10456	0.649503
gene1450	gene1450	SACOL1480	gi 57650036 ref NC_002951.2 :1518287-1521728	MR150	M36C05	OK	35.0234	43.0402	0.297364	-0.350987	0.7256	0.999883
gene1451	gene1451	SACOL1481	gi 57650036 ref NC_002951.2 :1522031-1523372	MR150	M36C05	OK	1.87918	1.256	-0.581269	0.758414	0.4482	0.999883
gene1452	gene1452	SACOL1482	gi 57650036 ref NC_002951.2 :1523577-1523910	MR150	M36C05	OK	21.1213	3.21226	-2.71703	3.05097	0.00228	0.063737
gene1453	gene1453	SACOL1483	gi 57650036 ref NC_002951.2 :1523993-1525139	MR150	M36C05	OK	13.4364	8.15842	-0.719788	1.05531	0.29128	0.975616
gene1454	gene1454	SACOL1484	gi 57650036 ref NC_002951.2 :1525789-1526134	MR150	M36C05	OK	147.145	140.497	-0.0667003	0.095218	0.92414	0.999883
gene1455	gene1455	SACOL1485	gi 57650036 ref NC_002951.2 :1526147-1527054	MR150	M36C05	OK	81.9852	180.172	1.13594	-1.22293	0.22136	0.89416
gene1456	gene1456	SACOL1486	gi 57650036 ref NC_002951.2 :1526147-1527054	MR150	M36C05	OK	92.2271	149.013	0.69217	-0.472384	0.63665	0.999883
gene1457	gene1457	SACOL1488	gi 57650036 ref NC_002951.2 :1527487-1530400	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1458	gene1458	recU	gi 57650036 ref NC_002951.2 :1527487-1530400	MR150	M36C05	OK	84.6	55.5762	-0.606189	0.157544	0.87482	0.999883
gene1459	gene1459	pbp2	gi 57650036 ref NC_002951.2 :1527487-1530400	MR150	M36C05	OK	218.413	216.073	-0.0155414	0.01564	0.98752	0.999883
gene146	gene146	SACOL0152	gi 57650036 ref NC_002951.2 :170037-170364	MR150	M36C05	OK	13.8904	17.5589	0.33812	-0.452386	0.65099	0.999883
gene1460	gene1460	SACOL1491	gi 57650036 ref NC_002951.2 :1530965-1531307	MR150	M36C05	OK	44.041	33.3319	-0.401945	0.585187	0.55842	0.999883
gene1461	gene1461	nth	gi 57650036 ref NC_002951.2 :1531311-1532647	MR150	M36C05	OK	35.6073	37.9067	0.0902777	-0.083115	0.93376	0.999883
gene1462	gene1462	SACOL1493	gi 57650036 ref NC_002951.2 :1531311-1532647	MR150	M36C05	OK	31.7487	49.6234	0.644324	-0.636498	0.52445	0.999883
gene1463	gene1463	asnC	gi 57650036 ref NC_002951.2 :1532974-1534267	MR150	M36C05	OK	93.6001	42.8662	-1.12667	1.42196	0.15504	0.769852
gene1464	gene1464	SACOL1495	gi 57650036 ref NC_002951.2 :1534588-1537282	MR150	M36C05	OK	32.4296	14.4921	-1.16205	1.50779	0.13161	0.718832
gene1465	gene1465	birA	gi 57650036 ref NC_002951.2 :1537305-1539466	MR150	M36C05	OK	39.4724	39.8543	0.0138907	-0.01388	0.98893	0.999883
gene1466	gene1466	papS	gi 57650036 ref NC_002951.2 :1537305-1539466	MR150	M36C05	OK	29.6215	13.4102	-1.14331	0.921314	0.35689	0.999883
gene1467	gene1467	SACOL1498	gi 57650036 ref NC_002951.2 :1539470-1540625	MR150	M36C05	OK	31.9116	18.3565	-0.797791	1.12686	0.2598	0.939148
gene1468	gene1468	SACOL1499	gi 57650036 ref NC_002951.2 :1540853-1541171	MR150	M36C05	OK	32.0578	35.6129	0.151721	-0.21777	0.82761	0.999883

gene1469	gene1469	SACOL1500	gi 57650036 ref NC_002951.2 :1541507-1542215	MR150	M36C05	OK	1544.46	3002.25	0.958939	-0.985202	0.32453	0.999883
gene147	gene147	SACOL0153	gi 57650036 ref NC_002951.2 :170370-170754	MR150	M36C05	OK	3.29641	4.16676	0.338031	-0.366603	0.71392	0.999883
gene1470	gene1470	SACOL1501	gi 57650036 ref NC_002951.2 :1542259-1543412	MR150	M36C05	OK	13.4119	19.917	0.570486	-0.562053	0.57408	0.999883
gene1471	gene1471	SACOL1502	gi 57650036 ref NC_002951.2 :1542259-1543412	MR150	M36C05	OK	19.9449	19.3792	-0.0415116	0.044179	0.96476	0.999883
gene1472	gene1472	SACOL1503	gi 57650036 ref NC_002951.2 :1543425-1544670	MR150	M36C05	OK	25.94	23.6316	-0.134461	0.188862	0.8502	0.999883
gene1473	gene1473	aroA	gi 57650036 ref NC_002951.2 :1544676-1545975	MR150	M36C05	OK	26.1988	30.0932	0.199935	-0.275976	0.78257	0.999883
gene1474	gene1474	aroB	gi 57650036 ref NC_002951.2 :1545984-1547049	MR150	M36C05	OK	15.7563	24.3474	0.627841	-0.906732	0.36455	0.999883
gene1475	gene1475	aroC	gi 57650036 ref NC_002951.2 :1547074-1548241	MR150	M36C05	OK	22.647	29.7581	0.393962	-0.554439	0.57928	0.999883
gene1476	gene1476	SACOL1507	gi 57650036 ref NC_002951.2 :1548626-1548827	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1477	gene1477	SACOL1508	gi 57650036 ref NC_002951.2 :1548855-1548981	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	MR150	M36C05	OK	259.126	50.753	-2.35209	3.20042	0.00137	0.0435582
gene1479	gene1479	SACOL1510	gi 57650036 ref NC_002951.2 :1549576-1550536	MR150	M36C05	OK	70.9224	36.2762	-0.967217	1.30336	0.19245	0.852374
gene148	gene148	aldA1	gi 57650036 ref NC_002951.2 :171180-172668	MR150	M36C05	OK	1141.56	1700.41	0.57488	-0.599384	0.54892	0.999883
gene1480	gene1480	ubiE	gi 57650036 ref NC_002951.2 :1550537-1551263	MR150	M36C05	OK	129.81	125.648	-0.0470113	0.059814	0.9523	0.999883
gene1481	gene1481	SACOL1512	gi 57650036 ref NC_002951.2 :1551265-1551838	MR150	M36C05	OK	93.9605	88.2049	-0.0911956	0.124647	0.9008	0.999883
gene1482	gene1482	hup	gi 57650036 ref NC_002951.2 :1552268-1552541	MR150	M36C05	OK	6953.02	10892	0.647554	-0.663447	0.50705	0.999883
gene1483	gene1483	gpsA	gi 57650036 ref NC_002951.2 :1552711-1553710	MR150	M36C05	OK	88.9275	61.9686	-0.521094	0.671529	0.50188	0.999883
gene1484	gene1484	engA	gi 57650036 ref NC_002951.2 :1553726-1555037	MR150	M36C05	OK	69.201	62.8102	-0.139794	0.176059	0.86025	0.999883
gene1485	gene1485	rpsA	gi 57650036 ref NC_002951.2 :1555258-1556434	MR150	M36C05	OK	375.644	559.846	0.575663	-0.601427	0.54756	0.999883
gene1486	gene1486	cmk	gi 57650036 ref NC_002951.2 :1557145-1557805	MR150	M36C05	OK	68.5525	40.3058	-0.766219	1.07882	0.28067	0.965951
gene1487	gene1487	ansA	gi 57650036 ref NC_002951.2 :1557881-1558850	MR150	M36C05	OK	16.1293	6.16641	-1.38718	2.01811	0.04358	0.40838
gene1488	gene1488	SACOL1520	gi 57650036 ref NC_002951.2 :1558964-1559951	MR150	M36C05	OK	51.9515	33.3489	-0.639528	0.87647	0.38078	0.999883
gene1489	gene1489	SACOL1521	gi 57650036 ref NC_002951.2 :1560111-1560228	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene149	gene149	SACOL0155	gi 57650036 ref NC_002951.2 :173313-174273	MR150	M36C05	OK	23.1707	60.9441	1.39519	-1.92541	0.05418	0.462646
gene1490	gene1490	SACOL1522	gi 57650036 ref NC_002951.2 :1560352-1561813	MR150	M36C05	OK	236.843	926.161	1.96733	-2.06704	0.03873	0.383437
gene1491	gene1491	recQ2	gi 57650036 ref NC_002951.2 :1561965-1564288	MR150	M36C05	OK	16.3538	36.3403	1.15194	-1.08583	0.27756	0.963271
gene1492	gene1492	SACOL1524	gi 57650036 ref NC_002951.2 :1561965-1564288	MR150	M36C05	OK	25.9951	44.9021	0.788544	-0.699968	0.48395	0.999883
gene1493	gene1493	fer	gi 57650036 ref NC_002951.2 :1564395-1564644	MR150	M36C05	OK	240.136	134.052	-0.841059	1.22859	0.21923	0.89416
gene1494	gene1494	SACOL1526	gi 57650036 ref NC_002951.2 :1564749-1565295	MR150	M36C05	OK	112.336	36.6988	-1.61402	2.2621	0.02369	0.292955
gene1495	gene1495	SACOL1528	gi 57650036 ref NC_002951.2 :1565891-1566806	MR150	M36C05	OK	2.35574	1.85098	-0.347891	0.443362	0.6575	0.999883
gene1496	gene1496	SACOL1529	gi 57650036 ref NC_002951.2 :1566820-1567898	MR150	M36C05	OK	4.33328	3.09463	-0.485691	0.212273	0.83189	0.999883
gene1497	gene1497	SACOL1530	gi 57650036 ref NC_002951.2 :1566820-1567898	MR150	M36C05	NOTEST	0.45101	0.32487	-0.473289	0.320098	0.74889	1
gene1498	gene1498	SACOL1531	gi 57650036 ref NC_002951.2 :1568015-1568933	MR150	M36C05	OK	0.21326	1.84324	3.11153	-2.39852	0.01646	0.230359

gene1499	gene1499	SACOL1532	gi 57650036 ref NC_002951.2 :1569023-1572048	MR150	M36C05	OK	19.1956	18.8631	-0.0252068	0.028144	0.97755	0.999883
gene15	gene15	dnaB	gi 57650036 ref NC_002951.2 :20786-22187	MR150	M36C05	OK	86.461	32.2166	-1.42425	1.81164	0.07004	0.522414
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	MR150	M36C05	OK	50.5897	830.669	4.03736	-5.43203	5.57E-08	1.02E-05
gene1500	gene1500	SACOL1533	gi 57650036 ref NC_002951.2 :1569023-1572048	MR150	M36C05	OK	22.3963	19.59	-0.193146	0.132133	0.89488	0.999883
gene1501	gene1501	srrB	gi 57650036 ref NC_002951.2 :1572352-1574810	MR150	M36C05	OK	23.1921	11.7886	-0.976246	0.687999	0.49145	0.999883
gene1502	gene1502	srrA	gi 57650036 ref NC_002951.2 :1572352-1574810	MR150	M36C05	OK	130.683	81.8076	-0.675765	0.691586	0.4892	0.999883
gene1503	gene1503	rluB	gi 57650036 ref NC_002951.2 :1574942-1576939	MR150	M36C05	OK	49.7991	26.4549	-0.912583	0.736782	0.46126	0.999883
gene1504	gene1504	scpB	gi 57650036 ref NC_002951.2 :1574942-1576939	MR150	M36C05	OK	40.5978	20.6025	-0.97858	0.562528	0.57376	0.999883
gene1505	gene1505	scpA	gi 57650036 ref NC_002951.2 :1574942-1576939	MR150	M36C05	OK	41.4393	38.5752	-0.103328	0.086231	0.93128	0.999883
gene1506	gene1506	SACOL1539	gi 57650036 ref NC_002951.2 :1577030-1577537	MR150	M36C05	OK	13.9523	39.5649	1.50371	-2.18189	0.02912	0.324689
gene1507	gene1507	xerD	gi 57650036 ref NC_002951.2 :1577614-1578502	MR150	M36C05	OK	21.3656	18.4356	-0.212796	0.310557	0.75614	0.999883
gene1508	gene1508	SACOL1541	gi 57650036 ref NC_002951.2 :1578550-1579000	MR150	M36C05	OK	89.8384	227.285	1.3391	-1.81423	0.06964	0.522414
gene1509	gene1509	SACOL1542	gi 57650036 ref NC_002951.2 :1579104-1579647	MR150	M36C05	OK	17.399	24.1436	0.472631	-0.692661	0.48852	0.999883
gene151	gene151	SACOL0157	gi 57650036 ref NC_002951.2 :174716-175229	MR150	M36C05	OK	17.1072	17.9921	0.072765	-0.105954	0.91562	0.999883
gene1510	gene1510	SACOL1543	gi 57650036 ref NC_002951.2 :1579728-1580637	MR150	M36C05	OK	74.0776	87.2665	0.236392	-0.306257	0.75941	0.999883
gene1511	gene1511	SACOL1544	gi 57650036 ref NC_002951.2 :1580852-1581101	MR150	M36C05	OK	6.927	18.2046	1.394	-1.5085	0.13143	0.718382
gene1512	gene1512	SACOL1545	gi 57650036 ref NC_002951.2 :1581116-1581872	MR150	M36C05	OK	8.53615	17.8585	1.06495	-1.55254	0.12053	0.689371
gene1513	gene1513	proC	gi 57650036 ref NC_002951.2 :1582013-1582829	MR150	M36C05	OK	91.4684	75.0316	-0.285775	0.374484	0.70805	0.999883
gene1514	gene1514	SACOL1548	gi 57650036 ref NC_002951.2 :1582933-1583854	MR150	M36C05	OK	26.3347	14.2256	-0.88848	1.29163	0.19649	0.859712
gene1515	gene1515	zwf	gi 57650036 ref NC_002951.2 :1584166-1585651	MR150	M36C05	OK	110.37	227.749	1.0451	-1.17098	0.24161	0.913066
gene1516	gene1516	SACOL1550	gi 57650036 ref NC_002951.2 :1585853-1586747	MR150	M36C05	OK	45.0095	55.7815	0.309556	-0.421965	0.67305	0.999883
gene1517	gene1517	malA	gi 57650036 ref NC_002951.2 :1586829-1588479	MR150	M36C05	OK	14.8939	15.6589	0.0722613	-0.102874	0.91806	0.999883
gene1518	gene1518	malR	gi 57650036 ref NC_002951.2 :1588494-1589514	MR150	M36C05	OK	4.85545	4.97563	0.0352722	-0.050502	0.95972	0.999883
gene1519	gene1519	SACOL1553	gi 57650036 ref NC_002951.2 :1589707-1590079	MR150	M36C05	OK	615.879	903.08	0.552206	-0.64954	0.51599	0.999883
gene152	gene152	SACOL0158	gi 57650036 ref NC_002951.2 :175570-178057	MR150	M36C05	OK	1.80313	4.03672	1.16268	-1.52498	0.12726	0.707889
gene1520	gene1520	gnd	gi 57650036 ref NC_002951.2 :1590297-1591704	MR150	M36C05	OK	301.11	338.555	0.1691	-0.178285	0.8585	0.999883
gene1521	gene1521	SACOL1555	gi 57650036 ref NC_002951.2 :1591771-1592905	MR150	M36C05	OK	58.535	132.449	1.17807	-1.45833	0.14475	0.743774
gene1522	gene1522	SACOL1556	gi 57650036 ref NC_002951.2 :1593167-1593347	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1523	gene1523	SACOL1557	gi 57650036 ref NC_002951.2 :1593473-1594454	MR150	M36C05	OK	67.8399	51.82	-0.388625	0.514325	0.60703	0.999883
gene1524	gene1524	SACOL1558	gi 57650036 ref NC_002951.2 :1594467-1594905	MR150	M36C05	OK	61.5926	54.2114	-0.18416	0.268699	0.78816	0.999883
gene1525	gene1525	SACOL1559	gi 57650036 ref NC_002951.2 :1594977-1595076	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1526	gene1526	SACOL1560	gi 57650036 ref NC_002951.2 :1595255-1596530	MR150	M36C05	OK	93.7422	28.9196	-1.69665	2.18457	0.02892	0.323976
gene1527	gene1527	SACOL1561	gi 57650036 ref NC_002951.2 :1596542-1598518	MR150	M36C05	OK	62.1115	26.5844	-1.22428	1.05331	0.2922	0.976283

gene1528	gene1528	SACOL1562	gi 57650036 ref NC_002951.2 :1596542-1598518	MR150	M36C05	OK	62.9517	34.4869	-0.868199	0.800627	0.42335	0.999883
gene1529	gene1529	lpdA	gi 57650036 ref NC_002951.2 :1598533-1599955	MR150	M36C05	OK	52.8905	32.1136	-0.719824	0.943448	0.34545	0.999883
gene153	gene153	SACOL0159	gi 57650036 ref NC_002951.2 :175570-178057	MR150	M36C05	OK	1.36211	1.37414	0.0126857	-0.006993	0.99442	0.999883
gene1530	gene1530	recN	gi 57650036 ref NC_002951.2 :1600105-1601785	MR150	M36C05	OK	72.3394	70.0785	-0.0458105	0.05522	0.95596	0.999883
gene1531	gene1531	argR	gi 57650036 ref NC_002951.2 :1601800-1602253	MR150	M36C05	OK	96.0311	105.546	0.136298	-0.191709	0.84797	0.999883
gene1532	gene1532	ispA	gi 57650036 ref NC_002951.2 :1602684-1605104	MR150	M36C05	OK	75.6616	57.8963	-0.38609	0.299617	0.76447	0.999883
gene1533	gene1533	xseB	gi 57650036 ref NC_002951.2 :1602684-1605104	MR150	M36C05	OK	81.6062	47.9601	-0.766844	0.15994	0.87293	0.999883
gene1534	gene1534	xseA	gi 57650036 ref NC_002951.2 :1602684-1605104	MR150	M36C05	OK	54.7745	50.0819	-0.129215	0.115127	0.90834	0.999883
gene1535	gene1535	nusB	gi 57650036 ref NC_002951.2 :1605120-1605510	MR150	M36C05	OK	74.3227	79.081	0.0895285	-0.13035	0.89629	0.999883
gene1536	gene1536	SACOL1570	gi 57650036 ref NC_002951.2 :1605569-1605932	MR150	M36C05	OK	68.3762	120.145	0.813212	-1.1797	0.23812	0.909302
gene1537	gene1537	accC	gi 57650036 ref NC_002951.2 :1605946-1607766	MR150	M36C05	OK	46.6351	36.8092	-0.341349	0.391345	0.69554	0.999883
gene1538	gene1538	accB	gi 57650036 ref NC_002951.2 :1605946-1607766	MR150	M36C05	OK	62.2989	33.7382	-0.884825	0.509915	0.61011	0.999883
gene1539	gene1539	SACOL1573	gi 57650036 ref NC_002951.2 :1608120-1609141	MR150	M36C05	OK	47.3763	34.5183	-0.456804	0.625517	0.53163	0.999883
gene154	gene154	SACOL0160	gi 57650036 ref NC_002951.2 :178069-179101	MR150	M36C05	OK	2.39273	3.4459	0.526227	-0.716285	0.47382	0.999883
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	MR150	M36C05	OK	5.24298	8.33297	0.668444	-0.780568	0.43506	0.999883
gene1541	gene1541	SACOL1575	gi 57650036 ref NC_002951.2 :1609646-1610237	MR150	M36C05	OK	1.56578	3.95278	1.33599	-1.53991	0.12358	0.696637
gene1542	gene1542	SACOL1576	gi 57650036 ref NC_002951.2 :1610243-1613127	MR150	M36C05	OK	2.35037	11.5865	2.30148	-1.98742	0.04688	0.425113
gene1543	gene1543	SACOL1577	gi 57650036 ref NC_002951.2 :1610243-1613127	MR150	M36C05	OK	2.69533	8.09206	1.58605	-1.80794	0.07062	0.522414
gene1544	gene1544	SACOL1578	gi 57650036 ref NC_002951.2 :1613131-1614490	MR150	M36C05	NOTEST	0.79286	0.85602	0.110584	-0.129494	0.89697	1
gene1545	gene1545	SACOL1579	gi 57650036 ref NC_002951.2 :1614543-1617039	MR150	M36C05	OK	1.06745	2.68771	1.33221	-1.88229	0.0598	0.491837
gene1546	gene1546	SACOL1580	gi 57650036 ref NC_002951.2 :1617073-1617457	MR150	M36C05	OK	0.8241	1.78576	1.11564	-0.789308	0.42993	0.999883
gene1547	gene1547	SACOL1581	gi 57650036 ref NC_002951.2 :1617468-1617729	MR150	M36C05	OK	2.01969	10.1443	2.32847	-1.75319	0.07957	0.560699
gene1548	gene1548	SACOL1582	gi 57650036 ref NC_002951.2 :1617733-1618789	MR150	M36C05	OK	1.96788	1.6746	-0.232825	0.29888	0.76503	0.999883
gene1549	gene1549	SACOL1583	gi 57650036 ref NC_002951.2 :1618849-1619941	MR150	M36C05	OK	3.26193	4.20278	0.365618	-0.515034	0.60653	0.999883
gene155	gene155	SACOL0161	gi 57650036 ref NC_002951.2 :179317-179677	MR150	M36C05	OK	676.887	265.538	-1.35	1.7018	0.08879	0.597944
gene1550	gene1550	SACOL1584	gi 57650036 ref NC_002951.2 :1620115-1620418	MR150	M36C05	OK	1.38047	1.99077	0.528168	-0.347497	0.72822	0.999883
gene1551	gene1551	SACOL1585	gi 57650036 ref NC_002951.2 :1620431-1620752	MR150	M36C05	OK	7.24133	5.22968	-0.469533	0.524025	0.60026	0.999883
gene1552	gene1552	SACOL1586	gi 57650036 ref NC_002951.2 :1620902-1621187	MR150	M36C05	OK	0	1.15323	1.79769e+30	1.79769e+30	0.14732	0.743774
gene1553	gene1553	efp	gi 57650036 ref NC_002951.2 :1621581-1622139	MR150	M36C05	OK	300.085	297.924	-0.0104245	0.012543	0.98999	0.999883
gene1554	gene1554	SACOL1588	gi 57650036 ref NC_002951.2 :1622164-1623226	MR150	M36C05	OK	57.0266	77.646	0.445276	-0.5761	0.56455	0.999883
gene1555	gene1555	SACOL1589	gi 57650036 ref NC_002951.2 :1623330-1623912	MR150	M36C05	OK	22.8373	30.9235	0.437311	-0.642031	0.52085	0.999883
gene1556	gene1556	SACOL1590	gi 57650036 ref NC_002951.2 :1623925-1624144	MR150	M36C05	OK	111.972	57.5312	-0.960728	1.3541	0.1757	0.821477
gene1557	gene1557	SACOL1591	gi 57650036 ref NC_002951.2 :1624207-1625038	MR150	M36C05	OK	57.5081	47.5484	-0.274369	0.37607	0.70687	0.999883

gene1558	gene1558	SACOL1592	gi 57650036 ref NC_002951.2 :1625195-1625582	MR150	M36C05	OK	116.85	64.4724	-0.857903	1.23879	0.21542	0.89416
gene1559	gene1559	SACOL1593	gi 57650036 ref NC_002951.2 :1625946-1628758	MR150	M36C05	OK	44.5159	22.0805	-1.01154	0.896203	0.37014	0.999883
gene156	gene156	SACOL0162	gi 57650036 ref NC_002951.2 :179849-180875	MR150	M36C05	OK	4.26402	7.20892	0.757568	-1.08983	0.27579	0.961224
gene1560	gene1560	SACOL1594	gi 57650036 ref NC_002951.2 :1625946-1628758	MR150	M36C05	OK	49.6714	22.9702	-1.11265	0.972711	0.3307	0.999883
gene1561	gene1561	gcvT	gi 57650036 ref NC_002951.2 :1628777-1629869	MR150	M36C05	OK	27.984	18.1709	-0.622973	0.890393	0.37326	0.999883
gene1562	gene1562	aroK	gi 57650036 ref NC_002951.2 :1630027-1630552	MR150	M36C05	OK	33.8961	28.1999	-0.26543	0.389938	0.69658	0.999883
gene1563	gene1563	SACOL1597	gi 57650036 ref NC_002951.2 :1630784-1631282	MR150	M36C05	OK	2.05318	0.74108	-1.47016	1.2441	0.21346	0.89416
gene1564	gene1564	SACOL1598	gi 57650036 ref NC_002951.2 :1631485-1632221	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1565	gene1565	comGC	gi 57650036 ref NC_002951.2 :1631485-1632221	MR150	M36C05	OK	0	1.85983	1.79769e+30	1.79769e+30	0.10237	0.641957
gene1566	gene1566	SACOL1600	gi 57650036 ref NC_002951.2 :1632234-1634251	MR150	M36C05	OK	0.87909	1.26595	0.526131	-0.415702	0.67763	0.999883
gene1567	gene1567	SACOL1601	gi 57650036 ref NC_002951.2 :1632234-1634251	MR150	M36C05	OK	2.56862	1.99211	-0.3667	0.404459	0.68588	0.999883
gene1568	gene1568	SACOL1602	gi 57650036 ref NC_002951.2 :1634302-1637882	MR150	M36C05	OK	72.9237	34.6234	-1.07464	0.581715	0.56076	0.999883
gene1569	gene1569	SACOL1603	gi 57650036 ref NC_002951.2 :1634302-1637882	MR150	M36C05	OK	52.1722	43.4238	-0.264796	0.078225	0.93765	0.999883
gene157	gene157	SACOL0163	gi 57650036 ref NC_002951.2 :181260-182511	MR150	M36C05	OK	33.0779	21.7134	-0.607282	0.844698	0.39828	0.999883
gene1570	gene1570	glk	gi 57650036 ref NC_002951.2 :1634302-1637882	MR150	M36C05	OK	54.6756	37.6926	-0.536614	0.376399	0.70662	0.999883
gene1571	gene1571	SACOL1605	gi 57650036 ref NC_002951.2 :1634302-1637882	MR150	M36C05	OK	18.3963	13.1331	-0.486204	0.041076	0.96724	0.999883
gene1572	gene1572	SACOL1606	gi 57650036 ref NC_002951.2 :1634302-1637882	MR150	M36C05	OK	39.2589	26.6854	-0.556969	0.418209	0.67579	0.999883
gene1573	gene1573	SACOL1607	gi 57650036 ref NC_002951.2 :1637893-1638433	MR150	M36C05	OK	45.4558	36.6976	-0.308779	0.450283	0.65251	0.999883
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	MR150	M36C05	OK	2056.82	474.778	-2.11509	3.01829	0.00254	0.0691808
gene1575	gene1575	pbp3	gi 57650036 ref NC_002951.2 :1638903-1640979	MR150	M36C05	OK	106.062	86.5313	-0.293612	0.33324	0.73895	0.999883
gene1576	gene1576	sodA2	gi 57650036 ref NC_002951.2 :1641099-1641699	MR150	M36C05	OK	153.441	307.438	1.00261	-1.23458	0.21699	0.89416
gene1577	gene1577	SACOL1611	gi 57650036 ref NC_002951.2 :1641974-1643235	MR150	M36C05	OK	33.9359	11.9947	-1.50042	1.32586	0.18488	0.835733
gene1578	gene1578	SACOL1612	gi 57650036 ref NC_002951.2 :1641974-1643235	MR150	M36C05	OK	14.2971	8.13945	-0.812716	0.932258	0.3512	0.999883
gene1579	gene1579	SACOL1613	gi 57650036 ref NC_002951.2 :1643276-1644062	MR150	M36C05	OK	22.9919	13.1778	-0.80302	1.1763	0.23948	0.910714
gene158	gene158	SACOL0164	gi 57650036 ref NC_002951.2 :182957-190133	MR150	M36C05	OK	24.4419	16.0294	-0.608637	0.710907	0.47714	0.999883
gene1580	gene1580	nfo	gi 57650036 ref NC_002951.2 :1644187-1645078	MR150	M36C05	OK	75.1198	32.4013	-1.21314	1.6523	0.09847	0.633472
gene1581	gene1581	SACOL1615	gi 57650036 ref NC_002951.2 :1645087-1646434	MR150	M36C05	OK	54.2113	29.5056	-0.877604	1.16144	0.24547	0.919205
gene1582	gene1582	SACOL1616	gi 57650036 ref NC_002951.2 :1646547-1647648	MR150	M36C05	OK	47.5906	50.9082	0.0972194	-0.129223	0.89718	0.999883
gene1583	gene1583	SACOL1617	gi 57650036 ref NC_002951.2 :1647650-1648328	MR150	M36C05	OK	25.6206	46.8656	0.871225	-1.25717	0.20869	0.885625
gene1584	gene1584	rpoD	gi 57650036 ref NC_002951.2 :1648458-1649565	MR150	M36C05	OK	105.189	173.473	0.721731	-0.854581	0.39278	0.999883
gene1585	gene1585	dnaG	gi 57650036 ref NC_002951.2 :1649788-1651588	MR150	M36C05	OK	83.8594	57.9314	-0.533628	0.63879	0.52296	0.999883
gene1586	gene1586	SACOL1620	gi 57650036 ref NC_002951.2 :1651648-1652467	MR150	M36C05	OK	48.4809	54.3522	0.164922	-0.226972	0.82045	0.999883
gene1587	gene1587	SACOL1621	gi 57650036 ref NC_002951.2 :1652477-1653017	MR150	M36C05	OK	17.1022	15.2636	-0.164085	0.238899	0.81118	0.999883

gene1588	gene1588	glyS	gi 57650036 ref NC_002951.2 :1653435-1654827	MR150	M36C05	OK	233.331	446.672	0.936838	-0.99174	0.32132	0.999883
gene1589	gene1589	SACOL1623	gi 57650036 ref NC_002951.2 :1654976-1655729	MR150	M36C05	OK	102.159	50.4749	-1.01717	1.36627	0.17186	0.817635
gene159	gene159	SACOL0165	gi 57650036 ref NC_002951.2 :190145-190790	MR150	M36C05	OK	50.2221	32.4904	-0.628307	0.904386	0.36579	0.999883
gene1590	gene1590	era	gi 57650036 ref NC_002951.2 :1655750-1656650	MR150	M36C05	OK	75.0295	56.2481	-0.415652	0.551126	0.58155	0.999883
gene1591	gene1591	cdd	gi 57650036 ref NC_002951.2 :1656650-1657055	MR150	M36C05	OK	61.6357	44.5186	-0.469358	0.688397	0.4912	0.999883
gene1592	gene1592	dgkA	gi 57650036 ref NC_002951.2 :1657065-1657410	MR150	M36C05	OK	71.0001	66.16	-0.101862	0.149666	0.88103	0.999883
gene1593	gene1593	SACOL1627	gi 57650036 ref NC_002951.2 :1657412-1657880	MR150	M36C05	OK	90.6984	124.8	0.460472	-0.640203	0.52204	0.999883
gene1594	gene1594	SACOL1628	gi 57650036 ref NC_002951.2 :1657880-1658801	MR150	M36C05	OK	65.1997	130.937	1.00593	-1.27616	0.2019	0.871284
gene1595	gene1595	SACOL1629	gi 57650036 ref NC_002951.2 :1659131-1659830	MR150	M36C05	OK	333.787	459.513	0.461177	-0.518928	0.60381	0.999883
gene1596	gene1596	SACOL1630	gi 57650036 ref NC_002951.2 :1659846-1660836	MR150	M36C05	OK	281.257	409.832	0.543146	-0.592126	0.55377	0.999883
gene1597	gene1597	SACOL1631	gi 57650036 ref NC_002951.2 :1660853-1661561	MR150	M36C05	OK	292.921	338.627	0.20919	-0.240376	0.81004	0.999883
gene1598	gene1598	rpsU	gi 57650036 ref NC_002951.2 :1661780-1661957	MR150	M36C05	OK	9074.96	8648.61	-0.0694227	0.080172	0.9361	0.999883
gene1599	gene1599	SACOL1633	gi 57650036 ref NC_002951.2 :1662249-1663596	MR150	M36C05	OK	57.95	36.3294	-0.673671	0.878856	0.37948	0.999883
gene16	gene16	SACOL0017	gi 57650036 ref NC_002951.2 :22262-22355	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene160	gene160	SACOL0166	gi 57650036 ref NC_002951.2 :191117-191612	MR150	M36C05	OK	34.7391	121.648	1.80808	-2.55115	0.01074	0.174614
gene1600	gene1600	SACOL1634	gi 57650036 ref NC_002951.2 :1663602-1664355	MR150	M36C05	OK	42.6353	25.7362	-0.728249	1.04617	0.29548	0.978474
gene1601	gene1601	prmA	gi 57650036 ref NC_002951.2 :1664356-1665295	MR150	M36C05	OK	130.747	49.2469	-1.40868	1.80574	0.07096	0.522414
gene1602	gene1602	dnaJ	gi 57650036 ref NC_002951.2 :1665298-1666438	MR150	M36C05	OK	93.3518	45.5099	-1.0365	1.32696	0.18452	0.834616
gene1603	gene1603	dnaK	gi 57650036 ref NC_002951.2 :1666573-1668406	MR150	M36C05	OK	964.784	285.825	-1.75507	1.82094	0.06862	0.522414
gene1604	gene1604	grpE	gi 57650036 ref NC_002951.2 :1668474-1669101	MR150	M36C05	OK	527.674	112.186	-2.23375	2.68172	0.00732	0.137988
gene1605	gene1605	hrcA	gi 57650036 ref NC_002951.2 :1669132-1670110	MR150	M36C05	OK	424.354	89.8657	-2.23943	2.58678	0.00969	0.163425
gene1606	gene1606	SACOL1640	gi 57650036 ref NC_002951.2 :1670209-1671367	MR150	M36C05	OK	4.31616	3.33754	-0.370962	0.526704	0.5984	0.999883
gene1607	gene1607	lepA	gi 57650036 ref NC_002951.2 :1671896-1673720	MR150	M36C05	OK	31.5014	17.1021	-0.881244	1.19049	0.23386	0.902618
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	MR150	M36C05	OK	887.499	311.748	-1.50937	2.03946	0.0414	0.396038
gene1609	gene1609	holA	gi 57650036 ref NC_002951.2 :1674361-1675336	MR150	M36C05	OK	16.3997	6.11861	-1.42239	2.06866	0.03858	0.382453
gene161	gene161	argB	gi 57650036 ref NC_002951.2 :191866-192631	MR150	M36C05	OK	1.62586	1.36683	-0.250366	0.284961	0.77567	0.999883
gene1610	gene1610	SACOL1644	gi 57650036 ref NC_002951.2 :1675392-1677540	MR150	M36C05	OK	4.32474	6.16643	0.511822	-0.751223	0.45252	0.999883
gene1611	gene1611	SACOL1645	gi 57650036 ref NC_002951.2 :1677598-1678030	MR150	M36C05	OK	40.7923	52.2686	0.357648	-0.524846	0.59969	0.999883
gene1612	gene1612	comEA	gi 57650036 ref NC_002951.2 :1678151-1678838	MR150	M36C05	OK	7.54424	5.89137	-0.356774	0.501823	0.61579	0.999883
gene1613	gene1613	SACOL1647	gi 57650036 ref NC_002951.2 :1678877-1679594	MR150	M36C05	OK	110.155	51.4344	-1.09873	1.47835	0.13931	0.736061
gene1614	gene1614	SACOL1648	gi 57650036 ref NC_002951.2 :1679596-1679950	MR150	M36C05	OK	97.3941	109.758	0.172418	-0.249976	0.80261	0.999883
gene1615	gene1615	SACOL1649	gi 57650036 ref NC_002951.2 :1679950-1681094	MR150	M36C05	OK	67.9788	53.3353	-0.349994	0.356348	0.72158	0.999883
gene1616	gene1616	nadD	gi 57650036 ref NC_002951.2 :1679950-1681094	MR150	M36C05	OK	77.3487	19.3956	-1.99565	1.59954	0.1097	0.659073

gene1617	gene1617	SACOL1651	gi 57650036 ref NC_002951.2 :1681096-1681387	MR150	M36C05	OK	22.8366	5.47979	-2.05915	2.38487	0.01709	0.235517
gene1618	gene1618	aroE	gi 57650036 ref NC_002951.2 :1681390-1682197	MR150	M36C05	OK	41.3671	11.4491	-1.85325	2.66274	0.00775	0.14273
gene1619	gene1619	SACOL1653	gi 57650036 ref NC_002951.2 :1682210-1683311	MR150	M36C05	OK	32.8035	8.68865	-1.91665	2.73369	0.00626	0.123837
gene162	gene162	argJ	gi 57650036 ref NC_002951.2 :192646-193888	MR150	M36C05	OK	1.46976	1.69284	0.203866	-0.264102	0.7917	0.999883
gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	MR150	M36C05	OK	41.9835	14.1392	-1.57012	2.27919	0.02266	0.286641
gene1621	gene1621	mtn	gi 57650036 ref NC_002951.2 :1683858-1684545	MR150	M36C05	OK	26.0905	11.103	-1.23258	1.7983	0.07213	0.527706
gene1622	gene1622	SACOL1656	gi 57650036 ref NC_002951.2 :1684858-1685128	MR150	M36C05	OK	14.741	9.26358	-0.670195	0.784041	0.43302	0.999883
gene1623	gene1623	SACOL1657	gi 57650036 ref NC_002951.2 :1685329-1686034	MR150	M36C05	OK	2.72833	3.71451	0.445156	-0.573791	0.56611	0.999883
gene1624	gene1624	SACOL1658	gi 57650036 ref NC_002951.2 :1686495-1687716	MR150	M36C05	OK	11.5498	16.413	0.506971	-0.738513	0.4602	0.999883
gene1625	gene1625	SACOL1659	gi 57650036 ref NC_002951.2 :1688004-1689234	MR150	M36C05	OK	36.5771	22.2635	-0.71626	0.991677	0.32136	0.999883
gene1626	gene1626	SACOL1660	gi 57650036 ref NC_002951.2 :1689246-1691360	MR150	M36C05	OK	26.301	20.1501	-0.384334	0.26396	0.79181	0.999883
gene1627	gene1627	SACOL1661	gi 57650036 ref NC_002951.2 :1689246-1691360	MR150	M36C05	OK	35.0594	24.8554	-0.496242	0.559947	0.57552	0.999883
gene1628	gene1628	SACOL1662	gi 57650036 ref NC_002951.2 :1691373-1691823	MR150	M36C05	OK	12.8341	17.6532	0.459953	-0.654527	0.51277	0.999883
gene1629	gene1629	SACOL1663	gi 57650036 ref NC_002951.2 :1691824-1693559	MR150	M36C05	OK	27.3788	24.2027	-0.177893	0.210425	0.83334	0.999883
gene163	gene163	argC	gi 57650036 ref NC_002951.2 :193899-194931	MR150	M36C05	OK	1.47245	1.98802	0.433118	-0.547174	0.58426	0.999883
gene1630	gene1630	SACOL1664	gi 57650036 ref NC_002951.2 :1691824-1693559	MR150	M36C05	OK	17.742	12.1675	-0.544134	0.394674	0.69308	0.999883
gene1631	gene1631	greA	gi 57650036 ref NC_002951.2 :1693884-1694361	MR150	M36C05	OK	225.222	243.519	0.112688	-0.143941	0.88555	0.999883
gene1632	gene1632	udk	gi 57650036 ref NC_002951.2 :1694388-1696280	MR150	M36C05	OK	72.2017	57.2719	-0.334206	0.281951	0.77798	0.999883
gene1633	gene1633	SACOL1667	gi 57650036 ref NC_002951.2 :1694388-1696280	MR150	M36C05	OK	51.2888	17.1192	-1.58303	1.46828	0.14203	0.740572
gene1634	gene1634	SACOL1668	gi 57650036 ref NC_002951.2 :1696291-1697215	MR150	M36C05	OK	37.6465	13.8619	-1.44139	2.06453	0.03897	0.38357
gene1635	gene1635	SACOL1669	gi 57650036 ref NC_002951.2 :1697217-1697856	MR150	M36C05	OK	19.1776	5.0283	-1.93128	2.71681	0.00659	0.128232
gene1636	gene1636	SACOL1670	gi 57650036 ref NC_002951.2 :1698140-1698449	MR150	M36C05	OK	1313.88	2377.21	0.855436	-0.957782	0.33817	0.999883
gene1637	gene1637	SACOL1671	gi 57650036 ref NC_002951.2 :1698463-1698892	MR150	M36C05	OK	315.883	671.415	1.08781	-1.30958	0.19034	0.850301
gene1638	gene1638	SACOL1672	gi 57650036 ref NC_002951.2 :1698895-1699156	MR150	M36C05	OK	296.894	833.282	1.48886	-2.00372	0.0451	0.41578
gene1639	gene1639	alaS	gi 57650036 ref NC_002951.2 :1699218-1701849	MR150	M36C05	OK	76.9997	48.8643	-0.656072	0.75981	0.44737	0.999883
gene164	gene164	rocD1	gi 57650036 ref NC_002951.2 :194969-196154	MR150	M36C05	OK	2.17668	1.56702	-0.474106	0.622647	0.53352	0.999883
gene1640	gene1640	SACOL1674	gi 57650036 ref NC_002951.2 :1702191-1704669	MR150	M36C05	OK	27.5695	17.6566	-0.642863	0.842974	0.39924	0.999883
gene1641	gene1641	SACOL1675	gi 57650036 ref NC_002951.2 :1704670-1705339	MR150	M36C05	OK	34.9246	14.5888	-1.25938	1.83589	0.06637	0.515048
gene1642	gene1642	mnmA	gi 57650036 ref NC_002951.2 :1705800-1706919	MR150	M36C05	OK	68.9885	62.0277	-0.153443	0.197672	0.8433	0.999883
gene1643	gene1643	SACOL1677	gi 57650036 ref NC_002951.2 :1706919-1708062	MR150	M36C05	OK	38.1639	51.3279	0.427535	-0.571885	0.5674	0.999883
gene1644	gene1644	SACOL1678	gi 57650036 ref NC_002951.2 :1708373-1709387	MR150	M36C05	OK	84.6558	219.866	1.37694	-1.64752	0.09945	0.636933
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	MR150	M36C05	OK	31.5869	2298.48	6.18521	-4.89681	9.74E-07	0.0001163
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	MR150	M36C05	OK	7.56139	348.89	5.52798	-4.37753	1.20E-05	0.0009241

gene1647	gene1647	SACOL1681	gi 57650036 ref NC_002951.2 :1710091-1710514	MR150	M36C05	OK	152.538	206.01	0.433543	-0.582983	0.5599	0.999883
gene1648	gene1648	SACOL1682	gi 57650036 ref NC_002951.2 :1710598-1711873	MR150	M36C05	OK	93.0299	97.1166	0.0620233	-0.075042	0.94018	0.999883
gene1649	gene1649	SACOL1683	gi 57650036 ref NC_002951.2 :1712033-1712807	MR150	M36C05	OK	37.3423	13.0693	-1.51463	2.19253	0.02834	0.319082
gene165	gene165	brnQ1	gi 57650036 ref NC_002951.2 :196406-197762	MR150	M36C05	OK	29.9419	11.634	-1.36382	1.92259	0.05453	0.462964
gene1650	gene1650	aspS	gi 57650036 ref NC_002951.2 :1713267-1715034	MR150	M36C05	OK	32.4515	11.324	-1.5189	2.08525	0.03705	0.369812
gene1651	gene1651	hisS	gi 57650036 ref NC_002951.2 :1715049-1716312	MR150	M36C05	OK	17.2888	6.0152	-1.52315	2.21233	0.02694	0.309278
gene1652	gene1652	SACOL1687	gi 57650036 ref NC_002951.2 :1716772-1718097	MR150	M36C05	OK	52.776	87.7794	0.733999	-0.721301	0.47072	0.999883
gene1653	gene1653	SACOL1688	gi 57650036 ref NC_002951.2 :1716772-1718097	MR150	M36C05	OK	70.6644	172.712	1.28931	-0.992856	0.32078	0.999883
gene1654	gene1654	relA2	gi 57650036 ref NC_002951.2 :1718108-1720298	MR150	M36C05	OK	62.0397	105.939	0.771963	-0.886429	0.37539	0.999883
gene1655	gene1655	apt	gi 57650036 ref NC_002951.2 :1720725-1721244	MR150	M36C05	OK	47.4813	23.8844	-0.991294	1.44886	0.14738	0.743774
gene1656	gene1656	recJ	gi 57650036 ref NC_002951.2 :1721265-1723539	MR150	M36C05	OK	14.9188	11.2645	-0.405349	0.566855	0.57081	0.999883
gene1657	gene1657	SACOL1692	gi 57650036 ref NC_002951.2 :1723741-1726021	MR150	M36C05	OK	93.5995	66.8091	-0.486457	0.557347	0.57729	0.999883
gene1658	gene1658	yajC	gi 57650036 ref NC_002951.2 :1726295-1726556	MR150	M36C05	OK	363.543	289.837	-0.326886	0.460911	0.64486	0.999883
gene1659	gene1659	tgt	gi 57650036 ref NC_002951.2 :1726574-1727714	MR150	M36C05	OK	60.7682	13.9579	-2.12223	2.90968	0.00362	0.0872791
gene166	gene166	entB	gi 57650036 ref NC_002951.2 :198037-198535	MR150	M36C05	OK	13.3457	24.4555	0.873789	-1.26617	0.20545	0.877717
gene1660	gene1660	queA	gi 57650036 ref NC_002951.2 :1727736-1728762	MR150	M36C05	OK	32.9998	11.6144	-1.50655	2.15825	0.03091	0.336223
gene1661	gene1661	ruvB	gi 57650036 ref NC_002951.2 :1728763-1729768	MR150	M36C05	OK	50.0295	37.8078	-0.404095	0.550377	0.58206	0.999883
gene1662	gene1662	ruvA	gi 57650036 ref NC_002951.2 :1729799-1730402	MR150	M36C05	OK	48.2348	24.1049	-1.00075	1.45418	0.1459	0.743774
gene1663	gene1663	SACOL1698	gi 57650036 ref NC_002951.2 :1730415-1730874	MR150	M36C05	OK	23.604	18.3227	-0.365396	0.531265	0.59524	0.999883
gene1664	gene1664	obgE	gi 57650036 ref NC_002951.2 :1730883-1732176	MR150	M36C05	OK	61.3725	47.8084	-0.360329	0.464745	0.64211	0.999883
gene1665	gene1665	rpmA	gi 57650036 ref NC_002951.2 :1732530-1732815	MR150	M36C05	OK	1497.3	686.172	-1.12572	1.36844	0.17118	0.816303
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	MR150	M36C05	OK	201.55	65.371	-1.62442	2.33457	0.01957	0.257448
gene1667	gene1667	rplU	gi 57650036 ref NC_002951.2 :1733152-1733461	MR150	M36C05	OK	651.009	214.899	-1.59902	2.1193	0.03407	0.353699
gene1668	gene1668	SACOL1703	gi 57650036 ref NC_002951.2 :1733627-1735000	MR150	M36C05	OK	19.4152	12.343	-0.65349	0.460459	0.64519	0.999883
gene1669	gene1669	mreC	gi 57650036 ref NC_002951.2 :1733627-1735000	MR150	M36C05	OK	29.7656	20.4137	-0.544108	0.674165	0.50021	0.999883
gene167	gene167	ipdC	gi 57650036 ref NC_002951.2 :198661-200302	MR150	M36C05	OK	10.2038	26.9242	1.39979	-1.95782	0.05025	0.441055
gene1670	gene1670	SACOL1705	gi 57650036 ref NC_002951.2 :1735392-1735866	MR150	M36C05	OK	31.2492	38.6788	0.307725	-0.452232	0.6511	0.999883
gene1671	gene1671	SACOL1706	gi 57650036 ref NC_002951.2 :1736339-1736624	MR150	M36C05	OK	246.878	124.549	-0.987084	1.42162	0.15514	0.769852
gene1672	gene1672	radC	gi 57650036 ref NC_002951.2 :1736691-1738082	MR150	M36C05	OK	6.60121	3.17227	-1.05721	1.08297	0.27882	0.965014
gene1673	gene1673	SACOL1708	gi 57650036 ref NC_002951.2 :1736691-1738082	MR150	M36C05	OK	5.1231	3.25812	-0.652975	0.647957	0.51701	0.999883
gene1674	gene1674	folC	gi 57650036 ref NC_002951.2 :1738351-1739623	MR150	M36C05	OK	53.7168	55.8416	0.055966	-0.072292	0.94237	0.999883
gene1675	gene1675	valS	gi 57650036 ref NC_002951.2 :1739635-1742266	MR150	M36C05	OK	53.6856	67.857	0.337964	-0.392039	0.69503	0.999883
gene1676	gene1676	SACOL1711	gi 57650036 ref NC_002951.2 :1742668-1743229	MR150	M36C05	OK	108.101	103.681	-0.060226	0.081296	0.93521	0.999883

gene1677	gene1677	SACOL1712	gi 57650036 ref NC_002951.2 :1743451-1744525	MR150	M36C05	OK	37.8464	65.0983	0.782464	-1.04209	0.29737	0.9791
gene1678	gene1678	hemL1	gi 57650036 ref NC_002951.2 :1744720-1746007	MR150	M36C05	OK	30.4329	20.9937	-0.535677	0.747131	0.45498	0.999883
gene1679	gene1679	hemB	gi 57650036 ref NC_002951.2 :1746054-1747029	MR150	M36C05	OK	21.5369	17.2175	-0.322936	0.469685	0.63858	0.999883
gene168	gene168	SACOL0174	gi 57650036 ref NC_002951.2 :200495-202621	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1680	gene1680	hemD	gi 57650036 ref NC_002951.2 :1747031-1747700	MR150	M36C05	OK	6.20156	3.29425	-0.912683	1.21823	0.22314	0.89446
gene1681	gene1681	hemC	gi 57650036 ref NC_002951.2 :1747721-1748648	MR150	M36C05	OK	28.8556	8.79856	-1.71351	2.47829	0.0132	0.19821
gene1682	gene1682	SACOL1718	gi 57650036 ref NC_002951.2 :1748689-1749505	MR150	M36C05	OK	33.8035	17.7282	-0.931126	1.34891	0.17737	0.821737
gene1683	gene1683	hemA	gi 57650036 ref NC_002951.2 :1749526-1750873	MR150	M36C05	OK	269.988	288.617	0.096259	-0.103179	0.91782	0.999883
gene1684	gene1684	engB	gi 57650036 ref NC_002951.2 :1751089-1751680	MR150	M36C05	OK	18.7893	7.62321	-1.30144	1.86252	0.06253	0.504373
gene1685	gene1685	clpX	gi 57650036 ref NC_002951.2 :1751833-1753096	MR150	M36C05	OK	277.629	219.555	-0.338575	0.369914	0.71145	0.999883
gene1686	gene1686	tig	gi 57650036 ref NC_002951.2 :1753246-1754548	MR150	M36C05	OK	384.964	199.474	-0.948519	1.0222	0.30669	0.991033
gene1687	gene1687	SACOL1723	gi 57650036 ref NC_002951.2 :1754710-1755640	MR150	M36C05	OK	28.5274	21.7548	-0.391011	0.563318	0.57322	0.999883
gene1688	gene1688	SACOL1724	gi 57650036 ref NC_002951.2 :1755658-1756267	MR150	M36C05	OK	23.5768	26.4495	0.165871	-0.24369	0.80747	0.999883
gene1689	gene1689	rplT	gi 57650036 ref NC_002951.2 :1756408-1756765	MR150	M36C05	OK	428.628	64.9686	-2.72191	3.69683	0.00022	0.0105329
gene169	gene169	SACOL0175	gi 57650036 ref NC_002951.2 :200495-202621	MR150	M36C05	OK	13.9399	11.4027	-0.289841	0.410725	0.68127	0.999883
gene1690	gene1690	rpmI	gi 57650036 ref NC_002951.2 :1756811-1757012	MR150	M36C05	OK	151.746	31.4399	-2.27099	2.93743	0.00331	0.082366
gene1691	gene1691	infC	gi 57650036 ref NC_002951.2 :1757040-1757568	MR150	M36C05	OK	157.672	33.3282	-2.24211	3.09775	0.00195	0.0569023
gene1692	gene1692	SACOL1728	gi 57650036 ref NC_002951.2 :1757796-1759290	MR150	M36C05	OK	12.5463	52.8993	2.07599	-2.8043	0.00504	0.10765
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	MR150	M36C05	OK	138.365	25.2379	-2.45482	2.9464	0.00321	0.0816379
gene1694	gene1694	dnaI	gi 57650036 ref NC_002951.2 :1762065-1764386	MR150	M36C05	OK	112.772	87.0361	-0.373725	0.287726	0.77356	0.999883
gene1695	gene1695	SACOL1732	gi 57650036 ref NC_002951.2 :1762065-1764386	MR150	M36C05	OK	74.9839	70.8581	-0.0816478	0.069555	0.94455	0.999883
gene1696	gene1696	nrdR	gi 57650036 ref NC_002951.2 :1764386-1764857	MR150	M36C05	OK	186.172	177.195	-0.0713012	0.093801	0.92527	0.999883
gene1697	gene1697	gapA2	gi 57650036 ref NC_002951.2 :1765066-1766092	MR150	M36C05	OK	777.35	524.249	-0.568312	0.588322	0.55632	0.999883
gene1698	gene1698	coaE	gi 57650036 ref NC_002951.2 :1766261-1766885	MR150	M36C05	OK	80.5049	52.3257	-0.621558	0.866377	0.38628	0.999883
gene1699	gene1699	fpg	gi 57650036 ref NC_002951.2 :1766900-1767773	MR150	M36C05	OK	47.0958	41.1356	-0.195209	0.27058	0.78671	0.999883
gene17	gene17	purA	gi 57650036 ref NC_002951.2 :22464-23748	MR150	M36C05	OK	10.3137	5.18668	-0.991671	1.45019	0.147	0.743774
gene170	gene170	SACOL0176	gi 57650036 ref NC_002951.2 :203206-205158	MR150	M36C05	OK	19.6788	14.8137	-0.409703	0.472802	0.63635	0.999883
gene1700	gene1700	polA	gi 57650036 ref NC_002951.2 :1767788-1770419	MR150	M36C05	OK	55.2608	65.9079	0.254194	-0.294857	0.7681	0.999883
gene1701	gene1701	SACOL1738	gi 57650036 ref NC_002951.2 :1770712-1772200	MR150	M36C05	OK	7.61039	3.1665	-1.26508	1.83571	0.0664	0.515048
gene1702	gene1702	SACOL1739	gi 57650036 ref NC_002951.2 :1772698-1775064	MR150	M36C05	OK	113.331	44.765	-1.3401	1.28815	0.19769	0.861357
gene1703	gene1703	phoP	gi 57650036 ref NC_002951.2 :1772698-1775064	MR150	M36C05	OK	104.283	78.0047	-0.418867	0.260067	0.79481	0.999883
gene1704	gene1704	icd	gi 57650036 ref NC_002951.2 :1775453-1776722	MR150	M36C05	OK	1064.74	1702.54	0.677182	-0.699254	0.48439	0.999883
gene1705	gene1705	gltA	gi 57650036 ref NC_002951.2 :1776770-1777892	MR150	M36C05	OK	720.86	912.557	0.340195	-0.347843	0.72796	0.999883

gene1706	gene1706	SACOL1743	gi 57650036 ref NC_002951.2 :1778239-1779601	MR150	M36C05	OK	201.789	225.975	0.163317	-0.179418	0.85761	0.999883
gene1707	gene1707	SACOL1744	gi 57650036 ref NC_002951.2 :1779633-1781285	MR150	M36C05	NOTEST	0.52743	0.835	0.662814	-0.773993	0.43894	1
gene1708	gene1708	pyk	gi 57650036 ref NC_002951.2 :1781925-1783683	MR150	M36C05	OK	125.05	112.48	-0.152845	0.172971	0.86267	0.999883
gene1709	gene1709	pfkA	gi 57650036 ref NC_002951.2 :1783704-1784673	MR150	M36C05	OK	48.7862	56.3581	0.208151	-0.279391	0.77995	0.999883
gene171	gene171	murQ	gi 57650036 ref NC_002951.2 :203206-205158	MR150	M36C05	OK	14.2184	7.87789	-0.85188	0.700107	0.48386	0.999883
gene1710	gene1710	accA	gi 57650036 ref NC_002951.2 :1784941-1786743	MR150	M36C05	OK	51.1792	26.3493	-0.957791	0.923128	0.35594	0.999883
gene1711	gene1711	accD	gi 57650036 ref NC_002951.2 :1784941-1786743	MR150	M36C05	OK	47.9361	25.8147	-0.892919	0.790976	0.42896	0.999883
gene1712	gene1712	SACOL1749	gi 57650036 ref NC_002951.2 :1786937-1788167	MR150	M36C05	OK	37.0231	23.6549	-0.646285	0.892003	0.37239	0.999883
gene1713	gene1713	dnaE	gi 57650036 ref NC_002951.2 :1788616-1791814	MR150	M36C05	OK	59.0155	27.8958	-1.08104	1.28092	0.20022	0.868707
gene1714	gene1714	SACOL1751	gi 57650036 ref NC_002951.2 :1791834-1792776	MR150	M36C05	OK	69.7529	37.1573	-0.908608	1.22711	0.21978	0.89416
gene1715	gene1715	SACOL1752	gi 57650036 ref NC_002951.2 :1793036-1794335	MR150	M36C05	OK	37.0685	36.513	-0.0217822	0.029228	0.97668	0.999883
gene1716	gene1716	SACOL1753	gi 57650036 ref NC_002951.2 :1794539-1794953	MR150	M36C05	OK	564.035	361.602	-0.641383	0.780495	0.4351	0.999883
gene1717	gene1717	SACOL1754	gi 57650036 ref NC_002951.2 :1795257-1795946	MR150	M36C05	OK	58.2289	237.171	2.02612	-2.59391	0.00949	0.161634
gene1718	gene1718	pepQ	gi 57650036 ref NC_002951.2 :1796120-1797176	MR150	M36C05	OK	35.2429	42.7666	0.279155	-0.382341	0.70221	0.999883
gene1719	gene1719	SACOL1757	gi 57650036 ref NC_002951.2 :1797269-1797368	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene172	gene172	SACOL0178	gi 57650036 ref NC_002951.2 :205169-206624	MR150	M36C05	OK	23.1873	16.6005	-0.48211	0.679305	0.49694	0.999883
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	MR150	M36C05	OK	318.613	75.3451	-2.08022	2.4201	0.01552	0.219316
gene1721	gene1721	SACOL1759	gi 57650036 ref NC_002951.2 :1798750-1799251	MR150	M36C05	OK	1138.87	1668.79	0.5512	-0.578783	0.56274	0.999883
gene1722	gene1722	ackA	gi 57650036 ref NC_002951.2 :1799496-1800699	MR150	M36C05	OK	224.299	157.845	-0.506918	0.572442	0.56702	0.999883
gene1723	gene1723	SACOL1761	gi 57650036 ref NC_002951.2 :1800786-1801734	MR150	M36C05	OK	106.861	202.134	0.919575	-1.10235	0.27031	0.953794
gene1724	gene1724	tpx	gi 57650036 ref NC_002951.2 :1801856-1802351	MR150	M36C05	OK	773.593	973.56	0.331695	-0.363285	0.71639	0.999883
gene1725	gene1725	SACOL1763	gi 57650036 ref NC_002951.2 :1802448-1803219	MR150	M36C05	OK	9.65271	4.83017	-0.99886	1.41815	0.15615	0.771878
gene1726	gene1726	thiI	gi 57650036 ref NC_002951.2 :1803262-1805625	MR150	M36C05	OK	9.57172	5.59851	-0.773736	0.875832	0.38112	0.999883
gene1727	gene1727	SACOL1765	gi 57650036 ref NC_002951.2 :1803262-1805625	MR150	M36C05	OK	7.16837	3.87068	-0.889057	0.818114	0.41329	0.999883
gene1728	gene1728	SACOL1766	gi 57650036 ref NC_002951.2 :1805782-1805923	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1729	gene1729	SACOL1767	gi 57650036 ref NC_002951.2 :1805996-1807691	MR150	M36C05	OK	127.245	130.05	0.0314605	-0.035456	0.97172	0.999883
gene173	gene173	SACOL0179	gi 57650036 ref NC_002951.2 :206626-207502	MR150	M36C05	OK	16.082	11.0948	-0.535562	0.786443	0.43161	0.999883
gene1730	gene1730	SACOL1768	gi 57650036 ref NC_002951.2 :1807827-1808292	MR150	M36C05	OK	10.3831	9.99649	-0.0547499	0.075711	0.93965	0.999883
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	MR150	M36C05	OK	412.464	66.8362	-2.62557	3.28932	0.001	0.0347762
gene1732	gene1732	SACOL1770	gi 57650036 ref NC_002951.2 :1809353-1810097	MR150	M36C05	OK	2.53287	2.23092	-0.183129	0.227782	0.81982	0.999883
gene1733	gene1733	SACOL1771	gi 57650036 ref NC_002951.2 :1810176-1810623	MR150	M36C05	OK	12.3698	66.1029	2.41789	-3.44409	0.00057	0.0226599
gene1734	gene1734	SACOL1772	gi 57650036 ref NC_002951.2 :1810736-1813488	MR150	M36C05	OK	11.1551	51.3982	2.20401	-1.79655	0.07241	0.527706
gene1735	gene1735	serA	gi 57650036 ref NC_002951.2 :1810736-1813488	MR150	M36C05	OK	13.4086	44.2459	1.72239	-1.69381	0.0903	0.602864

gene1736	gene1736	SACOL1774	gi 57650036 ref NC_002951.2 :1813637-1814768	MR150	M36C05	OK	34.8723	46.8976	0.427435	-0.577796	0.5634	0.999883
gene1737	gene1737	SACOL1775	gi 57650036 ref NC_002951.2 :1814874-1816341	MR150	M36C05	OK	35.056	16.5301	-1.08456	1.49295	0.13545	0.730357
gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	MR150	M36C05	OK	46.8717	14.2598	-1.71676	2.48607	0.01292	0.195099
gene1739	gene1739	SACOL1777	gi 57650036 ref NC_002951.2 :1817257-1818532	MR150	M36C05	OK	30.7725	51.9938	0.756696	-1.00878	0.31308	0.994633
gene174	gene174	SACOL0180	gi 57650036 ref NC_002951.2 :208189-210979	MR150	M36C05	OK	15.4365	8.29628	-0.895806	1.23916	0.21529	0.89416
gene1740	gene1740	tyrS	gi 57650036 ref NC_002951.2 :1818625-1819888	MR150	M36C05	OK	23.1958	5.80778	-1.9978	2.86861	0.00412	0.0948257
gene1741	gene1741	SACOL1779	gi 57650036 ref NC_002951.2 :1820269-1821175	MR150	M36C05	OK	20.8211	15.3093	-0.443642	0.648593	0.5166	0.999883
gene1742	gene1742	SACOL1781	gi 57650036 ref NC_002951.2 :1821377-1824065	MR150	M36C05	OK	5.3564	4.20753	-0.34829	0.510182	0.60992	0.999883
gene1743	gene1743	fhs	gi 57650036 ref NC_002951.2 :1824398-1826066	MR150	M36C05	OK	402.735	226.371	-0.831146	0.870703	0.38392	0.999883
gene1744	gene1744	acs	gi 57650036 ref NC_002951.2 :1826505-1828212	MR150	M36C05	OK	370.87	834.789	1.1705	-1.203	0.22898	0.898537
gene1745	gene1745	acuA	gi 57650036 ref NC_002951.2 :1828380-1829013	MR150	M36C05	OK	68.9347	52.2556	-0.399646	0.56067	0.57502	0.999883
gene1746	gene1746	acuC	gi 57650036 ref NC_002951.2 :1829037-1830207	MR150	M36C05	OK	74.8355	51.4892	-0.539454	0.693986	0.48769	0.999883
gene1747	gene1747	ccpA	gi 57650036 ref NC_002951.2 :1830304-1831294	MR150	M36C05	OK	320.993	321.054	0.0002725	-0.000299	0.99976	0.999883
gene1748	gene1748	SACOL1787	gi 57650036 ref NC_002951.2 :1831833-1832925	MR150	M36C05	OK	58.1998	126.084	1.11529	-1.39252	0.16377	0.793541
gene1749	gene1749	SACOL1788	gi 57650036 ref NC_002951.2 :1833624-1835142	MR150	M36C05	OK	66.0053	361.875	2.45484	-2.75839	0.00581	0.118414
gene175	gene175	SACOL0181	gi 57650036 ref NC_002951.2 :211183-212026	MR150	M36C05	OK	54.7686	35.6811	-0.618192	0.859089	0.39029	0.999883
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	MR150	M36C05	OK	383.945	2228.77	2.53728	-2.79327	0.00522	0.110421
gene1751	gene1751	murC	gi 57650036 ref NC_002951.2 :1835780-1837094	MR150	M36C05	OK	94.1734	59.2763	-0.667864	0.827488	0.40796	0.999883
gene1752	gene1752	SACOL1791	gi 57650036 ref NC_002951.2 :1837117-1840942	MR150	M36C05	OK	53.7532	33.3127	-0.690278	0.796954	0.42548	0.999883
gene1753	gene1753	SACOL1792	gi 57650036 ref NC_002951.2 :1840962-1841559	MR150	M36C05	OK	37.0114	19.4646	-0.927112	1.35599	0.1751	0.821477
gene1754	gene1754	SACOL1793	gi 57650036 ref NC_002951.2 :1841587-1842445	MR150	M36C05	OK	42.8167	19.6125	-1.1264	1.60679	0.1081	0.653986
gene1755	gene1755	SACOL1794	gi 57650036 ref NC_002951.2 :1842544-1842856	MR150	M36C05	OK	173.933	223.179	0.359667	-0.509348	0.61051	0.999883
gene1756	gene1756	pepA1	gi 57650036 ref NC_002951.2 :1842920-1843997	MR150	M36C05	OK	92.3718	92.5355	0.00255504	-0.003179	0.99746	0.999883
gene1757	gene1757	SACOL1796	gi 57650036 ref NC_002951.2 :1844083-1844395	MR150	M36C05	OK	436.766	396.143	-0.14084	0.185216	0.85306	0.999883
gene1758	gene1758	SACOL1797	gi 57650036 ref NC_002951.2 :1844519-1845296	MR150	M36C05	OK	22.8196	30.5912	0.42284	-0.614302	0.53902	0.999883
gene1759	gene1759	trmB	gi 57650036 ref NC_002951.2 :1845831-1846476	MR150	M36C05	OK	130.371	73.6615	-0.82364	1.09622	0.27298	0.958372
gene176	gene176	SACOL0182	gi 57650036 ref NC_002951.2 :212027-214050	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1760	gene1760	SACOL1799	gi 57650036 ref NC_002951.2 :1846490-1847282	MR150	M36C05	OK	135.003	94.8487	-0.509286	0.647534	0.51729	0.999883
gene1761	gene1761	dat	gi 57650036 ref NC_002951.2 :1847831-1848680	MR150	M36C05	OK	120.321	144.462	0.263798	-0.326075	0.74437	0.999883
gene1762	gene1762	SACOL1801	gi 57650036 ref NC_002951.2 :1848683-1850093	MR150	M36C05	OK	68.9836	104.949	0.605369	-0.731501	0.46447	0.999883
gene1763	gene1763	SACOL1802	gi 57650036 ref NC_002951.2 :1851012-1851435	MR150	M36C05	OK	26.6771	226.759	3.08749	-4.26223	2.02E-05	0.0014283
gene1764	gene1764	SACOL1803	gi 57650036 ref NC_002951.2 :1851451-1853805	MR150	M36C05	OK	33.0249	15.3506	-1.10526	0.679548	0.49679	0.999883
gene1765	gene1765	SACOL1804	gi 57650036 ref NC_002951.2 :1851451-1853805	MR150	M36C05	OK	37.5054	19.4506	-0.947286	1.09363	0.27412	0.958813

gene1766	gene1766	SACOL1805	gi 57650036 ref NC_002951.2 :1854211-1855480	MR150	M36C05	OK	17.335	8.35336	-1.05326	1.53294	0.12529	0.701256
gene1767	gene1767	SACOL1806	gi 57650036 ref NC_002951.2 :1855596-1862157	MR150	M36C05	OK	2.38426	2.80577	0.234855	-0.340254	0.73367	0.999883
gene1768	gene1768	SACOL1807	gi 57650036 ref NC_002951.2 :1862482-1862794	MR150	M36C05	OK	29.6331	7.4393	-1.99397	2.51941	0.01176	0.184977
gene1769	gene1769	leuS	gi 57650036 ref NC_002951.2 :1862815-1865233	MR150	M36C05	OK	19.2681	11.1788	-0.785454	1.07654	0.28169	0.965951
gene177	gene177	SACOL0183	gi 57650036 ref NC_002951.2 :212027-214050	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1770	gene1770	SACOL1809	gi 57650036 ref NC_002951.2 :1865520-1866702	MR150	M36C05	OK	30.4107	8.30816	-1.87198	2.66894	0.00761	0.141199
gene1771	gene1771	SACOL1810	gi 57650036 ref NC_002951.2 :1866811-1868325	MR150	M36C05	OK	30.2599	52.3614	0.791097	-0.858579	0.39057	0.999883
gene1772	gene1772	SACOL1811	gi 57650036 ref NC_002951.2 :1866811-1868325	MR150	M36C05	OK	25.6466	61.8771	1.27064	-0.961462	0.33632	0.999883
gene1773	gene1773	rot	gi 57650036 ref NC_002951.2 :1868444-1868945	MR150	M36C05	OK	213.951	681.236	1.67087	-1.99043	0.04654	0.424224
gene1774	gene1774	SACOL1813	gi 57650036 ref NC_002951.2 :1869365-1870078	MR150	M36C05	OK	0.89527	2.79614	1.64304	-1.79848	0.0721	0.527706
gene1775	gene1775	SACOL1814	gi 57650036 ref NC_002951.2 :1870424-1871252	MR150	M36C05	OK	110.202	116.454	0.0796108	-0.100612	0.91986	0.999883
gene1776	gene1776	SACOL1815	gi 57650036 ref NC_002951.2 :1871254-1871374	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1777	gene1777	putA	gi 57650036 ref NC_002951.2 :1871485-1872487	MR150	M36C05	OK	117.236	125.948	0.103416	-0.125844	0.89986	0.999883
gene1778	gene1778	ribH	gi 57650036 ref NC_002951.2 :1872608-1873073	MR150	M36C05	OK	8.07578	7.08085	-0.189679	0.252955	0.8003	0.999883
gene1779	gene1779	ribBA	gi 57650036 ref NC_002951.2 :1873085-1874267	MR150	M36C05	OK	4.36666	7.85907	0.847827	-1.23214	0.2179	0.89416
gene178	gene178	SACOL0184	gi 57650036 ref NC_002951.2 :214314-215907	MR150	M36C05	OK	9.67574	6.0136	-0.686142	1.00542	0.31469	0.998438
gene1780	gene1780	ribE	gi 57650036 ref NC_002951.2 :1874277-1874910	MR150	M36C05	OK	4.24214	5.60792	0.402674	-0.540197	0.58906	0.999883
gene1781	gene1781	ribD	gi 57650036 ref NC_002951.2 :1874916-1875960	MR150	M36C05	OK	3.81024	10.5825	1.47373	-2.11854	0.03413	0.353769
gene1782	gene1782	SACOL1821	gi 57650036 ref NC_002951.2 :1876440-1877943	MR150	M36C05	OK	3.64386	21.4872	2.55994	-3.63381	0.00028	0.0127915
gene1783	gene1783	arsR	gi 57650036 ref NC_002951.2 :1878465-1880072	MR150	M36C05	OK	23.9427	20.9241	-0.194425	0.14525	0.88451	0.999883
gene1784	gene1784	arsB	gi 57650036 ref NC_002951.2 :1878465-1880072	MR150	M36C05	OK	8.68744	5.64825	-0.621127	0.781792	0.43434	0.999883
gene1785	gene1785	arsC	gi 57650036 ref NC_002951.2 :1880089-1880485	MR150	M36C05	OK	7.75603	9.52357	0.296184	-0.385348	0.69998	0.999883
gene1786	gene1786	SACOL1825	gi 57650036 ref NC_002951.2 :1880779-1881634	MR150	M36C05	OK	247.089	233.061	-0.084324	0.097079	0.92266	0.999883
gene1787	gene1787	SACOL1826	gi 57650036 ref NC_002951.2 :1881909-1882134	MR150	M36C05	OK	235.556	136.575	-0.786373	1.15285	0.24897	0.922459
gene1788	gene1788	SACOL1827	gi 57650036 ref NC_002951.2 :1882332-1882803	MR150	M36C05	OK	12.4115	8.96158	-0.469851	0.652529	0.51406	0.999883
gene1789	gene1789	SACOL1828	gi 57650036 ref NC_002951.2 :1882915-1883789	MR150	M36C05	OK	15.0242	22.1518	0.560139	-0.398688	0.69012	0.999883
gene179	gene179	SACOL0185	gi 57650036 ref NC_002951.2 :216034-217342	MR150	M36C05	OK	5.2525	5.77071	0.135746	-0.198414	0.84272	0.999883
gene1790	gene1790	SACOL1829	gi 57650036 ref NC_002951.2 :1882915-1883789	MR150	M36C05	OK	45.6985	69.1679	0.597955	-0.747549	0.45473	0.999883
gene1791	gene1791	SACOL1830	gi 57650036 ref NC_002951.2 :1884084-1884720	MR150	M36C05	OK	4.21297	3.79722	-0.149895	0.195973	0.84463	0.999883
gene1792	gene1792	tal	gi 57650036 ref NC_002951.2 :1885159-1885873	MR150	M36C05	OK	294.567	1026.97	1.80173	-1.96284	0.04967	0.437791
gene1793	gene1793	crcB	gi 57650036 ref NC_002951.2 :1886612-1887406	MR150	M36C05	OK	5.00806	12.2061	1.28528	-1.28892	0.19743	0.861278
gene1794	gene1794	SACOL1833	gi 57650036 ref NC_002951.2 :1886612-1887406	MR150	M36C05	OK	10.7134	11.2572	0.0714399	-0.068215	0.94561	0.999883
gene1795	gene1795	SACOL1834	gi 57650036 ref NC_002951.2 :1887816-1889426	MR150	M36C05	NOTEST	0.10863	0.46903	2.11031	-1.5752	0.11521	1

gene1796	gene1796	SACOL1835	gi 57650036 ref NC_002951.2 :1889488-1890322	MR150	M36C05	OK	39.848	65.7652	0.722818	-0.991261	0.32156	0.999883
gene1797	gene1797	SACOL1836	gi 57650036 ref NC_002951.2 :1890533-1891442	MR150	M36C05	OK	135.413	102.044	-0.40817	0.506002	0.61286	0.999883
gene1798	gene1798	metK	gi 57650036 ref NC_002951.2 :1891566-1892760	MR150	M36C05	OK	39.1338	14.3081	-1.45158	2.03102	0.04225	0.400763
gene1799	gene1799	pckA	gi 57650036 ref NC_002951.2 :1893130-1894723	MR150	M36C05	OK	558.994	397.927	-0.49033	0.503228	0.6148	0.999883
gene18	gene18	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :24177-24252	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene180	gene180	SACOL0186	gi 57650036 ref NC_002951.2 :217347-218511	MR150	M36C05	OK	3.97158	3.8886	-0.0304602	0.04342	0.96537	0.999883
gene1800	gene1800	SACOL1839	gi 57650036 ref NC_002951.2 :1894858-1895344	MR150	M36C05	OK	114.434	219.28	0.938263	-1.24317	0.21381	0.89416
gene1801	gene1801	SACOL1840	gi 57650036 ref NC_002951.2 :1895718-1896949	MR150	M36C05	OK	8.84832	5.02338	-0.816746	0.913532	0.36096	0.999883
gene1802	gene1802	SACOL1841	gi 57650036 ref NC_002951.2 :1895718-1896949	MR150	M36C05	OK	12.015	7.49176	-0.681453	0.637472	0.52382	0.999883
gene1803	gene1803	SACOL1842	gi 57650036 ref NC_002951.2 :1897008-1898264	MR150	M36C05	OK	798.797	611.902	-0.384529	0.403249	0.68677	0.999883
gene1804	gene1804	SACOL1843	gi 57650036 ref NC_002951.2 :1897008-1898264	MR150	M36C05	OK	27.495	28.3245	0.042883	-0.029559	0.97642	0.999883
gene1805	gene1805	SACOL1844	gi 57650036 ref NC_002951.2 :1898268-1899747	MR150	M36C05	OK	20.3573	28.8716	0.504103	-0.694985	0.48707	0.999883
gene1806	gene1806	SACOL1845	gi 57650036 ref NC_002951.2 :1899905-1900388	MR150	M36C05	OK	10.8075	7.80274	-0.469983	0.646161	0.51818	0.999883
gene1807	gene1807	SACOL1846	gi 57650036 ref NC_002951.2 :1900663-1901314	MR150	M36C05	OK	143.912	312.009	1.1164	-1.35929	0.17406	0.821477
gene1808	gene1808	SACOL1847	gi 57650036 ref NC_002951.2 :1901394-1902390	MR150	M36C05	OK	264.325	489.03	0.88761	-0.961795	0.33615	0.999883
gene1809	gene1809	SACOL1848	gi 57650036 ref NC_002951.2 :1902465-1903092	MR150	M36C05	OK	11.1127	3.36042	-1.7255	2.32561	0.02004	0.260836
gene181	gene181	SACOL0187	gi 57650036 ref NC_002951.2 :218527-220303	MR150	M36C05	OK	3.30437	2.23787	-0.562249	0.80677	0.4198	0.999883
gene1810	gene1810	SACOL1849	gi 57650036 ref NC_002951.2 :1903132-1903477	MR150	M36C05	OK	10.2899	2.23011	-2.20604	2.27576	0.02286	0.287725
gene1811	gene1811	SACOL1850	gi 57650036 ref NC_002951.2 :1903574-1904126	MR150	M36C05	OK	7.39066	2.82307	-1.38844	1.76027	0.07836	0.55661
gene1812	gene1812	SACOL1851	gi 57650036 ref NC_002951.2 :1904343-1904985	MR150	M36C05	OK	6.23375	6.24263	0.00205293	-0.002845	0.99773	0.999883
gene1813	gene1813	SACOL1853	gi 57650036 ref NC_002951.2 :1905285-1905462	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1814	gene1814	SACOL1854	gi 57650036 ref NC_002951.2 :1905472-1905856	MR150	M36C05	OK	16.4821	21.4291	0.378672	-0.535854	0.59206	0.999883
gene1815	gene1815	SACOL1855	gi 57650036 ref NC_002951.2 :1905957-1906735	MR150	M36C05	OK	11.3901	16.0325	0.493223	-0.723938	0.4691	0.999883
gene1816	gene1816	SACOL1857	gi 57650036 ref NC_002951.2 :1907605-1907983	MR150	M36C05	OK	7.65471	5.52918	-0.469282	0.571515	0.56765	0.999883
gene1817	gene1817	SACOL1858	gi 57650036 ref NC_002951.2 :1908503-1909064	MR150	M36C05	OK	2.54355	6.11687	1.26595	-1.57666	0.11487	0.670749
gene1818	gene1818	SACOL1859	gi 57650036 ref NC_002951.2 :1909268-1912319	MR150	M36C05	OK	1.88054	1.19812	-0.65038	0.932554	0.35105	0.999883
gene1819	gene1819	SACOL1860	gi 57650036 ref NC_002951.2 :1912385-1912616	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene182	gene182	ggt	gi 57650036 ref NC_002951.2 :220340-222347	MR150	M36C05	OK	3.39064	4.26924	0.332424	-0.48724	0.62609	0.999883
gene1820	gene1820	hsdS	gi 57650036 ref NC_002951.2 :1913465-1916214	MR150	M36C05	OK	5.9727	7.82774	0.390211	-0.287078	0.77405	0.999883
gene1821	gene1821	hsdM2	gi 57650036 ref NC_002951.2 :1913465-1916214	MR150	M36C05	OK	12.3026	14.6208	0.249065	-0.298952	0.76498	0.999883
gene1822	gene1822	SACOL1863	gi 57650036 ref NC_002951.2 :1916377-1916512	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1823	gene1823	SACOL1864	gi 57650036 ref NC_002951.2 :1916576-1917296	MR150	M36C05	OK	0.88323	1.27312	0.527516	-0.539688	0.58941	0.999883
gene1824	gene1824	SACOL1865	gi 57650036 ref NC_002951.2 :1917446-1918163	MR150	M36C05	OK	1.18447	0.64026	-0.887502	0.852389	0.394	0.999883

gene1825	gene1825	SACOL1866	gi 57650036 ref NC_002951.2 :1918320-1919040	MR150	M36C05	NOTEST	0.58882	0.63656	0.112478	-0.098029	0.92191	1
gene1826	gene1826	splC	gi 57650036 ref NC_002951.2 :1919160-1919880	MR150	M36C05	OK	0.58882	1.06094	0.849444	-0.790196	0.42941	0.999883
gene1827	gene1827	splB	gi 57650036 ref NC_002951.2 :1919937-1920660	MR150	M36C05	OK	0.29272	1.89871	2.69742	-2.05601	0.03978	0.388526
gene1828	gene1828	splA	gi 57650036 ref NC_002951.2 :1920784-1921501	MR150	M36C05	OK	0.59223	1.28052	1.1125	-1.05426	0.29176	0.976184
gene1829	gene1829	SACOL1870	gi 57650036 ref NC_002951.2 :1922464-1923031	MR150	M36C05	OK	1.25102	2.40669	0.94395	-0.994603	0.31993	0.999883
gene183	gene183	SACOL0189	gi 57650036 ref NC_002951.2 :222644-223418	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1830	gene1830	epiG	gi 57650036 ref NC_002951.2 :1923504-1925650	MR150	M36C05	OK	12.8852	161.648	3.64907	-2.39312	0.01671	0.231165
gene1831	gene1831	epiE	gi 57650036 ref NC_002951.2 :1923504-1925650	MR150	M36C05	OK	8.7175	148.014	4.08568	-2.58461	0.00975	0.164078
gene1832	gene1832	epiF	gi 57650036 ref NC_002951.2 :1923504-1925650	MR150	M36C05	OK	15.526	280.457	4.17502	-3.36513	0.00077	0.0282292
gene1833	gene1833	epiP	gi 57650036 ref NC_002951.2 :1925672-1927046	MR150	M36C05	OK	3.65275	68.1696	4.22207	-5.62298	1.88E-08	4.00E-06
gene1834	gene1834	epiD	gi 57650036 ref NC_002951.2 :1927055-1927574	MR150	M36C05	OK	0.95922	2.0769	1.1145	-1.05616	0.2909	0.975616
gene1835	gene1835	epiC	gi 57650036 ref NC_002951.2 :1927589-1931820	MR150	M36C05	OK	0.58622	1.47698	1.33314	-1.23359	0.21736	0.89416
gene1836	gene1836	epiB	gi 57650036 ref NC_002951.2 :1927589-1931820	MR150	M36C05	NOTEST	0.16448	0.67044	2.02722	-1.7436	0.08123	1
gene1837	gene1837	epiA	gi 57650036 ref NC_002951.2 :1931884-1932028	MR150	M36C05	OK	37.5783	74.8453	0.994014	-0.703259	0.48189	0.999883
gene1838	gene1838	SACOL1879	gi 57650036 ref NC_002951.2 :1932919-1934239	MR150	M36C05	NOTEST	0.68372	0.49214	-0.474325	0.506542	0.61248	1
gene1839	gene1839	lukD	gi 57650036 ref NC_002951.2 :1934670-1935654	MR150	M36C05	OK	1.56255	3.51645	1.17021	-1.52383	0.12755	0.707889
gene184	gene184	acpD	gi 57650036 ref NC_002951.2 :223607-224234	MR150	M36C05	OK	56.639	30.2438	-0.905155	1.30081	0.19332	0.855185
gene1840	gene1840	lukE	gi 57650036 ref NC_002951.2 :1935655-1936591	MR150	M36C05	OK	0.62415	2.09779	1.7489	-1.92317	0.05446	0.462964
gene1841	gene1841	SACOL1882	gi 57650036 ref NC_002951.2 :1937390-1937930	MR150	M36C05	OK	2.25029	6.49515	1.52925	-1.85908	0.06302	0.504373
gene1842	gene1842	SACOL1883	gi 57650036 ref NC_002951.2 :1937942-1938731	MR150	M36C05	OK	21.8351	32.2145	0.56106	-0.813824	0.41575	0.999883
gene1843	gene1843	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1939973-1940062	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1844	gene1844	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940116-1940188	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1845	gene1845	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940189-1940264	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1846	gene1846	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940278-1940352	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1847	gene1847	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940367-1940443	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1849	gene1849	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940545-1940621	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene185	gene185	SACOL0191	gi 57650036 ref NC_002951.2 :224442-225021	MR150	M36C05	OK	9.2879	32.3339	1.79962	-2.59219	0.00954	0.161634
gene1850	gene1850	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1940642-1940716	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1851	gene1851	SACOL1885	gi 57650036 ref NC_002951.2 :1941187-1941742	MR150	M36C05	OK	12.0702	14.929	0.306669	-0.443345	0.65752	0.999883
gene1852	gene1852	SACOL1886	gi 57650036 ref NC_002951.2 :1941835-1942063	MR150	M36C05	OK	15.218	21.7698	0.516547	-0.598096	0.54978	0.999883
gene1853	gene1853	hemG	gi 57650036 ref NC_002951.2 :1942064-1943465	MR150	M36C05	OK	27.4176	22.0284	-0.315735	0.437684	0.66162	0.999883
gene1854	gene1854	hemH	gi 57650036 ref NC_002951.2 :1943488-1944412	MR150	M36C05	OK	32.1476	26.2005	-0.295115	0.421514	0.67338	0.999883
gene1855	gene1855	hemE	gi 57650036 ref NC_002951.2 :1944469-1945607	MR150	M36C05	OK	20.4667	21.9747	0.102561	-0.148061	0.88229	0.999883

gene1856	gene1856	SACOL1890	gi 57650036 ref NC_002951.2 :1944469-1945607	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1857	gene1857	SACOL1891	gi 57650036 ref NC_002951.2 :1945769-1946273	MR150	M36C05	OK	72.4607	161.637	1.15749	-1.58219	0.11361	0.667905
gene1858	gene1858	SACOL1892	gi 57650036 ref NC_002951.2 :1946396-1948353	MR150	M36C05	OK	59.8233	60.6146	0.0189595	-0.017455	0.98607	0.999883
gene1859	gene1859	SACOL1893	gi 57650036 ref NC_002951.2 :1946396-1948353	MR150	M36C05	OK	77.822	84.8381	0.124534	-0.096796	0.92289	0.999883
gene186	gene186	SACOL0192	gi 57650036 ref NC_002951.2 :225403-226501	MR150	M36C05	OK	0.5116	2.57848	2.33342	-2.61874	0.00883	0.154274
gene1860	gene1860	SACOL1894	gi 57650036 ref NC_002951.2 :1948486-1948909	MR150	M36C05	OK	96.448	72.1283	-0.419187	0.602924	0.54656	0.999883
gene1861	gene1861	SACOL1895	gi 57650036 ref NC_002951.2 :1949050-1949416	MR150	M36C05	OK	150.792	668.651	2.14869	-2.76939	0.00562	0.116126
gene1862	gene1862	SACOL1896	gi 57650036 ref NC_002951.2 :1950148-1950706	MR150	M36C05	OK	6.41207	5.24297	-0.290404	0.388927	0.69733	0.999883
gene1863	gene1863	SACOL1897	gi 57650036 ref NC_002951.2 :1950910-1951873	MR150	M36C05	OK	48.9689	50.8759	0.0551156	-0.074423	0.94067	0.999883
gene1864	gene1864	cbf1	gi 57650036 ref NC_002951.2 :1951993-1957054	MR150	M36C05	OK	133.108	81.1515	-0.713911	0.338513	0.73498	0.999883
gene1865	gene1865	SACOL1899	gi 57650036 ref NC_002951.2 :1951993-1957054	MR150	M36C05	OK	88.7084	76.8147	-0.207689	0.169279	0.86558	0.999883
gene1866	gene1866	SACOL1900	gi 57650036 ref NC_002951.2 :1951993-1957054	MR150	M36C05	OK	76.189	73.8687	-0.0446202	0.020883	0.98334	0.999883
gene1867	gene1867	SACOL1902	gi 57650036 ref NC_002951.2 :1957825-1958170	MR150	M36C05	OK	786.146	242.339	-1.69777	2.14971	0.03158	0.341092
gene1868	gene1868	SACOL1903	gi 57650036 ref NC_002951.2 :1958238-1959363	MR150	M36C05	OK	24.8338	19.0716	-0.380879	0.545332	0.58553	0.999883
gene1869	gene1869	SACOL1904	gi 57650036 ref NC_002951.2 :1959541-1960006	MR150	M36C05	OK	111.907	10.413	-3.42584	4.74742	2.06E-06	0.0002071
gene187	gene187	SACOL0193	gi 57650036 ref NC_002951.2 :226513-227785	MR150	M36C05	OK	0.71432	2.15962	1.59614	-1.94513	0.05176	0.447556
gene1870	gene1870	SACOL1905	gi 57650036 ref NC_002951.2 :1960361-1960985	MR150	M36C05	OK	19.4945	8.85111	-1.13913	1.64806	0.09934	0.636777
gene1871	gene1871	SACOL1906	gi 57650036 ref NC_002951.2 :1961006-1962119	MR150	M36C05	OK	14.4251	9.54047	-0.596447	0.874353	0.38193	0.999883
gene1872	gene1872	SACOL1907	gi 57650036 ref NC_002951.2 :1962281-1963103	MR150	M36C05	OK	73.3555	32.6311	-1.16865	1.608	0.10783	0.653986
gene1873	gene1873	fumC	gi 57650036 ref NC_002951.2 :1963565-1964951	MR150	M36C05	OK	198.224	104.1	-0.929154	1.06078	0.28879	0.975616
gene1874	gene1874	SACOL1909	gi 57650036 ref NC_002951.2 :1965146-1965542	MR150	M36C05	OK	41.107	8.40315	-2.29038	3.15043	0.00163	0.0497828
gene1875	gene1875	SACOL1910	gi 57650036 ref NC_002951.2 :1965660-1966023	MR150	M36C05	OK	1.84801	2.66989	0.530813	-0.481186	0.63038	0.999883
gene1876	gene1876	SACOL1911	gi 57650036 ref NC_002951.2 :1966318-1966471	MR150	M36C05	OK	569.717	2787.74	2.29078	-3.27937	0.00104	0.035515
gene1877	gene1877	SACOL1912	gi 57650036 ref NC_002951.2 :1966495-1967095	MR150	M36C05	OK	114.029	692.978	2.60341	-3.09447	0.00197	0.057304
gene1878	gene1878	SACOL1913	gi 57650036 ref NC_002951.2 :1967253-1967724	MR150	M36C05	OK	20.8739	15.8864	-0.393902	0.570295	0.56848	0.999883
gene1879	gene1879	SACOL1914	gi 57650036 ref NC_002951.2 :1967728-1968856	MR150	M36C05	OK	35.9751	23.4059	-0.620127	0.866097	0.38644	0.999883
gene188	gene188	SACOL0194	gi 57650036 ref NC_002951.2 :227787-229056	MR150	M36C05	OK	1.28938	3.50635	1.44329	-1.92515	0.05421	0.462646
gene1880	gene1880	SACOL1915	gi 57650036 ref NC_002951.2 :1969006-1971179	MR150	M36C05	OK	27.204	14.1829	-0.939669	0.820559	0.4119	0.999883
gene1881	gene1881	SACOL1916	gi 57650036 ref NC_002951.2 :1969006-1971179	MR150	M36C05	OK	18.5056	8.76235	-1.07857	1.1716	0.24136	0.912589
gene1882	gene1882	SACOL1917	gi 57650036 ref NC_002951.2 :1971436-1972498	MR150	M36C05	OK	47.7887	29.0373	-0.718761	0.986715	0.32378	0.999883
gene1883	gene1883	SACOL1918	gi 57650036 ref NC_002951.2 :1972990-1974310	MR150	M36C05	NOTEST	0.13674	0.49214	1.8476	-1.36323	0.17281	1
gene1884	gene1884	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974496-1974580	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1885	gene1885	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :1974796-1974871	MR150	M36C05	NOTEST	0	0	0	0	1	1

gene1886	gene1886	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1974878-1974952	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1887	gene1887	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1974957-1975029	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1888	gene1888	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975040-1975113	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1889	gene1889	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975115-1975189	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene189	gene189	SACOL0195 gi 57650036 ref NC_002951.2 :229057-229897	MR150	M36C05	OK	1.43544	3.27463	1.18984	-1.47771	0.13949	0.736061
gene1890	gene1890	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975204-1975285	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1891	gene1891	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975290-1975366	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1892	gene1892	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975373-1975446	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1893	gene1893	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975464-1975540	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1894	gene1894	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975549-1975623	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1896	gene1896	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975768-1975844	MR150	M36C05	OK	0	293622	1.79769e+30	1.79769e+30	0.14732	0.743774
gene1898	gene1898	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1975953-1976027	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene19	gene19	SACOL_tRNA-gi 57650036 ref NC_002951.2 :24259-24332	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene190	gene190	SACOL0196 gi 57650036 ref NC_002951.2 :229970-231047	MR150	M36C05	OK	1.74616	2.2631	0.374114	-0.48862	0.62511	0.999883
gene1905	gene1905	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976595-1976677	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1906	gene1906	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976680-1976756	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1907	gene1907	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976761-1976837	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1908	gene1908	SACOL_tRNA-gi 57650036 ref NC_002951.2 :1976853-1976929	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1909	gene1909	rrfD gi 57650036 ref NC_002951.2 :1976940-1977055	MR150	M36C05	OK	277239	214973	-0.366974	0.450087	0.65265	0.999883
gene191	gene191	SACOL0197 gi 57650036 ref NC_002951.2 :231071-232112	MR150	M36C05	OK	1.63878	2.75342	0.748597	-0.977601	0.32827	0.999883
gene1910	gene1910	rrlD gi 57650036 ref NC_002951.2 :1977127-1980050	MR150	M36C05	OK	36607.2	38501	0.0727668	-0.17854	0.8583	0.999883
gene1913	gene1913	rrsD gi 57650036 ref NC_002951.2 :1980523-1982078	MR150	M36C05	OK	14328.8	12425.8	-0.205576	0.298106	0.76562	0.999883
gene1914	gene1914	SACOL1919 gi 57650036 ref NC_002951.2 :1982817-1983264	MR150	M36C05	OK	877.637	1002.26	0.191566	-0.211866	0.83221	0.999883
gene1915	gene1915	SACOL1920 gi 57650036 ref NC_002951.2 :1983360-1984311	MR150	M36C05	OK	38.9444	87.0796	1.16092	-1.54249	0.12296	0.6962
gene1916	gene1916	bcp gi 57650036 ref NC_002951.2 :1984316-1984772	MR150	M36C05	OK	60.2925	178.031	1.56208	-2.16342	0.03051	0.333021
gene1917	gene1917	hemL2 gi 57650036 ref NC_002951.2 :1984852-1986142	MR150	M36C05	OK	100.602	65.8418	-0.611583	0.752172	0.45195	0.999883
gene1918	gene1918	SACOL1923 gi 57650036 ref NC_002951.2 :1986434-1987529	MR150	M36C05	OK	40.8942	31.4151	-0.380437	0.522869	0.60107	0.999883
gene1919	gene1919	SACOL1924 gi 57650036 ref NC_002951.2 :1987719-1989456	MR150	M36C05	OK	15.4462	11.1149	-0.474758	0.679296	0.49695	0.999883
gene192	gene192	SACOL0198 gi 57650036 ref NC_002951.2 :232166-233135	MR150	M36C05	OK	1.99127	3.29831	0.728037	-0.964673	0.33471	0.999883
gene1920	gene1920	SACOL1925 gi 57650036 ref NC_002951.2 :1989746-1990289	MR150	M36C05	OK	64.2426	24.1436	-1.41189	2.04252	0.0411	0.395011
gene1921	gene1921	mutY gi 57650036 ref NC_002951.2 :1990590-1991628	MR150	M36C05	OK	10.4161	9.07936	-0.198154	0.291264	0.77085	0.999883
gene1922	gene1922	SACOL1927 gi 57650036 ref NC_002951.2 :1991779-1992757	MR150	M36C05	OK	165.726	171.51	0.0494911	-0.058136	0.95364	0.999883
gene1923	gene1923	SACOL1928 gi 57650036 ref NC_002951.2 :1993017-1993854	MR150	M36C05	OK	27.8825	20.4331	-0.448453	0.651512	0.51472	0.999883

gene1924	gene1924	SACOL1929	gi 57650036 ref NC_002951.2 :1993862-1995380	MR150	M36C05	OK	24.752	21.0753	-0.231994	0.32102	0.7482	0.999883
gene1925	gene1925	SACOL1930	gi 57650036 ref NC_002951.2 :1995394-1996505	MR150	M36C05	OK	34.0239	39.1189	0.201317	-0.156464	0.87567	0.999883
gene1926	gene1926	recX	gi 57650036 ref NC_002951.2 :1995394-1996505	MR150	M36C05	OK	12.3676	23.7011	0.938392	-1.13877	0.2548	0.932724
gene1927	gene1927	SACOL1932	gi 57650036 ref NC_002951.2 :1996765-1997575	MR150	M36C05	OK	63.5027	51.1768	-0.311327	0.424378	0.67129	0.999883
gene1928	gene1928	SACOL1933	gi 57650036 ref NC_002951.2 :1997915-1998431	MR150	M36C05	OK	66.8126	524.156	2.9718	-3.75512	0.00017	0.0090861
gene1929	gene1929	SACOL1934	gi 57650036 ref NC_002951.2 :1998561-1998723	MR150	M36C05	OK	30.2084	21.1514	-0.514199	0.402893	0.68703	0.999883
gene193	gene193	SACOL0199	gi 57650036 ref NC_002951.2 :233495-234068	MR150	M36C05	OK	4.51339	1.77594	-1.34563	1.57752	0.11468	0.670749
gene1930	gene1930	SACOL1935	gi 57650036 ref NC_002951.2 :1998946-2000098	MR150	M36C05	OK	12.7083	9.95997	-0.351559	0.515921	0.60591	0.999883
gene1931	gene1931	SACOL1936	gi 57650036 ref NC_002951.2 :2000357-2000888	MR150	M36C05	OK	78.123	110.086	0.494817	-0.682926	0.49465	0.999883
gene1932	gene1932	pepS	gi 57650036 ref NC_002951.2 :2000977-2002234	MR150	M36C05	OK	34.7737	51.4197	0.564323	-0.749495	0.45356	0.999883
gene1933	gene1933	SACOL1938	gi 57650036 ref NC_002951.2 :2002236-2002443	MR150	M36C05	OK	25.9997	21.6624	-0.263298	0.299681	0.76442	0.999883
gene1934	gene1934	SACOL1939	gi 57650036 ref NC_002951.2 :2002583-2003048	MR150	M36C05	OK	27.6884	812.631	4.87525	-6.12035	9.34E-10	3.48E-07
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	MR150	M36C05	OK	187.863	1030.1	2.45503	-3.2514	0.00115	0.0379491
gene1936	gene1936	SACOL1941	gi 57650036 ref NC_002951.2 :2003607-2004825	MR150	M36C05	OK	10.5308	90.7543	3.10736	-4.13335	3.58E-05	0.002331
gene1937	gene1937	vraR	gi 57650036 ref NC_002951.2 :2004940-2007301	MR150	M36C05	OK	25.6302	24.1286	-0.0871033	0.063618	0.94927	0.999883
gene1938	gene1938	vraS	gi 57650036 ref NC_002951.2 :2004940-2007301	MR150	M36C05	OK	18.6883	20.1199	0.106483	-0.096333	0.92326	0.999883
gene1939	gene1939	SACOL1944	gi 57650036 ref NC_002951.2 :2004940-2007301	MR150	M36C05	OK	17.6876	20.8818	0.239513	-0.166248	0.86796	0.999883
gene194	gene194	uhpT	gi 57650036 ref NC_002951.2 :234222-235602	MR150	M36C05	OK	8.04713	10.7433	0.416888	-0.611421	0.54092	0.999883
gene1940	gene1940	SACOL1945	gi 57650036 ref NC_002951.2 :2007315-2007702	MR150	M36C05	OK	5.6802	6.44724	0.182739	-0.221954	0.82435	0.999883
gene1941	gene1941	SACOL1946	gi 57650036 ref NC_002951.2 :2007918-2008677	MR150	M36C05	OK	116.674	105.983	-0.138655	0.177966	0.85875	0.999883
gene1942	gene1942	SACOL1947	gi 57650036 ref NC_002951.2 :2009204-2010191	MR150	M36C05	OK	12.6474	7.00607	-0.852162	1.24671	0.2125	0.892138
gene1943	gene1943	SACOL1948	gi 57650036 ref NC_002951.2 :2010621-2011035	MR150	M36C05	OK	0.71217	5.14369	2.85252	-2.18398	0.02896	0.323976
gene1944	gene1944	SACOL1949	gi 57650036 ref NC_002951.2 :2011063-2011174	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1945	gene1945	SACOL1950	gi 57650036 ref NC_002951.2 :2011259-2011991	MR150	M36C05	OK	61.2957	17.0063	-1.84972	2.62473	0.00867	0.152769
gene1946	gene1946	SACOL1951	gi 57650036 ref NC_002951.2 :2011992-2013306	MR150	M36C05	OK	48.2553	21.9689	-1.13523	1.53786	0.12408	0.698274
gene1947	gene1947	SACOL1952	gi 57650036 ref NC_002951.2 :2013597-2014098	MR150	M36C05	OK	203.279	488.641	1.26531	-1.54106	0.1233	0.696596
gene1948	gene1948	SACOL1953	gi 57650036 ref NC_002951.2 :2014179-2014272	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1949	gene1949	SACOL1954	gi 57650036 ref NC_002951.2 :2014486-2015041	MR150	M36C05	OK	63.7994	45.7199	-0.48072	0.689996	0.4902	0.999883
gene195	gene195	SACOL0201	gi 57650036 ref NC_002951.2 :235960-239233	MR150	M36C05	OK	6.84707	3.94722	-0.794652	0.558744	0.57634	0.999883
gene1950	gene1950	dinP	gi 57650036 ref NC_002951.2 :2015108-2016179	MR150	M36C05	OK	22.8564	33.6741	0.559046	-0.788588	0.43035	0.999883
gene1951	gene1951	SACOL1956	gi 57650036 ref NC_002951.2 :2016425-2016956	MR150	M36C05	OK	52.2361	179.808	1.78334	-2.42761	0.0152	0.215671
gene1952	gene1952	SACOL1957	gi 57650036 ref NC_002951.2 :2017125-2018487	MR150	M36C05	OK	10.9396	9.86627	-0.148982	0.218217	0.82726	0.999883
gene1953	gene1953	SACOL1958	gi 57650036 ref NC_002951.2 :2018567-2019515	MR150	M36C05	OK	35.8251	40.6922	0.183782	-0.255679	0.7982	0.999883

gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	MR150	M36C05	OK	134.075	36.9834	-1.85809	2.27781	0.02274	0.287183
gene1955	gene1955	gatA	gi 57650036 ref NC_002951.2 :2021723-2023181	MR150	M36C05	OK	79.6227	20.8544	-1.93283	2.50787	0.01215	0.188226
gene1956	gene1956	gatC	gi 57650036 ref NC_002951.2 :2023182-2023485	MR150	M36C05	OK	121.481	34.8385	-1.80198	2.60123	0.00929	0.161212
gene1957	gene1957	SACOL1963	gi 57650036 ref NC_002951.2 :2023852-2025391	MR150	M36C05	OK	123.764	116.482	-0.0874842	0.10047	0.91997	0.999883
gene1958	gene1958	camS	gi 57650036 ref NC_002951.2 :2025479-2026679	MR150	M36C05	OK	89.5905	61.4091	-0.544893	0.684615	0.49359	0.999883
gene1959	gene1959	ligA	gi 57650036 ref NC_002951.2 :2026691-2028695	MR150	M36C05	OK	45.1705	24.253	-0.897217	1.15295	0.24893	0.922459
gene196	gene196	SACOL0202	gi 57650036 ref NC_002951.2 :235960-239233	MR150	M36C05	OK	4.06324	3.89889	-0.0595659	0.057463	0.95418	0.999883
gene1960	gene1960	pcrA	gi 57650036 ref NC_002951.2 :2028698-2031580	MR150	M36C05	OK	30.8195	11.2801	-1.45006	1.72423	0.08467	0.579146
gene1961	gene1961	SACOL1967	gi 57650036 ref NC_002951.2 :2028698-2031580	MR150	M36C05	OK	22.047	12.982	-0.764062	0.423261	0.67211	0.999883
gene1962	gene1962	SACOL1968	gi 57650036 ref NC_002951.2 :2031751-2032054	MR150	M36C05	OK	162.895	100.534	-0.696264	1.01296	0.31108	0.993813
gene1963	gene1963	purB	gi 57650036 ref NC_002951.2 :2032162-2033458	MR150	M36C05	OK	61.7636	37.6189	-0.715298	0.932616	0.35102	0.999883
gene1964	gene1964	sspB2	gi 57650036 ref NC_002951.2 :2034318-2035485	MR150	M36C05	OK	0.79185	1.59622	1.01135	-1.20333	0.22885	0.898537
gene1965	gene1965	SACOL1971	gi 57650036 ref NC_002951.2 :2035515-2035842	MR150	M36C05	OK	2.31506	2.50842	0.115727	-0.100861	0.91966	0.999883
gene1966	gene1966	SACOL1972	gi 57650036 ref NC_002951.2 :2036133-2036890	MR150	M36C05	OK	78.5602	41.6288	-0.916215	0.289932	0.77187	0.999883
gene1967	gene1967	SACOL1973	gi 57650036 ref NC_002951.2 :2036133-2036890	MR150	M36C05	OK	52.0328	36.4312	-0.514246	0.721049	0.47088	0.999883
gene1968	gene1968	nadE	gi 57650036 ref NC_002951.2 :2037160-2039444	MR150	M36C05	OK	60.309	48.7694	-0.306398	0.221756	0.8245	0.999883
gene1969	gene1969	SACOL1975	gi 57650036 ref NC_002951.2 :2037160-2039444	MR150	M36C05	OK	48.2389	48.9524	0.0211819	-0.020748	0.98345	0.999883
gene197	gene197	SACOL0203	gi 57650036 ref NC_002951.2 :235960-239233	MR150	M36C05	OK	5.57556	4.87576	-0.193489	0.161046	0.87206	0.999883
gene1970	gene1970	SACOL1976	gi 57650036 ref NC_002951.2 :2039627-2040704	MR150	M36C05	OK	26.5416	18.7334	-0.502642	0.72044	0.47125	0.999883
gene1971	gene1971	pheA	gi 57650036 ref NC_002951.2 :2040723-2041518	MR150	M36C05	OK	35.5105	25.4001	-0.48341	0.696765	0.48595	0.999883
gene1972	gene1972	SACOL1978	gi 57650036 ref NC_002951.2 :2041542-2041665	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1973	gene1973	SACOL1979	gi 57650036 ref NC_002951.2 :2041707-2043270	MR150	M36C05	OK	94.2792	69.6283	-0.437267	0.524072	0.60023	0.999883
gene1974	gene1974	SACOL1980	gi 57650036 ref NC_002951.2 :2043474-2044572	MR150	M36C05	OK	7.16243	17.3126	1.2733	-1.85697	0.06332	0.504373
gene1975	gene1975	SACOL1981	gi 57650036 ref NC_002951.2 :2044943-2045504	MR150	M36C05	OK	55.1102	72.1791	0.389261	-0.552391	0.58068	0.999883
gene1976	gene1976	ppaC	gi 57650036 ref NC_002951.2 :2045556-2046486	MR150	M36C05	OK	224.443	208.635	-0.10537	0.121243	0.9035	0.999883
gene1977	gene1977	SACOL1983	gi 57650036 ref NC_002951.2 :2046680-2046854	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1978	gene1978	aldA2	gi 57650036 ref NC_002951.2 :2046905-2048285	MR150	M36C05	OK	121.745	354.528	1.54203	-1.69721	0.08966	0.601607
gene1979	gene1979	SACOL1985	gi 57650036 ref NC_002951.2 :2048404-2049433	MR150	M36C05	OK	19.0263	45.8901	1.27019	-1.77625	0.07569	0.54506
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	MR150	M36C05	OK	9.41471	77.7859	3.04652	-3.86775	0.00011	0.0061623
gene1980	gene1980	SACOL1986	gi 57650036 ref NC_002951.2 :2049702-2050104	MR150	M36C05	OK	24.1057	42.9841	0.834431	-1.21783	0.22329	0.89446
gene1981	gene1981	SACOL1987	gi 57650036 ref NC_002951.2 :2050676-2050850	MR150	M36C05	OK	1001.64	1463.95	0.547497	-0.78561	0.4321	0.999883
gene1982	gene1982	SACOL1988	gi 57650036 ref NC_002951.2 :2051300-2052341	MR150	M36C05	OK	16.5699	17.5694	0.0844987	-0.123126	0.90201	0.999883
gene1983	gene1983	SACOL1989	gi 57650036 ref NC_002951.2 :2052397-2053794	MR150	M36C05	OK	44.7674	31.2209	-0.519936	0.556321	0.57799	0.999883

gene1984	gene1984	SACOL1990	gi 57650036 ref NC_002951.2 :2052397-2053794	MR150	M36C05	OK	40.6098	38.2429	-0.0866359	0.070764	0.94359	0.999883
gene1985	gene1985	SACOL1991	gi 57650036 ref NC_002951.2 :2053853-2054378	MR150	M36C05	OK	42.8409	35.3348	-0.2779	0.406457	0.68441	0.999883
gene1986	gene1986	SACOL1992	gi 57650036 ref NC_002951.2 :2054498-2055062	MR150	M36C05	OK	92.0756	154.996	0.751341	-1.00051	0.31707	0.999883
gene1987	gene1987	SACOL1993	gi 57650036 ref NC_002951.2 :2055127-2057417	MR150	M36C05	OK	20.9412	39.36	0.910386	-0.763504	0.44516	0.999883
gene1988	gene1988	SACOL1994	gi 57650036 ref NC_002951.2 :2055127-2057417	MR150	M36C05	OK	20.2489	36.219	0.838904	-0.761402	0.44642	0.999883
gene1989	gene1989	SACOL1995	gi 57650036 ref NC_002951.2 :2055127-2057417	MR150	M36C05	OK	8.2748	19.0421	1.20239	-0.629282	0.52916	0.999883
gene199	gene199	pflA	gi 57650036 ref NC_002951.2 :242092-242848	MR150	M36C05	OK	11.2897	43.654	1.9511	-2.80459	0.00504	0.10765
gene1990	gene1990	SACOL1996	gi 57650036 ref NC_002951.2 :2057417-2058691	MR150	M36C05	OK	17.7946	31.4891	0.823418	-0.904677	0.36564	0.999883
gene1991	gene1991	SACOL1997	gi 57650036 ref NC_002951.2 :2057417-2058691	MR150	M36C05	OK	34.3219	84.6526	1.30243	-1.10918	0.26735	0.950995
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	MR150	M36C05	OK	0	31.7031	1.79769e+30	1.79769e+30	0.01809	0.243354
gene1993	gene1993	SACOL1999	gi 57650036 ref NC_002951.2 :2059373-2059472	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene1994	gene1994	SACOL2000	gi 57650036 ref NC_002951.2 :2059671-2060958	MR150	M36C05	OK	138.498	99.1876	-0.481633	0.567712	0.57023	0.999883
gene1995	gene1995	map	gi 57650036 ref NC_002951.2 :2061281-2063337	MR150	M36C05	OK	5.52941	8.90674	0.687772	-1.0034	0.31567	0.999465
gene1996	gene1996	hIb	gi 57650036 ref NC_002951.2 :2063725-2064718	MR150	M36C05	OK	9.26897	26.5605	1.5188	-2.19986	0.02782	0.315942
gene1997	gene1997	SACOL2004	gi 57650036 ref NC_002951.2 :2064955-2065828	MR150	M36C05	OK	1.36509	2.13053	0.642212	-0.777628	0.43679	0.999883
gene1998	gene1998	SACOL2006	gi 57650036 ref NC_002951.2 :2065993-2067049	MR150	M36C05	OK	0.3578	1.28815	1.8481	-1.82575	0.06789	0.522414
gene1999	gene1999	SACOL2007	gi 57650036 ref NC_002951.2 :2067483-2068708	MR150	M36C05	OK	4.63178	163.166	5.13863	-6.51905	7.08E-11	3.20E-08
gene2	gene2	SACOL0003	gi 57650036 ref NC_002951.2 :3696-5051	MR150	M36C05	OK	418.84	421.879	0.0104313	-0.004148	0.99669	0.999883
gene20	gene20	yycF	gi 57650036 ref NC_002951.2 :24951-25653	MR150	M36C05	OK	97.8915	162.219	0.728686	-0.93147	0.35161	0.999883
gene200	gene200	SACOL0206	gi 57650036 ref NC_002951.2 :242951-243146	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2000	gene2000	SACOL2009	gi 57650036 ref NC_002951.2 :2069079-2069925	MR150	M36C05	OK	0	3.75641	1.79769e+30	1.79769e+30	0.00265	0.0711264
gene2001	gene2001	SACOL2010	gi 57650036 ref NC_002951.2 :2069986-2070898	MR150	M36C05	NOTEST	0.64518	0.4647	-0.473411	0.439858	0.66004	1
gene2002	gene2002	SACOL2011	gi 57650036 ref NC_002951.2 :2071058-2072366	MR150	M36C05	OK	8.56987	9.94951	0.215352	-0.316347	0.75174	0.999883
gene2003	gene2003	SACOL2012	gi 57650036 ref NC_002951.2 :2073218-2073662	MR150	M36C05	OK	11.8941	9.94572	-0.258104	0.35612	0.72175	0.999883
gene2004	gene2004	SACOL2013	gi 57650036 ref NC_002951.2 :2073767-2074205	MR150	M36C05	OK	3.84954	10.6569	1.46904	-1.84247	0.06541	0.511729
gene2005	gene2005	SACOL2014	gi 57650036 ref NC_002951.2 :2074522-2075113	MR150	M36C05	OK	2.74011	1.12936	-1.27872	1.36105	0.1735	0.821477
gene2006	gene2006	SACOL2015	gi 57650036 ref NC_002951.2 :2075454-2075929	MR150	M36C05	OK	0.556	1.20434	1.11507	-0.788905	0.43017	0.999883
gene2007	gene2007	groEL	gi 57650036 ref NC_002951.2 :2076023-2077640	MR150	M36C05	OK	121.925	127.257	0.0617465	-0.070212	0.94403	0.999883
gene2008	gene2008	groES	gi 57650036 ref NC_002951.2 :2077715-2078000	MR150	M36C05	OK	36.8713	25.3711	-0.539315	0.750327	0.45306	0.999883
gene2009	gene2009	SACOL2018	gi 57650036 ref NC_002951.2 :2078174-2078918	MR150	M36C05	OK	33.4901	23.5261	-0.509473	0.739859	0.45939	0.999883
gene201	gene201	SACOL0207	gi 57650036 ref NC_002951.2 :243183-244947	MR150	M36C05	OK	4.79871	2.95975	-0.69717	1.01534	0.30994	0.993387
gene2010	gene2010	SACOL2019	gi 57650036 ref NC_002951.2 :2078942-2080202	MR150	M36C05	OK	79.0309	230.265	1.54281	-1.7954	0.07259	0.528391
gene2011	gene2011	SACOL2020	gi 57650036 ref NC_002951.2 :2080398-2081025	MR150	M36C05	OK	112.202	93.8334	-0.257932	0.343303	0.73137	0.999883

gene2012	gene2012	SACOL2021	gi 57650036 ref NC_002951.2 :2081385-2082171	MR150	M36C05	OK	64.7954	58.7352	-0.141665	0.192346	0.84747	0.999883
gene2013	gene2013	hld	gi 57650036 ref NC_002951.2 :2082767-2082902	MR150	M36C05	OK	335.279	1288.34	1.94208	-2.40136	0.01633	0.229092
gene2014	gene2014	agrB	gi 57650036 ref NC_002951.2 :2083137-2083844	MR150	M36C05	OK	111.68	827.743	2.88981	-3.37134	0.00075	0.0279049
gene2015	gene2015	agrD	gi 57650036 ref NC_002951.2 :2083137-2083844	MR150	M36C05	OK	44.9172	236.044	2.39372	-0.159257	0.87347	0.999883
gene2016	gene2016	argC2	gi 57650036 ref NC_002951.2 :2083868-2085161	MR150	M36C05	OK	49.3222	292.196	2.56663	-3.00567	0.00265	0.0711263
gene2017	gene2017	agrA	gi 57650036 ref NC_002951.2 :2085179-2085896	MR150	M36C05	OK	105.417	413.396	1.97141	-2.36128	0.01821	0.244437
gene2018	gene2018	SACOL2028	gi 57650036 ref NC_002951.2 :2086262-2088703	MR150	M36C05	OK	39.6924	39.4685	-0.0081584	0.006566	0.99476	0.999883
gene2019	gene2019	cscA	gi 57650036 ref NC_002951.2 :2086262-2088703	MR150	M36C05	OK	30.751	36.8859	0.262436	-0.253618	0.79979	0.999883
gene202	gene202	SACOL0208	gi 57650036 ref NC_002951.2 :245110-245455	MR150	M36C05	OK	3.08696	2.97348	-0.0540339	0.052513	0.95812	0.999883
gene2020	gene2020	scrR	gi 57650036 ref NC_002951.2 :2088851-2089802	MR150	M36C05	OK	40.1678	48.3123	0.266351	-0.364983	0.71512	0.999883
gene2021	gene2021	SACOL2031	gi 57650036 ref NC_002951.2 :2089984-2091235	MR150	M36C05	OK	1.31146	2.3077	0.815286	-1.0674	0.28579	0.973566
gene2022	gene2022	SACOL2033	gi 57650036 ref NC_002951.2 :2091441-2091666	MR150	M36C05	OK	12.7327	0	-1.79769e+30	-1.79769e+30	0.01565	0.220725
gene2023	gene2023	SACOL2034	gi 57650036 ref NC_002951.2 :2091725-2092805	MR150	M36C05	OK	2.78433	1.87948	-0.566999	0.754785	0.45038	0.999883
gene2024	gene2024	SACOL2035	gi 57650036 ref NC_002951.2 :2093108-2093744	MR150	M36C05	OK	91.6322	113.157	0.304402	-0.404623	0.68576	0.999883
gene2025	gene2025	SACOL2036	gi 57650036 ref NC_002951.2 :2093996-2095925	MR150	M36C05	OK	11.9595	10.5812	-0.176663	0.253742	0.7997	0.999883
gene2026	gene2026	SACOL2037	gi 57650036 ref NC_002951.2 :2096286-2097897	MR150	M36C05	OK	5.53601	5.46814	-0.0177961	0.026152	0.97914	0.999883
gene2027	gene2027	SACOL2038	gi 57650036 ref NC_002951.2 :2097998-2100531	MR150	M36C05	OK	38.9324	13.7503	-1.5015	1.568	0.11688	0.676159
gene2028	gene2028	SACOL2039	gi 57650036 ref NC_002951.2 :2097998-2100531	MR150	M36C05	OK	27.6884	9.16345	-1.59532	0.78269	0.43381	0.999883
gene2029	gene2029	SACOL2040	gi 57650036 ref NC_002951.2 :2097998-2100531	MR150	M36C05	OK	17.5231	10.0111	-0.807664	0.470315	0.63813	0.999883
gene203	gene203	SACOL0209	gi 57650036 ref NC_002951.2 :245644-247555	MR150	M36C05	OK	1.87994	0.77295	-1.28223	1.69388	0.09029	0.602864
gene2030	gene2030	SACOL2041	gi 57650036 ref NC_002951.2 :2097998-2100531	MR150	M36C05	OK	14.9423	11.2605	-0.408139	0.164185	0.86959	0.999883
gene2031	gene2031	ilvD	gi 57650036 ref NC_002951.2 :2101068-2102757	MR150	M36C05	OK	2.77734	4.51534	0.70113	-1.0165	0.30939	0.992496
gene2032	gene2032	ilvB	gi 57650036 ref NC_002951.2 :2102784-2104808	MR150	M36C05	OK	2.92676	7.16049	1.29075	-1.86689	0.06192	0.503472
gene2033	gene2033	SACOL2044	gi 57650036 ref NC_002951.2 :2102784-2104808	MR150	M36C05	OK	0	3.09171	1.79769e+30	1.79769e+30	0.34168	0.999883
gene2034	gene2034	ilvC	gi 57650036 ref NC_002951.2 :2104944-2105949	MR150	M36C05	OK	5.13611	9.31497	0.858875	-1.24648	0.21259	0.892138
gene2035	gene2035	leuA	gi 57650036 ref NC_002951.2 :2105978-2107508	MR150	M36C05	OK	3.80022	8.03906	1.08094	-1.57767	0.11464	0.670749
gene2036	gene2036	leuB	gi 57650036 ref NC_002951.2 :2107510-2108557	MR150	M36C05	OK	4.70074	10.2846	1.12953	-1.63805	0.10141	0.639849
gene2037	gene2037	leuC	gi 57650036 ref NC_002951.2 :2108570-2109941	MR150	M36C05	OK	2.87737	6.02485	1.06617	-1.53431	0.12495	0.700644
gene2038	gene2038	leuD	gi 57650036 ref NC_002951.2 :2109941-2110514	MR150	M36C05	OK	3.69277	4.73583	0.358915	-0.460683	0.64503	0.999883
gene2039	gene2039	ilvA2	gi 57650036 ref NC_002951.2 :2110528-2111797	MR150	M36C05	OK	4.01141	5.5689	0.473284	-0.685781	0.49285	0.999883
gene204	gene204	SACOL0210	gi 57650036 ref NC_002951.2 :248020-249342	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2040	gene2040	rrfE	gi 57650036 ref NC_002951.2 :2112006-2112121	MR150	M36C05	OK	414494	602455	0.5395	-0.60988	0.54194	0.999883
gene2041	gene2041	rrlE	gi 57650036 ref NC_002951.2 :2112193-2115116	MR150	M36C05	OK	44241.6	39229.6	-0.173459	0.611627	0.54079	0.999883

gene2042	gene2042	rrsE	gi 57650036 ref NC_002951.2 :2115662-2117217	MR150	M36C05	OK	16702.6	14081.6	-0.24626	0.369486	0.71177	0.999883
gene2043	gene2043	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117334-2117408	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2044	gene2044	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2117427-2117513	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2045	gene2045	SACOL2052	gi 57650036 ref NC_002951.2 :2118159-2120758	MR150	M36C05	OK	26.863	8.62137	-1.63963	0.6229	0.53335	0.999883
gene2046	gene2046	SACOL2053	gi 57650036 ref NC_002951.2 :2118159-2120758	MR150	M36C05	OK	34.1522	14.2909	-1.25688	1.58382	0.11324	0.667905
gene2047	gene2047	rpoF	gi 57650036 ref NC_002951.2 :2121191-2122416	MR150	M36C05	OK	111.006	144.905	0.384469	-0.426695	0.6696	0.999883
gene2048	gene2048	rsbW	gi 57650036 ref NC_002951.2 :2121191-2122416	MR150	M36C05	OK	50.7905	68.6088	0.433835	-0.230099	0.81802	0.999883
gene2049	gene2049	rsbV	gi 57650036 ref NC_002951.2 :2122417-2122744	MR150	M36C05	OK	69.4519	123.749	0.833328	-1.21664	0.22374	0.89446
gene205	gene205	SACOL0211	gi 57650036 ref NC_002951.2 :248020-249342	MR150	M36C05	OK	145.216	68.1655	-1.09109	1.31102	0.18985	0.848649
gene2050	gene2050	rsbU	gi 57650036 ref NC_002951.2 :2122863-2123865	MR150	M36C05	OK	62.6275	35.1994	-0.831245	1.12321	0.26135	0.942393
gene2051	gene2051	SACOL2058	gi 57650036 ref NC_002951.2 :2124214-2124744	MR150	M36C05	OK	96.0963	59.4051	-0.693894	0.941126	0.34664	0.999883
gene2052	gene2052	SACOL2059	gi 57650036 ref NC_002951.2 :2124214-2124744	MR150	M36C05	OK	216.427	68.6965	-1.65557	0.824322	0.40976	0.999883
gene2053	gene2053	alr	gi 57650036 ref NC_002951.2 :2124828-2125977	MR150	M36C05	OK	69.7132	46.8206	-0.574289	0.747077	0.45502	0.999883
gene2054	gene2054	acpS	gi 57650036 ref NC_002951.2 :2126042-2126402	MR150	M36C05	OK	61.1078	25.8068	-1.24361	1.80606	0.07091	0.522414
gene2055	gene2055	SACOL2062	gi 57650036 ref NC_002951.2 :2126405-2128939	MR150	M36C05	OK	40.961	29.1956	-0.488503	0.214122	0.83045	0.999883
gene2056	gene2056	SACOL2063	gi 57650036 ref NC_002951.2 :2126405-2128939	MR150	M36C05	OK	43.1599	45.2362	0.0677877	-0.073346	0.94153	0.999883
gene2057	gene2057	SACOL2064	gi 57650036 ref NC_002951.2 :2126405-2128939	MR150	M36C05	OK	30.0374	37.0645	0.30328	-0.127985	0.89816	0.999883
gene2058	gene2058	SACOL2065	gi 57650036 ref NC_002951.2 :2129034-2129708	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2059	gene2059	kdpC	gi 57650036 ref NC_002951.2 :2129034-2129708	MR150	M36C05	OK	9.75027	7.95193	-0.294136	0.411901	0.68041	0.999883
gene206	gene206	SACOL0212	gi 57650036 ref NC_002951.2 :249371-251633	MR150	M36C05	OK	127.548	54.7264	-1.22073	1.3922	0.16386	0.793541
gene2060	gene2060	kdpB	gi 57650036 ref NC_002951.2 :2129727-2131755	MR150	M36C05	OK	1.84343	2.65268	0.525057	-0.750695	0.45284	0.999883
gene2061	gene2061	kdpA	gi 57650036 ref NC_002951.2 :2131773-2133450	MR150	M36C05	OK	0.5185	1.11936	1.11025	-1.32723	0.18443	0.834616
gene2062	gene2062	kdpF	gi 57650036 ref NC_002951.2 :2133473-2133584	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2063	gene2063	kdpD	gi 57650036 ref NC_002951.2 :2133721-2137074	MR150	M36C05	OK	1.49566	2.55534	0.772735	-1.01231	0.31139	0.993813
gene2064	gene2064	kdpE	gi 57650036 ref NC_002951.2 :2133721-2137074	MR150	M36C05	OK	0.92593	4.22697	2.19065	-1.22328	0.22123	0.89416
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	MR150	M36C05	OK	217.624	25.3663	-3.10085	3.72438	0.0002	0.0097724
gene2066	gene2066	murF	gi 57650036 ref NC_002951.2 :2139479-2140838	MR150	M36C05	OK	76.7753	68.9574	-0.154936	0.191864	0.84785	0.999883
gene2067	gene2067	ddl	gi 57650036 ref NC_002951.2 :2140852-2141923	MR150	M36C05	OK	83.8653	98.364	0.230056	-0.287066	0.77406	0.999883
gene2068	gene2068	ftsW	gi 57650036 ref NC_002951.2 :2142240-2143443	MR150	M36C05	OK	67.0302	48.2548	-0.474139	0.613716	0.5394	0.999883
gene2069	gene2069	SACOL2076	gi 57650036 ref NC_002951.2 :2143706-2143844	MR150	M36C05	OK	19238	37366.6	0.957789	-1.19084	0.23372	0.902568
gene207	gene207	SACOL0213	gi 57650036 ref NC_002951.2 :251818-253030	MR150	M36C05	OK	143.764	59.8088	-1.26528	1.54279	0.12288	0.6962
gene2070	gene2070	SACOL2077	gi 57650036 ref NC_002951.2 :2143971-2144181	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2071	gene2071	SACOL2078	gi 57650036 ref NC_002951.2 :2144192-2144486	MR150	M36C05	OK	7.42357	0	-1.79769e+3(-1.79769e+0.01149		0.182325	

gene2072	gene2072	cls2	gi 57650036 ref NC_002951.2 :2144651-2146136	MR150	M36C05	OK	21.335	31.3101	0.553407	-0.757588	0.4487	0.999883
gene2073	gene2073	SACOL2080	gi 57650036 ref NC_002951.2 :2146163-2146811	MR150	M36C05	OK	16.4009	22.1719	0.434959	-0.639012	0.52282	0.999883
gene2074	gene2074	SACOL2081	gi 57650036 ref NC_002951.2 :2146985-2147078	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2075	gene2075	SACOL2082	gi 57650036 ref NC_002951.2 :2147623-2148496	MR150	M36C05	OK	208.177	87.6795	-1.2475	1.52658	0.12687	0.707666
gene2076	gene2076	thiE	gi 57650036 ref NC_002951.2 :2148581-2149223	MR150	M36C05	OK	2.07792	2.49705	0.265087	-0.313731	0.75373	0.999883
gene2077	gene2077	thiM	gi 57650036 ref NC_002951.2 :2149224-2151512	MR150	M36C05	OK	1.29313	2.60881	1.01252	-0.796773	0.42558	0.999883
gene2078	gene2078	thiD2	gi 57650036 ref NC_002951.2 :2149224-2151512	MR150	M36C05	OK	1.69855	2.62215	0.626447	-0.553828	0.5797	0.999883
gene2079	gene2079	SACOL2086	gi 57650036 ref NC_002951.2 :2149224-2151512	MR150	M36C05	OK	1.87452	1.80161	-0.0572364	0.04125	0.9671	0.999883
gene208	gene208	SACOL0214	gi 57650036 ref NC_002951.2 :253141-254647	MR150	M36C05	OK	146.358	70.4748	-1.05432	1.23725	0.216	0.89416
gene2080	gene2080	SACOL2088	gi 57650036 ref NC_002951.2 :2151897-2152593	MR150	M36C05	OK	32.4076	35.5956	0.135365	-0.195936	0.84466	0.999883
gene2081	gene2081	SACOL2089	gi 57650036 ref NC_002951.2 :2152981-2153377	MR150	M36C05	OK	2.32681	14.0053	2.58954	-2.92542	0.00344	0.0849254
gene2082	gene2082	ywpF	gi 57650036 ref NC_002951.2 :2153570-2154011	MR150	M36C05	OK	25.9819	54.0021	1.05551	-1.54371	0.12266	0.695963
gene2083	gene2083	fabZ	gi 57650036 ref NC_002951.2 :2154069-2154510	MR150	M36C05	OK	86.8176	142.327	0.713154	-0.995809	0.31934	0.999883
gene2084	gene2084	murAA	gi 57650036 ref NC_002951.2 :2154543-2155809	MR150	M36C05	OK	63.0701	151.715	1.26633	-1.52613	0.12698	0.707666
gene2085	gene2085	SACOL2093	gi 57650036 ref NC_002951.2 :2155919-2156153	MR150	M36C05	OK	139.741	160.013	0.195439	-0.287289	0.77389	0.999883
gene2086	gene2086	atpC	gi 57650036 ref NC_002951.2 :2156714-2157119	MR150	M36C05	OK	369.814	156.083	-1.24448	1.63027	0.10304	0.644382
gene2087	gene2087	atpD	gi 57650036 ref NC_002951.2 :2157138-2158551	MR150	M36C05	OK	201.01	104.054	-0.94994	1.08115	0.27963	0.965951
gene2088	gene2088	atpG	gi 57650036 ref NC_002951.2 :2158572-2159439	MR150	M36C05	OK	191.913	93.7609	-1.0334	1.26799	0.2048	0.877017
gene2089	gene2089	atpA	gi 57650036 ref NC_002951.2 :2159469-2160978	MR150	M36C05	OK	216.343	99.2805	-1.12374	1.267	0.20515	0.877103
gene209	gene209	SACOL0215	gi 57650036 ref NC_002951.2 :254672-256244	MR150	M36C05	OK	317.264	339.67	0.098451	-0.102626	0.91826	0.999883
gene2090	gene2090	atpH	gi 57650036 ref NC_002951.2 :2160999-2162060	MR150	M36C05	OK	175.522	89.3083	-0.974789	0.920591	0.35726	0.999883
gene2091	gene2091	atpF	gi 57650036 ref NC_002951.2 :2160999-2162060	MR150	M36C05	OK	144.922	68.9278	-1.07212	0.881567	0.37801	0.999883
gene2092	gene2092	atpE	gi 57650036 ref NC_002951.2 :2162257-2162470	MR150	M36C05	OK	534.947	249.303	-1.10149	1.59583	0.11053	0.660511
gene2093	gene2093	atpB	gi 57650036 ref NC_002951.2 :2162512-2163241	MR150	M36C05	OK	226.314	137.866	-0.715061	0.873841	0.38221	0.999883
gene2094	gene2094	SACOL2102	gi 57650036 ref NC_002951.2 :2163261-2163615	MR150	M36C05	OK	195.762	106.944	-0.872253	1.23263	0.21771	0.89416
gene2095	gene2095	SACOL2103	gi 57650036 ref NC_002951.2 :2163781-2164909	MR150	M36C05	OK	156.937	238.336	0.602809	-0.684322	0.49377	0.999883
gene2096	gene2096	upp	gi 57650036 ref NC_002951.2 :2164932-2165562	MR150	M36C05	OK	94.6895	183.531	0.95475	-1.23375	0.2173	0.89416
gene2097	gene2097	glyA	gi 57650036 ref NC_002951.2 :2165589-2166828	MR150	M36C05	OK	167.446	266.649	0.671247	-0.746398	0.45543	0.999883
gene2098	gene2098	SACOL2106	gi 57650036 ref NC_002951.2 :2166854-2167379	MR150	M36C05	OK	113.458	158.667	0.483845	-0.644328	0.51936	0.999883
gene2099	gene2099	SACOL2107	gi 57650036 ref NC_002951.2 :2167485-2168957	MR150	M36C05	OK	33.9653	10.0127	-1.76223	1.44204	0.14929	0.750812
gene21	gene21	yycG	gi 57650036 ref NC_002951.2 :25665-28819	MR150	M36C05	OK	114.382	126.81	0.148802	-0.126938	0.89899	0.999883
gene210	gene210	SACOL0216	gi 57650036 ref NC_002951.2 :256690-257833	MR150	M36C05	OK	9.41917	4.79372	-0.974455	1.41897	0.15591	0.771231
gene2100	gene2100	SACOL2108	gi 57650036 ref NC_002951.2 :2167485-2168957	MR150	M36C05	OK	12.3439	7.60009	-0.699714	0.824218	0.40982	0.999883

gene2101	gene2101	SACOL2109	gi 57650036 ref NC_002951.2 :2169031-2170931	MR150	M36C05	OK	76.4364	21.6452	-1.82021	1.70925	0.0874	0.593382
gene2102	gene2102	prfA	gi 57650036 ref NC_002951.2 :2169031-2170931	MR150	M36C05	OK	52.2101	14.2072	-1.87771	1.69527	0.09002	0.602417
gene2103	gene2103	tdk	gi 57650036 ref NC_002951.2 :2170931-2171531	MR150	M36C05	OK	62.754	19.0424	-1.72049	2.47387	0.01337	0.199029
gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	MR150	M36C05	OK	700.567	75.7468	-3.20927	4.42633	9.58E-06	0.0008119
gene2105	gene2105	rho	gi 57650036 ref NC_002951.2 :2172249-2173566	MR150	M36C05	OK	132.586	45.5961	-1.53994	1.89092	0.05864	0.484963
gene2106	gene2106	SACOL2114	gi 57650036 ref NC_002951.2 :2173812-2175240	MR150	M36C05	OK	42.0309	566.421	3.75235	-4.27844	1.88E-05	0.001362
gene2107	gene2107	SACOL2115	gi 57650036 ref NC_002951.2 :2175477-2175813	MR150	M36C05	OK	1077.9	871.614	-0.306465	0.358547	0.71993	0.999883
gene2108	gene2108	murAB	gi 57650036 ref NC_002951.2 :2175901-2177161	MR150	M36C05	OK	82.7874	71.8669	-0.204084	0.25366	0.79976	0.999883
gene2109	gene2109	fbaA	gi 57650036 ref NC_002951.2 :2177626-2178487	MR150	M36C05	OK	194.581	134.828	-0.529251	0.636625	0.52437	0.999883
gene211	gene211	SACOL0217	gi 57650036 ref NC_002951.2 :258146-259622	MR150	M36C05	OK	14.4036	12.5261	-0.201501	0.2914	0.77075	0.999883
gene2110	gene2110	SACOL2118	gi 57650036 ref NC_002951.2 :2178704-2179226	MR150	M36C05	OK	33.7359	9.25895	-1.86536	2.66914	0.0076	0.141199
gene2111	gene2111	pyrG	gi 57650036 ref NC_002951.2 :2179334-2180945	MR150	M36C05	OK	40.706	9.21773	-2.14276	2.9372	0.00331	0.082366
gene2112	gene2112	rpoE	gi 57650036 ref NC_002951.2 :2181280-2181811	MR150	M36C05	OK	106.321	45.0353	-1.2393	1.74241	0.08144	0.568124
gene2113	gene2113	SACOL2121	gi 57650036 ref NC_002951.2 :2181922-2182783	MR150	M36C05	OK	33.3567	14.0167	-1.25082	1.8096	0.07036	0.522414
gene2114	gene2114	SACOL2122	gi 57650036 ref NC_002951.2 :2183206-2184010	MR150	M36C05	OK	21.0397	6.20962	-1.76054	2.54079	0.01106	0.177478
gene2115	gene2115	SACOL2123	gi 57650036 ref NC_002951.2 :2184139-2184811	MR150	M36C05	OK	47.0272	23.1467	-1.02269	1.4779	0.13943	0.736061
gene2116	gene2116	SACOL2124	gi 57650036 ref NC_002951.2 :2185209-2187587	MR150	M36C05	OK	48.0699	35.0494	-0.455744	0.421084	0.67369	0.999883
gene2117	gene2117	SACOL2125	gi 57650036 ref NC_002951.2 :2185209-2187587	MR150	M36C05	OK	28.9188	39.0636	0.433818	-0.359917	0.71891	0.999883
gene2118	gene2118	luxS	gi 57650036 ref NC_002951.2 :2187897-2188368	MR150	M36C05	OK	88.5729	108.761	0.296225	-0.414843	0.67826	0.999883
gene2119	gene2119	SACOL2127	gi 57650036 ref NC_002951.2 :2188519-2188870	MR150	M36C05	OK	283.623	270.802	-0.0667393	0.089045	0.92905	0.999883
gene212	gene212	SACOL0218	gi 57650036 ref NC_002951.2 :259819-260176	MR150	M36C05	OK	6.69732	6.2204	-0.106577	0.126865	0.89905	0.999883
gene2120	gene2120	pdp	gi 57650036 ref NC_002951.2 :2188883-2190185	MR150	M36C05	OK	110.347	119.044	0.109452	-0.12913	0.89725	0.999883
gene2121	gene2121	deoC2	gi 57650036 ref NC_002951.2 :2190463-2191126	MR150	M36C05	OK	74.7211	74.3678	-0.006838	0.00933	0.99256	0.999883
gene2122	gene2122	deoD	gi 57650036 ref NC_002951.2 :2191440-2192151	MR150	M36C05	OK	124.33	67.1545	-0.888621	1.17372	0.24051	0.911371
gene2123	gene2123	SACOL2131	gi 57650036 ref NC_002951.2 :2192271-2192715	MR150	M36C05	OK	2855.22	1778.93	-0.682595	0.705725	0.48036	0.999883
gene2124	gene2124	SACOL2132	gi 57650036 ref NC_002951.2 :2192914-2193328	MR150	M36C05	OK	5.69732	28.8047	2.33795	-3.1154	0.00184	0.0540416
gene2125	gene2125	SACOL2133	gi 57650036 ref NC_002951.2 :2193785-2195159	MR150	M36C05	OK	36.2666	30.235	-0.262422	0.353575	0.72366	0.999883
gene2126	gene2126	SACOL2134	gi 57650036 ref NC_002951.2 :2195830-2196061	MR150	M36C05	OK	23.316	6.25566	-1.89809	1.93264	0.05328	0.45686
gene2127	gene2127	manA1	gi 57650036 ref NC_002951.2 :2196091-2197030	MR150	M36C05	OK	45.9999	22.385	-1.0391	1.46083	0.14406	0.743774
gene2128	gene2128	SACOL2136	gi 57650036 ref NC_002951.2 :2197464-2198130	MR150	M36C05	OK	10.1834	170.274	4.06357	-5.42923	5.66E-08	1.02E-05
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	MR150	M36C05	OK	62.7582	13.0742	-2.26308	3.11268	0.00185	0.0543209
gene213	gene213	SACOL0219	gi 57650036 ref NC_002951.2 :260332-260506	MR150	M36C05	OK	0	6.93814	1.79769e+30	1.79769e+30	0.14732	0.743774
gene2130	gene2130	SACOL2138	gi 57650036 ref NC_002951.2 :2198603-2199584	MR150	M36C05	OK	40.5863	19.6267	-1.04818	1.48159	0.13845	0.733494

gene2131	gene2131	SACOL2139	gi 57650036 ref NC_002951.2 :2199793-2200941	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2132	gene2132	SACOL2140	gi 57650036 ref NC_002951.2 :2199793-2200941	MR150	M36C05	OK	133.872	160.442	0.261193	-0.302013	0.76264	0.999883
gene2133	gene2133	SACOL2141	gi 57650036 ref NC_002951.2 :2201903-2202107	MR150	M36C05	OK	4.59906	3.28328	-0.486204	0.269378	0.78764	0.999883
gene2134	gene2134	SACOL2142	gi 57650036 ref NC_002951.2 :2202165-2203302	MR150	M36C05	OK	13.8923	11.1786	-0.313549	0.459456	0.64591	0.999883
gene2135	gene2135	SACOL2143	gi 57650036 ref NC_002951.2 :2204387-2205257	MR150	M36C05	OK	43.4214	51.362	0.242293	-0.333567	0.73871	0.999883
gene2136	gene2136	SACOL2144	gi 57650036 ref NC_002951.2 :2205312-2206095	MR150	M36C05	OK	6.04016	10.975	0.861563	-1.24078	0.21469	0.89416
gene2137	gene2137	glmS	gi 57650036 ref NC_002951.2 :2206326-2208132	MR150	M36C05	OK	37.2906	34.1073	-0.12873	0.166718	0.86759	0.999883
gene2138	gene2138	SACOL2146	gi 57650036 ref NC_002951.2 :2208812-2210351	MR150	M36C05	OK	2.40207	4.69221	0.965987	-1.38525	0.16598	0.79971
gene2139	gene2139	SACOL2147	gi 57650036 ref NC_002951.2 :2210385-2212518	MR150	M36C05	OK	2.69422	24.116	3.16206	-4.37361	1.22E-05	0.000931
gene214	gene214	SACOL0220	gi 57650036 ref NC_002951.2 :260531-261677	MR150	M36C05	OK	72.0387	76.9222	0.0946291	-0.119734	0.90469	0.999883
gene2140	gene2140	SACOL2148	gi 57650036 ref NC_002951.2 :2212529-2214070	MR150	M36C05	OK	7.14632	234.593	5.03681	-3.41744	0.00063	0.0243336
gene2141	gene2141	mtlD	gi 57650036 ref NC_002951.2 :2212529-2214070	MR150	M36C05	OK	5.74065	131.655	4.5194	-4.84056	1.29E-06	0.0001378
gene2142	gene2142	fmtB	gi 57650036 ref NC_002951.2 :2214388-2221825	MR150	M36C05	OK	1.92633	2.58789	0.425924	-0.617244	0.53707	0.999883
gene2143	gene2143	glmM	gi 57650036 ref NC_002951.2 :2222101-2223457	MR150	M36C05	OK	90.4881	92.0231	0.0242688	-0.02925	0.97667	0.999883
gene2144	gene2144	SACOL2152	gi 57650036 ref NC_002951.2 :2223483-2224416	MR150	M36C05	OK	35.0955	31.1444	-0.172313	0.243447	0.80766	0.999883
gene2145	gene2145	SACOL2153	gi 57650036 ref NC_002951.2 :2224417-2225227	MR150	M36C05	OK	75.0486	72.6964	-0.0459413	0.060968	0.95139	0.999883
gene2146	gene2146	rocF	gi 57650036 ref NC_002951.2 :2225415-2226324	MR150	M36C05	OK	247.069	351.866	0.510112	-0.570049	0.56865	0.999883
gene2147	gene2147	SACOL2155	gi 57650036 ref NC_002951.2 :2226549-2227752	MR150	M36C05	NOTEST	0.76344	0.76944	0.0112879	-0.01259	0.98996	1
gene2149	gene2149	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228058-2228133	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	MR150	M36C05	OK	6.90495	38.4666	2.47791	-3.51875	0.00043	0.0181379
gene2150	gene2150	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228142-2228226	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2151	gene2151	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228255-2228331	MR150	M36C05	OK	#####	0	-1.79769e+3(-1.79769e+	0.10824	0.653986	
gene2152	gene2152	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228338-2228410	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2153	gene2153	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :2228411-2228486	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2154	gene2154	rffF	gi 57650036 ref NC_002951.2 :2228496-2228611	MR150	M36C05	OK	485395	306801	-0.661857	0.769145	0.44181	0.999883
gene2155	gene2155	rrfF	gi 57650036 ref NC_002951.2 :2228683-2231606	MR150	M36C05	HIDATA	51023.7	0	0	0	1	1
gene2156	gene2156	rrsF	gi 57650036 ref NC_002951.2 :2232152-2233707	MR150	M36C05	OK	15148.8	12926.1	-0.228922	0.335983	0.73688	0.999883
gene2157	gene2157	SACOL2156	gi 57650036 ref NC_002951.2 :2234162-2235227	MR150	M36C05	OK	300.786	220.147	-0.450273	0.500005	0.61707	0.999883
gene2158	gene2158	SACOL2157	gi 57650036 ref NC_002951.2 :2235374-2236817	MR150	M36C05	OK	25.8754	41.5917	0.684716	-0.917989	0.35863	0.999883
gene2159	gene2159	SACOL2158	gi 57650036 ref NC_002951.2 :2237138-2237612	MR150	M36C05	OK	116.626	36.6643	-1.66945	2.37073	0.01775	0.241958
gene216	gene216	SACOL0223	gi 57650036 ref NC_002951.2 :263370-263496	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2160	gene2160	SACOL2159	gi 57650036 ref NC_002951.2 :2237710-2239054	MR150	M36C05	OK	25.5702	10.6962	-1.25737	1.79132	0.07324	0.531113
gene2161	gene2161	SACOL2160	gi 57650036 ref NC_002951.2 :2239230-2239914	MR150	M36C05	OK	154.982	81.8513	-0.921027	1.19557	0.23187	0.902162

gene2162	gene2162	SACOL2161	gi 57650036 ref NC_002951.2 :2239932-2241120	MR150	M36C05	OK	147.565	142.166	-0.05378	0.062556	0.95012	0.999883
gene2163	gene2163	SACOL2162	gi 57650036 ref NC_002951.2 :2241163-2241679	MR150	M36C05	OK	144.761	94.6975	-0.612272	0.82902	0.40709	0.999883
gene2164	gene2164	SACOL2163	gi 57650036 ref NC_002951.2 :2241856-2242117	MR150	M36C05	OK	2716.48	659.379	-2.04256	2.46042	0.01388	0.204544
gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	MR150	M36C05	OK	74.4193	10.7318	-2.79379	3.72621	0.00019	0.0097688
gene2166	gene2166	SACOL2165	gi 57650036 ref NC_002951.2 :2243854-2245851	MR150	M36C05	OK	8.96072	2.72469	-1.71752	1.80806	0.0706	0.522414
gene2167	gene2167	SACOL2166	gi 57650036 ref NC_002951.2 :2243854-2245851	MR150	M36C05	OK	4.96951	3.0483	-0.705098	0.685006	0.49334	0.999883
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	MR150	M36C05	OK	25.3915	7.0329	-1.85215	2.67699	0.00743	0.13928
gene2169	gene2169	SACOL2168	gi 57650036 ref NC_002951.2 :2247237-2248308	MR150	M36C05	OK	3.69218	14.5584	1.9793	-2.83828	0.00454	0.0991698
gene217	gene217	SACOL0224	gi 57650036 ref NC_002951.2 :263522-265052	MR150	M36C05	OK	1.3819	2.98357	1.11039	-1.52197	0.12802	0.7083
gene2170	gene2170	SACOL2169	gi 57650036 ref NC_002951.2 :2248314-2251252	MR150	M36C05	OK	4.71888	22.3544	2.24405	-2.89741	0.00376	0.0904646
gene2171	gene2171	SACOL2170	gi 57650036 ref NC_002951.2 :2248314-2251252	MR150	M36C05	OK	2.00291	3.88206	0.954721	-0.486774	0.62642	0.999883
gene2172	gene2172	SACOL2171	gi 57650036 ref NC_002951.2 :2251353-2253330	MR150	M36C05	OK	15.6016	8.37261	-0.897945	1.27901	0.20089	0.869538
gene2173	gene2173	SACOL2172	gi 57650036 ref NC_002951.2 :2253785-2255410	MR150	M36C05	OK	0.32245	1.46962	2.1883	-2.44523	0.01448	0.208278
gene2174	gene2174	SACOL2173	gi 57650036 ref NC_002951.2 :2255445-2255955	MR150	M36C05	OK	508.79	13085	4.6847	-5.22328	1.76E-07	2.77E-05
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	MR150	M36C05	OK	159.965	2213.51	3.79051	-4.91741	8.77E-07	0.0001076
gene2176	gene2176	SACOL2175	gi 57650036 ref NC_002951.2 :2256269-2256818	MR150	M36C05	OK	95.149	3337.43	5.1324	-5.95411	2.61E-09	7.57E-07
gene2177	gene2177	opuD2	gi 57650036 ref NC_002951.2 :2256980-2258543	MR150	M36C05	OK	17.867	634.337	5.14988	-6.02188	1.72E-09	5.42E-07
gene2178	gene2178	SACOL2177	gi 57650036 ref NC_002951.2 :2258849-2259851	MR150	M36C05	OK	22.5306	35.3369	0.649289	-0.920001	0.35757	0.999883
gene2179	gene2179	SACOL2178	gi 57650036 ref NC_002951.2 :2260084-2261086	MR150	M36C05	OK	215.568	328.07	0.605856	-0.675661	0.49926	0.999883
gene218	gene218	SACOL0225	gi 57650036 ref NC_002951.2 :265413-266349	MR150	M36C05	OK	10.6106	9.29021	-0.191722	0.28145	0.77837	0.999883
gene2180	gene2180	SACOL2179	gi 57650036 ref NC_002951.2 :2261368-2262238	MR150	M36C05	OK	64.218	106.675	0.73217	-0.949486	0.34237	0.999883
gene2181	gene2181	lacG	gi 57650036 ref NC_002951.2 :2262503-2263916	MR150	M36C05	OK	3.66161	2.99892	-0.288034	0.41212	0.68025	0.999883
gene2182	gene2182	lacE	gi 57650036 ref NC_002951.2 :2263933-2265963	MR150	M36C05	OK	1.31083	2.97493	1.18237	-1.59834	0.10997	0.659073
gene2183	gene2183	lacF	gi 57650036 ref NC_002951.2 :2263933-2265963	MR150	M36C05	OK	1.2884	0.92991	-0.470408	0.122222	0.90272	0.999883
gene2184	gene2184	lacD	gi 57650036 ref NC_002951.2 :2265984-2266965	MR150	M36C05	OK	1.17641	0.98839	-0.25124	0.285956	0.77491	0.999883
gene2185	gene2185	lacC	gi 57650036 ref NC_002951.2 :2266968-2267901	MR150	M36C05	OK	0.83561	1.05319	0.333872	-0.362093	0.71728	0.999883
gene2186	gene2186	lacB	gi 57650036 ref NC_002951.2 :2267913-2268429	MR150	M36C05	NOTEST	0.48415	0.69887	0.52958	-0.348426	0.72752	1
gene2187	gene2187	SACOL2186	gi 57650036 ref NC_002951.2 :2268444-2268873	MR150	M36C05	OK	0.66642	1.9252	1.53051	-1.11087	0.26662	0.949974
gene2188	gene2188	SACOL2187	gi 57650036 ref NC_002951.2 :2268887-2269004	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2189	gene2189	lacR	gi 57650036 ref NC_002951.2 :2269240-2269996	MR150	M36C05	OK	16.5216	17.66	0.096136	-0.141341	0.8876	0.999883
gene219	gene219	SACOL0228	gi 57650036 ref NC_002951.2 :266687-269236	MR150	M36C05	NOTEST	0.32298	0.92951	1.52502	-1.63727	0.10157	1
gene2190	gene2190	SACOL2189	gi 57650036 ref NC_002951.2 :2270246-2270978	MR150	M36C05	OK	21.2952	24.8872	0.224875	-0.329223	0.74199	0.999883
gene2191	gene2191	SACOL2190	gi 57650036 ref NC_002951.2 :2271268-2271877	MR150	M36C05	OK	0.74847	3.23871	2.1134	-2.11171	0.03471	0.357338

gene2192	gene2192	SACOL2191	gi 57650036 ref NC_002951.2 :2272138-2272264	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2193	gene2193	SACOL2192	gi 57650036 ref NC_002951.2 :2272483-2273332	MR150	M36C05	OK	80.9221	218.223	1.4312	-1.75992	0.07842	0.55661
gene2194	gene2194	SACOL2193	gi 57650036 ref NC_002951.2 :2273401-2273818	MR150	M36C05	OK	3.51272	12.1779	1.79361	-2.19913	0.02787	0.315942
gene2195	gene2195	hysA	gi 57650036 ref NC_002951.2 :2274225-2276649	MR150	M36C05	OK	0.551	3.02251	2.45562	-3.27543	0.00106	0.0358462
gene2196	gene2196	SACOL2195	gi 57650036 ref NC_002951.2 :2276708-2277563	MR150	M36C05	OK	21.9739	20.8812	-0.0735851	0.10731	0.91454	0.999883
gene2197	gene2197	SACOL2196	gi 57650036 ref NC_002951.2 :2277773-2278589	MR150	M36C05	OK	10.9364	15.9375	0.543282	-0.797494	0.42516	0.999883
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	MR150	M36C05	OK	8.77649	463.694	5.72339	-7.2392	4.51E-13	4.08E-10
gene2199	gene2199	budA1	gi 57650036 ref NC_002951.2 :2279671-2280376	MR150	M36C05	OK	1.81889	2.40351	0.402087	-0.480108	0.63115	0.999883
gene22	gene22	yycH	gi 57650036 ref NC_002951.2 :25665-28819	MR150	M36C05	OK	100.663	102.08	0.0201691	-0.01318	0.98948	0.999883
gene220	gene220	SACOL0229	gi 57650036 ref NC_002951.2 :266687-269236	MR150	M36C05	NOTEST	0.57043	0.41188	-0.469819	0.167656	0.86685	1
gene2200	gene2200	budB	gi 57650036 ref NC_002951.2 :2280412-2282077	MR150	M36C05	OK	3.34557	3.837	0.197725	-0.287302	0.77388	0.999883
gene2201	gene2201	SACOL2200	gi 57650036 ref NC_002951.2 :2282356-2282452	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2202	gene2202	SACOL2201	gi 57650036 ref NC_002951.2 :2283266-2283866	MR150	M36C05	OK	16.4538	8.55529	-0.943533	1.35755	0.17461	0.821477
gene2203	gene2203	SACOL2202	gi 57650036 ref NC_002951.2 :2283898-2284672	MR150	M36C05	OK	9.33557	8.6488	-0.110238	0.160072	0.87283	0.999883
gene2204	gene2204	SACOL2203	gi 57650036 ref NC_002951.2 :2284800-2285937	MR150	M36C05	OK	12.7482	14.238	0.159448	-0.233272	0.81555	0.999883
gene2205	gene2205	SACOL2204	gi 57650036 ref NC_002951.2 :2285937-2286729	MR150	M36C05	OK	15.5175	21.8022	0.490572	-0.719363	0.47192	0.999883
gene2206	gene2206	SACOL2205	gi 57650036 ref NC_002951.2 :2286768-2288129	MR150	M36C05	OK	1.58299	5.41214	1.77355	-2.45615	0.01404	0.204943
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	MR150	M36C05	OK	726.849	123.658	-2.5553	3.23929	0.0012	0.0391064
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	MR150	M36C05	OK	225.198	35.2143	-2.67696	3.6933	0.00022	0.0106092
gene2209	gene2209	truA	gi 57650036 ref NC_002951.2 :2289762-2290566	MR150	M36C05	OK	19.2653	17.8983	-0.10618	0.15578	0.87621	0.999883
gene221	gene221	SACOL0230	gi 57650036 ref NC_002951.2 :269258-269537	MR150	M36C05	OK	1.69174	1.21621	-0.476116	0.263789	0.79194	0.999883
gene2210	gene2210	SACOL2209	gi 57650036 ref NC_002951.2 :2290570-2293033	MR150	M36C05	OK	24.7194	28.5319	0.206934	-0.146721	0.88335	0.999883
gene2211	gene2211	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	MR150	M36C05	OK	28.0289	28.5341	0.0257719	-0.019666	0.98431	0.999883
gene2212	gene2212	cbiO	gi 57650036 ref NC_002951.2 :2290570-2293033	MR150	M36C05	OK	29.8688	34.359	0.202046	-0.157727	0.87467	0.999883
gene2213	gene2213	rplQ	gi 57650036 ref NC_002951.2 :2293570-2293939	MR150	M36C05	OK	159.892	156.793	-0.0282295	0.039481	0.96851	0.999883
gene2214	gene2214	rpoA	gi 57650036 ref NC_002951.2 :2293955-2294900	MR150	M36C05	OK	196.701	201.617	0.0356138	-0.04126	0.96709	0.999883
gene2215	gene2215	rpsK	gi 57650036 ref NC_002951.2 :2294974-2295364	MR150	M36C05	OK	218.972	193.95	-0.175059	0.235522	0.8138	0.999883
gene2216	gene2216	rpsM	gi 57650036 ref NC_002951.2 :2295387-2295753	MR150	M36C05	OK	142.617	141.079	-0.0156345	0.022122	0.98235	0.999883
gene2217	gene2217	rpmJ	gi 57650036 ref NC_002951.2 :2295775-2295889	MR150	M36C05	OK	2081.26	910.472	-1.19277	1.14558	0.25197	0.92853
gene2218	gene2218	infA	gi 57650036 ref NC_002951.2 :2295920-2296139	MR150	M36C05	OK	237.941	220.119	-0.112321	0.165057	0.8689	0.999883
gene2219	gene2219	adk	gi 57650036 ref NC_002951.2 :2296331-2296979	MR150	M36C05	OK	175.968	143.378	-0.295485	0.373332	0.7089	0.999883
gene222	gene222	SACOL0231	gi 57650036 ref NC_002951.2 :269601-269736	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2220	gene2220	secY	gi 57650036 ref NC_002951.2 :2296995-2298728	MR150	M36C05	OK	282.762	251.65	-0.168172	0.155072	0.87676	0.999883

gene2221	gene2221	rplO	gi 57650036 ref NC_002951.2 :2296995-2298728	MR150	M36C05	OK	352.974	379.845	0.10585	-0.053764	0.95712	0.999883
gene2222	gene2222	rpmD	gi 57650036 ref NC_002951.2 :2298744-2298924	MR150	M36C05	OK	739.213	279.463	-1.40333	2.04396	0.04096	0.394682
gene2223	gene2223	rpsE	gi 57650036 ref NC_002951.2 :2298940-2299441	MR150	M36C05	OK	193.115	101.984	-0.921122	1.22972	0.2188	0.89416
gene2224	gene2224	rplR	gi 57650036 ref NC_002951.2 :2299461-2299821	MR150	M36C05	OK	336.563	244.485	-0.46113	0.609762	0.54202	0.999883
gene2225	gene2225	rplF	gi 57650036 ref NC_002951.2 :2299851-2300388	MR150	M36C05	OK	310.574	122.214	-1.34553	1.70566	0.08807	0.596796
gene2226	gene2226	rpsH	gi 57650036 ref NC_002951.2 :2300412-2300811	MR150	M36C05	OK	236.169	77.8385	-1.60126	2.21281	0.02691	0.309278
gene2227	gene2227	rpsN	gi 57650036 ref NC_002951.2 :2300842-2301028	MR150	M36C05	OK	76.7981	39.7175	-0.951294	1.15964	0.2462	0.920358
gene2228	gene2228	rplE	gi 57650036 ref NC_002951.2 :2301050-2301590	MR150	M36C05	OK	217.378	81.8388	-1.40935	1.86216	0.06258	0.504373
gene2229	gene2229	rplX	gi 57650036 ref NC_002951.2 :2301616-2301934	MR150	M36C05	OK	233.036	96.1547	-1.27712	1.82105	0.0686	0.522414
gene223	gene223	SACOL0232	gi 57650036 ref NC_002951.2 :269763-271023	MR150	M36C05	OK	1.58929	1.35205	-0.233227	0.299396	0.76464	0.999883
gene2230	gene2230	rplN	gi 57650036 ref NC_002951.2 :2301969-2302338	MR150	M36C05	OK	243.857	95.4956	-1.35253	1.87999	0.06011	0.493207
gene2231	gene2231	rpsQ	gi 57650036 ref NC_002951.2 :2302369-2302633	MR150	M36C05	OK	275.992	106.772	-1.3701	1.98377	0.04728	0.426221
gene2232	gene2232	rpmC	gi 57650036 ref NC_002951.2 :2302656-2303290	MR150	M36C05	OK	221.051	64.3363	-1.78067	0.58562	0.55813	0.999883
gene2233	gene2233	rplP	gi 57650036 ref NC_002951.2 :2302656-2303290	MR150	M36C05	OK	344.323	193.304	-0.832887	1.01979	0.30783	0.991033
gene2234	gene2234	rpsC	gi 57650036 ref NC_002951.2 :2303292-2303946	MR150	M36C05	OK	292.666	138.806	-1.07619	1.31693	0.18786	0.844443
gene2235	gene2235	rplV	gi 57650036 ref NC_002951.2 :2303969-2304323	MR150	M36C05	OK	210.371	89.3542	-1.23533	1.7448	0.08102	0.567059
gene2236	gene2236	rpsS	gi 57650036 ref NC_002951.2 :2304351-2304630	MR150	M36C05	OK	250.378	116.756	-1.10061	1.58954	0.11194	0.664916
gene2237	gene2237	rplB	gi 57650036 ref NC_002951.2 :2304696-2305530	MR150	M36C05	OK	322.165	131.704	-1.2905	1.51694	0.12928	0.7118
gene2238	gene2238	rplW	gi 57650036 ref NC_002951.2 :2305562-2306461	MR150	M36C05	OK	168.729	81.2578	-1.05413	0.464204	0.6425	0.999883
gene2239	gene2239	rplD	gi 57650036 ref NC_002951.2 :2305562-2306461	MR150	M36C05	OK	251.262	111.94	-1.16646	1.35127	0.17661	0.821477
gene224	gene224	gutB	gi 57650036 ref NC_002951.2 :271040-272096	MR150	M36C05	OK	1.78898	3.34919	0.904679	-1.20596	0.22784	0.898537
gene2240	gene2240	rplC	gi 57650036 ref NC_002951.2 :2306487-2307150	MR150	M36C05	OK	232.76	106.069	-1.13383	1.42317	0.15469	0.769852
gene2241	gene2241	rpsJ	gi 57650036 ref NC_002951.2 :2307177-2307486	MR150	M36C05	OK	164.729	115.057	-0.517748	0.750371	0.45303	0.999883
gene2242	gene2242	SACOL2241	gi 57650036 ref NC_002951.2 :2307842-2308232	MR150	M36C05	OK	270.119	617.063	1.19182	-1.48372	0.13788	0.733494
gene2243	gene2243	SACOL2242	gi 57650036 ref NC_002951.2 :2308423-2309758	MR150	M36C05	OK	109.703	39.142	-1.48682	1.85684	0.06333	0.504373
gene2244	gene2244	topB	gi 57650036 ref NC_002951.2 :2309870-2312006	MR150	M36C05	OK	48.9746	30.3972	-0.688097	0.863335	0.38795	0.999883
gene2245	gene2245	SACOL2245	gi 57650036 ref NC_002951.2 :2312192-2313080	MR150	M36C05	OK	24.0363	26.451	0.138111	-0.199634	0.84177	0.999883
gene2246	gene2246	SACOL2246	gi 57650036 ref NC_002951.2 :2313260-2314124	MR150	M36C05	OK	53.7293	33.0561	-0.700791	0.974819	0.32965	0.999883
gene2247	gene2247	SACOL2247	gi 57650036 ref NC_002951.2 :2314240-2314372	MR150	M36C05	OK	420.017	53.0518	-2.98497	1.96923	0.04893	0.434992
gene2248	gene2248	SACOL2248	gi 57650036 ref NC_002951.2 :2314542-2315451	MR150	M36C05	OK	17.9255	16.1778	-0.148	0.216778	0.82838	0.999883
gene2249	gene2249	SACOL2250	gi 57650036 ref NC_002951.2 :2315583-2315748	MR150	M36C05	OK	147.519	94.1888	-0.647276	0.809903	0.418	0.999883
gene225	gene225	SACOL0234	gi 57650036 ref NC_002951.2 :272097-272244	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2250	gene2250	SACOL2251	gi 57650036 ref NC_002951.2 :2315992-2316310	MR150	M36C05	OK	56.7177	72.116	0.346521	-0.509029	0.61073	0.999883

gene2251	gene2251	SACOL2252	gi 57650036 ref NC_002951.2 :2316496-2319664	MR150	M36C05	OK	34.8897	33.3754	-0.0640199	0.077539	0.93819	0.999883
gene2252	gene2252	femX	gi 57650036 ref NC_002951.2 :2319780-2321046	MR150	M36C05	OK	41.089	36.093	-0.187032	0.250576	0.80214	0.999883
gene2253	gene2253	SACOL2255	gi 57650036 ref NC_002951.2 :2321677-2322442	MR150	M36C05	OK	12.1939	15.0352	0.302175	-0.443763	0.65721	0.999883
gene2254	gene2254	SACOL2256	gi 57650036 ref NC_002951.2 :2322603-2324248	MR150	M36C05	OK	0.63371	1.37293	1.11538	-0.428962	0.66795	0.999883
gene2255	gene2255	SACOL2257	gi 57650036 ref NC_002951.2 :2322603-2324248	MR150	M36C05	OK	1.9673	2.39671	0.284837	-0.368716	0.71234	0.999883
gene2256	gene2256	sarV	gi 57650036 ref NC_002951.2 :2324349-2324700	MR150	M36C05	OK	15.867	7.88047	-1.00968	1.30579	0.19163	0.851905
gene2257	gene2257	SACOL2259	gi 57650036 ref NC_002951.2 :2324825-2324996	MR150	M36C05	OK	10.8213	0	-1.79769e+3(-1.79769e+	0.10824	0.653986	
gene2258	gene2258	SACOL2260	gi 57650036 ref NC_002951.2 :2325052-2325196	MR150	M36C05	OK	37.5783	24.9484	-0.590949	0.327411	0.74336	0.999883
gene2259	gene2259	moaA	gi 57650036 ref NC_002951.2 :2325390-2326413	MR150	M36C05	OK	58.0531	44.2153	-0.392829	0.525504	0.59923	0.999883
gene226	gene226	SACOL0235	gi 57650036 ref NC_002951.2 :272267-273311	MR150	M36C05	OK	2.35872	3.65816	0.633112	-0.86471	0.3872	0.999883
gene2260	gene2260	mobA	gi 57650036 ref NC_002951.2 :2326432-2327032	MR150	M36C05	OK	47.0655	28.1497	-0.741554	1.07753	0.28124	0.965951
gene2261	gene2261	moaD	gi 57650036 ref NC_002951.2 :2327038-2327272	MR150	M36C05	OK	53.1015	32.0026	-0.73056	0.986095	0.32409	0.999883
gene2262	gene2262	moaE	gi 57650036 ref NC_002951.2 :2327277-2327724	MR150	M36C05	OK	40.8203	44.6641	0.12983	-0.190665	0.84879	0.999883
gene2263	gene2263	mobB	gi 57650036 ref NC_002951.2 :2327737-2329479	MR150	M36C05	OK	52.4043	32.4288	-0.69241	0.490389	0.62386	0.999883
gene2264	gene2264	SACOL2266	gi 57650036 ref NC_002951.2 :2327737-2329479	MR150	M36C05	OK	33.8085	24.025	-0.49285	0.558308	0.57663	0.999883
gene2265	gene2265	moaC	gi 57650036 ref NC_002951.2 :2329541-2330036	MR150	M36C05	OK	102.143	129.134	0.338276	-0.462356	0.64383	0.999883
gene2266	gene2266	moaB	gi 57650036 ref NC_002951.2 :2330037-2330544	MR150	M36C05	OK	27.9047	20.5018	-0.444757	0.65238	0.51416	0.999883
gene2267	gene2267	SACOL2269	gi 57650036 ref NC_002951.2 :2330574-2331579	MR150	M36C05	OK	28.3437	25.8901	-0.130627	0.18617	0.85231	0.999883
gene2268	gene2268	modC	gi 57650036 ref NC_002951.2 :2331748-2332354	MR150	M36C05	OK	52.4027	56.5533	0.109971	-0.15658	0.87558	0.999883
gene2269	gene2269	modB	gi 57650036 ref NC_002951.2 :2332354-2333026	MR150	M36C05	OK	48.3245	55.8794	0.209563	-0.295742	0.76743	0.999883
gene227	gene227	ispD	gi 57650036 ref NC_002951.2 :273838-275573	MR150	M36C05	OK	39.6796	37.562	-0.079122	0.063023	0.94975	0.999883
gene2270	gene2270	modA	gi 57650036 ref NC_002951.2 :2333039-2333822	MR150	M36C05	OK	107.147	106.155	-0.0134241	0.017231	0.98625	0.999883
gene2271	gene2271	fdhD	gi 57650036 ref NC_002951.2 :2334111-2334909	MR150	M36C05	OK	202.778	256.415	0.33858	-0.395999	0.69211	0.999883
gene2272	gene2272	SACOL2274	gi 57650036 ref NC_002951.2 :2335080-2335851	MR150	M36C05	OK	6.70327	2.8981	-1.20976	1.64193	0.1006	0.638047
gene2273	gene2273	SACOL2275	gi 57650036 ref NC_002951.2 :2335922-2336477	MR150	M36C05	OK	4.31077	4.35428	0.0144878	-0.018576	0.98518	0.999883
gene2274	gene2274	SACOL2276	gi 57650036 ref NC_002951.2 :2336597-2337539	MR150	M36C05	OK	5.57197	2.08081	-1.42104	1.92164	0.05465	0.462964
gene2275	gene2275	SACOL2277	gi 57650036 ref NC_002951.2 :2337937-2338846	MR150	M36C05	OK	33.0434	14.4666	-1.19163	1.71889	0.08563	0.584654
gene2276	gene2276	SACOL2278	gi 57650036 ref NC_002951.2 :2339059-2340214	MR150	M36C05	OK	43.2971	41.4464	-0.0630249	0.084565	0.93261	0.999883
gene2277	gene2277	SACOL2279	gi 57650036 ref NC_002951.2 :2340430-2341336	MR150	M36C05	OK	3.03642	4.5303	0.577236	-0.793658	0.4274	0.999883
gene2278	gene2278	ureA	gi 57650036 ref NC_002951.2 :2341595-2341898	MR150	M36C05	OK	1.38047	0	-1.79769e+3(-1.79769e+	0.10824	0.653986	
gene2279	gene2279	ureB	gi 57650036 ref NC_002951.2 :2341911-2344034	MR150	M36C05	OK	2.16612	3.65056	0.753003	-0.368826	0.71226	0.999883
gene228	gene228	SACOL0237	gi 57650036 ref NC_002951.2 :273838-275573	MR150	M36C05	OK	47.4604	33.9086	-0.485073	0.499326	0.61755	0.999883
gene2280	gene2280	ureC	gi 57650036 ref NC_002951.2 :2341911-2344034	MR150	M36C05	OK	2.72789	3.12622	0.196636	-0.267309	0.78923	0.999883

gene2281	gene2281	ureE	gi 57650036 ref NC_002951.2 :2344046-2345181	MR150	M36C05	OK	8.45557	5.66983	-0.576598	0.553846	0.57969	0.999883
gene2282	gene2282	ureF	gi 57650036 ref NC_002951.2 :2344046-2345181	MR150	M36C05	OK	5.31115	3.37802	-0.652846	0.68295	0.49464	0.999883
gene2283	gene2283	ureG	gi 57650036 ref NC_002951.2 :2345193-2346644	MR150	M36C05	OK	9.58958	6.91557	-0.47162	0.440328	0.6597	0.999883
gene2284	gene2284	ureD	gi 57650036 ref NC_002951.2 :2345193-2346644	MR150	M36C05	OK	10.3357	5.71433	-0.854986	0.961472	0.33632	0.999883
gene2285	gene2285	sarR	gi 57650036 ref NC_002951.2 :2346832-2347180	MR150	M36C05	OK	51.5113	78.8037	0.613373	-0.900133	0.36805	0.999883
gene2286	gene2286	SACOL2288	gi 57650036 ref NC_002951.2 :2347607-2347934	MR150	M36C05	OK	177.102	235.791	0.412928	-0.577248	0.56377	0.999883
gene2287	gene2287	sarY	gi 57650036 ref NC_002951.2 :2347997-2348741	MR150	M36C05	OK	1.97001	9.32932	2.24357	-2.93442	0.00334	0.0828218
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	MR150	M36C05	OK	2.70405	11.8619	2.13314	-3.0678	0.00216	0.0607226
gene2289	gene2289	SACOL2291	gi 57650036 ref NC_002951.2 :2351331-2352135	MR150	M36C05	OK	423.329	74.3328	-2.50971	2.99877	0.00271	0.0715959
gene229	gene229	SACOL0238	gi 57650036 ref NC_002951.2 :275594-277289	MR150	M36C05	OK	42.2101	27.573	-0.614331	0.804355	0.42119	0.999883
gene2290	gene2290	nhaC	gi 57650036 ref NC_002951.2 :2352567-2353968	MR150	M36C05	OK	6.37618	19.7338	1.6299	-2.35008	0.01877	0.249236
gene2291	gene2291	SACOL2293	gi 57650036 ref NC_002951.2 :2354062-2355145	MR150	M36C05	OK	4.50918	35.214	2.96521	-4.16434	3.12E-05	0.0020732
gene2292	gene2292	SACOL2294	gi 57650036 ref NC_002951.2 :2355392-2355815	MR150	M36C05	OK	80.7154	39.5223	-1.03018	1.50035	0.13352	0.7248
gene2293	gene2293	SACOL2295	gi 57650036 ref NC_002951.2 :2356051-2356552	MR150	M36C05	OK	1663.33	1354.77	-0.296028	0.308671	0.75757	0.999883
gene2294	gene2294	SACOL2296	gi 57650036 ref NC_002951.2 :2356913-2357867	MR150	M36C05	OK	193.542	219.099	0.178939	-0.206281	0.83657	0.999883
gene2295	gene2295	SACOL2297	gi 57650036 ref NC_002951.2 :2357958-2359083	MR150	M36C05	OK	22.0193	8.5822	-1.35935	1.97209	0.0486	0.433141
gene2296	gene2296	SACOL2298	gi 57650036 ref NC_002951.2 :2359393-2360170	MR150	M36C05	OK	26.0038	12.2365	-1.08753	1.58886	0.11209	0.664916
gene2297	gene2297	SACOL2299	gi 57650036 ref NC_002951.2 :2360191-2360443	MR150	M36C05	OK	24.5289	14.3884	-0.769579	0.951587	0.34131	0.999883
gene2298	gene2298	SACOL2300	gi 57650036 ref NC_002951.2 :2360652-2364080	MR150	M36C05	OK	426.328	1322.73	1.63349	-0.696384	0.48619	0.999883
gene2299	gene2299	SACOL2301	gi 57650036 ref NC_002951.2 :2360652-2364080	MR150	M36C05	OK	201.334	677.855	1.75138	-1.66003	0.09691	0.627301
gene23	gene23	yycI	gi 57650036 ref NC_002951.2 :28819-29608	MR150	M36C05	OK	99.0379	74.7302	-0.406289	0.532656	0.59427	0.999883
gene230	gene230	SACOL0239	gi 57650036 ref NC_002951.2 :277716-278886	MR150	M36C05	OK	35.5232	23.9828	-0.56676	0.78812	0.43063	0.999883
gene2300	gene2300	SACOL2302	gi 57650036 ref NC_002951.2 :2364681-2365635	MR150	M36C05	OK	27.4167	33.64	0.295124	-0.418788	0.67537	0.999883
gene2301	gene2301	SACOL2303	gi 57650036 ref NC_002951.2 :2365761-2366559	MR150	M36C05	OK	39.429	41.3215	0.0676358	-0.095606	0.92383	0.999883
gene2302	gene2302	SACOL2304	gi 57650036 ref NC_002951.2 :2366943-2367636	MR150	M36C05	OK	63.6567	69.163	0.119687	-0.164228	0.86955	0.999883
gene2303	gene2303	SACOL2305	gi 57650036 ref NC_002951.2 :2367991-2369020	MR150	M36C05	OK	3.78043	0.90974	-2.05502	0.405205	0.68533	0.999883
gene2304	gene2304	SACOL2306	gi 57650036 ref NC_002951.2 :2367991-2369020	MR150	M36C05	OK	23.619	16.4061	-0.525711	0.761216	0.44653	0.999883
gene2305	gene2305	SACOL2307	gi 57650036 ref NC_002951.2 :2369068-2369398	MR150	M36C05	OK	1.13418	0	-1.79769e+3(-1.79769e+	0.10824	0.653986	
gene2306	gene2306	SACOL2308	gi 57650036 ref NC_002951.2 :2369842-2370715	MR150	M36C05	OK	105.112	71.4547	-0.55683	0.718752	0.47229	0.999883
gene2307	gene2307	SACOL2309	gi 57650036 ref NC_002951.2 :2371101-2372481	MR150	M36C05	OK	132.129	104.256	-0.341807	0.399066	0.68984	0.999883
gene2308	gene2308	SACOL2310	gi 57650036 ref NC_002951.2 :2372760-2373299	MR150	M36C05	OK	63.1461	62.8951	-0.0057462	0.006244	0.99502	0.999883
gene2309	gene2309	SACOL2311	gi 57650036 ref NC_002951.2 :2372760-2373299	MR150	M36C05	OK	404.935	292.917	-0.4672	0.44101	0.65921	0.999883
gene231	gene231	ispD	gi 57650036 ref NC_002951.2 :279161-280896	MR150	M36C05	OK	41.1602	35.8547	-0.199088	0.114808	0.9086	0.999883

gene2310	gene2310	SACOL2312	gi 57650036 ref NC_002951.2 :2373394-2373586	MR150	M36C05	OK	60.0473	85.6045	0.511588	-0.672591	0.50121	0.999883
gene2311	gene2311	SACOL2313	gi 57650036 ref NC_002951.2 :2373596-2374232	MR150	M36C05	OK	17.203	19.7455	0.198869	-0.292287	0.77007	0.999883
gene2312	gene2312	SACOL2314	gi 57650036 ref NC_002951.2 :2374306-2375224	MR150	M36C05	OK	7.46424	9.5234	0.351481	-0.513342	0.60771	0.999883
gene2313	gene2313	SACOL2315	gi 57650036 ref NC_002951.2 :2375491-2376022	MR150	M36C05	OK	16.1793	3.00235	-2.42998	3.15044	0.00163	0.0497828
gene2314	gene2314	SACOL2316	gi 57650036 ref NC_002951.2 :2376087-2377692	MR150	M36C05	OK	12.2094	21.1031	0.789459	-1.11732	0.26386	0.945311
gene2315	gene2315	SACOL2317	gi 57650036 ref NC_002951.2 :2378021-2378786	MR150	M36C05	OK	19.5103	12.3015	-0.665403	0.97631	0.32891	0.999883
gene2316	gene2316	SACOL2318	gi 57650036 ref NC_002951.2 :2378843-2379350	MR150	M36C05	OK	147.995	206.457	0.480295	-0.625749	0.53148	0.999883
gene2317	gene2317	SACOL2319	gi 57650036 ref NC_002951.2 :2379516-2380830	MR150	M36C05	OK	7.97381	6.92712	-0.203014	0.298436	0.76537	0.999883
gene2318	gene2318	SACOL2320	gi 57650036 ref NC_002951.2 :2381054-2381624	MR150	M36C05	OK	10.7544	19.9923	0.894525	-1.29638	0.19484	0.856906
gene2319	gene2319	SACOL2321	gi 57650036 ref NC_002951.2 :2382110-2382992	MR150	M36C05	OK	50.2914	437.295	3.12022	-3.73614	0.00019	0.0095236
gene232	gene232	SACOL0241	gi 57650036 ref NC_002951.2 :279161-280896	MR150	M36C05	OK	89.7299	80.6331	-0.154216	0.167268	0.86716	0.999883
gene2320	gene2320	SACOL2322	gi 57650036 ref NC_002951.2 :2383102-2384224	MR150	M36C05	OK	18.2707	25.3521	0.472578	-0.676868	0.49849	0.999883
gene2321	gene2321	hutI	gi 57650036 ref NC_002951.2 :2384500-2387400	MR150	M36C05	OK	20.7834	32.8935	0.662372	-0.664002	0.50669	0.999883
gene2322	gene2322	hutU	gi 57650036 ref NC_002951.2 :2384500-2387400	MR150	M36C05	OK	10.5811	17.5658	0.731277	-0.6283	0.52981	0.999883
gene2323	gene2323	SACOL2325	gi 57650036 ref NC_002951.2 :2387559-2388444	MR150	M36C05	OK	44.7065	28.6602	-0.641435	0.903102	0.36647	0.999883
gene2324	gene2324	fosB	gi 57650036 ref NC_002951.2 :2388865-2389285	MR150	M36C05	OK	34.6585	13.5172	-1.35841	1.94458	0.05183	0.447566
gene2325	gene2325	hutG	gi 57650036 ref NC_002951.2 :2389540-2390476	MR150	M36C05	OK	27.2547	334.448	3.61721	-4.46351	8.06E-06	0.000703
gene2326	gene2326	SACOL2328	gi 57650036 ref NC_002951.2 :2390765-2392025	MR150	M36C05	OK	195.049	162.559	-0.262876	0.29684	0.76659	0.999883
gene2327	gene2327	rpiA	gi 57650036 ref NC_002951.2 :2392090-2392777	MR150	M36C05	OK	32.063	21.073	-0.605518	0.88449	0.37643	0.999883
gene2328	gene2328	SACOL2330	gi 57650036 ref NC_002951.2 :2392950-2393604	MR150	M36C05	OK	53.9477	51.2925	-0.0728136	0.103021	0.91795	0.999883
gene2329	gene2329	SACOL2331	gi 57650036 ref NC_002951.2 :2393733-2394859	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene233	gene233	SACOL0242	gi 57650036 ref NC_002951.2 :280917-282606	MR150	M36C05	OK	80.2343	66.7678	-0.265067	0.318209	0.75033	0.999883
gene2330	gene2330	galM	gi 57650036 ref NC_002951.2 :2393733-2394859	MR150	M36C05	OK	8.03017	4.97563	-0.690553	0.999285	0.31766	0.999883
gene2331	gene2331	SACOL2333	gi 57650036 ref NC_002951.2 :2394888-2395215	MR150	M36C05	OK	12.7328	8.3614	-0.606739	0.759181	0.44774	0.999883
gene2332	gene2332	SACOL2334	gi 57650036 ref NC_002951.2 :2395432-2397557	MR150	M36C05	OK	21.4971	27.7485	0.368268	-0.415928	0.67746	0.999883
gene2333	gene2333	SACOL2335	gi 57650036 ref NC_002951.2 :2395432-2397557	MR150	M36C05	OK	16.8434	14.6529	-0.200996	0.149086	0.88149	0.999883
gene2334	gene2334	SACOL2336	gi 57650036 ref NC_002951.2 :2397626-2397725	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2335	gene2335	SACOL2338	gi 57650036 ref NC_002951.2 :2397787-2398435	MR150	M36C05	OK	27.6765	35.9677	0.378042	-0.55086	0.58173	0.999883
gene2336	gene2336	SACOL2339	gi 57650036 ref NC_002951.2 :2398833-2399442	MR150	M36C05	OK	5.98776	4.85807	-0.301634	0.40714	0.68391	0.999883
gene2337	gene2337	gltS	gi 57650036 ref NC_002951.2 :2399778-2400987	MR150	M36C05	OK	41.2843	7.53932	-2.45309	3.43133	0.0006	0.0233697
gene2338	gene2338	fni	gi 57650036 ref NC_002951.2 :2401034-2402084	MR150	M36C05	OK	53.3274	31.3935	-0.764408	1.04108	0.29784	0.979757
gene2339	gene2339	SACOL2342	gi 57650036 ref NC_002951.2 :2402114-2403062	MR150	M36C05	OK	22.7233	17.6923	-0.361057	0.52497	0.5996	0.999883
gene234	gene234	SACOL0243	gi 57650036 ref NC_002951.2 :282641-284363	MR150	M36C05	OK	158.399	95.9513	-0.723189	0.817185	0.41382	0.999883

gene2340	gene2340	SACOL2343	gi 57650036 ref NC_002951.2 :2403158-2404066	MR150	M36C05	OK	74.3795	116.468	0.646953	-0.649352	0.51611	0.999883
gene2341	gene2341	SACOL2344	gi 57650036 ref NC_002951.2 :2403158-2404066	MR150	M36C05	OK	60.9989	128.163	1.07112	-0.913907	0.36077	0.999883
gene2342	gene2342	SACOL2345	gi 57650036 ref NC_002951.2 :2404173-2405076	MR150	M36C05	OK	42.4733	24.6309	-0.786088	1.11187	0.2662	0.949459
gene2343	gene2343	SACOL2346	gi 57650036 ref NC_002951.2 :2405301-2405940	MR150	M36C05	OK	36.2631	29.6669	-0.289648	0.421872	0.67312	0.999883
gene2344	gene2344	SACOL2347	gi 57650036 ref NC_002951.2 :2406185-2408117	MR150	M36C05	OK	5.12927	2.54526	-1.01094	1.471	0.14129	0.739856
gene2345	gene2345	SACOL2348	gi 57650036 ref NC_002951.2 :2408129-2408777	MR150	M36C05	OK	5.80865	1.47813	-1.97443	2.36715	0.01793	0.242627
gene2346	gene2346	SACOL2349	gi 57650036 ref NC_002951.2 :2408897-2409449	MR150	M36C05	OK	46.9524	48.3058	0.0409978	-0.05936	0.95267	0.999883
gene2347	gene2347	tcaB	gi 57650036 ref NC_002951.2 :2409678-2410887	MR150	M36C05	OK	10.9282	11.3636	0.0563652	-0.082694	0.9341	0.999883
gene2348	gene2348	SACOL2351	gi 57650036 ref NC_002951.2 :2410996-2411125	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2349	gene2349	tcaA	gi 57650036 ref NC_002951.2 :2411155-2412538	MR150	M36C05	OK	12.5579	6.24324	-1.00823	1.47389	0.14051	0.736864
gene235	gene235	scdA	gi 57650036 ref NC_002951.2 :284502-285177	MR150	M36C05	OK	39.9625	65.7482	0.718303	-1.01132	0.31186	0.993813
gene2350	gene2350	tcaR	gi 57650036 ref NC_002951.2 :2412777-2413233	MR150	M36C05	OK	50.7412	37.934	-0.419667	0.615207	0.53842	0.999883
gene2351	gene2351	SACOL2354	gi 57650036 ref NC_002951.2 :2413427-2414396	MR150	M36C05	OK	13.3415	28.3942	1.08967	-1.57653	0.1149	0.670749
gene2352	gene2352	SACOL2355	gi 57650036 ref NC_002951.2 :2414970-2415327	MR150	M36C05	OK	3.82704	1.38231	-1.46915	1.24324	0.21378	0.89416
gene2353	gene2353	SACOL2356	gi 57650036 ref NC_002951.2 :2415466-2417187	MR150	M36C05	OK	1.64249	6.63099	2.01334	-1.63366	0.10233	0.641957
gene2354	gene2354	SACOL2357	gi 57650036 ref NC_002951.2 :2415466-2417187	MR150	M36C05	OK	1.96788	6.69839	1.76718	-2.04491	0.04086	0.394682
gene2355	gene2355	SACOL2358	gi 57650036 ref NC_002951.2 :2417322-2419363	MR150	M36C05	OK	9.0238	10.4547	0.212339	-0.111052	0.91158	0.999883
gene2356	gene2356	SACOL2359	gi 57650036 ref NC_002951.2 :2417322-2419363	MR150	M36C05	OK	26.7434	18.9673	-0.495667	0.629338	0.52913	0.999883
gene2357	gene2357	SACOL2360	gi 57650036 ref NC_002951.2 :2419525-2420421	MR150	M36C05	OK	13.7722	19.8914	0.530392	-0.580928	0.56129	0.999883
gene2358	gene2358	SACOL2361	gi 57650036 ref NC_002951.2 :2419525-2420421	MR150	M36C05	OK	14.9239	8.62137	-0.791635	0.727824	0.46672	0.999883
gene2359	gene2359	mqa1	gi 57650036 ref NC_002951.2 :2420486-2421965	MR150	M36C05	OK	237.582	139.79	-0.765161	0.845711	0.39771	0.999883
gene236	gene236	lytS	gi 57650036 ref NC_002951.2 :285423-287178	MR150	M36C05	OK	11.426	10.49	-0.123299	0.178382	0.85842	0.999883
gene2360	gene2360	SACOL2363	gi 57650036 ref NC_002951.2 :2422345-2423944	MR150	M36C05	OK	16.0936	33.5632	1.06039	-1.45169	0.14659	0.743774
gene2361	gene2361	SACOL2364	gi 57650036 ref NC_002951.2 :2424260-2425934	MR150	M36C05	OK	17.561	15.7029	-0.161342	0.227749	0.81984	0.999883
gene2362	gene2362	SACOL2365	gi 57650036 ref NC_002951.2 :2426086-2426716	MR150	M36C05	OK	51.6165	475.898	3.20475	-3.98933	6.63E-05	0.0040248
gene2363	gene2363	SACOL2366	gi 57650036 ref NC_002951.2 :2427029-2427545	MR150	M36C05	OK	10.1671	10.1337	-0.004756	0.006688	0.99466	0.999883
gene2364	gene2364	SACOL2367	gi 57650036 ref NC_002951.2 :2427735-2428740	MR150	M36C05	OK	28.7242	25.4792	-0.172947	0.246485	0.80531	0.999883
gene2365	gene2365	SACOL2368	gi 57650036 ref NC_002951.2 :2428785-2429187	MR150	M36C05	OK	9.79292	14.6908	0.585098	-0.79783	0.42497	0.999883
gene2366	gene2366	SACOL2369	gi 57650036 ref NC_002951.2 :2429222-2430257	MR150	M36C05	OK	9.53654	17.0355	0.837007	-1.22519	0.2205	0.89416
gene2367	gene2367	SACOL2371	gi 57650036 ref NC_002951.2 :2430488-2430920	MR150	M36C05	OK	40.7923	29.4605	-0.469515	0.689399	0.49057	0.999883
gene2368	gene2368	SACOL2372	gi 57650036 ref NC_002951.2 :2430971-2431064	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2369	gene2369	SACOL2373	gi 57650036 ref NC_002951.2 :2431126-2432404	MR150	M36C05	OK	4.12	2.35212	-0.808682	1.13687	0.25559	0.933265
gene237	gene237	lytR	gi 57650036 ref NC_002951.2 :287180-287921	MR150	M36C05	OK	16.6964	6.11813	-1.44837	2.08468	0.0371	0.369812

gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	MR150	M36C05	OK	27.4366	8.85111	-1.63217	2.35806	0.01837	0.245748
gene2371	gene2371	SACOL2375	gi 57650036 ref NC_002951.2 :2433233-2434178	MR150	M36C05	OK	64.3336	27.5336	-1.22438	1.67975	0.09301	0.611738
gene2372	gene2372	SACOL2376	gi 57650036 ref NC_002951.2 :2434263-2435706	MR150	M36C05	OK	4.06613	5.67562	0.481123	-0.701966	0.4827	0.999883
gene2373	gene2373	SACOL2377	gi 57650036 ref NC_002951.2 :2435888-2436272	MR150	M36C05	OK	79.938	138.098	0.788744	-1.12802	0.25931	0.938894
gene2374	gene2374	SACOL2378	gi 57650036 ref NC_002951.2 :2437759-2439865	MR150	M36C05	OK	20.091	12.0844	-0.733408	1.01432	0.31043	0.99362
gene2375	gene2375	SACOL2379	gi 57650036 ref NC_002951.2 :2439935-2440358	MR150	M36C05	OK	158.011	1079.45	2.77221	-3.35725	0.00079	0.0287737
gene2376	gene2376	SACOL2380	gi 57650036 ref NC_002951.2 :2440453-2440576	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2377	gene2377	SACOL2381	gi 57650036 ref NC_002951.2 :2440622-2440979	MR150	M36C05	OK	35.4001	44.2339	0.3214	-0.470102	0.63828	0.999883
gene2378	gene2378	SACOL2382	gi 57650036 ref NC_002951.2 :2441382-2442660	MR150	M36C05	OK	131.556	128.14	-0.0379605	0.044264	0.96469	0.999883
gene2379	gene2379	SACOL2383	gi 57650036 ref NC_002951.2 :2442841-2443207	MR150	M36C05	OK	42.6942	12.4675	-1.77587	2.48732	0.01287	0.194869
gene238	gene238	lrgA	gi 57650036 ref NC_002951.2 :288033-289171	MR150	M36C05	OK	0.62601	2.26039	1.85232	-0.87605	0.381	0.999883
gene2380	gene2380	sarZ	gi 57650036 ref NC_002951.2 :2443604-2444051	MR150	M36C05	OK	14.2253	6.25298	-1.18584	1.59518	0.11067	0.660838
gene2381	gene2381	SACOL2385	gi 57650036 ref NC_002951.2 :2444266-2444695	MR150	M36C05	OK	145.28	101.073	-0.523432	0.729267	0.46584	0.999883
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	MR150	M36C05	OK	2.05245	13.5259	2.7203	-3.78884	0.00015	0.0081136
gene2383	gene2383	SACOL2387	gi 57650036 ref NC_002951.2 :2446340-2447974	MR150	M36C05	NOTEST	0.42832	0.92549	1.11154	-0.693679	0.48788	1
gene2384	gene2384	SACOL2388	gi 57650036 ref NC_002951.2 :2446340-2447974	MR150	M36C05	OK	1.98092	3.263	0.720027	-0.810384	0.41772	0.999883
gene2385	gene2385	SACOL2389	gi 57650036 ref NC_002951.2 :2448231-2448885	MR150	M36C05	OK	37.7634	22.6076	-0.740181	1.07891	0.28063	0.965951
gene2386	gene2386	SACOL2390	gi 57650036 ref NC_002951.2 :2448907-2449942	MR150	M36C05	OK	36.8624	37.7686	0.0350391	-0.048324	0.96146	0.999883
gene2387	gene2387	SACOL2391	gi 57650036 ref NC_002951.2 :2449965-2450418	MR150	M36C05	OK	32.6143	39.2526	0.267283	-0.392923	0.69438	0.999883
gene2388	gene2388	narI	gi 57650036 ref NC_002951.2 :2450437-2456914	MR150	M36C05	OK	19.5357	30.2433	0.630503	-0.553002	0.58026	0.999883
gene2389	gene2389	narJ	gi 57650036 ref NC_002951.2 :2450437-2456914	MR150	M36C05	OK	0.78289	5.36448	2.77656	-0.685906	0.49277	0.999883
gene239	gene239	lrgB	gi 57650036 ref NC_002951.2 :288033-289171	MR150	M36C05	OK	2.1347	6.81407	1.67448	-2.04907	0.04046	0.392458
gene2390	gene2390	narH	gi 57650036 ref NC_002951.2 :2450437-2456914	MR150	M36C05	OK	1.23881	8.3479	2.75246	-1.58885	0.1121	0.664916
gene2391	gene2391	narG	gi 57650036 ref NC_002951.2 :2450437-2456914	MR150	M36C05	OK	0.35115	6.12474	4.12451	-2.35663	0.01844	0.246238
gene2392	gene2392	SACOL2396	gi 57650036 ref NC_002951.2 :2457223-2458506	MR150	M36C05	OK	5.11744	12.0482	1.23533	-1.75445	0.07935	0.560274
gene2393	gene2393	nirD	gi 57650036 ref NC_002951.2 :2457223-2458506	MR150	M36C05	OK	1.26014	3.63897	1.52994	-0.436007	0.66283	0.999883
gene2394	gene2394	nirB	gi 57650036 ref NC_002951.2 :2458509-2460915	MR150	M36C05	OK	1.3193	3.89639	1.56236	-2.23496	0.02542	0.303073
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	MR150	M36C05	OK	0.86332	5.18484	2.58633	-2.92179	0.00348	0.0850894
gene2396	gene2396	SACOL2400	gi 57650036 ref NC_002951.2 :2461941-2462478	MR150	M36C05	OK	15.8919	20.642	0.37729	-0.551127	0.58155	0.999883
gene2397	gene2397	SACOL2401	gi 57650036 ref NC_002951.2 :2462710-2463535	MR150	M36C05	OK	15.4336	13.4133	-0.202414	0.297604	0.76601	0.999883
gene2398	gene2398	SACOL2402	gi 57650036 ref NC_002951.2 :2464017-2464485	MR150	M36C05	OK	21.1059	30.8912	0.549547	-0.804612	0.42104	0.999883
gene2399	gene2399	SACOL2403	gi 57650036 ref NC_002951.2 :2464670-2466221	MR150	M36C05	OK	5.78181	8.64831	0.580898	-0.852655	0.39385	0.999883
gene24	gene24	yycJ	gi 57650036 ref NC_002951.2 :29997-30798	MR150	M36C05	OK	59.1032	48.0898	-0.297505	0.409009	0.68253	0.999883

gene240	gene240	SACOL0249	gi 57650036 ref NC_002951.2 :289278-289983	MR150	M36C05	OK	58.5075	114.494	0.968584	-1.29589	0.19502	0.856906
gene2400	gene2400	SACOL2404	gi 57650036 ref NC_002951.2 :2466515-2467033	MR150	M36C05	OK	17.086	34.0752	0.995909	-0.724217	0.46893	0.999883
gene2401	gene2401	SACOL2405	gi 57650036 ref NC_002951.2 :2466515-2467033	MR150	M36C05	OK	69.1268	105.515	0.610126	-0.773684	0.43912	0.999883
gene2402	gene2402	SACOL2406	gi 57650036 ref NC_002951.2 :2467197-2467296	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2403	gene2403	SACOL2407	gi 57650036 ref NC_002951.2 :2467305-2467905	MR150	M36C05	OK	60.4582	38.9128	-0.635694	0.91065	0.36248	0.999883
gene2404	gene2404	SACOL2408	gi 57650036 ref NC_002951.2 :2467923-2468295	MR150	M36C05	OK	52.7143	36.8086	-0.518152	0.760215	0.44713	0.999883
gene2405	gene2405	fmhA	gi 57650036 ref NC_002951.2 :2468540-2469791	MR150	M36C05	OK	10.7831	7.1329	-0.596211	0.875171	0.38148	0.999883
gene2406	gene2406	SACOL2410	gi 57650036 ref NC_002951.2 :2469887-2472095	MR150	M36C05	OK	354.249	268.989	-0.397214	0.293781	0.76893	0.999883
gene2407	gene2407	SACOL2411	gi 57650036 ref NC_002951.2 :2469887-2472095	MR150	M36C05	OK	217.342	198.769	-0.12888	0.077819	0.93797	0.999883
gene2408	gene2408	SACOL2412	gi 57650036 ref NC_002951.2 :2469887-2472095	MR150	M36C05	OK	138.586	94.7218	-0.549012	0.258138	0.7963	0.999883
gene2409	gene2409	SACOL2413	gi 57650036 ref NC_002951.2 :2472215-2473613	MR150	M36C05	OK	20.8384	22.1756	0.0897324	-0.1261	0.89965	0.999883
gene241	gene241	SACOL0250	gi 57650036 ref NC_002951.2 :290131-290923	MR150	M36C05	OK	0.25863	1.49075	2.5271	-1.9157	0.0554	0.466228
gene2410	gene2410	SACOL2414	gi 57650036 ref NC_002951.2 :2473829-2473934	MR150	M36C05	OK	0	3033.39	1.79769e+30	1.79769e+	0.06916	0.522414
gene2411	gene2411	gpmA	gi 57650036 ref NC_002951.2 :2474087-2474774	MR150	M36C05	OK	118.507	246.304	1.05546	-1.30574	0.19164	0.851905
gene2412	gene2412	SACOL2416	gi 57650036 ref NC_002951.2 :2475099-2475966	MR150	M36C05	OK	16.2988	15.5441	-0.0683999	0.100448	0.91999	0.999883
gene2413	gene2413	SACOL2418	gi 57650036 ref NC_002951.2 :2476717-2478028	MR150	M36C05	OK	17.0935	4.56441	-1.90495	2.75229	0.00592	0.119299
gene2414	gene2414	hlgA	gi 57650036 ref NC_002951.2 :2478563-2479493	MR150	M36C05	OK	21.1858	17.8269	-0.249041	0.362951	0.71664	0.999883
gene2415	gene2415	SACOL2420	gi 57650036 ref NC_002951.2 :2479556-2479682	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2416	gene2416	hlgC	gi 57650036 ref NC_002951.2 :2480060-2481008	MR150	M36C05	OK	10.031	8.10895	-0.306882	0.449643	0.65297	0.999883
gene2417	gene2417	hlgB	gi 57650036 ref NC_002951.2 :2481009-2481987	MR150	M36C05	OK	9.44759	10.7725	0.189341	-0.278228	0.78084	0.999883
gene2418	gene2418	SACOL2423	gi 57650036 ref NC_002951.2 :2482038-2482506	MR150	M36C05	OK	4.56344	3.70694	-0.299894	0.361551	0.71769	0.999883
gene2419	gene2419	bioW	gi 57650036 ref NC_002951.2 :2482516-2483209	MR150	M36C05	OK	1.86312	3.1336	0.750096	-0.913381	0.36104	0.999883
gene242	gene242	bglA	gi 57650036 ref NC_002951.2 :290938-292375	MR150	M36C05	OK	4.45729	7.57453	0.76499	-1.11946	0.26294	0.945085
gene2420	gene2420	SACOL2425	gi 57650036 ref NC_002951.2 :2483219-2485320	MR150	M36C05	OK	1.33748	2.40739	0.847958	-0.864383	0.38738	0.999883
gene2421	gene2421	bioB	gi 57650036 ref NC_002951.2 :2483219-2485320	MR150	M36C05	OK	1.13712	2.59304	1.18926	-1.11318	0.26563	0.948965
gene2422	gene2422	bioA	gi 57650036 ref NC_002951.2 :2485321-2487344	MR150	M36C05	OK	0.66072	1.61693	1.29116	-1.40875	0.15891	0.778782
gene2423	gene2423	bioD	gi 57650036 ref NC_002951.2 :2485321-2487344	MR150	M36C05	OK	0.31434	1.58614	2.3351	-1.23212	0.2179	0.89416
gene2424	gene2424	SACOL2429	gi 57650036 ref NC_002951.2 :2487564-2487708	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	MR150	M36C05	OK	0.29954	1.79623	2.58414	-2.91931	0.00351	0.0851932
gene2426	gene2426	SACOL2431	gi 57650036 ref NC_002951.2 :2489553-2491317	MR150	M36C05	OK	0.5876	1.26847	1.11018	-1.37451	0.16929	0.809726
gene2427	gene2427	SACOL2433	gi 57650036 ref NC_002951.2 :2491944-2492052	MR150	M36C05	OK	17905.4	0	-1.79769e+30	-1.79769e+	0.00327	0.0821387
gene2428	gene2428	SACOL2434	gi 57650036 ref NC_002951.2 :2492186-2492573	MR150	M36C05	OK	6.49166	13.4806	1.05422	-1.36732	0.17153	0.816663
gene2429	gene2429	SACOL2435	gi 57650036 ref NC_002951.2 :2492840-2493983	MR150	M36C05	OK	33.6167	51.7955	0.62365	-0.839213	0.40135	0.999883

gene243	gene243	SACOL0252	gi 57650036 ref NC_002951.2 :292808-293570	MR150	M36C05	OK	1.90695	4.90764	1.36376	-1.74977	0.08016	0.563209
gene2430	gene2430	SACOL2436	gi 57650036 ref NC_002951.2 :2494042-2494702	MR150	M36C05	OK	59.2346	108.922	0.878779	-1.18957	0.23422	0.903045
gene2431	gene2431	bcr	gi 57650036 ref NC_002951.2 :2494883-2496095	MR150	M36C05	OK	64.921	48.37	-0.424573	0.550017	0.58231	0.999883
gene2432	gene2432	SACOL2438	gi 57650036 ref NC_002951.2 :2496217-2496691	MR150	M36C05	OK	6.69625	13.2958	0.989549	-1.35233	0.17627	0.821477
gene2433	gene2433	SACOL2439	gi 57650036 ref NC_002951.2 :2496803-2497460	MR150	M36C05	OK	50.2442	92.0091	0.872818	-1.20115	0.22969	0.898537
gene2434	gene2434	SACOL2440	gi 57650036 ref NC_002951.2 :2497522-2498329	MR150	M36C05	OK	5.04477	7.9962	0.664527	-0.945956	0.34417	0.999883
gene2435	gene2435	SACOL2441	gi 57650036 ref NC_002951.2 :2498614-2500024	MR150	M36C05	OK	101.387	101.396	0.00013592	-0.000161	0.99987	0.999883
gene2436	gene2436	SACOL2442	gi 57650036 ref NC_002951.2 :2500161-2502240	MR150	M36C05	OK	34.2378	22.7566	-0.589302	0.769313	0.44171	0.999883
gene2437	gene2437	SACOL2443	gi 57650036 ref NC_002951.2 :2502379-2504209	MR150	M36C05	OK	40.1245	13.3879	-1.58356	2.12924	0.03323	0.349475
gene2438	gene2438	SACOL2445	gi 57650036 ref NC_002951.2 :2504440-2505937	MR150	M36C05	OK	29.758	21.7567	-0.451822	0.619077	0.53587	0.999883
gene2439	gene2439	SACOL2446	gi 57650036 ref NC_002951.2 :2506028-2506880	MR150	M36C05	OK	21.1356	31.8044	0.589556	-0.851778	0.39434	0.999883
gene244	gene244	rbsK	gi 57650036 ref NC_002951.2 :293820-294735	MR150	M36C05	OK	9.63712	12.6484	0.392277	-0.576096	0.56455	0.999883
gene2440	gene2440	SACOL2448	gi 57650036 ref NC_002951.2 :2507201-2508137	MR150	M36C05	OK	13.1072	6.89274	-0.927211	1.35415	0.17569	0.821477
gene2441	gene2441	SACOL2449	gi 57650036 ref NC_002951.2 :2508362-2509763	MR150	M36C05	OK	36.5993	52.3175	0.515479	-0.672976	0.50096	0.999883
gene2442	gene2442	SACOL2450	gi 57650036 ref NC_002951.2 :2510056-2511693	MR150	M36C05	OK	39.1978	60.0675	0.615813	-0.512776	0.60811	0.999883
gene2443	gene2443	SACOL2451	gi 57650036 ref NC_002951.2 :2510056-2511693	MR150	M36C05	OK	30.749	64.505	1.06887	-1.04937	0.29401	0.977365
gene2444	gene2444	SACOL2452	gi 57650036 ref NC_002951.2 :2511709-2513568	MR150	M36C05	OK	26.6822	46.8324	0.811631	-0.524233	0.60012	0.999883
gene2445	gene2445	SACOL2453	gi 57650036 ref NC_002951.2 :2511709-2513568	MR150	M36C05	OK	26.3945	68.7033	1.38014	-1.52277	0.12782	0.708268
gene2446	gene2446	SACOL2454	gi 57650036 ref NC_002951.2 :2513894-2514014	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2447	gene2447	SACOL2456	gi 57650036 ref NC_002951.2 :2514237-2515000	MR150	M36C05	OK	35.9688	27.0458	-0.411343	0.60144	0.54755	0.999883
gene2448	gene2448	SACOL2457	gi 57650036 ref NC_002951.2 :2514237-2515000	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2449	gene2449	SACOL2458	gi 57650036 ref NC_002951.2 :2515016-2516654	MR150	M36C05	OK	35.2554	30.2763	-0.219656	0.290297	0.77159	0.999883
gene245	gene245	SACOL0254	gi 57650036 ref NC_002951.2 :294762-295167	MR150	M36C05	OK	8.16859	3.75458	-1.12143	1.34353	0.1791	0.823475
gene2450	gene2450	pnbA	gi 57650036 ref NC_002951.2 :2517261-2518614	MR150	M36C05	OK	13.5487	97.1388	2.84189	-3.71182	0.00021	0.0101304
gene2451	gene2451	SACOL2460	gi 57650036 ref NC_002951.2 :2518675-2519863	MR150	M36C05	OK	9.30033	10.1547	0.126792	-0.186393	0.85214	0.999883
gene2452	gene2452	SACOL2461	gi 57650036 ref NC_002951.2 :2520258-2521690	MR150	M36C05	OK	8.49102	50.2842	2.5661	-3.01333	0.00258	0.0700378
gene2453	gene2453	SACOL2462	gi 57650036 ref NC_002951.2 :2520258-2521690	MR150	M36C05	OK	4.95937	24.0742	2.27926	-1.73355	0.083	0.574038
gene2454	gene2454	pepA2	gi 57650036 ref NC_002951.2 :2521937-2523014	MR150	M36C05	OK	69.4971	91.7811	0.401245	-0.507747	0.61163	0.999883
gene2455	gene2455	SACOL2464	gi 57650036 ref NC_002951.2 :2523368-2523892	MR150	M36C05	OK	60.7501	55.8833	-0.12047	0.116936	0.90691	0.999883
gene2456	gene2456	SACOL2465	gi 57650036 ref NC_002951.2 :2523368-2523892	MR150	M36C05	OK	98.0247	67.3241	-0.542021	0.593533	0.55282	0.999883
gene2457	gene2457	SACOL2466	gi 57650036 ref NC_002951.2 :2523997-2524192	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2458	gene2458	SACOL2467	gi 57650036 ref NC_002951.2 :2524250-2524706	MR150	M36C05	OK	18.5056	61.6428	1.73597	-2.51544	0.01189	0.186337
gene2459	gene2459	SACOL2469	gi 57650036 ref NC_002951.2 :2524873-2526451	MR150	M36C05	OK	19.7844	19.8371	0.0038394	-0.005366	0.99572	0.999883

gene246	gene246	SACOL0255	gi 57650036 ref NC_002951.2 :295181-296063	MR150	M36C05	OK	7.40899	6.95402	-0.0914299	0.132427	0.89465	0.999883
gene2460	gene2460	SACOL2470	gi 57650036 ref NC_002951.2 :2526645-2527395	MR150	M36C05	OK	15.5882	11.0327	-0.498667	0.731045	0.46475	0.999883
gene2461	gene2461	SACOL2471	gi 57650036 ref NC_002951.2 :2527618-2528812	MR150	M36C05	OK	4.1599	5.98946	0.525877	-0.761083	0.44661	0.999883
gene2462	gene2462	SACOL2472	gi 57650036 ref NC_002951.2 :2528823-2532179	MR150	M36C05	NOTEST	0.83509	0.60179	-0.472672	0.212433	0.83177	1
gene2463	gene2463	SACOL2473	gi 57650036 ref NC_002951.2 :2528823-2532179	MR150	M36C05	OK	0.74567	1.61166	1.11194	-0.654714	0.51265	0.999883
gene2464	gene2464	SACOL2474	gi 57650036 ref NC_002951.2 :2528823-2532179	MR150	M36C05	OK	0.91414	1.31697	0.526746	-0.331411	0.74033	0.999883
gene2465	gene2465	SACOL2475	gi 57650036 ref NC_002951.2 :2528823-2532179	MR150	M36C05	OK	2.49661	2.54732	0.0290076	-0.029066	0.97681	0.999883
gene2466	gene2466	SACOL2476	gi 57650036 ref NC_002951.2 :2532191-2533790	MR150	M36C05	OK	4.05076	8.74534	1.11032	-1.6224	0.10472	0.649955
gene2467	gene2467	SACOL2477	gi 57650036 ref NC_002951.2 :2533932-2535147	MR150	M36C05	OK	0.45265	1.08619	1.26281	-1.3566	0.17491	0.821477
gene2468	gene2468	SACOL2478	gi 57650036 ref NC_002951.2 :2535226-2536045	MR150	M36C05	OK	1.23676	0.71282	-0.794962	0.820741	0.41179	0.999883
gene2469	gene2469	SACOL2479	gi 57650036 ref NC_002951.2 :2536055-2536877	MR150	M36C05	NOTEST	0.24616	0.53203	1.11191	-0.786674	0.43147	1
gene247	gene247	SACOL0257	gi 57650036 ref NC_002951.2 :296294-297293	MR150	M36C05	OK	5.36632	29.2591	2.44688	-3.49292	0.00048	0.0195727
gene2470	gene2470	SACOL2480	gi 57650036 ref NC_002951.2 :2537024-2537156	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2471	gene2471	SACOL2481	gi 57650036 ref NC_002951.2 :2537619-2537985	MR150	M36C05	OK	7.26709	71.524	3.29898	-4.39938	1.09E-05	0.0008765
gene2472	gene2472	fabG2	gi 57650036 ref NC_002951.2 :2538247-2539066	MR150	M36C05	OK	8.6573	124.921	3.85095	-5.16703	2.38E-07	3.66E-05
gene2473	gene2473	SACOL2483	gi 57650036 ref NC_002951.2 :2539298-2540837	MR150	M36C05	OK	39.0051	116.976	1.58448	-1.93678	0.05277	0.454118
gene2474	gene2474	SACOL2484	gi 57650036 ref NC_002951.2 :2540948-2541371	MR150	M36C05	OK	22.5729	204.034	3.17614	-4.39597	1.10E-05	0.0008765
gene2475	gene2475	SACOL2485	gi 57650036 ref NC_002951.2 :2541822-2542242	MR150	M36C05	OK	94.2711	178.227	0.918826	-1.27371	0.20277	0.872472
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	MR150	M36C05	OK	28.42	79.1006	1.47678	-2.14743	0.03176	0.342022
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	MR150	M36C05	OK	1.36806	5.92835	2.1155	-2.1138	0.03453	0.355995
gene2478	gene2478	SACOL2488	gi 57650036 ref NC_002951.2 :2543618-2544314	MR150	M36C05	OK	59.5683	205.787	1.78853	-2.30624	0.0211	0.272156
gene2479	gene2479	SACOL2489	gi 57650036 ref NC_002951.2 :2544761-2544884	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene248	gene248	SACOL0258	gi 57650036 ref NC_002951.2 :297443-297623	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2480	gene2480	SACOL2491	gi 57650036 ref NC_002951.2 :2545143-2545335	MR150	M36C05	OK	48.0378	166.929	1.79699	-2.37763	0.01742	0.238061
gene2481	gene2481	SACOL2492	gi 57650036 ref NC_002951.2 :2545769-2545892	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2482	gene2482	SACOL2493	gi 57650036 ref NC_002951.2 :2545895-2546690	MR150	M36C05	OK	4.6318	6.11828	0.401552	-0.563443	0.57313	0.999883
gene2483	gene2483	SACOL2494	gi 57650036 ref NC_002951.2 :2547225-2547513	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2484	gene2484	SACOL2495	gi 57650036 ref NC_002951.2 :2547515-2547842	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2485	gene2485	SACOL2496	gi 57650036 ref NC_002951.2 :2548053-2549948	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2486	gene2486	SACOL2497	gi 57650036 ref NC_002951.2 :2548053-2549948	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2487	gene2487	SACOL2498	gi 57650036 ref NC_002951.2 :2550059-2550836	MR150	M36C05	OK	5.57224	4.20628	-0.40571	0.562334	0.57389	0.999883
gene2488	gene2488	SACOL2499	gi 57650036 ref NC_002951.2 :2551138-2554000	MR150	M36C05	OK	10.4155	9.97593	-0.0622051	0.086985	0.93068	0.999883
gene2489	gene2489	SACOL2500	gi 57650036 ref NC_002951.2 :2554001-2554394	MR150	M36C05	OK	11.8083	19.9011	0.753043	-1.04767	0.29479	0.977726

gene249	gene249	SACOL0259	gi 57650036 ref NC_002951.2 :297672-298065	MR150	M36C05	OK	5.51055	4.54882	-0.276704	0.325054	0.74514	0.999883
gene2490	gene2490	SACOL2501	gi 57650036 ref NC_002951.2 :2554510-2556319	MR150	M36C05	OK	31.8902	32.1942	0.0136901	-0.017928	0.9857	0.999883
gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	MR150	M36C05	OK	30.3751	96.7736	1.67173	-2.36751	0.01791	0.242627
gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	MR150	M36C05	OK	5.27132	29.4773	2.48337	-2.97033	0.00297	0.0769228
gene2493	gene2493	SACOL2504	gi 57650036 ref NC_002951.2 :2557642-2558836	MR150	M36C05	OK	3.69769	7.32045	0.985309	-1.42349	0.1546	0.769852
gene2494	gene2494	SACOL2505	gi 57650036 ref NC_002951.2 :2559219-2562951	MR150	M36C05	OK	7.85022	7.83002	-0.0037161	0.005186	0.99586	0.999883
gene2495	gene2495	sarT	gi 57650036 ref NC_002951.2 :2563255-2563612	MR150	M36C05	OK	2.87028	1.38231	-1.05411	0.869199	0.38474	0.999883
gene2496	gene2496	sarU	gi 57650036 ref NC_002951.2 :2563935-2564679	MR150	M36C05	NOTEST	0	0.40562	1.79769e+30	1.79769e+30	0.06916	1
gene2497	gene2497	galU	gi 57650036 ref NC_002951.2 :2564889-2565756	MR150	M36C05	OK	44.994	22.324	-1.01114	1.43425	0.1515	0.757479
gene2498	gene2498	fnbB	gi 57650036 ref NC_002951.2 :2565935-2568758	MR150	M36C05	OK	10.5119	5.37723	-0.967092	1.37919	0.16784	0.806521
gene2499	gene2499	SACOL2510	gi 57650036 ref NC_002951.2 :2568918-2569041	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene25	gene25	SACOL0024	gi 57650036 ref NC_002951.2 :31025-33344	MR150	M36C05	OK	7.01187	4.31646	-0.69995	1.0239	0.30588	0.991033
gene250	gene250	SACOL0260	gi 57650036 ref NC_002951.2 :298292-298697	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2500	gene2500	fnbA	gi 57650036 ref NC_002951.2 :2569439-2572496	MR150	M36C05	OK	41.017	27.2674	-0.589044	0.718113	0.47269	0.999883
gene2501	gene2501	SACOL2513	gi 57650036 ref NC_002951.2 :2572737-2572932	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2502	gene2502	gntP	gi 57650036 ref NC_002951.2 :2572963-2574322	MR150	M36C05	OK	12.5536	6.84819	-0.874309	1.27919	0.20083	0.869538
gene2503	gene2503	gntK	gi 57650036 ref NC_002951.2 :2574438-2575992	MR150	M36C05	OK	7.46577	3.82613	-0.964406	1.40889	0.15887	0.778782
gene2504	gene2504	gntR	gi 57650036 ref NC_002951.2 :2576015-2576696	MR150	M36C05	OK	7.95654	5.73556	-0.472206	0.663806	0.50682	0.999883
gene2505	gene2505	SACOL2517	gi 57650036 ref NC_002951.2 :2576849-2577614	MR150	M36C05	OK	60.4277	53.697	-0.17037	0.234157	0.81486	0.999883
gene2506	gene2506	SACOL2518	gi 57650036 ref NC_002951.2 :2577778-2578471	MR150	M36C05	OK	22.047	19.6969	-0.162612	0.238882	0.8112	0.999883
gene2507	gene2507	SACOL2519	gi 57650036 ref NC_002951.2 :2578701-2579190	MR150	M36C05	OK	86.7909	2623.22	4.91765	-5.75324	8.75E-09	2.04E-06
gene2508	gene2508	SACOL2520	gi 57650036 ref NC_002951.2 :2579256-2581149	MR150	M36C05	OK	10.6758	30.2055	1.50047	-2.05851	0.03954	0.387684
gene2509	gene2509	SACOL2521	gi 57650036 ref NC_002951.2 :2581557-2582835	MR150	M36C05	OK	255.44	201.158	-0.344659	0.379205	0.70454	0.999883
gene251	gene251	SACOL0261	gi 57650036 ref NC_002951.2 :298737-300114	MR150	M36C05	OK	2.47234	2.52877	0.0325578	-0.045418	0.96377	0.999883
gene2510	gene2510	SACOL2522	gi 57650036 ref NC_002951.2 :2583381-2583993	MR150	M36C05	OK	46.4391	99.6677	1.10178	-1.52752	0.12663	0.707666
gene2511	gene2511	SACOL2523	gi 57650036 ref NC_002951.2 :2584089-2585710	MR150	M36C05	OK	3.17726	11.094	1.80392	-2.54521	0.01092	0.176027
gene2512	gene2512	SACOL2524	gi 57650036 ref NC_002951.2 :2584089-2585710	MR150	M36C05	NOTEST	0.57684	0.83304	0.530213	-0.128597	0.89768	1
gene2513	gene2513	SACOL2525	gi 57650036 ref NC_002951.2 :2586137-2586833	MR150	M36C05	OK	6.17288	4.44945	-0.472318	0.649371	0.5161	0.999883
gene2514	gene2514	SACOL2526	gi 57650036 ref NC_002951.2 :2586834-2587605	MR150	M36C05	OK	8.04393	5.603	-0.521701	0.743067	0.45744	0.999883
gene2515	gene2515	SACOL2527	gi 57650036 ref NC_002951.2 :2587977-2589942	MR150	M36C05	OK	103.358	153.231	0.568054	-0.630914	0.5281	0.999883
gene2516	gene2516	SACOL2528	gi 57650036 ref NC_002951.2 :2590285-2591365	MR150	M36C05	OK	36.5444	21.1755	-0.787256	1.10711	0.26825	0.952082
gene2517	gene2517	SACOL2529	gi 57650036 ref NC_002951.2 :2591469-2592063	MR150	M36C05	OK	17.0926	28.0187	0.713025	-1.04586	0.29563	0.978474
gene2518	gene2518	SACOL2530	gi 57650036 ref NC_002951.2 :2592084-2593053	MR150	M36C05	OK	1.99127	7.17024	1.84833	-2.5148	0.01191	0.186337

gene2519	gene2519	SACOL2531	gi 57650036 ref NC_002951.2 :2593130-2593565	MR150	M36C05	OK	18.8403	27.2128	0.530461	-0.770318	0.44111	0.999883
gene252	gene252	SACOL0262	gi 57650036 ref NC_002951.2 :300347-301340	MR150	M36C05	OK	5.4069	9.31702	0.785067	-1.1406	0.25404	0.932194
gene2520	gene2520	SACOL2532	gi 57650036 ref NC_002951.2 :2593791-2594076	MR150	M36C05	OK	62.521	252.557	2.0142	-2.89366	0.00381	0.0910432
gene2521	gene2521	SACOL2533	gi 57650036 ref NC_002951.2 :2594246-2595053	MR150	M36C05	OK	142.515	262.421	0.880771	-1.04799	0.29465	0.977693
gene2522	gene2522	frp	gi 57650036 ref NC_002951.2 :2595172-2595844	MR150	M36C05	OK	193.622	172.314	-0.168201	0.207741	0.83543	0.999883
gene2523	gene2523	SACOL2535	gi 57650036 ref NC_002951.2 :2596113-2597106	MR150	M36C05	OK	1256.14	877.608	-0.517348	0.528999	0.59681	0.999883
gene2524	gene2524	SACOL2536	gi 57650036 ref NC_002951.2 :2597354-2598155	MR150	M36C05	OK	9.68069	4.77227	-1.02044	1.45327	0.14615	0.743774
gene2525	gene2525	SACOL2537	gi 57650036 ref NC_002951.2 :2598475-2599111	MR150	M36C05	OK	4.91514	5.06296	0.0427499	-0.057641	0.95404	0.999883
gene2526	gene2526	SACOL2538	gi 57650036 ref NC_002951.2 :2599116-2599848	MR150	M36C05	OK	6.90656	7.46616	0.112401	-0.160312	0.87264	0.999883
gene2527	gene2527	srtA	gi 57650036 ref NC_002951.2 :2600007-2600628	MR150	M36C05	OK	133.07	95.6976	-0.475627	0.627736	0.53018	0.999883
gene2528	gene2528	SACOL2541	gi 57650036 ref NC_002951.2 :2600821-2601313	MR150	M36C05	OK	10.9998	32.5202	1.56386	-2.24789	0.02458	0.297509
gene2529	gene2529	SACOL2542	gi 57650036 ref NC_002951.2 :2601750-2601921	MR150	M36C05	OK	10.8213	7.63295	-0.503566	0.278997	0.78025	0.999883
gene253	gene253	lytM	gi 57650036 ref NC_002951.2 :301647-302616	MR150	M36C05	OK	127.84	156.741	0.294051	-0.353055	0.72405	0.999883
gene2530	gene2530	SACOL2543	gi 57650036 ref NC_002951.2 :2601982-2602081	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2531	gene2531	sdaAA	gi 57650036 ref NC_002951.2 :2602099-2602999	MR150	M36C05	OK	7.87482	9.45347	0.263598	-0.385063	0.70019	0.999883
gene2532	gene2532	sdaAB	gi 57650036 ref NC_002951.2 :2603012-2603693	MR150	M36C05	OK	1.90957	1.83538	-0.0571682	0.066093	0.9473	0.999883
gene2533	gene2533	SACOL2546	gi 57650036 ref NC_002951.2 :2603695-2604739	MR150	M36C05	OK	1.63296	2.74362	0.748589	-0.977591	0.32828	0.999883
gene2534	gene2534	SACOL2547	gi 57650036 ref NC_002951.2 :2605290-2605494	MR150	M36C05	OK	45.9906	49.2491	0.0987582	-0.12732	0.89869	0.999883
gene2535	gene2535	SACOL2548	gi 57650036 ref NC_002951.2 :2605649-2606612	MR150	M36C05	OK	26.4914	32.8092	0.308576	-0.438475	0.66104	0.999883
gene2536	gene2536	SACOL2549	gi 57650036 ref NC_002951.2 :2606693-2607662	MR150	M36C05	OK	60.3355	87.9071	0.542972	-0.703986	0.48144	0.999883
gene2537	gene2537	SACOL2550	gi 57650036 ref NC_002951.2 :2607794-2608139	MR150	M36C05	OK	17.4928	55.7528	1.67228	-2.37742	0.01743	0.238061
gene2538	gene2538	SACOL2551	gi 57650036 ref NC_002951.2 :2608180-2608591	MR150	M36C05	OK	29.6037	46.9358	0.664911	-0.975058	0.32953	0.999883
gene2539	gene2539	SACOL2552	gi 57650036 ref NC_002951.2 :2608970-2611037	MR150	M36C05	OK	3.03557	3.83684	0.337952	-0.494385	0.62103	0.999883
gene254	gene254	SACOL0264	gi 57650036 ref NC_002951.2 :302667-303327	MR150	M36C05	OK	10.9817	7.19747	-0.60954	0.871622	0.38342	0.999883
gene2540	gene2540	SACOL2553	gi 57650036 ref NC_002951.2 :2611337-2613077	MR150	M36C05	OK	22.975	169.691	2.88477	-3.47673	0.00051	0.020294
gene2541	gene2541	SACOL2554	gi 57650036 ref NC_002951.2 :2613123-2614201	MR150	M36C05	OK	9.68503	117.105	3.5959	-4.80436	1.55E-06	0.0001628
gene2542	gene2542	SACOL2554.1	gi 57650036 ref NC_002951.2 :2613123-2614201	MR150	M36C05	NOTEST	0	0.56021	1.79769e+30	1.79769e+30	0.45417	1
gene2543	gene2543	SACOL2555	gi 57650036 ref NC_002951.2 :2614413-2615298	MR150	M36C05	OK	16.5414	20.4486	0.305919	-0.447456	0.65455	0.999883
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	MR150	M36C05	OK	4982.77	1548.34	-1.68623	1.99582	0.04595	0.421504
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	MR150	M36C05	OK	159.222	52.7438	-1.59396	2.24113	0.02502	0.300717
gene2546	gene2546	SACOL2559	gi 57650036 ref NC_002951.2 :2617256-2617514	MR150	M36C05	OK	4.17126	2.99218	-0.479285	0.375537	0.70726	0.999883
gene2547	gene2547	SACOL2560	gi 57650036 ref NC_002951.2 :2618092-2619370	MR150	M36C05	OK	40.7738	23.419	-0.799966	1.09395	0.27398	0.958793
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	MR150	M36C05	OK	102.149	30.2141	-1.75738	2.27212	0.02308	0.288469

gene2549	gene2549	ogt	gi 57650036 ref NC_002951.2 :2620959-2621481	MR150	M36C05	OK	361.592	292.857	-0.304164	0.366876	0.71371	0.999883
gene255	gene255	SACOL0265	gi 57650036 ref NC_002951.2 :303340-305424	MR150	M36C05	OK	2.7609	5.04779	0.870512	-0.742286	0.45791	0.999883
gene2550	gene2550	SACOL2563	gi 57650036 ref NC_002951.2 :2621889-2623995	MR150	M36C05	OK	10.6884	307.139	4.84477	-5.72455	1.04E-08	2.35E-06
gene2551	gene2551	feoB	gi 57650036 ref NC_002951.2 :2624246-2626241	MR150	M36C05	OK	1.02399	2.27169	1.14957	-1.57703	0.11479	0.670749
gene2552	gene2552	SACOL2565	gi 57650036 ref NC_002951.2 :2626252-2626480	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	MR150	M36C05	OK	7.29104	1.3955	-2.38534	3.40265	0.00067	0.0252863
gene2554	gene2554	SACOL2567	gi 57650036 ref NC_002951.2 :2629392-2629878	MR150	M36C05	OK	2.13895	7.33508	1.77791	-2.08575	0.037	0.369812
gene2555	gene2555	SACOL2568	gi 57650036 ref NC_002951.2 :2629954-2630122	MR150	M36C05	OK	24.007	8.4513	-1.50621	0.93838	0.34805	0.999883
gene2556	gene2556	SACOL2569	gi 57650036 ref NC_002951.2 :2630233-2631778	MR150	M36C05	OK	264.302	287.652	0.122133	-0.129165	0.89723	0.999883
gene2557	gene2557	SACOL2570	gi 57650036 ref NC_002951.2 :2631967-2632567	MR150	M36C05	OK	14.9232	24.562	0.718867	-1.05339	0.29216	0.976283
gene2558	gene2558	SACOL2571	gi 57650036 ref NC_002951.2 :2632805-2632997	MR150	M36C05	OK	180.142	107.006	-0.751446	1.06238	0.28806	0.975616
gene2559	gene2559	SACOL2572	gi 57650036 ref NC_002951.2 :2633236-2635645	MR150	M36C05	OK	30.5801	86.7515	1.5043	-1.79458	0.07272	0.528391
gene256	gene256	SACOL0266	gi 57650036 ref NC_002951.2 :303340-305424	MR150	M36C05	OK	5.70134	4.33259	-0.39607	0.457797	0.6471	0.999883
gene2560	gene2560	SACOL2573	gi 57650036 ref NC_002951.2 :2635935-2636142	MR150	M36C05	OK	186.331	247.571	0.409973	-0.601772	0.54733	0.999883
gene2561	gene2561	SACOL2574	gi 57650036 ref NC_002951.2 :2636231-2637230	MR150	M36C05	OK	50.7883	89.4335	0.816317	-1.06163	0.2884	0.975616
gene2562	gene2562	SACOL2575	gi 57650036 ref NC_002951.2 :2637252-2638407	MR150	M36C05	OK	21.0071	37.2902	0.827918	-1.15533	0.24796	0.922459
gene2563	gene2563	crtN	gi 57650036 ref NC_002951.2 :2638833-2640342	MR150	M36C05	OK	12.6366	36.0407	1.51202	-2.08736	0.03686	0.369812
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	MR150	M36C05	OK	10.3769	39.5345	1.92974	-2.76672	0.00566	0.116747
gene2565	gene2565	SACOL2578	gi 57650036 ref NC_002951.2 :2641253-2644361	MR150	M36C05	OK	12.7482	95.6652	2.9077	-2.13154	0.03304	0.34869
gene2566	gene2566	SACOL2579	gi 57650036 ref NC_002951.2 :2641253-2644361	MR150	M36C05	OK	14.5584	99.8358	2.7777	-2.48802	0.01285	0.194869
gene2567	gene2567	SACOL2580	gi 57650036 ref NC_002951.2 :2641253-2644361	MR150	M36C05	OK	8.99662	81.7607	3.18395	-1.1504	0.24998	0.924551
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	MR150	M36C05	OK	526.693	159.656	-1.72199	1.97353	0.04843	0.43221
gene2569	gene2569	SACOL2582	gi 57650036 ref NC_002951.2 :2645663-2647475	MR150	M36C05	OK	33.0661	19.2122	-0.783329	1.05042	0.29352	0.976946
gene257	gene257	SACOL0267	gi 57650036 ref NC_002951.2 :305491-307015	MR150	M36C05	OK	27.1848	31.7193	0.22256	-0.299864	0.76428	0.999883
gene2570	gene2570	SACOL2583	gi 57650036 ref NC_002951.2 :2647986-2648475	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	MR150	M36C05	OK	2945.28	402.47	-2.87145	3.08407	0.00204	0.0581771
gene2572	gene2572	SACOL2585	gi 57650036 ref NC_002951.2 :2650059-2651115	MR150	M36C05	OK	2.68347	3.73564	0.477257	-0.659161	0.50979	0.999883
gene2573	gene2573	SACOL2587	gi 57650036 ref NC_002951.2 :2651491-2652094	MR150	M36C05	OK	19.3699	12.8742	-0.589333	0.861004	0.38924	0.999883
gene2574	gene2574	SACOL2588	gi 57650036 ref NC_002951.2 :2652291-2652792	MR150	M36C05	OK	5.08197	3.30163	-0.62221	0.764086	0.44482	0.999883
gene2575	gene2575	SACOL2589	gi 57650036 ref NC_002951.2 :2653011-2653242	MR150	M36C05	OK	5.82901	20.8522	1.83888	-1.81664	0.06927	0.522414
gene2576	gene2576	SACOL2590	gi 57650036 ref NC_002951.2 :2653391-2653769	MR150	M36C05	OK	35.722	47.3052	0.405187	-0.594538	0.55215	0.999883
gene2577	gene2577	SACOL2591	gi 57650036 ref NC_002951.2 :2653785-2654607	MR150	M36C05	OK	13.0464	15.4289	0.241975	-0.355746	0.72203	0.999883
gene2578	gene2578	SACOL2592	gi 57650036 ref NC_002951.2 :2654626-2654926	MR150	M36C05	OK	1.41379	2.03801	0.52759	-0.347117	0.7285	0.999883

gene2579	gene2579	SACOL2593	gi 57650036 ref NC_002951.2 :2655056-2656311	MR150	M36C05	OK	11.1143	2.77569	-2.00149	1.98519	0.04712	0.426221
gene258	gene258	SACOL0268	gi 57650036 ref NC_002951.2 :307285-307939	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2580	gene2580	SACOL2594	gi 57650036 ref NC_002951.2 :2655056-2656311	MR150	M36C05	OK	4.85036	2.62201	-0.88742	0.848984	0.39589	0.999883
gene2581	gene2581	SACOL2595	gi 57650036 ref NC_002951.2 :2656320-2657419	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2582	gene2582	SACOL2596	gi 57650036 ref NC_002951.2 :2656320-2657419	MR150	M36C05	OK	9.06334	6.25463	-0.535118	0.773944	0.43896	0.999883
gene2583	gene2583	SACOL2597	gi 57650036 ref NC_002951.2 :2657438-2658269	MR150	M36C05	OK	18.1988	83.2097	2.19291	-3.02632	0.00248	0.0683793
gene2584	gene2584	SACOL2598	gi 57650036 ref NC_002951.2 :2658415-2659306	MR150	M36C05	OK	4.87503	6.22489	0.352636	-0.502478	0.61533	0.999883
gene2585	gene2585	SACOL2599	gi 57650036 ref NC_002951.2 :2659403-2660723	MR150	M36C05	OK	8.06785	4.72456	-0.772005	1.12877	0.259	0.938582
gene2586	gene2586	SACOL2600	gi 57650036 ref NC_002951.2 :2660737-2661844	MR150	M36C05	OK	8.44213	6.19982	-0.445381	0.651766	0.51455	0.999883
gene2587	gene2587	SACOL2601	gi 57650036 ref NC_002951.2 :2662177-2662830	MR150	M36C05	OK	4.34557	10.4359	1.26393	-0.893648	0.37151	0.999883
gene2588	gene2588	SACOL2602	gi 57650036 ref NC_002951.2 :2662177-2662830	MR150	M36C05	OK	8.03925	14.1953	0.82028	-0.947749	0.34326	0.999883
gene2589	gene2589	SACOL2603	gi 57650036 ref NC_002951.2 :2662844-2663123	MR150	M36C05	OK	1.69174	7.29727	2.10885	-1.5741	0.11546	0.671711
gene259	gene259	SACOL0269	gi 57650036 ref NC_002951.2 :307972-308560	MR150	M36C05	NOTEST	0.78893	0.85358	0.113629	-0.099032	0.92111	1
gene2590	gene2590	SACOL2605	gi 57650036 ref NC_002951.2 :2663464-2664274	MR150	M36C05	OK	4.01598	51.7193	3.68688	-5.06143	4.16E-07	5.79E-05
gene2591	gene2591	pyrD	gi 57650036 ref NC_002951.2 :2664548-2665613	MR150	M36C05	OK	3.71778	2.54947	-0.544244	0.749845	0.45335	0.999883
gene2592	gene2592	SACOL2607	gi 57650036 ref NC_002951.2 :2665767-2666043	MR150	M36C05	OK	41.7473	40.0039	-0.0615449	0.087391	0.93036	0.999883
gene2593	gene2593	SACOL2608	gi 57650036 ref NC_002951.2 :2666228-2666951	MR150	M36C05	OK	27.2231	12.8691	-1.08093	1.57994	0.11412	0.670364
gene2594	gene2594	SACOL2609	gi 57650036 ref NC_002951.2 :2667304-2667754	MR150	M36C05	OK	1837.71	1036.24	-0.82655	0.881488	0.37805	0.999883
gene2595	gene2595	SACOL2610	gi 57650036 ref NC_002951.2 :2667834-2668422	MR150	M36C05	OK	13.4119	15.649	0.222563	-0.324306	0.74571	0.999883
gene2596	gene2596	SACOL2612	gi 57650036 ref NC_002951.2 :2668554-2670237	MR150	M36C05	OK	6.19683	6.31733	0.0277851	-0.040857	0.96741	0.999883
gene2597	gene2597	panD	gi 57650036 ref NC_002951.2 :2670365-2670749	MR150	M36C05	OK	41.2052	19.0481	-1.11318	1.60607	0.10826	0.653986
gene2598	gene2598	panC	gi 57650036 ref NC_002951.2 :2670750-2672413	MR150	M36C05	OK	20.6659	24.6992	0.257213	-0.228293	0.81942	0.999883
gene2599	gene2599	panB	gi 57650036 ref NC_002951.2 :2670750-2672413	MR150	M36C05	OK	32.403	32.0767	-0.0146038	0.015088	0.98796	0.999883
gene26	gene26	SACOL0025	gi 57650036 ref NC_002951.2 :33575-34055	MR150	M36C05	OK	46.4214	33.5158	-0.469949	0.688993	0.49083	0.999883
gene260	gene260	SACOL0270	gi 57650036 ref NC_002951.2 :308702-309596	MR150	M36C05	OK	6.83968	8.74069	0.353818	-0.514375	0.60699	0.999883
gene2600	gene2600	SACOL2616	gi 57650036 ref NC_002951.2 :2672485-2673346	MR150	M36C05	OK	17.3733	18.1884	0.0661483	-0.096958	0.92276	0.999883
gene2601	gene2601	budA2	gi 57650036 ref NC_002951.2 :2673431-2674136	MR150	M36C05	OK	28.4959	16.8246	-0.760185	1.11268	0.26585	0.948966
gene2602	gene2602	ldh2	gi 57650036 ref NC_002951.2 :2674413-2675373	MR150	M36C05	OK	11.2831	26.4091	1.22687	-1.78129	0.07486	0.539636
gene2603	gene2603	SACOL2619	gi 57650036 ref NC_002951.2 :2676059-2677508	MR150	M36C05	OK	82.5261	280.475	1.76495	-1.99212	0.04636	0.423595
gene2604	gene2604	SACOL2620	gi 57650036 ref NC_002951.2 :2677588-2678926	MR150	M36C05	OK	15.2077	101.811	2.74302	-3.56745	0.00036	0.015577
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	MR150	M36C05	OK	4.91781	104.02	4.4027	-5.70995	1.13E-08	2.48E-06
gene2606	gene2606	fdaB	gi 57650036 ref NC_002951.2 :2679722-2680613	MR150	M36C05	OK	197.882	550.663	1.47653	-1.63573	0.1019	0.641366
gene2607	gene2607	mqa2	gi 57650036 ref NC_002951.2 :2680805-2682302	MR150	M36C05	OK	457.943	309.947	-0.563145	0.585209	0.55841	0.999883

gene2608	gene2608	SACOL2624	gi 57650036 ref NC_002951.2 :2682986-2684585	MR150	M36C05	OK	107.509	161.513	0.587186	-0.664705	0.50624	0.999883
gene2609	gene2609	SACOL2625	gi 57650036 ref NC_002951.2 :2684778-2685222	MR150	M36C05	OK	16.9022	195.298	3.53039	-4.84913	1.24E-06	0.000136
gene261	gene261	SACOL0271	gi 57650036 ref NC_002951.2 :309843-310137	MR150	M36C05	OK	437.991	1084.18	1.30763	-1.64343	0.10029	0.638047
gene2610	gene2610	SACOL2626	gi 57650036 ref NC_002951.2 :2685502-2685715	MR150	M36C05	OK	62.0228	27.7004	-1.16289	1.4884	0.13665	0.732537
gene2611	gene2611	betA	gi 57650036 ref NC_002951.2 :2685992-2687702	MR150	M36C05	OK	115.838	2.91968	-5.31016	6.70552	2.01E-11	9.68E-09
gene2612	gene2612	betB	gi 57650036 ref NC_002951.2 :2687962-2689453	MR150	M36C05	OK	195.75	2.81761	-6.11839	7.51194	5.82E-14	7.00E-11
gene2613	gene2613	SACOL2629	gi 57650036 ref NC_002951.2 :2689521-2689617	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2614	gene2614	SACOL2630	gi 57650036 ref NC_002951.2 :2689705-2690269	MR150	M36C05	OK	42.4641	10.0095	-2.08487	2.99535	0.00274	0.0721416
gene2615	gene2615	SACOL2631	gi 57650036 ref NC_002951.2 :2690456-2691143	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2616	gene2616	cudT	gi 57650036 ref NC_002951.2 :2691406-2693029	MR150	M36C05	OK	154.24	3.40812	-5.50006	6.85945	6.91E-12	3.85E-09
gene2617	gene2617	nrdG	gi 57650036 ref NC_002951.2 :2693547-2695931	MR150	M36C05	OK	18.1622	85.1893	2.22973	-1.7505	0.08003	0.562869
gene2618	gene2618	nrdD	gi 57650036 ref NC_002951.2 :2693547-2695931	MR150	M36C05	OK	6.12305	35.1131	2.51969	-2.69761	0.00698	0.13442
gene2619	gene2619	SACOL2636	gi 57650036 ref NC_002951.2 :2696177-2697548	MR150	M36C05	OK	0.78474	1.88277	1.26257	-1.57245	0.11585	0.672851
gene262	gene262	SACOL0272	gi 57650036 ref NC_002951.2 :310220-313922	MR150	M36C05	OK	6.6578	5.48996	-0.278252	0.378048	0.7054	0.999883
gene2620	gene2620	SACOL2637	gi 57650036 ref NC_002951.2 :2697869-2697965	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2621	gene2621	SACOL2638	gi 57650036 ref NC_002951.2 :2698040-2698646	MR150	M36C05	OK	8.67095	3.80647	-1.18773	1.59773	0.1101	0.659073
gene2622	gene2622	cysJ	gi 57650036 ref NC_002951.2 :2698708-2700589	MR150	M36C05	OK	7.10722	3.99934	-0.829522	1.21567	0.22411	0.89446
gene2623	gene2623	SACOL2640	gi 57650036 ref NC_002951.2 :2700783-2700876	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2624	gene2624	gpxA2	gi 57650036 ref NC_002951.2 :2700983-2701481	MR150	M36C05	OK	2.56647	12.2278	2.2523	-2.79328	0.00522	0.110421
gene2625	gene2625	SACOL2642	gi 57650036 ref NC_002951.2 :2702175-2702289	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2626	gene2626	SACOL2643	gi 57650036 ref NC_002951.2 :2702904-2705666	MR150	M36C05	OK	8.93007	6.05805	-0.559817	0.718053	0.47273	0.999883
gene2627	gene2627	SACOL2644	gi 57650036 ref NC_002951.2 :2702904-2705666	MR150	M36C05	OK	7.85832	5.0768	-0.630299	0.419426	0.67491	0.999883
gene2628	gene2628	nsaS	gi 57650036 ref NC_002951.2 :2705764-2706652	MR150	M36C05	OK	14.0212	5.77114	-1.28068	1.85667	0.06336	0.504373
gene2629	gene2629	SACOL2646	gi 57650036 ref NC_002951.2 :2706662-2707328	MR150	M36C05	OK	22.0093	12.5515	-0.810255	1.18654	0.23541	0.904919
gene263	gene263	SACOL0273	gi 57650036 ref NC_002951.2 :310220-313922	MR150	M36C05	OK	9.4416	6.39165	-0.562842	0.261717	0.79354	0.999883
gene2630	gene2630	SACOL2647	gi 57650036 ref NC_002951.2 :2707353-2707554	MR150	M36C05	OK	29.3703	13.9733	-1.07168	1.12577	0.26026	0.939875
gene2631	gene2631	SACOL2648	gi 57650036 ref NC_002951.2 :2707751-2709176	MR150	M36C05	OK	1.87539	3.23948	0.788573	-1.09814	0.27214	0.956064
gene2632	gene2632	SACOL2649	gi 57650036 ref NC_002951.2 :2709235-2709337	MR150	M36C05	OK	6494.11	0	-1.79769e+3(-1.79769e+	0.10824	0.653986	
gene2633	gene2633	SACOL2650	gi 57650036 ref NC_002951.2 :2709458-2709914	MR150	M36C05	OK	19.6995	16.8117	-0.228699	0.330302	0.74117	0.999883
gene2634	gene2634	SACOL2651	gi 57650036 ref NC_002951.2 :2710158-2710920	MR150	M36C05	OK	6.2657	7.85223	0.325625	-0.465211	0.64178	0.999883
gene2635	gene2635	clfB	gi 57650036 ref NC_002951.2 :2711035-2713777	MR150	M36C05	OK	77.9766	130.089	0.738389	-0.808553	0.41877	0.999883
gene2636	gene2636	SACOL2653	gi 57650036 ref NC_002951.2 :2714126-2714813	MR150	M36C05	OK	42.122	24.925	-0.756981	1.09603	0.27306	0.958372
gene2637	gene2637	arcC2	gi 57650036 ref NC_002951.2 :2714929-2715871	MR150	M36C05	OK	18.5732	11.4444	-0.698579	1.02329	0.30617	0.991033

gene2638	gene2638	arcD	gi 57650036 ref NC_002951.2 :2715887-2717318	MR150	M36C05	OK	7.83826	9.93969	0.342667	-0.502778	0.61512	0.999883
gene2639	gene2639	arcB2	gi 57650036 ref NC_002951.2 :2717408-2718419	MR150	M36C05	OK	5.47577	4.89493	-0.161773	0.232219	0.81637	0.999883
gene264	gene264	SACOL0274	gi 57650036 ref NC_002951.2 :310220-313922	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	MR150	M36C05	OK	7.8348	2.55397	-1.61715	2.30091	0.0214	0.273585
gene2641	gene2641	SACOL2658	gi 57650036 ref NC_002951.2 :2720033-2720483	MR150	M36C05	OK	1.83344	2.64798	0.530342	-0.54258	0.58742	0.999883
gene2642	gene2642	aur	gi 57650036 ref NC_002951.2 :2720849-2722379	MR150	M36C05	OK	2.41832	1.16028	-1.05954	1.42029	0.15552	0.769852
gene2643	gene2643	isaB	gi 57650036 ref NC_002951.2 :2722802-2723330	MR150	M36C05	NOTEST	0	0.6733	1.79769e+30	1.79769e+30	0.06916	1
gene2644	gene2644	SACOL2661	gi 57650036 ref NC_002951.2 :2723587-2724046	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2645	gene2645	SACOL2662	gi 57650036 ref NC_002951.2 :2724285-2726160	MR150	M36C05	OK	4.20645	4.80325	0.191409	-0.281123	0.77862	0.999883
gene2646	gene2646	SACOL2663	gi 57650036 ref NC_002951.2 :2726236-2728189	MR150	M36C05	OK	4.1067	5.28098	0.362828	-0.53307	0.59399	0.999883
gene2647	gene2647	manA2	gi 57650036 ref NC_002951.2 :2728202-2729141	MR150	M36C05	OK	7.66665	9.10322	0.247781	-0.362232	0.71718	0.999883
gene2648	gene2648	SACOL2665	gi 57650036 ref NC_002951.2 :2729252-2732234	MR150	M36C05	OK	21.199	10.8129	-0.971235	1.29676	0.19471	0.856906
gene2649	gene2649	SACOL2666	gi 57650036 ref NC_002951.2 :2732444-2734304	MR150	M36C05	OK	41.4295	72.7665	0.812617	-0.995696	0.3194	0.999883
gene265	gene265	SACOL0275	gi 57650036 ref NC_002951.2 :313934-315269	MR150	M36C05	OK	1.88911	1.74828	-0.111776	0.149669	0.88103	0.999883
gene2650	gene2650	SACOL2667	gi 57650036 ref NC_002951.2 :2734570-2735131	MR150	M36C05	OK	81.8175	120.502	0.558581	-0.758814	0.44796	0.999883
gene2651	gene2651	SACOL2668	gi 57650036 ref NC_002951.2 :2735298-2737206	MR150	M36C05	OK	24.7512	56.1377	1.18147	-1.5046	0.13243	0.721045
gene2652	gene2652	SACOL2669	gi 57650036 ref NC_002951.2 :2737447-2740307	MR150	M36C05	OK	16.2536	50.1249	1.62477	-1.29405	0.19565	0.858652
gene2653	gene2653	SACOL2670	gi 57650036 ref NC_002951.2 :2737447-2740307	MR150	M36C05	OK	17.5508	69.3869	1.98313	-1.87367	0.06098	0.498626
gene2654	gene2654	SACOL2671	gi 57650036 ref NC_002951.2 :2740324-2746753	MR150	M36C05	OK	14.4019	75.7456	2.3949	-2.71111	0.00671	0.130108
gene2655	gene2655	SACOL2672	gi 57650036 ref NC_002951.2 :2740324-2746753	MR150	M36C05	OK	4.23117	2.03147	-1.05853	0.155081	0.87676	0.999883
gene2656	gene2656	SACOL2673	gi 57650036 ref NC_002951.2 :2740324-2746753	MR150	M36C05	OK	1.90194	2.2544	0.245277	-0.048197	0.96156	0.999883
gene2657	gene2657	SACOL2674	gi 57650036 ref NC_002951.2 :2740324-2746753	MR150	M36C05	OK	2.60171	1.46533	-0.828237	0.136679	0.89129	0.999883
gene2658	gene2658	secY	gi 57650036 ref NC_002951.2 :2746763-2747975	MR150	M36C05	OK	2.26996	0.65365	-1.79608	2.14146	0.03224	0.344846
gene2659	gene2659	SACOL2676	gi 57650036 ref NC_002951.2 :2748104-2754890	MR150	M36C05	OK	9.74625	6.95877	-0.486015	0.632426	0.52711	0.999883
gene266	gene266	yukA	gi 57650036 ref NC_002951.2 :315290-319730	MR150	M36C05	OK	3.32394	1.5851	-1.06832	1.56182	0.11833	0.682358
gene2660	gene2660	SACOL2677	gi 57650036 ref NC_002951.2 :2755243-2755354	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2661	gene2661	SACOL2678	gi 57650036 ref NC_002951.2 :2755434-2756127	MR150	M36C05	OK	0.31052	2.46211	2.98714	-2.2955	0.0217	0.276542
gene2662	gene2662	SACOL2680	gi 57650036 ref NC_002951.2 :2756807-2757110	MR150	M36C05	OK	0	5.97231	1.79769e+30	1.79769e+30	0.0141	0.204943
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	MR150	M36C05	OK	14.1018	634.983	5.49277	-7.01291	2.33E-12	1.88E-09
gene2664	gene2664	SACOL2682	gi 57650036 ref NC_002951.2 :2757707-2758319	MR150	M36C05	OK	2.60059	30.2754	3.54123	-4.64805	3.35E-06	0.0003191
gene2665	gene2665	SACOL2683	gi 57650036 ref NC_002951.2 :2758397-2758874	MR150	M36C05	OK	3.31209	2.39135	-0.469916	0.524453	0.59996	0.999883
gene2666	gene2666	SACOL2684	gi 57650036 ref NC_002951.2 :2758876-2759377	MR150	M36C05	OK	2.03279	1.83424	-0.148279	0.154327	0.87735	0.999883
gene2667	gene2667	cap1C	gi 57650036 ref NC_002951.2 :2759611-2761068	MR150	M36C05	OK	2.69546	1.74806	-0.624778	0.635127	0.52535	0.999883

gene2668	gene2668	cap1B	gi 57650036 ref NC_002951.2 :2759611-2761068	MR150	M36C05	OK	1.24208	2.01446	0.697629	-0.555227	0.57874	0.999883
gene2669	gene2669	cap1A	gi 57650036 ref NC_002951.2 :2761084-2761747	MR150	M36C05	NOTEST	0.33062	0.71508	1.1129	-0.787372	0.43106	1
gene267	gene267	SACOL0277	gi 57650036 ref NC_002951.2 :319759-320152	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2670	gene2670	icaR	gi 57650036 ref NC_002951.2 :2762595-2763156	MR150	M36C05	OK	36.4575	25.385	-0.522239	0.765554	0.44394	0.999883
gene2671	gene2671	icaA	gi 57650036 ref NC_002951.2 :2763319-2766734	MR150	M36C05	OK	0.8844	1.59162	0.847728	-0.568503	0.56969	0.999883
gene2672	gene2672	icaD	gi 57650036 ref NC_002951.2 :2763319-2766734	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2673	gene2673	icaB	gi 57650036 ref NC_002951.2 :2763319-2766734	MR150	M36C05	OK	0.22551	1.78681	2.98614	-0.941419	0.34649	0.999883
gene2674	gene2674	icaC	gi 57650036 ref NC_002951.2 :2763319-2766734	MR150	M36C05	OK	5.03264	3.49435	-0.526291	0.604735	0.54536	0.999883
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	MR150	M36C05	OK	0	#####	1.79769e+30	1.79769e+	0.03514	0.35865
gene2676	gene2676	geh	gi 57650036 ref NC_002951.2 :2767124-2769167	MR150	M36C05	OK	70.6439	232.372	1.7178	-1.89824	0.05766	0.48127
gene2677	gene2677	SACOL2695	gi 57650036 ref NC_002951.2 :2769887-2770100	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2678	gene2678	hisI	gi 57650036 ref NC_002951.2 :2770259-2774476	MR150	M36C05	OK	2.12107	4.5883	1.11317	-0.583456	0.55959	0.999883
gene2679	gene2679	hisF	gi 57650036 ref NC_002951.2 :2770259-2774476	MR150	M36C05	OK	3.56048	5.92082	0.733727	-0.534241	0.59318	0.999883
gene268	gene268	SACOL0278	gi 57650036 ref NC_002951.2 :320167-321473	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2680	gene2680	hisA	gi 57650036 ref NC_002951.2 :2770259-2774476	MR150	M36C05	OK	4.54721	7.21052	0.665121	-0.5142	0.60711	0.999883
gene2681	gene2681	hisH	gi 57650036 ref NC_002951.2 :2770259-2774476	MR150	M36C05	OK	2.01911	4.36944	1.11373	-0.532528	0.59436	0.999883
gene2682	gene2682	hisB	gi 57650036 ref NC_002951.2 :2770259-2774476	MR150	M36C05	OK	2.42293	1.74778	-0.471231	0.181949	0.85562	0.999883
gene2683	gene2683	SACOL2701	gi 57650036 ref NC_002951.2 :2770259-2774476	MR150	M36C05	OK	1.69312	2.1675	0.35635	-0.201609	0.84022	0.999883
gene2684	gene2684	hisD	gi 57650036 ref NC_002951.2 :2774491-2776349	MR150	M36C05	OK	2.02847	1.35589	-0.581145	0.684251	0.49382	0.999883
gene2685	gene2685	hisG	gi 57650036 ref NC_002951.2 :2774491-2776349	MR150	M36C05	OK	1.10649	1.32992	0.265345	-0.163894	0.86982	0.999883
gene2686	gene2686	hisZ	gi 57650036 ref NC_002951.2 :2776366-2777185	MR150	M36C05	OK	1.73146	2.31665	0.420051	-0.517632	0.60472	0.999883
gene2687	gene2687	SACOL2705	gi 57650036 ref NC_002951.2 :2777489-2778614	MR150	M36C05	OK	18.0459	13.4693	-0.421994	0.614359	0.53898	0.999883
gene2688	gene2688	SACOL2706	gi 57650036 ref NC_002951.2 :2778731-2779229	MR150	M36C05	OK	1.02659	2.9643	1.52984	-1.4867	0.13709	0.732748
gene2689	gene2689	SACOL2707	gi 57650036 ref NC_002951.2 :2779275-2781818	MR150	M36C05	OK	1.44902	4.69751	1.69682	-1.48199	0.13834	0.733494
gene269	gene269	SACOL0279	gi 57650036 ref NC_002951.2 :320167-321473	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2690	gene2690	SACOL2708	gi 57650036 ref NC_002951.2 :2779275-2781818	MR150	M36C05	OK	0.40493	4.73506	3.54763	-3.36955	0.00075	0.027943
gene2691	gene2691	SACOL2709	gi 57650036 ref NC_002951.2 :2781870-2782425	MR150	M36C05	OK	1.72431	9.64162	2.48326	-2.97019	0.00298	0.0769228
gene2692	gene2692	SACOL2710	gi 57650036 ref NC_002951.2 :2782453-2783302	MR150	M36C05	OK	3.06702	13.0866	2.09318	-2.92345	0.00346	0.0849254
gene2693	gene2693	SACOL2711	gi 57650036 ref NC_002951.2 :2783681-2784197	MR150	M36C05	OK	217.867	582.861	1.4197	-1.69599	0.08989	0.602333
gene2694	gene2694	drp35	gi 57650036 ref NC_002951.2 :2784345-2785317	MR150	M36C05	OK	4.56214	8.28512	0.860813	-1.2397	0.21509	0.89416
gene2695	gene2695	SACOL2713	gi 57650036 ref NC_002951.2 :2785560-2786517	MR150	M36C05	OK	43.2884	12.8199	-1.7556	2.49012	0.01277	0.19415
gene2696	gene2696	pcp	gi 57650036 ref NC_002951.2 :2786668-2787307	MR150	M36C05	OK	5.23026	6.7882	0.376146	-0.51784	0.60457	0.999883
gene2697	gene2697	SACOL2715	gi 57650036 ref NC_002951.2 :2787425-2788521	MR150	M36C05	NOTEST	0	0	0	0	1	1

gene2698	gene2698	SACOL2716	gi 57650036 ref NC_002951.2 :2787425-2788521	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2699	gene2699	SACOL2717	gi 57650036 ref NC_002951.2 :2788687-2789152	MR150	M36C05	OK	10.3831	18.7434	0.852141	-1.20715	0.22737	0.898537
gene27	gene27	SACOL0026	gi 57650036 ref NC_002951.2 :34371-35667	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene270	gene270	SACOL0280	gi 57650036 ref NC_002951.2 :320167-321473	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2700	gene2700	SACOL2718	gi 57650036 ref NC_002951.2 :2789389-2790808	MR150	M36C05	OK	8.92052	7.86731	-0.181258	0.266286	0.79002	0.999883
gene2701	gene2701	rarD	gi 57650036 ref NC_002951.2 :2791220-2792129	MR150	M36C05	OK	13.6061	34.8444	1.35667	-1.95298	0.05082	0.443669
gene2702	gene2702	SACOL2720	gi 57650036 ref NC_002951.2 :2792353-2792929	MR150	M36C05	OK	0.81408	15.2685	4.22924	-4.41813	9.96E-06	0.0008282
gene2703	gene2703	nixA	gi 57650036 ref NC_002951.2 :2793057-2794110	MR150	M36C05	OK	5.20627	13.8317	1.40966	-2.04832	0.04053	0.392646
gene2704	gene2704	SACOL2722	gi 57650036 ref NC_002951.2 :2794352-2795147	MR150	M36C05	NOTEST	0.77197	0.92701	0.264048	-0.264385	0.79148	1
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	MR150	M36C05	OK	3.42143	85.0216	4.63516	-5.97551	2.29E-09	6.92E-07
gene2706	gene2706	SACOL2724	gi 57650036 ref NC_002951.2 :2796075-2798704	MR150	M36C05	OK	2.19106	3.55249	0.697201	-0.604114	0.54577	0.999883
gene2707	gene2707	SACOL2725	gi 57650036 ref NC_002951.2 :2796075-2798704	MR150	M36C05	OK	1.36677	1.83576	0.425607	-0.483041	0.62907	0.999883
gene2708	gene2708	SACOL2726	gi 57650036 ref NC_002951.2 :2798796-2798988	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2709	gene2709	SACOL2727	gi 57650036 ref NC_002951.2 :2798999-2799536	MR150	M36C05	OK	4.54055	1.3106	-1.79263	1.95585	0.05048	0.442304
gene271	gene271	SACOL0281	gi 57650036 ref NC_002951.2 :321482-323327	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2710	gene2710	SACOL2728	gi 57650036 ref NC_002951.2 :2799595-2800093	MR150	M36C05	OK	6.67283	1.85269	-1.84868	2.1266	0.03345	0.350737
gene2711	gene2711	SACOL2729	gi 57650036 ref NC_002951.2 :2800171-2800522	MR150	M36C05	OK	6.94183	0	-1.79769e+30	-1.79769e+30	0.00717	0.136826
gene2712	gene2712	SACOL2730	gi 57650036 ref NC_002951.2 :2800550-2800742	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	MR150	M36C05	OK	2168.5	754.558	-1.523	2.03657	0.04169	0.397017
gene2714	gene2714	SACOL2732	gi 57650036 ref NC_002951.2 :2801461-2802031	MR150	M36C05	OK	3.30904	9.25019	1.48307	-1.94825	0.05138	0.446342
gene2715	gene2715	SACOL2733	gi 57650036 ref NC_002951.2 :2802290-2802671	MR150	M36C05	OK	4.1856	9.67459	1.20877	-1.45102	0.14678	0.743774
gene2716	gene2716	SACOL2734	gi 57650036 ref NC_002951.2 :2802753-2803107	MR150	M36C05	OK	0	4.22146	1.79769e+30	1.79769e+30	0.0141	0.204943
gene2717	gene2717	SACOL2735	gi 57650036 ref NC_002951.2 :2803560-2804400	MR150	M36C05	OK	56.2214	34.4697	-0.705789	0.981125	0.32653	0.999883
gene2718	gene2718	gidB	gi 57650036 ref NC_002951.2 :2804442-2807039	MR150	M36C05	OK	36.5067	30.7672	-0.246772	0.154845	0.87694	0.999883
gene2719	gene2719	gidA	gi 57650036 ref NC_002951.2 :2804442-2807039	MR150	M36C05	OK	33.0437	30.5413	-0.113614	0.124703	0.90076	0.999883
gene272	gene272	SACOL0282	gi 57650036 ref NC_002951.2 :323337-323829	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene2720	gene2720	trmE	gi 57650036 ref NC_002951.2 :2807105-2808485	MR150	M36C05	OK	31.4098	26.7181	-0.233398	0.318743	0.74992	0.999883
gene2721	gene2721	rnpA	gi 57650036 ref NC_002951.2 :2808623-2808971	MR150	M36C05	OK	25.2507	16.7823	-0.589383	0.824685	0.40955	0.999883
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	MR150	M36C05	OK	3760.41	1201.95	-1.64551	2.37935	0.01734	0.238061
gene273	gene273	SACOL0283	gi 57650036 ref NC_002951.2 :324036-324720	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene274	gene274	SACOL0284	gi 57650036 ref NC_002951.2 :324866-325478	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene275	gene275	SACOL0285	gi 57650036 ref NC_002951.2 :325613-325832	MR150	M36C05	OK	10.4974	25.0136	1.25268	-1.34571	0.1784	0.821737
gene276	gene276	SACOL0286	gi 57650036 ref NC_002951.2 :325963-326464	MR150	M36C05	NOTEST	0.5082	0	-1.79769e+30	-1.79769e+30	0.10824	1

gene277	gene277	SACOL0287	gi 57650036 ref NC_002951.2 :326474-326975	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene278	gene278	SACOL0288	gi 57650036 ref NC_002951.2 :326985-327481	MR150	M36C05	OK	3.1005	0.74608	-2.0551	1.78998	0.07346	0.532143
gene279	gene279	SACOL0289	gi 57650036 ref NC_002951.2 :327491-327983	MR150	M36C05	NOTEST	0	0.37814	1.79769e+30	1.79769e+30	0.14732	1
gene28	gene28	SACOL0027	gi 57650036 ref NC_002951.2 :36081-36321	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene280	gene280	SACOL0290	gi 57650036 ref NC_002951.2 :328192-328876	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene281	gene281	SACOL0291	gi 57650036 ref NC_002951.2 :329461-329962	MR150	M36C05	NOTEST	0	0.36685	1.79769e+30	1.79769e+30	0.14732	1
gene282	gene282	SACOL0292	gi 57650036 ref NC_002951.2 :329973-330474	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene283	gene283	SACOL0293	gi 57650036 ref NC_002951.2 :330484-330985	MR150	M36C05	OK	1.01639	0.7337	-0.470207	0.368424	0.71256	0.999883
gene284	gene284	SACOL0294	gi 57650036 ref NC_002951.2 :330995-331496	MR150	M36C05	OK	1.01639	1.10054	0.114755	-0.100014	0.92033	0.999883
gene285	gene285	SACOL0295	gi 57650036 ref NC_002951.2 :331506-332007	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene286	gene286	SACOL0296	gi 57650036 ref NC_002951.2 :332017-332518	MR150	M36C05	NOTEST	0	0.7337	1.79769e+30	1.79769e+30	0.06916	1
gene287	gene287	SACOL0297	gi 57650036 ref NC_002951.2 :332528-333017	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene288	gene288	SACOL0299	gi 57650036 ref NC_002951.2 :333639-334014	MR150	M36C05	OK	5.18601	6.24339	0.267705	-0.316829	0.75137	0.999883
gene289	gene289	SACOL0300	gi 57650036 ref NC_002951.2 :334166-334565	MR150	M36C05	OK	30.572	17.6655	-0.791277	1.13889	0.25475	0.932724
gene29	gene29	SACOL0028	gi 57650036 ref NC_002951.2 :36352-37027	MR150	M36C05	OK	186.277	211.881	0.185806	-0.226983	0.82044	0.999883
gene290	gene290	SACOL0301	gi 57650036 ref NC_002951.2 :334780-335626	MR150	M36C05	OK	2.84423	18.9528	2.7363	-3.79093	0.00015	0.0081058
gene291	gene291	brnQ2	gi 57650036 ref NC_002951.2 :335841-337149	MR150	M36C05	OK	33.3119	17.4116	-0.935986	1.305	0.19189	0.852075
gene292	gene292	SACOL0303	gi 57650036 ref NC_002951.2 :337732-338623	MR150	M36C05	OK	6.64777	21.0688	1.66417	-2.41301	0.01582	0.222762
gene293	gene293	SACOL0305	gi 57650036 ref NC_002951.2 :338871-339921	MR150	M36C05	OK	29.1859	173.313	2.57004	-3.25515	0.00113	0.0376232
gene294	gene294	SACOL0306	gi 57650036 ref NC_002951.2 :339933-340611	MR150	M36C05	OK	51.8817	260.877	2.33007	-2.98458	0.00284	0.0744582
gene295	gene295	pfoR	gi 57650036 ref NC_002951.2 :340818-341850	MR150	M36C05	OK	131.232	127.498	-0.041638	0.050064	0.96007	0.999883
gene296	gene296	SACOL0308	gi 57650036 ref NC_002951.2 :342192-344209	MR150	M36C05	OK	2.1663	1.07979	-1.00449	0.856558	0.39169	0.999883
gene297	gene297	SACOL0309	gi 57650036 ref NC_002951.2 :342192-344209	MR150	M36C05	OK	2.32647	3.65589	0.652078	-0.692346	0.48872	0.999883
gene298	gene298	SACOL0310	gi 57650036 ref NC_002951.2 :344219-345440	MR150	M36C05	OK	2.84995	1.72768	-0.722098	0.974673	0.32972	0.999883
gene299	gene299	SACOL0311	gi 57650036 ref NC_002951.2 :345544-347077	MR150	M36C05	OK	5.05557	5.54025	0.132078	-0.193789	0.84634	0.999883
gene3	gene3	recF	gi 57650036 ref NC_002951.2 :3696-5051	MR150	M36C05	OK	217.383	188.273	-0.207408	0.214723	0.82998	0.999883
gene30	gene30	SACOL0029	gi 57650036 ref NC_002951.2 :37284-37452	MR150	M36C05	OK	72.0211	67.6104	-0.0911751	0.105408	0.91605	0.999883
gene300	gene300	nanA	gi 57650036 ref NC_002951.2 :347116-347998	MR150	M36C05	OK	4.4903	5.49853	0.292234	-0.412696	0.67983	0.999883
gene301	gene301	SACOL0313	gi 57650036 ref NC_002951.2 :348155-349016	MR150	M36C05	OK	6.94931	14.8511	1.09563	-1.59588	0.11052	0.660511
gene302	gene302	SACOL0314	gi 57650036 ref NC_002951.2 :349293-350094	MR150	M36C05	OK	25.7303	44.6023	0.793654	-1.13161	0.2578	0.936588
gene303	gene303	SACOL0315	gi 57650036 ref NC_002951.2 :350233-350902	MR150	M36C05	OK	10.1183	12.0005	0.246118	-0.357322	0.72085	0.999883
gene304	gene304	SACOL0316	gi 57650036 ref NC_002951.2 :351028-352342	MR150	M36C05	OK	1.09984	1.88022	0.773611	-0.992891	0.32076	0.999883
gene305	gene305	SACOL0317	gi 57650036 ref NC_002951.2 :352759-354694	MR150	M36C05	OK	4.85556	10.4175	1.1013	-1.60389	0.10874	0.655235

gene306	gene306	int	gi 57650036 ref NC_002951.2 :354784-355990	MR150	M36C05	OK	1.21787	1.75347	0.525856	-0.667429	0.5045	0.999883
gene307	gene307	SACOL0319	gi 57650036 ref NC_002951.2 :356183-356897	MR150	M36C05	OK	15.4879	17.3881	0.166966	-0.245485	0.80608	0.999883
gene308	gene308	SACOL0320	gi 57650036 ref NC_002951.2 :356974-357202	MR150	M36C05	OK	12.1744	15.2389	0.323902	-0.35128	0.72538	0.999883
gene309	gene309	SACOL0321	gi 57650036 ref NC_002951.2 :357356-358076	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene31	gene31	SACOL0030	gi 57650036 ref NC_002951.2 :37549-37780	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene310	gene310	SACOL0322	gi 57650036 ref NC_002951.2 :358217-358436	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene311	gene311	SACOL0323	gi 57650036 ref NC_002951.2 :358450-358759	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene312	gene312	SACOL0324	gi 57650036 ref NC_002951.2 :358762-358915	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene313	gene313	SACOL0325	gi 57650036 ref NC_002951.2 :358915-359707	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene314	gene314	SACOL0326	gi 57650036 ref NC_002951.2 :359707-359932	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene315	gene315	SACOL0327	gi 57650036 ref NC_002951.2 :359971-360551	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene316	gene316	SACOL0328	gi 57650036 ref NC_002951.2 :359971-360551	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene317	gene317	SACOL0329	gi 57650036 ref NC_002951.2 :360604-361172	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene318	gene318	SACOL0330	gi 57650036 ref NC_002951.2 :360604-361172	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene319	gene319	SACOL0331	gi 57650036 ref NC_002951.2 :361219-361640	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene32	gene32	SACOL0031	gi 57650036 ref NC_002951.2 :38328-39072	MR150	M36C05	OK	74.016	140.954	0.929314	-1.20372	0.2287	0.898537
gene320	gene320	SACOL0332	gi 57650036 ref NC_002951.2 :361219-361640	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene321	gene321	SACOL0333	gi 57650036 ref NC_002951.2 :361694-361958	MR150	M36C05	OK	0	7.02445	1.79769e+30	1.79769e+30	0.01809	0.243354
gene322	gene322	SACOL0334	gi 57650036 ref NC_002951.2 :361970-362132	MR150	M36C05	OK	0	10.5757	1.79769e+30	1.79769e+30	0.14732	0.743774
gene323	gene323	SACOL0335	gi 57650036 ref NC_002951.2 :362221-362539	MR150	M36C05	NOTEST	0	0.89032	1.79769e+30	1.79769e+30	0.14732	1
gene324	gene324	SACOL0336	gi 57650036 ref NC_002951.2 :362543-362804	MR150	M36C05	OK	0	2.89837	1.79769e+30	1.79769e+30	0.06916	0.522414
gene325	gene325	SACOL0337	gi 57650036 ref NC_002951.2 :362813-364070	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene326	gene326	SACOL0338	gi 57650036 ref NC_002951.2 :362813-364070	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene327	gene327	ssb1	gi 57650036 ref NC_002951.2 :362813-364070	MR150	M36C05	NOTEST	0	0.50064	1.79769e+30	1.79769e+30	0.2187	1
gene328	gene328	SACOL0340	gi 57650036 ref NC_002951.2 :364083-367357	MR150	M36C05	OK	20.0619	50.7237	1.3382	-1.70797	0.08764	0.594442
gene329	gene329	SACOL0341	gi 57650036 ref NC_002951.2 :364083-367357	MR150	M36C05	OK	0.76427	2.38613	1.64253	-0.475255	0.63461	0.999883
gene33	gene33	maoC	gi 57650036 ref NC_002951.2 :39168-39597	MR150	M36C05	OK	33.321	17.8081	-0.903896	1.31135	0.18974	0.848649
gene330	gene330	SACOL0342	gi 57650036 ref NC_002951.2 :364083-367357	MR150	M36C05	OK	2.87028	3.45578	0.267819	-0.058083	0.95368	0.999883
gene331	gene331	SACOL0343	gi 57650036 ref NC_002951.2 :364083-367357	MR150	M36C05	OK	1.1758	3.91468	1.73525	-0.83193	0.40545	0.999883
gene332	gene332	SACOL0344	gi 57650036 ref NC_002951.2 :364083-367357	MR150	M36C05	OK	0	7.88874	1.79769e+30	1.79769e+30	0.38714	0.999883
gene333	gene333	SACOL0345	gi 57650036 ref NC_002951.2 :367359-367581	MR150	M36C05	OK	13.3382	50.0644	1.90822	-2.24938	0.02449	0.296972
gene334	gene334	SACOL0346	gi 57650036 ref NC_002951.2 :367590-368417	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene335	gene335	SACOL0347	gi 57650036 ref NC_002951.2 :367590-368417	MR150	M36C05	OK	0.7426	3.21821	2.1156	-1.40622	0.15966	0.779659

gene336	gene336	SACOL0348	gi 57650036 ref NC_002951.2 :368421-368607	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene337	gene337	SACOL0349	gi 57650036 ref NC_002951.2 :368607-368865	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene338	gene338	SACOL0350	gi 57650036 ref NC_002951.2 :368876-369233	MR150	M36C05	NOTEST	0	0.69116	1.79769e+30	1.79769e+30	0.14732	1
gene339	gene339	SACOL0351	gi 57650036 ref NC_002951.2 :369236-369479	MR150	M36C05	OK	2.48354	3.55812	0.518715	-0.341278	0.73289	0.999883
gene34	gene34	mecA	gi 57650036 ref NC_002951.2 :39642-41649	MR150	M36C05	OK	510.8	630.628	0.304032	-0.310873	0.7559	0.999883
gene340	gene340	SACOL0352	gi 57650036 ref NC_002951.2 :369492-369699	MR150	M36C05	OK	4.33328	0	-1.79769e+30	-1.79769e+30	0.10824	0.653986
gene341	gene341	SACOL0353	gi 57650036 ref NC_002951.2 :369701-370981	MR150	M36C05	OK	0	1.63231	1.79769e+30	1.79769e+30	0.2965	0.9791
gene342	gene342	SACOL0354	gi 57650036 ref NC_002951.2 :369701-370981	MR150	M36C05	OK	14.1404	51.0765	1.85284	-2.19241	0.02835	0.319082
gene343	gene343	SACOL0355	gi 57650036 ref NC_002951.2 :369701-370981	MR150	M36C05	OK	10.5426	13.3124	0.336528	-0.22446	0.8224	0.999883
gene344	gene344	SACOL0356	gi 57650036 ref NC_002951.2 :369701-370981	MR150	M36C05	OK	2.68362	9.60596	1.83975	-0.567122	0.57063	0.999883
gene345	gene345	dut	gi 57650036 ref NC_002951.2 :370985-371528	MR150	M36C05	OK	13.83	27.6846	1.00128	-1.45997	0.1443	0.743774
gene346	gene346	SACOL0358	gi 57650036 ref NC_002951.2 :371564-372307	MR150	M36C05	OK	17.3331	34.041	0.973741	-0.889654	0.37365	0.999883
gene347	gene347	SACOL0359	gi 57650036 ref NC_002951.2 :371564-372307	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene348	gene348	SACOL0360	gi 57650036 ref NC_002951.2 :371564-372307	MR150	M36C05	OK	13.7972	39.3993	1.5138	-1.27067	0.20385	0.875882
gene349	gene349	SACOL0361	gi 57650036 ref NC_002951.2 :371564-372307	MR150	M36C05	OK	0	15.7499	1.79769e+30	1.79769e+30	0.29145	0.975616
gene35	gene35	mecR1	gi 57650036 ref NC_002951.2 :41748-44481	MR150	M36C05	OK	150.796	109.295	-0.464372	0.562035	0.57409	0.999883
gene350	gene350	SACOL0362	gi 57650036 ref NC_002951.2 :372374-372882	MR150	M36C05	OK	0	3.49332	1.79769e+30	1.79769e+30	0.2187	0.89416
gene351	gene351	SACOL0363	gi 57650036 ref NC_002951.2 :372374-372882	MR150	M36C05	OK	2.97507	3.58203	0.267855	-0.250117	0.8025	0.999883
gene352	gene352	SACOL0364	gi 57650036 ref NC_002951.2 :372894-373332	MR150	M36C05	OK	1.28318	1.85338	0.530438	-0.480846	0.63063	0.999883
gene353	gene353	SACOL0365	gi 57650036 ref NC_002951.2 :373488-373803	MR150	M36C05	NOTEST	0	0.90974	1.79769e+30	1.79769e+30	0.14732	1
gene354	gene354	SACOL0366	gi 57650036 ref NC_002951.2 :373931-375918	MR150	M36C05	OK	2.69701	14.5904	2.43558	-1.20699	0.22744	0.898537
gene355	gene355	SACOL0367	gi 57650036 ref NC_002951.2 :373931-375918	MR150	M36C05	OK	1.9505	5.54048	1.50617	-2.01338	0.04407	0.409293
gene356	gene356	SACOL0368	gi 57650036 ref NC_002951.2 :375922-377918	MR150	M36C05	OK	13.7082	28.7553	1.06879	-1.40279	0.16068	0.783053
gene357	gene357	SACOL0369	gi 57650036 ref NC_002951.2 :375922-377918	MR150	M36C05	OK	4.53442	6.15026	0.43973	-0.217903	0.82751	0.999883
gene358	gene358	SACOL0370	gi 57650036 ref NC_002951.2 :377929-379093	MR150	M36C05	OK	2.22408	3.8886	0.806041	-1.11515	0.26479	0.94723
gene359	gene359	SACOL0371	gi 57650036 ref NC_002951.2 :379161-379440	MR150	M36C05	OK	0	1.21621	1.79769e+30	1.79769e+30	0.14732	0.743774
gene36	gene36	SACOL0035	gi 57650036 ref NC_002951.2 :41748-44481	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene360	gene360	SACOL0372	gi 57650036 ref NC_002951.2 :379451-380182	MR150	M36C05	OK	1.11165	0.80307	-0.469106	0.189513	0.84969	0.999883
gene361	gene361	SACOL0373	gi 57650036 ref NC_002951.2 :379451-380182	MR150	M36C05	OK	2.2599	1.63231	-0.46935	0.388342	0.69776	0.999883
gene362	gene362	SACOL0374	gi 57650036 ref NC_002951.2 :380182-380578	MR150	M36C05	OK	3.10241	0.56021	-2.46935	1.61289	0.10677	0.653986
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	MR150	M36C05	OK	0.34632	5.99292	4.11308	-3.22633	0.00125	0.0405107
gene364	gene364	SACOL0376	gi 57650036 ref NC_002951.2 :381345-381801	MR150	M36C05	OK	6.56651	12.9321	0.977752	-1.32214	0.18612	0.840269
gene365	gene365	SACOL0377	gi 57650036 ref NC_002951.2 :381858-382209	MR150	M36C05	NOTEST	0	0	0	0	1	1

gene366	gene366	SACOL0378	gi 57650036 ref NC_002951.2 :382250-382409	MR150	M36C05	OK	0	11.9713	1.79769e+30	1.79769e+30	0.14732	0.743774
gene367	gene367	SACOL0379	gi 57650036 ref NC_002951.2 :382422-389447	MR150	M36C05	OK	0.8169	2.97412	1.86423	-2.6538	0.00796	0.14471
gene368	gene368	SACOL0380	gi 57650036 ref NC_002951.2 :382422-389447	MR150	M36C05	OK	0	1.58842	1.79769e+30	1.79769e+30	0.25061	0.925525
gene369	gene369	SACOL0381	gi 57650036 ref NC_002951.2 :389455-391329	MR150	M36C05	OK	0.88533	1.27426	0.525371	-0.649847	0.51579	0.999883
gene37	gene37	SACOL0036	gi 57650036 ref NC_002951.2 :41748-44481	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene370	gene370	SACOL0382	gi 57650036 ref NC_002951.2 :389455-391329	MR150	M36C05	OK	0	1.09596	1.79769e+30	1.79769e+30	0.26301	0.945085
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	MR150	M36C05	OK	0.35808	1.86797	2.38311	-2.49709	0.01252	0.192397
gene372	gene372	SACOL0384	gi 57650036 ref NC_002951.2 :391344-395267	MR150	M36C05	NOTEST	0.24177	0.348	0.52549	-0.281088	0.77864	1
gene373	gene373	SACOL0385	gi 57650036 ref NC_002951.2 :391344-395267	MR150	M36C05	NOTEST	0.79917	0.57723	-0.469345	0.139598	0.88898	1
gene374	gene374	SACOL0386	gi 57650036 ref NC_002951.2 :391344-395267	MR150	M36C05	OK	0	9.41888	1.79769e+30	1.79769e+30	0.31165	0.993813
gene375	gene375	SACOL0387	gi 57650036 ref NC_002951.2 :395312-395612	MR150	M36C05	OK	0	2.03801	1.79769e+30	1.79769e+30	0.06916	0.522414
gene376	gene376	SACOL0388	gi 57650036 ref NC_002951.2 :395747-396050	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene377	gene377	SACOL0389	gi 57650036 ref NC_002951.2 :396061-397516	MR150	M36C05	OK	0.48815	1.22966	1.33286	-1.5363	0.12446	0.699335
gene378	gene378	SACOL0390	gi 57650036 ref NC_002951.2 :398285-398408	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	MR150	M36C05	OK	1.95047	6.85021	1.81233	-2.39792	0.01649	0.230359
gene38	gene38	SACOL0037	gi 57650036 ref NC_002951.2 :44616-45123	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene380	gene380	SACOL0392	gi 57650036 ref NC_002951.2 :399549-400749	MR150	M36C05	OK	3.21607	4.96124	0.625402	-0.89278	0.37198	0.999883
gene381	gene381	SACOL0393	gi 57650036 ref NC_002951.2 :400844-400937	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene382	gene382	SACOL0394	gi 57650036 ref NC_002951.2 :401050-402052	MR150	M36C05	OK	7.06469	7.28738	0.0447746	-0.065318	0.94792	0.999883
gene383	gene383	SACOL0395	gi 57650036 ref NC_002951.2 :402085-402418	MR150	M36C05	OK	3.33494	9.63679	1.53089	-1.66689	0.09554	0.621457
gene384	gene384	SACOL0396	gi 57650036 ref NC_002951.2 :402418-405153	MR150	M36C05	OK	6.87839	6.24066	-0.140372	0.119892	0.90457	0.999883
gene385	gene385	SACOL0397	gi 57650036 ref NC_002951.2 :402418-405153	MR150	M36C05	OK	8.63263	3.70075	-1.22198	1.08737	0.27687	0.962868
gene386	gene386	SACOL0398	gi 57650036 ref NC_002951.2 :402418-405153	MR150	M36C05	OK	5.02383	2.54573	-0.980709	0.73289	0.46363	0.999883
gene387	gene387	SACOL0399	gi 57650036 ref NC_002951.2 :405467-406493	MR150	M36C05	OK	15.573	11.6144	-0.423131	0.620419	0.53498	0.999883
gene388	gene388	ulaA	gi 57650036 ref NC_002951.2 :406585-407932	MR150	M36C05	OK	4.40634	3.36383	-0.389474	0.560429	0.57519	0.999883
gene389	gene389	SACOL0401	gi 57650036 ref NC_002951.2 :407946-408231	MR150	M36C05	OK	1.6031	1.15323	-0.475185	0.263273	0.79234	0.999883
gene39	gene39	SACOL0038	gi 57650036 ref NC_002951.2 :45137-45449	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene390	gene390	SACOL0402	gi 57650036 ref NC_002951.2 :408232-408676	MR150	M36C05	OK	0.62601	3.61662	2.53039	-1.91819	0.05509	0.465171
gene391	gene391	SACOL0403	gi 57650036 ref NC_002951.2 :408680-410636	MR150	M36C05	OK	2.79127	2.7615	-0.0154708	0.022405	0.98213	0.999883
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	MR150	M36C05	OK	38.8175	9.01146	-2.10687	2.94164	0.00326	0.0821387
gene393	gene393	SACOL0405	gi 57650036 ref NC_002951.2 :411373-412729	MR150	M36C05	OK	1.72232	1.43041	-0.267924	0.352218	0.72468	0.999883
gene394	gene394	SACOL0406	gi 57650036 ref NC_002951.2 :412832-413273	MR150	M36C05	OK	12.6741	3.20351	-1.98416	2.44926	0.01431	0.207193
gene395	gene395	glpT	gi 57650036 ref NC_002951.2 :413355-414714	MR150	M36C05	OK	53.3859	12.6501	-2.07731	2.82939	0.00466	0.101483

gene396	gene396	SACOL0408	gi 57650036 ref NC_002951.2 :415021-415882	MR150	M36C05	OK	82.6968	174.375	1.07629	-1.33844	0.18076	0.828449
gene397	gene397	SACOL0409	gi 57650036 ref NC_002951.2 :415961-417023	MR150	M36C05	OK	67.1529	133.162	0.987664	-1.2251	0.22054	0.89416
gene398	gene398	SACOL0410	gi 57650036 ref NC_002951.2 :417036-417603	MR150	M36C05	OK	103.834	149.816	0.528912	-0.700763	0.48345	0.999883
gene399	gene399	SACOL0411	gi 57650036 ref NC_002951.2 :417662-418658	MR150	M36C05	OK	16.352	13.9921	-0.224855	0.329327	0.74191	0.999883
gene4	gene4	gyrB	gi 57650036 ref NC_002951.2 :5060-6995	MR150	M36C05	OK	132.336	64.4107	-1.03883	1.19399	0.23248	0.902162
gene40	gene40	SACOL0039	gi 57650036 ref NC_002951.2 :45450-45886	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene400	gene400	SACOL0412	gi 57650036 ref NC_002951.2 :418755-419052	MR150	M36C05	OK	1.44852	4.17434	1.52697	-1.1083	0.26773	0.951188
gene401	gene401	SACOL0413	gi 57650036 ref NC_002951.2 :419131-419677	MR150	M36C05	OK	20.3444	32.5502	0.678039	-0.994853	0.31981	0.999883
gene402	gene402	SACOL0414	gi 57650036 ref NC_002951.2 :419944-423718	MR150	M36C05	OK	2.80517	1.17878	-1.2508	0.7869	0.43134	0.999883
gene403	gene403	SACOL0415	gi 57650036 ref NC_002951.2 :419944-423718	MR150	M36C05	OK	1.63556	2.56886	0.651345	-0.549417	0.58272	0.999883
gene404	gene404	SACOL0416	gi 57650036 ref NC_002951.2 :419944-423718	MR150	M36C05	OK	2.02466	1.38409	-0.54874	0.517781	0.60461	0.999883
gene405	gene405	SACOL0417	gi 57650036 ref NC_002951.2 :423809-424466	MR150	M36C05	OK	8.709	20.7685	1.25381	-1.81812	0.06905	0.522414
gene406	gene406	SACOL0418	gi 57650036 ref NC_002951.2 :424527-424743	MR150	M36C05	OK	18.3956	36.8141	1.0009	-1.19089	0.2337	0.902568
gene407	gene407	SACOL0419	gi 57650036 ref NC_002951.2 :424851-425241	MR150	M36C05	OK	14.385	51.3738	1.83646	-2.61896	0.00882	0.154274
gene408	gene408	SACOL0420	gi 57650036 ref NC_002951.2 :425481-426395	MR150	M36C05	OK	27.5944	9.84983	-1.4862	0.805683	0.42043	0.999883
gene409	gene409	SACOL0421	gi 57650036 ref NC_002951.2 :425481-426395	MR150	M36C05	OK	2.97843	5.79605	0.960515	-1.14004	0.25427	0.932194
gene41	gene41	SACOL0040	gi 57650036 ref NC_002951.2 :45450-45886	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene410	gene410	SACOL0422	gi 57650036 ref NC_002951.2 :426419-427891	MR150	M36C05	OK	5.00062	7.71946	0.626394	-0.270989	0.7864	0.999883
gene411	gene411	SACOL0424	gi 57650036 ref NC_002951.2 :426419-427891	MR150	M36C05	OK	76.5348	83.68	0.128768	-0.164266	0.86952	0.999883
gene412	gene412	SACOL0425	gi 57650036 ref NC_002951.2 :428257-429391	MR150	M36C05	OK	8.52611	6.61067	-0.367092	0.538201	0.59044	0.999883
gene413	gene413	SACOL0426	gi 57650036 ref NC_002951.2 :429929-431111	MR150	M36C05	OK	28.6952	11.7886	-1.28342	1.83315	0.06678	0.51634
gene414	gene414	SACOL0427	gi 57650036 ref NC_002951.2 :431193-431946	MR150	M36C05	OK	9.13613	10.1748	0.155342	-0.225891	0.82129	0.999883
gene415	gene415	metE	gi 57650036 ref NC_002951.2 :431988-438284	MR150	M36C05	OK	1.81183	5.43133	1.58385	-1.48792	0.13677	0.732537
gene416	gene416	SACOL0429	gi 57650036 ref NC_002951.2 :431988-438284	MR150	M36C05	OK	1.95892	3.96014	1.01549	-0.802742	0.42212	0.999883
gene417	gene417	SACOL0430	gi 57650036 ref NC_002951.2 :431988-438284	MR150	M36C05	OK	0.95615	3.78603	1.98537	-0.991594	0.3214	0.999883
gene418	gene418	SACOL0431	gi 57650036 ref NC_002951.2 :431988-438284	MR150	M36C05	OK	1.52462	3.5371	1.21411	-0.653467	0.51346	0.999883
gene419	gene419	SACOL0432	gi 57650036 ref NC_002951.2 :438947-439793	MR150	M36C05	OK	3.55529	4.43939	0.320395	-0.440292	0.65973	0.999883
gene42	gene42	ccrB	gi 57650036 ref NC_002951.2 :46351-47976	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene420	gene420	SACOL0433	gi 57650036 ref NC_002951.2 :439949-440831	MR150	M36C05	OK	8.30705	6.63058	-0.325202	0.47155	0.63725	0.999883
gene421	gene421	SACOL0434	gi 57650036 ref NC_002951.2 :440860-441064	MR150	M36C05	OK	22.9953	26.2662	0.191868	-0.21723	0.82803	0.999883
gene422	gene422	SACOL0435	gi 57650036 ref NC_002951.2 :441075-442173	MR150	M36C05	OK	36.1532	21.6101	-0.742419	1.04235	0.29725	0.9791
gene423	gene423	SACOL0436	gi 57650036 ref NC_002951.2 :442258-442450	MR150	M36C05	OK	1621.28	539.309	-1.58795	2.215	0.02676	0.309278
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	MR150	M36C05	OK	434.557	87.6612	-2.30953	3.21423	0.00131	0.0416986

gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	MR150	M36C05	OK	195.241	46.4933	-2.07016	2.8285	0.00468	0.101483
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	MR150	M36C05	OK	764.931	149.441	-2.35575	3.27388	0.00106	0.035874
gene427	gene427	SACOL0440	gi 57650036 ref NC_002951.2 :444073-445012	MR150	M36C05	OK	2.27927	3.43236	0.590628	-0.788907	0.43017	0.999883
gene428	gene428	SACOL0441	gi 57650036 ref NC_002951.2 :445050-445598	MR150	M36C05	OK	2.19866	4.75926	1.11411	-1.33184	0.18291	0.831493
gene429	gene429	SACOL0442	gi 57650036 ref NC_002951.2 :445957-446569	MR150	M36C05	OK	3.71513	4.82263	0.376407	-0.491615	0.62299	0.999883
gene43	gene43	ccrA1	gi 57650036 ref NC_002951.2 :47997-49347	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene430	gene430	SACOL0443	gi 57650036 ref NC_002951.2 :446937-447306	MR150	M36C05	OK	0	1.93572	1.79769e+30	1.79769e+30	0.03514	0.35865
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	MR150	M36C05	OK	13.9505	1250.85	6.48645	-7.7585	8.66E-15	2.09E-11
gene432	gene432	SACOL0445	gi 57650036 ref NC_002951.2 :448196-448460	MR150	M36C05	OK	201.611	132.06	-0.610384	0.891359	0.37274	0.999883
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	MR150	M36C05	OK	428.14	15736.1	5.19985	-6.05437	1.41E-09	4.64E-07
gene434	gene434	SACOL0447	gi 57650036 ref NC_002951.2 :449436-450018	MR150	M36C05	OK	7.21178	8.67014	0.2657	-0.371399	0.71034	0.999883
gene435	gene435	SACOL0448	gi 57650036 ref NC_002951.2 :450083-450467	MR150	M36C05	OK	89.0031	65.4777	-0.442852	0.645084	0.51887	0.999883
gene436	gene436	SACOL0449	gi 57650036 ref NC_002951.2 :450721-451348	MR150	M36C05	OK	55.5635	47.8214	-0.216481	0.308244	0.7579	0.999883
gene437	gene437	SACOL0450	gi 57650036 ref NC_002951.2 :451420-451714	MR150	M36C05	OK	40.0873	55.5988	0.47191	-0.682519	0.49491	0.999883
gene438	gene438	ahpF	gi 57650036 ref NC_002951.2 :451792-453316	MR150	M36C05	OK	1312.16	1647.9	0.32869	-0.343963	0.73087	0.999883
gene439	gene439	ahpC	gi 57650036 ref NC_002951.2 :453331-453901	MR150	M36C05	OK	1203.66	2659.58	1.14377	-1.18034	0.23787	0.908884
gene44	gene44	SACOL0043	gi 57650036 ref NC_002951.2 :49534-51600	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene440	gene440	SACOL0453	gi 57650036 ref NC_002951.2 :454392-455148	MR150	M36C05	OK	162.187	387.925	1.25812	-1.46825	0.14204	0.740572
gene441	gene441	SACOL0454	gi 57650036 ref NC_002951.2 :455228-456617	MR150	M36C05	OK	37.355	32.2638	-0.211383	0.283041	0.77715	0.999883
gene442	gene442	SACOL0455	gi 57650036 ref NC_002951.2 :457593-458550	MR150	M36C05	OK	89.2065	93.2356	0.0637331	-0.080831	0.93558	0.999883
gene443	gene443	SACOL0456	gi 57650036 ref NC_002951.2 :458667-459330	MR150	M36C05	OK	61.1655	185.204	1.59833	-2.08957	0.03666	0.368762
gene444	gene444	SACOL0457	gi 57650036 ref NC_002951.2 :459472-459880	MR150	M36C05	OK	975.999	4023.41	2.04347	-2.17999	0.02926	0.32476
gene445	gene445	xpt	gi 57650036 ref NC_002951.2 :460391-462238	MR150	M36C05	OK	64.6115	49.8117	-0.375307	0.262674	0.7928	0.999883
gene446	gene446	pbuX	gi 57650036 ref NC_002951.2 :460391-462238	MR150	M36C05	OK	55.73	36.8166	-0.598095	0.629698	0.52889	0.999883
gene447	gene447	guaB	gi 57650036 ref NC_002951.2 :462275-463742	MR150	M36C05	OK	116.894	118.06	0.014323	-0.016588	0.98677	0.999883
gene448	gene448	guaA	gi 57650036 ref NC_002951.2 :463766-465308	MR150	M36C05	OK	190.823	149.486	-0.352225	0.390421	0.69623	0.999883
gene449	gene449	SACOL0462	gi 57650036 ref NC_002951.2 :465420-465957	MR150	M36C05	OK	3.63244	5.57007	0.616756	-0.786036	0.43185	0.999883
gene45	gene45	SACOL0044	gi 57650036 ref NC_002951.2 :49534-51600	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene450	gene450	SACOL0463	gi 57650036 ref NC_002951.2 :466349-467054	MR150	M36C05	OK	4.54721	2.40351	-0.919841	1.18553	0.23581	0.904919
gene451	gene451	SACOL0464	gi 57650036 ref NC_002951.2 :467452-467725	MR150	M36C05	OK	1.78971	2.57159	0.522936	-0.344055	0.73081	0.999883
gene452	gene452	SACOL0465	gi 57650036 ref NC_002951.2 :467985-468138	MR150	M36C05	OK	45.5773	0	-1.79769e+30	-1.79769e+30	0.04024	0.390941
gene453	gene453	SACOL0466	gi 57650036 ref NC_002951.2 :468661-469021	MR150	M36C05	OK	62.9881	63.1587	0.00390278	-0.005734	0.99543	0.999883
gene454	gene454	SACOL0467	gi 57650036 ref NC_002951.2 :469039-469885	MR150	M36C05	OK	65.8914	68.6398	0.058956	-0.078528	0.93741	0.999883

gene455	gene455	SACOL0468	gi 57650036 ref NC_002951.2 :470356-471037	MR150	M36C05	OK	7.63828	41.0666	2.42665	-3.46733	0.00053	0.0209018
gene456	gene456	SACOL0469	gi 57650036 ref NC_002951.2 :471322-472018	MR150	M36C05	OK	2.7778	2.66967	-0.0572806	0.071832	0.94274	0.999883
gene457	gene457	SACOL0470	gi 57650036 ref NC_002951.2 :472308-473367	MR150	M36C05	OK	1.42619	1.66874	0.226599	-0.283075	0.77712	0.999883
gene458	gene458	SACOL0471	gi 57650036 ref NC_002951.2 :473485-473623	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	MR150	M36C05	OK	0	1.66869	1.79769e+30	1.79769e+30	0.00606	0.121216
gene46	gene46	SACOL0045	gi 57650036 ref NC_002951.2 :51770-53348	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene460	gene460	SACOL0473	gi 57650036 ref NC_002951.2 :475037-475736	MR150	M36C05	OK	0.92037	1.32679	0.52766	-0.539836	0.58931	0.999883
gene461	gene461	SACOL0474	gi 57650036 ref NC_002951.2 :476101-476785	MR150	M36C05	OK	3.47919	2.96397	-0.231221	0.296821	0.7666	0.999883
gene462	gene462	SACOL0475	gi 57650036 ref NC_002951.2 :476869-476971	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene463	gene463	hsdM1	gi 57650036 ref NC_002951.2 :477048-479809	MR150	M36C05	OK	17.2688	13.24	-0.383263	0.400104	0.68908	0.999883
gene464	gene464	SACOL0477	gi 57650036 ref NC_002951.2 :477048-479809	MR150	M36C05	OK	18.4624	10.6763	-0.790182	0.687702	0.49164	0.999883
gene465	gene465	SACOL0478	gi 57650036 ref NC_002951.2 :480191-480869	MR150	M36C05	NOTEST	0.32026	0.46173	0.527818	-0.347267	0.72839	1
gene466	gene466	SACOL0479	gi 57650036 ref NC_002951.2 :480890-482399	MR150	M36C05	OK	3.15914	4.79982	0.603447	-0.874091	0.38207	0.999883
gene467	gene467	SACOL0480	gi 57650036 ref NC_002951.2 :482502-482811	MR150	M36C05	OK	1978.06	11330.7	2.51808	-2.68125	0.00733	0.137988
gene468	gene468	SACOL0481	gi 57650036 ref NC_002951.2 :483148-483949	MR150	M36C05	OK	3.31182	1.65194	-1.00346	1.25425	0.20975	0.888223
gene469	gene469	SACOL0482	gi 57650036 ref NC_002951.2 :483980-484772	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene47	gene47	SACOL0046	gi 57650036 ref NC_002951.2 :53427-54756	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene470	gene470	SACOL0483	gi 57650036 ref NC_002951.2 :484841-485618	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene471	gene471	SACOL0484	gi 57650036 ref NC_002951.2 :485793-486609	MR150	M36C05	NOTEST	0.24856	0	-1.79769e+30	-1.79769e+30	0.10824	1
gene472	gene472	SACOL0485	gi 57650036 ref NC_002951.2 :486627-487413	MR150	M36C05	OK	7.83816	1.88254	-2.05783	2.69451	0.00705	0.135319
gene473	gene473	SACOL0486	gi 57650036 ref NC_002951.2 :487592-490046	MR150	M36C05	OK	41.0116	43.3357	0.0795211	-0.061243	0.95117	0.999883
gene474	gene474	SACOL0487	gi 57650036 ref NC_002951.2 :487592-490046	MR150	M36C05	OK	31.0114	36.7138	0.243523	-0.226986	0.82043	0.999883
gene475	gene475	SACOL0488	gi 57650036 ref NC_002951.2 :487592-490046	MR150	M36C05	OK	44.9066	49.5067	0.140697	-0.052538	0.9581	0.999883
gene476	gene476	SACOL0489	gi 57650036 ref NC_002951.2 :490064-490379	MR150	M36C05	OK	89.4702	64.5917	-0.47006	0.690442	0.48992	0.999883
gene477	gene477	SACOL0490	gi 57650036 ref NC_002951.2 :490668-490929	MR150	M36C05	OK	4.03937	13.0427	1.69104	-1.65823	0.09727	0.628525
gene478	gene478	SACOL0491	gi 57650036 ref NC_002951.2 :491047-492250	MR150	M36C05	OK	1.06882	1.97856	0.888431	-1.12035	0.26257	0.944538
gene479	gene479	nuoF	gi 57650036 ref NC_002951.2 :493837-495322	MR150	M36C05	OK	22.6461	15.5264	-0.544539	0.768363	0.44227	0.999883
gene48	gene48	SACOL0047	gi 57650036 ref NC_002951.2 :54774-55842	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene480	gene480	SACOL0495	gi 57650036 ref NC_002951.2 :495334-498040	MR150	M36C05	OK	41.0153	25.9872	-0.658361	0.817381	0.41371	0.999883
gene481	gene481	SACOL0496	gi 57650036 ref NC_002951.2 :498201-498564	MR150	M36C05	OK	141.372	130.825	-0.111865	0.159045	0.87363	0.999883
gene482	gene482	SACOL0497	gi 57650036 ref NC_002951.2 :498792-499140	MR150	M36C05	OK	21.2106	13.8636	-0.613479	0.842335	0.3996	0.999883
gene483	gene483	SACOL0498	gi 57650036 ref NC_002951.2 :499246-499921	MR150	M36C05	OK	14.8248	7.89908	-0.908258	1.31274	0.18927	0.848649
gene484	gene484	SACOL0499	gi 57650036 ref NC_002951.2 :499957-500692	MR150	M36C05	OK	18.6004	14.2298	-0.386424	0.567833	0.57015	0.999883

gene485	gene485	SACOL0500	gi 57650036 ref NC_002951.2 :500801-500918	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene486	gene486	SACOL0501	gi 57650036 ref NC_002951.2 :501147-502485	MR150	M36C05	OK	0.67291	2.13114	1.66315	-2.03129	0.04223	0.400763
gene487	gene487	SACOL0502	gi 57650036 ref NC_002951.2 :502701-504742	MR150	M36C05	OK	34.4795	9.40915	-1.8736	1.34505	0.17861	0.821737
gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	MR150	M36C05	OK	75.191	11.8089	-2.67068	2.91746	0.00353	0.0854134
gene489	gene489	SACOL0504	gi 57650036 ref NC_002951.2 :505035-506061	MR150	M36C05	OK	11.3089	12.5489	0.150094	-0.2206	0.8254	0.999883
gene49	gene49	SACOL0048	gi 57650036 ref NC_002951.2 :55980-56241	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene490	gene490	SACOL0505	gi 57650036 ref NC_002951.2 :506064-506724	MR150	M36C05	OK	10.3161	9.59663	-0.104304	0.150523	0.88035	0.999883
gene491	gene491	SACOL0506	gi 57650036 ref NC_002951.2 :506760-507603	MR150	M36C05	OK	39.0524	28.9909	-0.429814	0.61213	0.54045	0.999883
gene492	gene492	SACOL0507	gi 57650036 ref NC_002951.2 :507934-508939	MR150	M36C05	OK	461.679	562.46	0.284859	-0.298925	0.765	0.999883
gene493	gene493	SACOL0508	gi 57650036 ref NC_002951.2 :509123-509393	MR150	M36C05	OK	291.135	137.63	-1.08089	1.55556	0.11981	0.687616
gene494	gene494	SACOL0509	gi 57650036 ref NC_002951.2 :509541-510412	MR150	M36C05	OK	12.4097	19.6074	0.659932	-0.446088	0.65553	0.999883
gene495	gene495	SACOL0510	gi 57650036 ref NC_002951.2 :509541-510412	MR150	M36C05	OK	34.2232	44.3965	0.375473	-0.483765	0.62855	0.999883
gene496	gene496	SACOL0511	gi 57650036 ref NC_002951.2 :510580-512472	MR150	M36C05	OK	15.4943	11.1642	-0.472856	0.4759	0.63415	0.999883
gene497	gene497	SACOL0512	gi 57650036 ref NC_002951.2 :510580-512472	MR150	M36C05	OK	10.064	8.09128	-0.314765	0.328335	0.74266	0.999883
gene498	gene498	gltC	gi 57650036 ref NC_002951.2 :512592-513477	MR150	M36C05	OK	1.11766	4.02531	1.84862	-2.27043	0.02318	0.28925
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	MR150	M36C05	OK	2.42255	14.2718	2.55857	-3.50025	0.00046	0.019237
gene5	gene5	gyrA	gi 57650036 ref NC_002951.2 :7031-9695	MR150	M36C05	OK	140.747	51.1613	-1.45998	1.63134	0.10282	0.643766
gene50	gene50	SACOL0049	gi 57650036 ref NC_002951.2 :56264-56996	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene500	gene500	gltD	gi 57650036 ref NC_002951.2 :518174-519638	MR150	M36C05	OK	3.63509	12.3834	1.76835	-2.56042	0.01045	0.17225
gene501	gene501	SACOL_tRNA	gi 57650036 ref NC_002951.2 :519906-519999	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene502	gene502	SACOL0516	gi 57650036 ref NC_002951.2 :520469-521897	MR150	M36C05	OK	112.872	63.195	-0.836808	1.00997	0.31251	0.994118
gene503	gene503	SACOL0517	gi 57650036 ref NC_002951.2 :521960-523601	MR150	M36C05	OK	18.4945	6.96051	-1.40983	2.02163	0.04321	0.407214
gene504	gene504	SACOL0518	gi 57650036 ref NC_002951.2 :523625-524354	MR150	M36C05	OK	26.9146	8.34286	-1.68977	2.44799	0.01437	0.20751
gene505	gene505	SACOL0519	gi 57650036 ref NC_002951.2 :524992-525517	MR150	M36C05	OK	13.6526	9.51321	-0.521171	0.740373	0.45907	0.999883
gene506	gene506	dnaX	gi 57650036 ref NC_002951.2 :525585-527283	MR150	M36C05	OK	50.1008	55.9185	0.15849	-0.197727	0.84326	0.999883
gene507	gene507	SACOL0521	gi 57650036 ref NC_002951.2 :527372-527690	MR150	M36C05	OK	320.578	325.858	0.0235649	-0.031649	0.97475	0.999883
gene508	gene508	recR	gi 57650036 ref NC_002951.2 :527696-528293	MR150	M36C05	OK	184.286	203.823	0.14537	-0.182022	0.85557	0.999883
gene509	gene509	rrsA	gi 57650036 ref NC_002951.2 :529145-530700	MR150	M36C05	OK	14333.4	12635.1	-0.181944	0.264479	0.79141	0.999883
gene51	gene51	pls	gi 57650036 ref NC_002951.2 :57211-61858	MR150	M36C05	NOTEST	0.03445	0	-1.79769e+30	-1.79769e+30	0.10824	1
gene510	gene510	rrlA	gi 57650036 ref NC_002951.2 :531064-533987	MR150	M36C05	OK	33882.3	33541.8	-0.0145713	0.034384	0.97257	0.999883
gene511	gene511	rrfA	gi 57650036 ref NC_002951.2 :534059-534174	MR150	M36C05	OK	129984	80681.2	-0.68803	0.928395	0.3532	0.999883
gene512	gene512	SACOL0523	gi 57650036 ref NC_002951.2 :535056-536394	MR150	M36C05	OK	8.34402	11.6244	0.478344	-0.701113	0.48323	0.999883
gene513	gene513	tmk	gi 57650036 ref NC_002951.2 :536395-537013	MR150	M36C05	OK	29.2948	14.2598	-1.03869	1.51902	0.12876	0.710909

gene514	gene514	SACOL0525	gi 57650036 ref NC_002951.2 :537040-537370	MR150	M36C05	OK	799.596	859.463	0.104165	-0.124679	0.90078	0.999883
gene515	gene515	SACOL0526	gi 57650036 ref NC_002951.2 :537583-538510	MR150	M36C05	OK	66.5575	50.3642	-0.402204	0.537537	0.5909	0.999883
gene516	gene516	SACOL0527	gi 57650036 ref NC_002951.2 :538510-539314	MR150	M36C05	OK	53.233	32.6918	-0.703392	0.987567	0.32337	0.999883
gene517	gene517	SACOL0528	gi 57650036 ref NC_002951.2 :539330-539678	MR150	M36C05	OK	109.083	35.0239	-1.63901	2.37865	0.01738	0.238061
gene518	gene518	SACOL0529	gi 57650036 ref NC_002951.2 :539951-540918	MR150	M36C05	OK	13.6795	5.6636	-1.27222	1.66162	0.09659	0.62579
gene519	gene519	SACOL0530	gi 57650036 ref NC_002951.2 :539951-540918	MR150	M36C05	OK	27.708	8.27482	-1.7435	1.04262	0.29712	0.9791
gene52	gene52	SACOL0051	gi 57650036 ref NC_002951.2 :61981-63598	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene520	gene520	SACOL0531	gi 57650036 ref NC_002951.2 :540919-541759	MR150	M36C05	OK	9.80884	6.0322	-0.701398	1.01346	0.31084	0.993813
gene521	gene521	SACOL0532	gi 57650036 ref NC_002951.2 :541783-541939	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene522	gene522	metS	gi 57650036 ref NC_002951.2 :542043-544017	MR150	M36C05	OK	29.0974	20.1904	-0.527222	0.703064	0.48202	0.999883
gene523	gene523	SACOL0534	gi 57650036 ref NC_002951.2 :544047-544821	MR150	M36C05	OK	49.0784	33.6342	-0.545158	0.771296	0.44053	0.999883
gene524	gene524	SACOL0535	gi 57650036 ref NC_002951.2 :544987-545524	MR150	M36C05	OK	22.7027	23.5909	0.0553621	-0.08136	0.93516	0.999883
gene525	gene525	ksgA	gi 57650036 ref NC_002951.2 :545534-546428	MR150	M36C05	OK	18.754	16.3689	-0.196236	0.287358	0.77384	0.999883
gene526	gene526	SACOL0537	gi 57650036 ref NC_002951.2 :546527-546791	MR150	M36C05	OK	8829.78	4474.57	-0.980626	1.02229	0.30665	0.991033
gene527	gene527	ipk	gi 57650036 ref NC_002951.2 :547100-547949	MR150	M36C05	OK	43.4101	48.2674	0.153018	-0.212051	0.83207	0.999883
gene528	gene528	purR	gi 57650036 ref NC_002951.2 :547962-548787	MR150	M36C05	OK	55.1201	59.6539	0.114037	-0.154976	0.87684	0.999883
gene529	gene529	SACOL0540	gi 57650036 ref NC_002951.2 :548803-549184	MR150	M36C05	OK	84.5491	998.901	3.56248	-4.50242	6.72E-06	0.0006002
gene53	gene53	SACOL0052	gi 57650036 ref NC_002951.2 :63757-65269	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene530	gene530	spoVG	gi 57650036 ref NC_002951.2 :549255-549558	MR150	M36C05	OK	357.541	3141.43	3.13524	-3.69824	0.00022	0.0105329
gene531	gene531	SACOL0542	gi 57650036 ref NC_002951.2 :549747-549879	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene532	gene532	glmU	gi 57650036 ref NC_002951.2 :549901-551254	MR150	M36C05	OK	53.2651	50.2904	-0.08291	0.106903	0.91487	0.999883
gene533	gene533	prsA	gi 57650036 ref NC_002951.2 :551400-552366	MR150	M36C05	OK	117.145	48.3729	-1.27603	1.64242	0.1005	0.638047
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	MR150	M36C05	OK	863.838	190.828	-2.17849	2.4675	0.01361	0.201778
gene535	gene535	pth	gi 57650036 ref NC_002951.2 :553479-560527	MR150	M36C05	OK	47.1854	36.9987	-0.350866	0.106888	0.91488	0.999883
gene536	gene536	mfd	gi 57650036 ref NC_002951.2 :553479-560527	MR150	M36C05	OK	47.0631	18.4583	-1.35032	1.05949	0.28938	0.975616
gene537	gene537	SACOL0548	gi 57650036 ref NC_002951.2 :553479-560527	MR150	M36C05	OK	38.319	14.204	-1.43176	0.632958	0.52676	0.999883
gene538	gene538	SACOL0549	gi 57650036 ref NC_002951.2 :553479-560527	MR150	M36C05	OK	68.5613	40.2625	-0.767959	0.436605	0.6624	0.999883
gene539	gene539	SACOL0550	gi 57650036 ref NC_002951.2 :553479-560527	MR150	M36C05	OK	35.233	26.6929	-0.40047	0.048027	0.96169	0.999883
gene54	gene54	SACOL0054	gi 57650036 ref NC_002951.2 :65291-67344	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene540	gene540	SACOL0551	gi 57650036 ref NC_002951.2 :560544-560937	MR150	M36C05	OK	105.488	63.1148	-0.741023	1.07281	0.28336	0.969575
gene541	gene541	SACOL0552	gi 57650036 ref NC_002951.2 :561041-561443	MR150	M36C05	OK	332.206	118.07	-1.49243	1.99592	0.04594	0.421504
gene542	gene542	SACOL0553	gi 57650036 ref NC_002951.2 :561622-562918	MR150	M36C05	OK	9.36235	4.42575	-1.08095	1.57643	0.11493	0.670749
gene543	gene543	hpt	gi 57650036 ref NC_002951.2 :562922-563462	MR150	M36C05	OK	26.5534	11.0417	-1.26593	1.83164	0.06701	0.516972

gene544	gene544	SACOL0555	gi 57650036 ref NC_002951.2 :563718-565812	MR150	M36C05	OK	183.582	219.945	0.260717	-0.27521	0.78316	0.999883
gene545	gene545	hslO	gi 57650036 ref NC_002951.2 :566040-566922	MR150	M36C05	OK	58.5984	33.9615	-0.786961	1.08559	0.27766	0.963271
gene546	gene546	cysK	gi 57650036 ref NC_002951.2 :567100-568033	MR150	M36C05	OK	160.228	465.361	1.53823	-1.72667	0.08423	0.577775
gene547	gene547	folP	gi 57650036 ref NC_002951.2 :568248-569868	MR150	M36C05	OK	13.435	15.524	0.208508	-0.179295	0.85771	0.999883
gene548	gene548	folB	gi 57650036 ref NC_002951.2 :568248-569868	MR150	M36C05	OK	15.4426	26.2473	0.765259	-0.402118	0.6876	0.999883
gene549	gene549	folK	gi 57650036 ref NC_002951.2 :568248-569868	MR150	M36C05	OK	49.1293	32.2832	-0.605799	0.583536	0.55953	0.999883
gene55	gene55	SACOL0057	gi 57650036 ref NC_002951.2 :68406-68499	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene550	gene550	SACOL0561	gi 57650036 ref NC_002951.2 :570261-570354	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene551	gene551	lysS	gi 57650036 ref NC_002951.2 :570406-571894	MR150	M36C05	OK	115.345	137.358	0.251984	-0.289135	0.77248	0.999883
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	MR150	M36C05	OK	134529	113856	-0.240706	0.318569	0.75005	0.999883
gene554	gene554	rrsB	gi 57650036 ref NC_002951.2 :572775-574330	MR150	M36C05	OK	14934.4	12971.5	-0.203298	0.298017	0.76569	0.999883
gene555	gene555	SACOL_tRNA-	gi 57650036 ref NC_002951.2 :574422-574499	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene556	gene556	rrlB	gi 57650036 ref NC_002951.2 :574666-577589	MR150	M36C05	OK	38209.6	39771.2	0.0577861	-0.143755	0.88569	0.999883
gene557	gene557	rrfB	gi 57650036 ref NC_002951.2 :577661-577776	MR150	M36C05	OK	169070	303616	0.844626	-1.0422	0.29732	0.9791
gene558	gene558	rrsC	gi 57650036 ref NC_002951.2 :577987-579542	MR150	M36C05	OK	15002.9	12997.3	-0.207034	0.303726	0.76134	0.999883
gene559	gene559	rrlC	gi 57650036 ref NC_002951.2 :579844-582767	MR150	M36C05	OK	30782.3	31420.1	0.0295876	-0.067844	0.94591	0.999883
gene56	gene56	SACOL0058	gi 57650036 ref NC_002951.2 :68645-70391	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene560	gene560	rrfC	gi 57650036 ref NC_002951.2 :582839-582954	MR150	M36C05	OK	534934	506911	-0.0776282	0.087372	0.93038	0.999883
gene561	gene561	SACOL0563	gi 57650036 ref NC_002951.2 :583478-584861	MR150	M36C05	OK	1.55356	1.30456	-0.252017	0.327642	0.74318	0.999883
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	MR150	M36C05	OK	237.469	56.5892	-2.06914	2.55485	0.01062	0.173548
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	MR150	M36C05	OK	308.193	73.0966	-2.07596	2.67345	0.00751	0.140392
gene564	gene564	nupC	gi 57650036 ref NC_002951.2 :586623-587838	MR150	M36C05	OK	103.205	36.3874	-1.504	1.91614	0.05535	0.466228
gene565	gene565	ctsR	gi 57650036 ref NC_002951.2 :587995-588457	MR150	M36C05	OK	458.55	187.883	-1.28724	1.604	0.10871	0.655235
gene566	gene566	SACOL0568	gi 57650036 ref NC_002951.2 :588475-590039	MR150	M36C05	OK	419.09	232.546	-0.849743	0.531207	0.59528	0.999883
gene567	gene567	SACOL0569	gi 57650036 ref NC_002951.2 :588475-590039	MR150	M36C05	OK	415.618	174.552	-1.2516	1.0851	0.27788	0.963271
gene568	gene568	clpC	gi 57650036 ref NC_002951.2 :590052-592508	MR150	M36C05	OK	532.458	214.923	-1.30885	1.34947	0.17719	0.821477
gene569	gene569	radA	gi 57650036 ref NC_002951.2 :592994-594359	MR150	M36C05	OK	32.7343	16.1806	-1.01654	1.41561	0.15689	0.774623
gene57	gene57	SACOL0059	gi 57650036 ref NC_002951.2 :70484-70937	MR150	M36C05	OK	19.327	17.8818	-0.112131	0.16207	0.87125	0.999883
gene570	gene570	SACOL0573	gi 57650036 ref NC_002951.2 :594383-595457	MR150	M36C05	OK	29.0857	11.4805	-1.34112	1.92755	0.05391	0.461181
gene571	gene571	gltX	gi 57650036 ref NC_002951.2 :596013-597468	MR150	M36C05	OK	56.0155	25.3838	-1.14192	1.50427	0.13251	0.721045
gene572	gene572	cysE	gi 57650036 ref NC_002951.2 :597896-600319	MR150	M36C05	OK	20.0865	57.4322	1.51563	-0.833316	0.40467	0.999883
gene573	gene573	cysS	gi 57650036 ref NC_002951.2 :597896-600319	MR150	M36C05	OK	23.3368	80.2202	1.78136	-1.83727	0.06617	0.515048
gene574	gene574	SACOL0577	gi 57650036 ref NC_002951.2 :597896-600319	MR150	M36C05	OK	20.7928	84.7463	2.02707	-0.85564	0.3922	0.999883

gene575	gene575	SACOL0578	gi 57650036 ref NC_002951.2 :600326-601597	MR150	M36C05	OK	22.9507	73.0144	1.66964	-1.5939	0.11096	0.661451
gene576	gene576	SACOL0579	gi 57650036 ref NC_002951.2 :600326-601597	MR150	M36C05	OK	40.0162	103.966	1.37745	-1.265	0.20587	0.878491
gene577	gene577	SACOL0580	gi 57650036 ref NC_002951.2 :601677-602247	MR150	M36C05	OK	19.8542	34.912	0.814278	-1.19322	0.23278	0.902162
gene578	gene578	secE	gi 57650036 ref NC_002951.2 :602560-602743	MR150	M36C05	OK	219.28	91.2481	-1.26491	1.74213	0.08149	0.568124
gene579	gene579	nusG	gi 57650036 ref NC_002951.2 :602755-603304	MR150	M36C05	OK	224.06	119.906	-0.901989	1.16466	0.24416	0.917433
gene58	gene58	SACOL0061	gi 57650036 ref NC_002951.2 :71151-72167	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	MR150	M36C05	OK	519.115	157.756	-1.71836	2.16928	0.03006	0.330484
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	MR150	M36C05	OK	761.397	154.665	-2.2995	2.62704	0.00861	0.152769
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	MR150	M36C05	OK	244.951	34.8505	-2.81324	3.80183	0.00014	0.0078747
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	MR150	M36C05	OK	913.795	90.9789	-3.32827	4.2476	2.16E-05	0.0014979
gene584	gene584	SACOL0587	gi 57650036 ref NC_002951.2 :606164-606773	MR150	M36C05	OK	56.5095	19.9721	-1.50051	2.16634	0.03029	0.331579
gene585	gene585	rpoB	gi 57650036 ref NC_002951.2 :606987-610539	MR150	M36C05	OK	189.244	111.104	-0.768343	0.799975	0.42373	0.999883
gene586	gene586	rpoC	gi 57650036 ref NC_002951.2 :610675-614299	MR150	M36C05	OK	192.692	94.7043	-1.02479	1.07292	0.28331	0.969575
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	MR150	M36C05	OK	312.561	26.2795	-3.57213	4.89233	9.97E-07	0.0001163
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	MR150	M36C05	OK	957.15	280.331	-1.77161	2.11697	0.03426	0.354225
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	MR150	M36C05	OK	1186.99	261.515	-2.18234	2.52271	0.01165	0.184014
gene59	gene59	SACOL0062	gi 57650036 ref NC_002951.2 :71151-72167	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	MR150	M36C05	OK	715.813	164.957	-2.11749	2.22567	0.02604	0.306341
gene591	gene591	tuf	gi 57650036 ref NC_002951.2 :618157-619342	MR150	M36C05	OK	1292.48	543.421	-1.25	1.28626	0.19835	0.863702
gene592	gene592	SACOL0595	gi 57650036 ref NC_002951.2 :619623-620799	MR150	M36C05	OK	20.3984	43.4909	1.09226	-1.50972	0.13111	0.718382
gene593	gene593	SACOL0596	gi 57650036 ref NC_002951.2 :620969-622157	MR150	M36C05	OK	357.598	350.17	-0.0302845	0.032193	0.97432	0.999883
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	MR150	M36C05	OK	195.965	1032.61	2.39763	-2.61403	0.00895	0.156042
gene595	gene595	SACOL0598	gi 57650036 ref NC_002951.2 :623460-625098	MR150	M36C05	OK	12.7814	8.35471	-0.613384	0.891279	0.37278	0.999883
gene596	gene596	SACOL0599	gi 57650036 ref NC_002951.2 :625311-626277	MR150	M36C05	OK	100.153	50.6764	-0.982823	1.2752	0.20224	0.871437
gene597	gene597	ilvE	gi 57650036 ref NC_002951.2 :626611-627834	MR150	M36C05	OK	121.009	266.417	1.13857	-1.25825	0.2083	0.885625
gene598	gene598	SACOL0601	gi 57650036 ref NC_002951.2 :626611-627834	MR150	M36C05	OK	0	13.8763	1.79769e+30	1.79769e+30	0.47241	0.999883
gene599	gene599	SACOL0602	gi 57650036 ref NC_002951.2 :627937-628621	MR150	M36C05	OK	73.0631	140.675	0.945149	-1.24132	0.21449	0.89416
gene6	gene6	SACOL0007	gi 57650036 ref NC_002951.2 :9781-10483	MR150	M36C05	OK	29.5809	19.3432	-0.612842	0.896344	0.37007	0.999883
gene60	gene60	SACOL0063	gi 57650036 ref NC_002951.2 :72303-73371	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene600	gene600	SACOL0603	gi 57650036 ref NC_002951.2 :628736-630009	MR150	M36C05	OK	50.9162	27.1729	-0.905958	1.17503	0.23998	0.911371
gene601	gene601	SACOL0604	gi 57650036 ref NC_002951.2 :628736-630009	MR150	M36C05	OK	10.6194	6.60177	-0.685775	0.399894	0.68923	0.999883
gene602	gene602	SACOL0605	gi 57650036 ref NC_002951.2 :630075-630545	MR150	M36C05	OK	24.3481	22.8954	-0.0887497	0.129903	0.89664	0.999883
gene603	gene603	SACOL0606	gi 57650036 ref NC_002951.2 :630692-631562	MR150	M36C05	OK	23.3105	17.4499	-0.417759	0.609555	0.54216	0.999883

gene604	gene604	SACOL0607	gi 57650036 ref NC_002951.2 :631582-632149	MR150	M36C05	OK	60.0488	28.5794	-1.07116	1.54885	0.12142	0.692806
gene605	gene605	sdrC	gi 57650036 ref NC_002951.2 :632578-635422	MR150	M36C05	OK	7.76339	4.45931	-0.799866	1.1585	0.24666	0.921573
gene606	gene606	sdrD	gi 57650036 ref NC_002951.2 :635788-639934	MR150	M36C05	OK	82.5732	17.7861	-2.21492	2.55982	0.01047	0.17225
gene607	gene607	sdrE	gi 57650036 ref NC_002951.2 :640327-643828	MR150	M36C05	OK	8.90997	9.74664	0.129484	-0.178799	0.8581	0.999883
gene608	gene608	SACOL0611	gi 57650036 ref NC_002951.2 :643946-645419	MR150	M36C05	OK	9.62505	12.8154	0.413009	-0.601728	0.54736	0.999883
gene609	gene609	SACOL0612	gi 57650036 ref NC_002951.2 :645542-647033	MR150	M36C05	OK	52.0813	68.2204	0.389438	-0.487408	0.62597	0.999883
gene61	gene61	SACOL0064	gi 57650036 ref NC_002951.2 :73401-74736	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene610	gene610	SACOL0613	gi 57650036 ref NC_002951.2 :647314-648193	MR150	M36C05	OK	195.514	62.3758	-1.64821	2.05428	0.03995	0.389112
gene611	gene611	SACOL0614	gi 57650036 ref NC_002951.2 :648205-648871	MR150	M36C05	OK	74.8975	25.5767	-1.55009	2.18752	0.0287	0.322068
gene612	gene612	SACOL0615	gi 57650036 ref NC_002951.2 :648884-649247	MR150	M36C05	OK	243.013	70.7522	-1.78019	2.49237	0.01269	0.19349
gene613	gene613	nagB	gi 57650036 ref NC_002951.2 :649522-650281	MR150	M36C05	OK	13.4203	15.9862	0.252416	-0.370993	0.71064	0.999883
gene614	gene614	SACOL0617	gi 57650036 ref NC_002951.2 :650357-650990	MR150	M36C05	OK	47.017	197.552	2.07097	-2.7414	0.00612	0.121632
gene615	gene615	SACOL0618	gi 57650036 ref NC_002951.2 :650991-651540	MR150	M36C05	OK	90.3257	261.008	1.53089	-1.98367	0.04729	0.426221
gene616	gene616	SACOL0619	gi 57650036 ref NC_002951.2 :651643-652300	MR150	M36C05	OK	2.67969	4.10539	0.615452	-0.784374	0.43282	0.999883
gene617	gene617	proP	gi 57650036 ref NC_002951.2 :652801-654202	MR150	M36C05	OK	358.086	246.076	-0.541204	0.574994	0.5653	0.999883
gene618	gene618	SACOL0621	gi 57650036 ref NC_002951.2 :654745-656122	MR150	M36C05	OK	1.6916	3.55901	1.07309	-1.48228	0.13827	0.733494
gene619	gene619	atoB	gi 57650036 ref NC_002951.2 :656123-657603	MR150	M36C05	OK	3.42127	9.26618	1.43744	-1.93119	0.05346	0.457851
gene62	gene62	SACOL0065	gi 57650036 ref NC_002951.2 :74754-75948	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene620	gene620	SACOL0623	gi 57650036 ref NC_002951.2 :656123-657603	MR150	M36C05	OK	3.63355	6.56184	0.852721	-0.447457	0.65455	0.999883
gene621	gene621	SACOL0624	gi 57650036 ref NC_002951.2 :657605-657875	MR150	M36C05	OK	5.52788	2.64674	-1.06251	0.876128	0.38096	0.999883
gene622	gene622	SACOL0625	gi 57650036 ref NC_002951.2 :658075-658243	MR150	M36C05	OK	540.158	667.652	0.305715	-0.448973	0.65345	0.999883
gene623	gene623	thiD1	gi 57650036 ref NC_002951.2 :658749-659580	MR150	M36C05	OK	86.6262	86.8807	0.00423294	-0.005509	0.9956	0.999883
gene624	gene624	ung	gi 57650036 ref NC_002951.2 :659763-660420	MR150	M36C05	OK	64.6476	19.561	-1.72462	2.46052	0.01387	0.204544
gene625	gene625	SACOL0628	gi 57650036 ref NC_002951.2 :660420-660801	MR150	M36C05	OK	61.1097	18.1398	-1.75224	2.51934	0.01176	0.184977
gene626	gene626	SACOL0629	gi 57650036 ref NC_002951.2 :660933-661302	MR150	M36C05	OK	72.3532	15.4858	-2.22411	3.15808	0.00159	0.0489071
gene627	gene627	SACOL0630	gi 57650036 ref NC_002951.2 :661422-662907	MR150	M36C05	OK	20.5007	409.605	4.32049	-5.08295	3.72E-07	5.27E-05
gene628	gene628	SACOL0631	gi 57650036 ref NC_002951.2 :663048-663501	MR150	M36C05	OK	10.8714	22.2432	1.03282	-1.46699	0.14238	0.740755
gene629	gene629	SACOL0632	gi 57650036 ref NC_002951.2 :663513-664278	MR150	M36C05	OK	19.7813	37.8808	0.93733	-1.35632	0.175	0.821477
gene63	gene63	SACOL0066	gi 57650036 ref NC_002951.2 :76214-76316	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene630	gene630	SACOL0633	gi 57650036 ref NC_002951.2 :664826-665579	MR150	M36C05	OK	202.379	171.575	-0.238224	0.287925	0.7734	0.999883
gene631	gene631	eutD	gi 57650036 ref NC_002951.2 :665746-666733	MR150	M36C05	OK	127.641	59.1312	-1.1101	1.40317	0.16057	0.783033
gene632	gene632	SACOL0635	gi 57650036 ref NC_002951.2 :666735-667572	MR150	M36C05	OK	138.691	47.0999	-1.55808	2.02748	0.04261	0.403652
gene633	gene633	mvk	gi 57650036 ref NC_002951.2 :668158-669079	MR150	M36C05	OK	10.6188	15.2963	0.526558	-0.77325	0.43937	0.999883

gene634	gene634	mvaD	gi 57650036 ref NC_002951.2 :669083-670067	MR150	M36C05	OK	11.5238	32.914	1.51408	-2.17538	0.0296	0.327061
gene635	gene635	SACOL0638	gi 57650036 ref NC_002951.2 :670079-671156	MR150	M36C05	OK	13.7947	23.5111	0.769231	-1.11365	0.26543	0.948965
gene636	gene636	SACOL0639	gi 57650036 ref NC_002951.2 :671332-671674	MR150	M36C05	OK	17.8261	9.84805	-0.856082	1.12904	0.25888	0.938582
gene637	gene637	SACOL0640	gi 57650036 ref NC_002951.2 :671726-673476	MR150	M36C05	OK	39.0041	84.2257	1.11063	-1.33377	0.18228	0.830192
gene638	gene638	SACOL0641	gi 57650036 ref NC_002951.2 :671726-673476	MR150	M36C05	OK	22.8134	30.6622	0.42658	-0.157907	0.87453	0.999883
gene639	gene639	SACOL0642	gi 57650036 ref NC_002951.2 :673533-673635	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene64	gene64	SACOL0067	gi 57650036 ref NC_002951.2 :76614-77547	MR150	M36C05	OK	19.0101	17.7538	-0.0986344	0.144035	0.88547	0.999883
gene640	gene640	SACOL0643	gi 57650036 ref NC_002951.2 :674100-675510	MR150	M36C05	OK	10.8855	12.3899	0.186755	-0.272299	0.78539	0.999883
gene641	gene641	SACOL0644	gi 57650036 ref NC_002951.2 :675513-676140	MR150	M36C05	OK	1.07542	4.65289	2.11322	-2.3554	0.0185	0.246604
gene642	gene642	SACOL0645	gi 57650036 ref NC_002951.2 :676265-676907	MR150	M36C05	OK	3.80951	1.74794	-1.12395	1.34655	0.17813	0.821737
gene643	gene643	SACOL0646	gi 57650036 ref NC_002951.2 :676994-677612	MR150	M36C05	OK	6.22515	4.22513	-0.559113	0.750574	0.45291	0.999883
gene644	gene644	SACOL0647	gi 57650036 ref NC_002951.2 :677686-678316	MR150	M36C05	OK	2.84781	2.82356	-0.0123355	0.015182	0.98789	0.999883
gene645	gene645	SACOL0648	gi 57650036 ref NC_002951.2 :678511-679132	MR150	M36C05	OK	3.27221	2.35967	-0.47168	0.574435	0.56567	0.999883
gene646	gene646	SACOL0649	gi 57650036 ref NC_002951.2 :679262-679904	MR150	M36C05	OK	2.42424	1.24853	-0.957305	1.0563	0.29083	0.975616
gene647	gene647	SACOL0650	gi 57650036 ref NC_002951.2 :679950-680580	MR150	M36C05	OK	1.77988	2.82356	0.665736	-0.777406	0.43692	0.999883
gene648	gene648	SACOL0651	gi 57650036 ref NC_002951.2 :681032-681662	MR150	M36C05	OK	1.06793	1.28344	0.265198	-0.265537	0.7906	0.999883
gene649	gene649	SACOL0652	gi 57650036 ref NC_002951.2 :681776-682427	MR150	M36C05	OK	1.01824	1.22356	0.265007	-0.265345	0.79074	0.999883
gene65	gene65	SACOL0068	gi 57650036 ref NC_002951.2 :77909-78113	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene650	gene650	SACOL0653	gi 57650036 ref NC_002951.2 :682463-683099	MR150	M36C05	OK	5.6173	2.53148	-1.1499	1.47176	0.14109	0.739348
gene651	gene651	SACOL0654	gi 57650036 ref NC_002951.2 :683333-683960	MR150	M36C05	OK	5.01864	1.29247	-1.95717	2.25956	0.02385	0.292955
gene652	gene652	SACOL0655	gi 57650036 ref NC_002951.2 :684229-685168	MR150	M36C05	OK	277.45	281.006	0.0183744	-0.02056	0.9836	0.999883
gene653	gene653	SACOL0656	gi 57650036 ref NC_002951.2 :685378-685915	MR150	M36C05	OK	705.601	726.075	0.0412647	-0.045462	0.96374	0.999883
gene654	gene654	SACOL0657	gi 57650036 ref NC_002951.2 :686083-686560	MR150	M36C05	OK	29.8088	37.0659	0.314356	-0.462039	0.64405	0.999883
gene655	gene655	SACOL0658	gi 57650036 ref NC_002951.2 :686599-687895	MR150	M36C05	OK	54.2178	66.4869	0.294304	-0.375202	0.70751	0.999883
gene656	gene656	SACOL0659	gi 57650036 ref NC_002951.2 :687922-688444	MR150	M36C05	OK	166.779	139.57	-0.256946	0.33804	0.73533	0.999883
gene657	gene657	adhP	gi 57650036 ref NC_002951.2 :688942-689953	MR150	M36C05	OK	5.09813	19.3078	1.92114	-2.7726	0.00556	0.115648
gene658	gene658	SACOL0661	gi 57650036 ref NC_002951.2 :690027-690135	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene659	gene659	SACOL0662	gi 57650036 ref NC_002951.2 :690215-692302	MR150	M36C05	OK	55.9793	51.4992	-0.120344	0.053029	0.95771	0.999883
gene66	gene66	SACOL0069	gi 57650036 ref NC_002951.2 :78161-78458	MR150	M36C05	OK	0	1.04359	1.79769e+30	1.79769e+30	0.14732	0.743774
gene660	gene660	argS	gi 57650036 ref NC_002951.2 :690215-692302	MR150	M36C05	OK	71.4488	41.4644	-0.785038	0.880834	0.37841	0.999883
gene661	gene661	SACOL0664	gi 57650036 ref NC_002951.2 :692690-693326	MR150	M36C05	OK	8.77703	12.1511	0.469283	-0.675795	0.49917	0.999883
gene662	gene662	SACOL0665	gi 57650036 ref NC_002951.2 :693704-694592	MR150	M36C05	OK	25.5942	13.9469	-0.87587	1.27627	0.20186	0.871284
gene663	gene663	SACOL0666	gi 57650036 ref NC_002951.2 :694739-695690	MR150	M36C05	OK	18.1469	11.6008	-0.645494	0.945734	0.34428	0.999883

gene664	gene664	SACOL0667	gi 57650036 ref NC_002951.2 :695744-697248	MR150	M36C05	OK	29.1465	20.7944	-0.487131	0.436609	0.6624	0.999883
gene665	gene665	SACOL0668	gi 57650036 ref NC_002951.2 :695744-697248	MR150	M36C05	OK	30.3159	28.083	-0.110377	0.115727	0.90787	0.999883
gene666	gene666	SACOL0669	gi 57650036 ref NC_002951.2 :697383-697890	MR150	M36C05	OK	183.374	269.761	0.556892	-0.706414	0.47993	0.999883
gene667	gene667	SACOL0670	gi 57650036 ref NC_002951.2 :698051-698768	MR150	M36C05	OK	31.0922	34.7876	0.162018	-0.234408	0.81467	0.999883
gene668	gene668	SACOL0671	gi 57650036 ref NC_002951.2 :698936-699725	MR150	M36C05	OK	79.5422	664.518	3.06252	-3.56663	0.00036	0.015577
gene669	gene669	sarA	gi 57650036 ref NC_002951.2 :699975-700350	MR150	M36C05	OK	546.26	5032.8	3.2037	-3.54306	0.0004	0.0167391
gene67	gene67	SACOL0070	gi 57650036 ref NC_002951.2 :78529-80204	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene670	gene670	SACOL0673	gi 57650036 ref NC_002951.2 :700497-700617	MR150	M36C05	OK	0	297.145	1.79769e+30	1.79769e+30	0.06916	0.522414
gene671	gene671	SACOL0675	gi 57650036 ref NC_002951.2 :701297-702191	MR150	M36C05	OK	14.1206	26.6988	0.918972	-1.33726	0.18114	0.828669
gene672	gene672	SACOL0676	gi 57650036 ref NC_002951.2 :702421-702646	MR150	M36C05	OK	3.18319	0	-1.79769e+30	-1.79769e+30	0.10824	0.653986
gene673	gene673	SACOL0677	gi 57650036 ref NC_002951.2 :702662-702866	MR150	M36C05	OK	4.59906	6.56655	0.513796	-0.338041	0.73533	0.999883
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	MR150	M36C05	OK	3.81532	66.0622	4.11395	-5.47217	4.45E-08	8.47E-06
gene675	gene675	SACOL0679	gi 57650036 ref NC_002951.2 :703603-708245	MR150	M36C05	OK	5.97971	59.8261	3.32263	-2.82611	0.00471	0.101483
gene676	gene676	SACOL0680	gi 57650036 ref NC_002951.2 :703603-708245	MR150	M36C05	OK	6.07603	77.0386	3.66438	-1.07139	0.284	0.970845
gene677	gene677	SACOL0681	gi 57650036 ref NC_002951.2 :703603-708245	MR150	M36C05	OK	6.17392	64.6733	3.38891	-0.769998	0.4413	0.999883
gene678	gene678	SACOL0682	gi 57650036 ref NC_002951.2 :703603-708245	MR150	M36C05	OK	11.9268	65.9499	2.46716	-1.88944	0.05883	0.486046
gene679	gene679	SACOL0684	gi 57650036 ref NC_002951.2 :708245-709439	MR150	M36C05	OK	3.78264	17.9463	2.24622	-1.26342	0.20644	0.87934
gene68	gene68	SACOL0071	gi 57650036 ref NC_002951.2 :78529-80204	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene680	gene680	SACOL0685	gi 57650036 ref NC_002951.2 :708245-709439	MR150	M36C05	OK	12.4242	69.6769	2.48753	-1.64521	0.09993	0.638047
gene681	gene681	SACOL0686	gi 57650036 ref NC_002951.2 :708245-709439	MR150	M36C05	OK	22.4556	67.1851	1.58106	-1.76386	0.07776	0.554398
gene682	gene682	SACOL0687	gi 57650036 ref NC_002951.2 :709778-711821	MR150	M36C05	OK	58.8422	101.715	0.789611	-0.919088	0.35805	0.999883
gene683	gene683	SACOL0688	gi 57650036 ref NC_002951.2 :712980-715480	MR150	M36C05	OK	263.878	418.025	0.663718	-0.441389	0.65893	0.999883
gene684	gene684	SACOL0689	gi 57650036 ref NC_002951.2 :712980-715480	MR150	M36C05	OK	155.036	300.608	0.95528	-0.478927	0.63199	0.999883
gene685	gene685	SACOL0690	gi 57650036 ref NC_002951.2 :712980-715480	MR150	M36C05	OK	274.675	505.406	0.879715	-0.535549	0.59227	0.999883
gene686	gene686	sirR	gi 57650036 ref NC_002951.2 :715601-716246	MR150	M36C05	OK	196.072	137.65	-0.510379	0.642427	0.5206	0.999883
gene687	gene687	SACOL0692	gi 57650036 ref NC_002951.2 :716325-717078	MR150	M36C05	OK	13.0121	9.97527	-0.383422	0.56061	0.57506	0.999883
gene688	gene688	tagA	gi 57650036 ref NC_002951.2 :717313-718078	MR150	M36C05	OK	28.1815	18.7451	-0.588235	0.858712	0.3905	0.999883
gene689	gene689	SACOL0694	gi 57650036 ref NC_002951.2 :718138-718933	MR150	M36C05	OK	89.5482	65.8178	-0.444186	0.588674	0.55608	0.999883
gene69	gene69	SACOL0072	gi 57650036 ref NC_002951.2 :80405-81266	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene690	gene690	SACOL0695	gi 57650036 ref NC_002951.2 :719279-720092	MR150	M36C05	OK	114.645	63.5226	-0.851832	1.11121	0.26648	0.949974
gene691	gene691	tagB	gi 57650036 ref NC_002951.2 :720190-722352	MR150	M36C05	OK	35.9134	37.0785	0.0460632	-0.04441	0.96458	0.999883
gene692	gene692	tagX	gi 57650036 ref NC_002951.2 :720190-722352	MR150	M36C05	OK	33.7541	26.7348	-0.336344	0.287323	0.77387	0.999883
gene693	gene693	tagD	gi 57650036 ref NC_002951.2 :722414-722813	MR150	M36C05	OK	44.3294	22.0818	-1.0054	1.46294	0.14348	0.743774

gene694	gene694	pbp4	gi 57650036 ref NC_002951.2 :722929-724225	MR150	M36C05	OK	19.4234	16.6972	-0.218192	0.313058	0.75424	0.999883
gene695	gene695	abcA	gi 57650036 ref NC_002951.2 :724645-726373	MR150	M36C05	OK	60.8455	79.9939	0.39474	-0.475104	0.63471	0.999883
gene696	gene696	SACOL0701	gi 57650036 ref NC_002951.2 :726731-727961	MR150	M36C05	OK	88.1715	58.8698	-0.582786	0.732083	0.46412	0.999883
gene697	gene697	SACOL0702	gi 57650036 ref NC_002951.2 :728215-728308	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene698	gene698	SACOL0703	gi 57650036 ref NC_002951.2 :728485-729319	MR150	M36C05	OK	39.848	30.6208	-0.379993	0.540398	0.58892	0.999883
gene699	gene699	SACOL0704	gi 57650036 ref NC_002951.2 :729600-730398	MR150	M36C05	OK	35.5885	53.3121	0.583052	-0.817003	0.41393	0.999883
gene7	gene7	hutH	gi 57650036 ref NC_002951.2 :10919-12434	MR150	M36C05	OK	37.6203	9.38816	-2.0026	2.77057	0.0056	0.116038
gene70	gene70	SACOL0073	gi 57650036 ref NC_002951.2 :81620-82154	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene700	gene700	SACOL0705	gi 57650036 ref NC_002951.2 :730433-732451	MR150	M36C05	OK	11.794	15.0683	0.353463	-0.239035	0.81108	0.999883
gene701	gene701	SACOL0706	gi 57650036 ref NC_002951.2 :730433-732451	MR150	M36C05	OK	40.1108	35.2273	-0.187294	0.215247	0.82958	0.999883
gene702	gene702	SACOL0707	gi 57650036 ref NC_002951.2 :732687-733653	MR150	M36C05	OK	26.3877	35.8478	0.44202	-0.625307	0.53177	0.999883
gene703	gene703	SACOL0708	gi 57650036 ref NC_002951.2 :733694-734634	MR150	M36C05	OK	42.934	58.7835	0.453292	-0.568169	0.56992	0.999883
gene704	gene704	SACOL0709	gi 57650036 ref NC_002951.2 :733694-734634	MR150	M36C05	OK	21.2521	42.7183	1.00725	-0.639583	0.52244	0.999883
gene705	gene705	SACOL0710	gi 57650036 ref NC_002951.2 :734749-735247	MR150	M36C05	OK	480.443	408.333	-0.234621	0.27542	0.78299	0.999883
gene706	gene706	SACOL0711	gi 57650036 ref NC_002951.2 :735702-736770	MR150	M36C05	OK	346.147	75.0762	-2.20496	2.56903	0.0102	0.17006
gene707	gene707	SACOL0712	gi 57650036 ref NC_002951.2 :736920-737964	MR150	M36C05	OK	31.5706	8.23086	-1.93947	2.77861	0.00546	0.114185
gene708	gene708	SACOL0713	gi 57650036 ref NC_002951.2 :738292-738721	MR150	M36C05	OK	115.957	40.4293	-1.52012	2.18038	0.02923	0.32476
gene709	gene709	SACOL0714	gi 57650036 ref NC_002951.2 :738929-739436	MR150	M36C05	OK	173.906	237.749	0.451131	-0.578309	0.56306	0.999883
gene71	gene71	SACOL0074	gi 57650036 ref NC_002951.2 :82253-82988	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene710	gene710	SACOL0715	gi 57650036 ref NC_002951.2 :739548-740472	MR150	M36C05	OK	35.5316	32.903	-0.110882	0.15638	0.87573	0.999883
gene711	gene711	SACOL0716	gi 57650036 ref NC_002951.2 :740478-742195	MR150	M36C05	OK	21.824	18.4678	-0.240903	0.15892	0.87373	0.999883
gene712	gene712	SACOL0717	gi 57650036 ref NC_002951.2 :740478-742195	MR150	M36C05	OK	43.7009	29.632	-0.560507	0.654924	0.51252	0.999883
gene713	gene713	SACOL0718	gi 57650036 ref NC_002951.2 :742338-744979	MR150	M36C05	OK	292.036	192.576	-0.600721	0.343936	0.73089	0.999883
gene714	gene714	SACOL0720	gi 57650036 ref NC_002951.2 :742338-744979	MR150	M36C05	OK	294.92	105.581	-1.48197	1.28215	0.19979	0.867353
gene715	gene715	SACOL0721	gi 57650036 ref NC_002951.2 :745703-746321	MR150	M36C05	OK	58.2235	43.0435	-0.435805	0.622115	0.53387	0.999883
gene716	gene716	SACOL0722	gi 57650036 ref NC_002951.2 :746336-747344	MR150	M36C05	OK	71.2597	37.2579	-0.935541	1.25082	0.211	0.889865
gene717	gene717	SACOL0723	gi 57650036 ref NC_002951.2 :747931-748729	MR150	M36C05	OK	1697.49	2444.98	0.526414	-0.540514	0.58884	0.999883
gene718	gene718	SACOL0724	gi 57650036 ref NC_002951.2 :749089-749734	MR150	M36C05	OK	31.6468	22.3217	-0.503614	0.737243	0.46098	0.999883
gene719	gene719	SACOL0725	gi 57650036 ref NC_002951.2 :750430-752581	MR150	M36C05	OK	6.98745	4.91426	-0.507794	0.743888	0.45694	0.999883
gene72	gene72	SACOL0075	gi 57650036 ref NC_002951.2 :83421-84024	MR150	M36C05	OK	20.5093	10.9568	-0.904456	1.31594	0.18819	0.84541
gene720	gene720	sarX	gi 57650036 ref NC_002951.2 :752660-753086	MR150	M36C05	OK	22.9539	10.7269	-1.09751	1.54487	0.12238	0.695722
gene721	gene721	SACOL0727	gi 57650036 ref NC_002951.2 :753275-754465	MR150	M36C05	OK	61.8883	56.9833	-0.119128	0.135136	0.8925	0.999883
gene722	gene722	SACOL0728	gi 57650036 ref NC_002951.2 :753275-754465	MR150	M36C05	OK	50.7799	35.8585	-0.501944	0.351124	0.7255	0.999883

gene723	gene723	SACOL0730	gi 57650036 ref NC_002951.2 :754817-755462	MR150	M36C05	OK	40.5904	72.6694	0.840208	-1.18224	0.23711	0.906613
gene724	gene724	SACOL0731	gi 57650036 ref NC_002951.2 :755577-756444	MR150	M36C05	OK	42.9279	60.6882	0.4995	-0.682179	0.49513	0.999883
gene725	gene725	SACOL0733	gi 57650036 ref NC_002951.2 :756782-758488	MR150	M36C05	OK	24.8996	12.0938	-1.04185	1.19418	0.23241	0.902162
gene726	gene726	SACOL0734	gi 57650036 ref NC_002951.2 :756782-758488	MR150	M36C05	OK	51.3337	14.9003	-1.78456	1.37848	0.16805	0.807039
gene727	gene727	SACOL0735	gi 57650036 ref NC_002951.2 :758586-759276	MR150	M36C05	OK	17.4955	16.4397	-0.0898043	0.13204	0.89495	0.999883
gene728	gene728	SACOL0736	gi 57650036 ref NC_002951.2 :759402-759846	MR150	M36C05	OK	0	1.80831	1.79769e+30	1.79769e+30	0.02434	0.296308
gene729	gene729	SACOL0737	gi 57650036 ref NC_002951.2 :759912-760308	MR150	M36C05	OK	17.0633	21.288	0.319145	-0.454386	0.64955	0.999883
gene73	gene73	SACOL0076	gi 57650036 ref NC_002951.2 :84290-87443	MR150	M36C05	OK	10.738	10.6344	-0.0139835	0.01926	0.98463	0.999883
gene730	gene730	SACOL0738	gi 57650036 ref NC_002951.2 :760445-760745	MR150	M36C05	OK	55.1378	222.143	2.01037	-2.88876	0.00387	0.0917722
gene731	gene731	SACOL0739	gi 57650036 ref NC_002951.2 :760824-761367	MR150	M36C05	OK	6.69194	14.808	1.14589	-1.60658	0.10815	0.653986
gene732	gene732	SACOL0740	gi 57650036 ref NC_002951.2 :761462-762029	MR150	M36C05	OK	10.8421	38.8079	1.8397	-2.65649	0.0079	0.14471
gene733	gene733	SACOL0741	gi 57650036 ref NC_002951.2 :762030-762489	MR150	M36C05	OK	8.2614	23.8622	1.53027	-2.14323	0.03209	0.3441
gene734	gene734	SACOL0742	gi 57650036 ref NC_002951.2 :762491-763175	MR150	M36C05	OK	18.6611	170.086	3.18816	-4.27873	1.88E-05	0.001362
gene735	gene735	uppP	gi 57650036 ref NC_002951.2 :763346-764222	MR150	M36C05	OK	25.5952	14.1948	-0.850513	1.23986	0.21503	0.89416
gene736	gene736	SACOL0744	gi 57650036 ref NC_002951.2 :764440-767742	MR150	M36C05	OK	18.9315	56.0342	1.56552	-1.3906	0.16435	0.794505
gene737	gene737	SACOL0745	gi 57650036 ref NC_002951.2 :764440-767742	MR150	M36C05	OK	23.1722	33.4995	0.531747	-0.435452	0.66323	0.999883
gene738	gene738	norR	gi 57650036 ref NC_002951.2 :767868-768312	MR150	M36C05	OK	740.567	763.56	0.0441112	-0.049951	0.96016	0.999883
gene739	gene739	SACOL0747	gi 57650036 ref NC_002951.2 :768538-769465	MR150	M36C05	OK	12.8481	15.9284	0.310045	-0.455254	0.64893	0.999883
gene74	gene74	SACOL0077	gi 57650036 ref NC_002951.2 :87499-87982	MR150	M36C05	OK	29.7207	24.9688	-0.251343	0.3692	0.71198	0.999883
gene740	gene740	SACOL0748	gi 57650036 ref NC_002951.2 :769567-770476	MR150	M36C05	OK	46.2175	49.4666	0.0980156	-0.133988	0.89341	0.999883
gene741	gene741	SACOL0749	gi 57650036 ref NC_002951.2 :770510-770798	MR150	M36C05	OK	92.1493	65.1883	-0.499359	0.732658	0.46377	0.999883
gene742	gene742	SACOL0750	gi 57650036 ref NC_002951.2 :771080-772634	MR150	M36C05	OK	19.4562	31.1789	0.680335	-0.930627	0.35205	0.999883
gene743	gene743	SACOL0751	gi 57650036 ref NC_002951.2 :772719-774093	MR150	M36C05	OK	27.787	40.2821	0.535726	-0.721032	0.47089	0.999883
gene744	gene744	SACOL0752	gi 57650036 ref NC_002951.2 :774528-775146	MR150	M36C05	OK	34.7876	100.347	1.52835	-2.12879	0.03327	0.349475
gene745	gene745	SACOL0753	gi 57650036 ref NC_002951.2 :775331-775754	MR150	M36C05	OK	79.3473	137.834	0.79668	-1.12443	0.26083	0.940988
gene746	gene746	norA	gi 57650036 ref NC_002951.2 :775962-777129	MR150	M36C05	OK	20.7465	50.5089	1.28367	-1.7606	0.07831	0.55661
gene747	gene747	SACOL0755	gi 57650036 ref NC_002951.2 :777421-777874	MR150	M36C05	OK	1934.51	2494.29	0.366656	-0.378228	0.70526	0.999883
gene748	gene748	SACOL0756	gi 57650036 ref NC_002951.2 :778047-778530	MR150	M36C05	OK	7.56527	10.1436	0.423102	-0.578842	0.5627	0.999883
gene749	gene749	SACOL0757	gi 57650036 ref NC_002951.2 :778779-780461	MR150	M36C05	OK	1.08391	4.68628	2.1122	-1.70154	0.08884	0.597944
gene75	gene75	plc	gi 57650036 ref NC_002951.2 :88186-89173	MR150	M36C05	OK	0.7783	1.40121	0.848278	-0.953056	0.34056	0.999883
gene750	gene750	fruK	gi 57650036 ref NC_002951.2 :778779-780461	MR150	M36C05	OK	1.91139	5.65964	1.56609	-1.75986	0.07843	0.55661
gene751	gene751	SACOL0759	gi 57650036 ref NC_002951.2 :780466-782424	MR150	M36C05	OK	6.70886	8.65121	0.366834	-0.535495	0.59231	0.999883
gene752	gene752	nagA	gi 57650036 ref NC_002951.2 :782731-783913	MR150	M36C05	OK	14.6595	11.3395	-0.370478	0.5417	0.58803	0.999883

gene753	gene753	SACOL0762	gi 57650036 ref NC_002951.2 :784133-785483	MR150	M36C05	OK	139.836	257.956	0.883387	-0.982774	0.32572	0.999883
gene754	gene754	SACOL0763	gi 57650036 ref NC_002951.2 :785704-786544	MR150	M36C05	OK	26.7949	99.4452	1.89194	-2.56502	0.01032	0.171267
gene755	gene755	SACOL0764	gi 57650036 ref NC_002951.2 :786675-787659	MR150	M36C05	OK	49.6111	172.447	1.79742	-2.24627	0.02469	0.298259
gene756	gene756	saeS	gi 57650036 ref NC_002951.2 :787730-789920	MR150	M36C05	OK	128.985	237.277	0.879369	-0.669956	0.50289	0.999883
gene757	gene757	saeR	gi 57650036 ref NC_002951.2 :787730-789920	MR150	M36C05	OK	146.484	321.759	1.13524	-0.728617	0.46624	0.999883
gene758	gene758	SACOL0767	gi 57650036 ref NC_002951.2 :787730-789920	MR150	M36C05	OK	109.93	233.684	1.08797	-0.450027	0.65269	0.999883
gene759	gene759	SACOL0768	gi 57650036 ref NC_002951.2 :790261-790702	MR150	M36C05	OK	257.284	368.861	0.519716	-0.652893	0.51383	0.999883
gene76	gene76	SACOL0079	gi 57650036 ref NC_002951.2 :89393-90164	MR150	M36C05	OK	0.53626	1.35245	1.33456	-1.28263	0.19962	0.867146
gene760	gene760	SACOL0769	gi 57650036 ref NC_002951.2 :790981-791566	MR150	M36C05	OK	73.1468	28.3881	-1.36551	1.95143	0.05101	0.444597
gene761	gene761	SACOL0770	gi 57650036 ref NC_002951.2 :791664-792378	MR150	M36C05	OK	41.9959	24.0429	-0.804641	1.16259	0.245	0.919152
gene762	gene762	SACOL0771	gi 57650036 ref NC_002951.2 :792381-792801	MR150	M36C05	OK	32.579	10.5134	-1.63172	2.30111	0.02139	0.273585
gene763	gene763	SACOL0772	gi 57650036 ref NC_002951.2 :792802-793471	MR150	M36C05	OK	32.9662	7.0591	-2.22343	3.18165	0.00146	0.0454837
gene764	gene764	pabA	gi 57650036 ref NC_002951.2 :793821-796158	MR150	M36C05	OK	4.27314	2.52169	-0.760907	0.426072	0.67006	0.999883
gene765	gene765	SACOL0774	gi 57650036 ref NC_002951.2 :793821-796158	MR150	M36C05	OK	6.18559	3.74451	-0.724134	0.980708	0.32674	0.999883
gene766	gene766	SACOL0776	gi 57650036 ref NC_002951.2 :796517-798216	MR150	M36C05	OK	10.4857	12.3081	0.231183	-0.189198	0.84994	0.999883
gene767	gene767	SACOL0777	gi 57650036 ref NC_002951.2 :796517-798216	MR150	M36C05	OK	18.2617	11.3697	-0.683624	0.799348	0.42409	0.999883
gene768	gene768	SACOL0778	gi 57650036 ref NC_002951.2 :798689-800630	MR150	M36C05	OK	333.263	143.127	-1.21937	1.29487	0.19537	0.857922
gene769	gene769	SACOL0779	gi 57650036 ref NC_002951.2 :800906-802784	MR150	M36C05	OK	40.5288	36.978	-0.13228	0.168937	0.86585	0.999883
gene77	gene77	SACOL0080	gi 57650036 ref NC_002951.2 :90215-90986	MR150	M36C05	NOTEST	0.80439	0.57962	-0.472791	0.439282	0.66046	1
gene770	gene770	recQ1	gi 57650036 ref NC_002951.2 :802795-804577	MR150	M36C05	OK	55.0899	43.9606	-0.325579	0.406967	0.68403	0.999883
gene771	gene771	SACOL0781	gi 57650036 ref NC_002951.2 :804798-807283	MR150	M36C05	OK	24.0126	104.182	2.11724	-1.56264	0.11814	0.68227
gene772	gene772	opuBB	gi 57650036 ref NC_002951.2 :804798-807283	MR150	M36C05	OK	26.9049	91.0316	1.7585	-1.66476	0.09596	0.622731
gene773	gene773	hisC	gi 57650036 ref NC_002951.2 :807522-808581	MR150	M36C05	OK	9.27021	47.8801	2.36875	-3.31679	0.00091	0.0323038
gene774	gene774	SACOL0785	gi 57650036 ref NC_002951.2 :808931-809474	MR150	M36C05	OK	35.2442	61.4856	0.802862	-1.16145	0.24546	0.919205
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	MR150	M36C05	OK	75.521	560.512	2.89179	-3.62253	0.00029	0.0131134
gene776	gene776	SACOL0787	gi 57650036 ref NC_002951.2 :810153-811071	MR150	M36C05	OK	30.9233	320.723	3.37456	-4.1698	3.05E-05	0.0020429
gene777	gene777	SACOL0788	gi 57650036 ref NC_002951.2 :811340-812846	MR150	M36C05	OK	152.691	56.7174	-1.42875	1.6925	0.09055	0.603975
gene778	gene778	SACOL0789	gi 57650036 ref NC_002951.2 :813186-813687	MR150	M36C05	OK	39.1312	12.106	-1.6926	2.44214	0.0146	0.20965
gene779	gene779	SACOL0790	gi 57650036 ref NC_002951.2 :813706-814573	MR150	M36C05	OK	30.7612	10.5832	-1.53933	2.23076	0.0257	0.304771
gene78	gene78	SACOL0081	gi 57650036 ref NC_002951.2 :91049-91214	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene780	gene780	SACOL0790.1	gi 57650036 ref NC_002951.2 :814957-815224	MR150	M36C05	OK	358.806	162.198	-1.14545	1.63128	0.10283	0.643766
gene781	gene781	nrdI	gi 57650036 ref NC_002951.2 :815373-817840	MR150	M36C05	OK	727.613	636.509	-0.19299	0.070563	0.94375	0.999883
gene782	gene782	nrdE	gi 57650036 ref NC_002951.2 :815373-817840	MR150	M36C05	OK	605.703	384.04	-0.657355	0.627198	0.53053	0.999883

gene783	gene783	nrdF	gi 57650036 ref NC_002951.2 :817957-818929	MR150	M36C05	OK	1092.53	284.551	-1.94092	2.06353	0.03906	0.38357
gene784	gene784	SACOL0794	gi 57650036 ref NC_002951.2 :819061-819166	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene785	gene785	SACOL0796	gi 57650036 ref NC_002951.2 :819636-822309	MR150	M36C05	OK	1.58683	1.28562	-0.303681	0.265278	0.7908	0.999883
gene786	gene786	SACOL0797	gi 57650036 ref NC_002951.2 :819636-822309	MR150	M36C05	OK	1.21369	1.74817	0.52644	-0.464987	0.64194	0.999883
gene787	gene787	SACOL0798	gi 57650036 ref NC_002951.2 :819636-822309	MR150	M36C05	NOTEST	0.54484	0.98153	0.849187	-0.446907	0.65494	1
gene788	gene788	SACOL0799	gi 57650036 ref NC_002951.2 :822427-823456	MR150	M36C05	OK	2.95555	3.19236	0.111197	-0.152778	0.87857	0.999883
gene789	gene789	SACOL0800	gi 57650036 ref NC_002951.2 :823772-824087	MR150	M36C05	OK	10.0812	13.6461	0.436831	-0.551865	0.58104	0.999883
gene79	gene79	SACOL0082	gi 57650036 ref NC_002951.2 :91226-91823	MR150	M36C05	NOTEST	0	0.55613	1.79769e+30	1.79769e+30	0.06916	1
gene790	gene790	murB	gi 57650036 ref NC_002951.2 :824104-825028	MR150	M36C05	OK	23.4762	21.6307	-0.118121	0.171225	0.86405	0.999883
gene791	gene791	SACOL0802	gi 57650036 ref NC_002951.2 :825154-825673	MR150	M36C05	OK	13.4291	13.846	0.0441116	-0.06347	0.94939	0.999883
gene792	gene792	SACOL0803	gi 57650036 ref NC_002951.2 :825792-826671	MR150	M36C05	OK	19.6191	13.9696	-0.489968	0.718063	0.47272	0.999883
gene793	gene793	SACOL0804	gi 57650036 ref NC_002951.2 :826824-827145	MR150	M36C05	OK	76.034	232.721	1.61388	-2.30284	0.02129	0.273297
gene794	gene794	SACOL0805	gi 57650036 ref NC_002951.2 :827569-828694	MR150	M36C05	OK	43.7074	45.5334	0.059046	-0.079063	0.93698	0.999883
gene795	gene795	pepT	gi 57650036 ref NC_002951.2 :828882-830109	MR150	M36C05	OK	92.157	100.157	0.12009	-0.145912	0.88399	0.999883
gene796	gene796	SACOL0807	gi 57650036 ref NC_002951.2 :830122-830617	MR150	M36C05	OK	17.6288	12.7263	-0.470124	0.676205	0.49891	0.999883
gene797	gene797	SACOL0808	gi 57650036 ref NC_002951.2 :830634-831396	MR150	M36C05	OK	8.7175	8.83375	0.0191119	-0.027693	0.97791	0.999883
gene798	gene798	SACOL0809	gi 57650036 ref NC_002951.2 :831591-832662	MR150	M36C05	OK	25.3178	22.0275	-0.20085	0.287414	0.7738	0.999883
gene799	gene799	SACOL0810	gi 57650036 ref NC_002951.2 :832979-834035	MR150	M36C05	OK	17.7109	11.3357	-0.643758	0.941186	0.34661	0.999883
gene8	gene8	serS	gi 57650036 ref NC_002951.2 :12812-14099	MR150	M36C05	OK	42.2679	57.0988	0.433896	-0.565662	0.57162	0.999883
gene80	gene80	SACOL0083	gi 57650036 ref NC_002951.2 :91889-92657	MR150	M36C05	NOTEST	0.26955	0.38846	0.527225	-0.346877	0.72868	1
gene800	gene800	SACOL0811	gi 57650036 ref NC_002951.2 :834204-834846	MR150	M36C05	OK	92.121	93.8891	0.0274282	-0.036742	0.97069	0.999883
gene801	gene801	SACOL0812	gi 57650036 ref NC_002951.2 :834989-835856	MR150	M36C05	OK	103.303	45.9709	-1.16808	1.5435	0.12271	0.695963
gene802	gene802	SACOL0813	gi 57650036 ref NC_002951.2 :836219-837969	MR150	M36C05	OK	1.38744	2.49745	0.848031	-0.872464	0.38296	0.999883
gene803	gene803	SACOL0814	gi 57650036 ref NC_002951.2 :836219-837969	MR150	M36C05	OK	2.57823	2.78791	0.112804	-0.102353	0.91848	0.999883
gene804	gene804	SACOL0815	gi 57650036 ref NC_002951.2 :838029-838602	MR150	M36C05	OK	949.863	1142.22	0.266055	-0.280387	0.77918	0.999883
gene805	gene805	secA	gi 57650036 ref NC_002951.2 :839015-841547	MR150	M36C05	OK	140.765	81.2764	-0.792377	0.869886	0.38436	0.999883
gene806	gene806	SACOL0817	gi 57650036 ref NC_002951.2 :841588-841693	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene807	gene807	prfB	gi 57650036 ref NC_002951.2 :841861-842972	MR150	M36C05	OK	44.2107	27.9581	-0.661129	0.908029	0.36386	0.999883
gene808	gene808	SACOL0819	gi 57650036 ref NC_002951.2 :843125-843233	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene809	gene809	SACOL0820	gi 57650036 ref NC_002951.2 :843380-844220	MR150	M36C05	OK	4.06708	8.78978	1.11183	-1.57417	0.11545	0.671711
gene81	gene81	SACOL0084	gi 57650036 ref NC_002951.2 :92789-94988	MR150	M36C05	OK	14.4057	20.563	0.513417	-0.700393	0.48368	0.999883
gene810	gene810	SACOL0821	gi 57650036 ref NC_002951.2 :844393-845277	MR150	M36C05	OK	17.3101	20.5559	0.247934	-0.344854	0.7302	0.999883
gene811	gene811	SACOL0822	gi 57650036 ref NC_002951.2 :844393-845277	MR150	M36C05	OK	18.7853	15.3695	-0.289531	0.135011	0.8926	0.999883

gene812	gene812	uvrB	gi 57650036 ref NC_002951.2 :845539-847531	MR150	M36C05	OK	64.9612	55.6574	-0.223005	0.26808	0.78864	0.999883
gene813	gene813	uvrA	gi 57650036 ref NC_002951.2 :847538-850385	MR150	M36C05	OK	70.4279	43.0439	-0.710338	0.824765	0.40951	0.999883
gene814	gene814	hprK	gi 57650036 ref NC_002951.2 :850991-851924	MR150	M36C05	OK	61.835	118.71	0.940945	-1.20209	0.22933	0.898537
gene815	gene815	lgt	gi 57650036 ref NC_002951.2 :851929-852769	MR150	M36C05	OK	43.3025	60.8391	0.49055	-0.672414	0.50132	0.999883
gene816	gene816	SACOL0827	gi 57650036 ref NC_002951.2 :852776-853262	MR150	M36C05	OK	35.8274	38.6057	0.10775	-0.158225	0.87428	0.999883
gene817	gene817	SACOL0828	gi 57650036 ref NC_002951.2 :853269-854709	MR150	M36C05	OK	41.6242	20.8906	-0.994567	1.34711	0.17794	0.821737
gene818	gene818	trxB	gi 57650036 ref NC_002951.2 :854775-855711	MR150	M36C05	OK	259.647	562.957	1.11647	-1.21231	0.22539	0.89446
gene819	gene819	SACOL0830	gi 57650036 ref NC_002951.2 :856420-858324	MR150	M36C05	OK	38.7108	79.6181	1.04036	-0.636901	0.52419	0.999883
gene82	gene82	SACOL0085	gi 57650036 ref NC_002951.2 :95138-96317	MR150	M36C05	OK	3.59789	9.79766	1.44529	-2.08578	0.037	0.369812
gene820	gene820	SACOL0831	gi 57650036 ref NC_002951.2 :856420-858324	MR150	M36C05	OK	48.6712	256.844	2.39976	-2.32924	0.01985	0.260196
gene821	gene821	SACOL0832	gi 57650036 ref NC_002951.2 :858433-859378	MR150	M36C05	OK	55.0844	225.301	2.03214	-2.49923	0.01245	0.191645
gene823	gene823	clpP	gi 57650036 ref NC_002951.2 :859950-860538	MR150	M36C05	OK	560.932	633.075	0.17455	-0.193108	0.84687	0.999883
gene824	gene824	SACOL0834	gi 57650036 ref NC_002951.2 :860780-861683	MR150	M36C05	OK	19.3853	112.016	2.53067	-3.3962	0.00068	0.0257547
gene825	gene825	SACOL0835	gi 57650036 ref NC_002951.2 :862386-863016	MR150	M36C05	OK	26.6982	221.264	3.05096	-4.04803	5.17E-05	0.0033079
gene826	gene826	SACOL0836	gi 57650036 ref NC_002951.2 :863204-863351	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene827	gene827	gapR	gi 57650036 ref NC_002951.2 :863775-864789	MR150	M36C05	OK	70.9228	359.669	2.34235	-2.74848	0.00599	0.120361
gene828	gene828	gapA1	gi 57650036 ref NC_002951.2 :864841-865852	MR150	M36C05	OK	246.598	1562.03	2.66318	-2.85104	0.00436	0.0979401
gene829	gene829	pgk	gi 57650036 ref NC_002951.2 :865990-867181	MR150	M36C05	OK	57.9512	317.513	2.45391	-2.86826	0.00413	0.0948257
gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	MR150	M36C05	OK	2.83383	8.34409	1.558	-2.24387	0.02484	0.299551
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	MR150	M36C05	OK	87.175	403.604	2.21096	-2.65099	0.00803	0.144841
gene831	gene831	pgm	gi 57650036 ref NC_002951.2 :868066-869584	MR150	M36C05	OK	69.0267	292.043	2.08095	-2.35327	0.01861	0.247561
gene832	gene832	eno	gi 57650036 ref NC_002951.2 :869713-871018	MR150	M36C05	OK	276.366	425.4	0.622239	-0.658137	0.51045	0.999883
gene833	gene833	SACOL0843	gi 57650036 ref NC_002951.2 :871357-871816	MR150	M36C05	OK	45.4377	46.0199	0.0183686	-0.026919	0.97852	0.999883
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	MR150	M36C05	OK	1372.25	436.036	-1.65403	2.19619	0.02808	0.31701
gene835	gene835	est	gi 57650036 ref NC_002951.2 :872231-872972	MR150	M36C05	OK	31.4118	31.8143	0.0183686	-0.026571	0.9788	0.999883
gene836	gene836	SACOL0846	gi 57650036 ref NC_002951.2 :873005-875378	MR150	M36C05	OK	66.0503	91.8913	0.476364	-0.544103	0.58637	0.999883
gene837	gene837	smpB	gi 57650036 ref NC_002951.2 :875399-875864	MR150	M36C05	OK	99.7936	119.125	0.255456	-0.354923	0.72265	0.999883
gene838	gene838	SACOL_Satml	gi 57650036 ref NC_002951.2 :875954-876313	MR150	M36C05	OK	199870	193158	-0.0492809	0.081954	0.93468	0.999883
gene839	gene839	SACOL0848	gi 57650036 ref NC_002951.2 :876637-876919	MR150	M36C05	OK	8.23173	13.0235	0.661847	-0.772864	0.4396	0.999883
gene84	gene84	SACOL0087	gi 57650036 ref NC_002951.2 :97874-97982	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene840	gene840	SACOL0849	gi 57650036 ref NC_002951.2 :877185-877509	MR150	M36C05	OK	36.6343	26.4605	-0.469357	0.671071	0.50218	0.999883
gene841	gene841	SACOL0850	gi 57650036 ref NC_002951.2 :877524-877671	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene842	gene842	SACOL0851	gi 57650036 ref NC_002951.2 :877862-878591	MR150	M36C05	OK	1.73642	4.38	1.33481	-1.66669	0.09558	0.621457

gene843	gene843	SACOL0853	gi 57650036 ref NC_002951.2 :879026-879182	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	MR150	M36C05	OK	0	5.82971	1.79769e+30	1.79769e+30	0.00351	0.0851932
gene845	gene845	SACOL0855	gi 57650036 ref NC_002951.2 :879849-880380	MR150	M36C05	OK	1.3868	8.00628	2.52937	-2.85334	0.00433	0.0975363
gene846	gene846	clfA	gi 57650036 ref NC_002951.2 :880642-883444	MR150	M36C05	OK	94.6643	1037.04	3.4535	-3.74127	0.00018	0.0093974
gene847	gene847	SACOL0857	gi 57650036 ref NC_002951.2 :883664-885191	MR150	M36C05	NOTEST	0.80793	0.99677	0.303034	-0.37094	0.71068	1
gene848	gene848	empbp	gi 57650036 ref NC_002951.2 :885541-886564	MR150	M36C05	OK	2.60495	2.54573	-0.0331768	0.044586	0.96444	0.999883
gene849	gene849	SACOL0859	gi 57650036 ref NC_002951.2 :886898-887369	MR150	M36C05	OK	1.69247	1.22203	-0.469851	0.43655	0.66244	0.999883
gene85	gene85	SACOL0088	gi 57650036 ref NC_002951.2 :98199-99861	MR150	M36C05	OK	92.7158	188.55	1.02406	-1.15367	0.24864	0.922459
gene850	gene850	nuc	gi 57650036 ref NC_002951.2 :887709-888396	MR150	M36C05	OK	10.6877	5.89137	-0.859275	1.22109	0.22205	0.89416
gene851	gene851	SACOL0861	gi 57650036 ref NC_002951.2 :888752-888953	MR150	M36C05	OK	15928.5	6839.93	-1.21955	1.30852	0.1907	0.851366
gene852	gene852	SACOL0862	gi 57650036 ref NC_002951.2 :889448-889667	MR150	M36C05	OK	27.9931	72.5393	1.37369	-1.80009	0.07185	0.526806
gene853	gene853	SACOL0863	gi 57650036 ref NC_002951.2 :889728-890013	MR150	M36C05	OK	9.61861	31.1372	1.69474	-2.14027	0.03233	0.344846
gene854	gene854	SACOL0864	gi 57650036 ref NC_002951.2 :890100-890670	MR150	M36C05	OK	4.96355	0.89518	-2.47112	2.57207	0.01011	0.16896
gene855	gene855	SACOL0865	gi 57650036 ref NC_002951.2 :891074-891335	MR150	M36C05	OK	18.1772	39.128	1.10607	-1.4625	0.14361	0.743774
gene856	gene856	SACOL0866	gi 57650036 ref NC_002951.2 :891639-891744	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene857	gene857	SACOL0868	gi 57650036 ref NC_002951.2 :891875-892112	MR150	M36C05	OK	34.887	528.328	3.92067	-5.3216	1.03E-07	1.71E-05
gene858	gene858	SACOL0869	gi 57650036 ref NC_002951.2 :892327-892918	MR150	M36C05	OK	6.26311	9.03492	0.528633	-0.735979	0.46174	0.999883
gene859	gene859	SACOL0870	gi 57650036 ref NC_002951.2 :892990-893608	MR150	M36C05	OK	37.3509	59.68	0.676103	-0.967183	0.33345	0.999883
gene86	gene86	SACOL0089	gi 57650036 ref NC_002951.2 :100186-101962	MR150	M36C05	OK	2.52687	22.4486	3.1512	-4.39429	1.11E-05	0.0008765
gene860	gene860	SACOL0871	gi 57650036 ref NC_002951.2 :893762-894257	MR150	M36C05	OK	17.1103	96.1957	2.49111	-3.53938	0.0004	0.0168752
gene861	gene861	SACOL0872	gi 57650036 ref NC_002951.2 :894655-895078	MR150	M36C05	OK	12.9965	189.707	3.86757	-5.27392	1.34E-07	2.15E-05
gene862	gene862	aroD	gi 57650036 ref NC_002951.2 :895225-895942	MR150	M36C05	OK	9.77184	11.3113	0.211062	-0.307137	0.75874	0.999883
gene863	gene863	SACOL0874	gi 57650036 ref NC_002951.2 :896024-896564	MR150	M36C05	OK	29.7038	40.5947	0.450644	-0.659899	0.50932	0.999883
gene864	gene864	SACOL0875	gi 57650036 ref NC_002951.2 :896713-897034	MR150	M36C05	OK	160.516	210.93	0.394048	-0.558094	0.57678	0.999883
gene865	gene865	SACOL0876	gi 57650036 ref NC_002951.2 :897177-897534	MR150	M36C05	OK	85.1516	81.5563	-0.0622371	0.090918	0.92756	0.999883
gene866	gene866	gcvH	gi 57650036 ref NC_002951.2 :897691-898072	MR150	M36C05	OK	621.98	888.853	0.515077	-0.602742	0.54668	0.999883
gene867	gene867	SACOL0879	gi 57650036 ref NC_002951.2 :898250-899129	MR150	M36C05	OK	67.8774	18.3554	-1.88673	2.6199	0.0088	0.154274
gene868	gene868	SACOL0880	gi 57650036 ref NC_002951.2 :899870-900546	MR150	M36C05	OK	39.7614	27.5473	-0.529458	0.601359	0.5476	0.999883
gene869	gene869	SACOL0881	gi 57650036 ref NC_002951.2 :899870-900546	MR150	M36C05	OK	47.8012	32.3512	-0.56323	0.522376	0.60141	0.999883
gene87	gene87	SACOL0090	gi 57650036 ref NC_002951.2 :102135-103008	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene870	gene870	SACOL0882	gi 57650036 ref NC_002951.2 :900795-902509	MR150	M36C05	OK	10.7528	20.0248	0.89708	-1.06528	0.28675	0.975155
gene871	gene871	SACOL0883	gi 57650036 ref NC_002951.2 :900795-902509	MR150	M36C05	OK	8.95068	14.4607	0.692069	-0.559754	0.57565	0.999883
gene872	gene872	SACOL0884	gi 57650036 ref NC_002951.2 :902526-903348	MR150	M36C05	OK	24.3698	39.9022	0.711377	-1.01845	0.30846	0.991033

gene873	gene873	SACOL0885	gi 57650036 ref NC_002951.2 :903490-904711	MR150	M36C05	OK	3.29994	1.40374	-1.23316	1.64482	0.10001	0.638047
gene874	gene874	sek	gi 57650036 ref NC_002951.2 :904799-905528	MR150	M36C05	OK	25.4675	6.46572	-1.97778	2.84111	0.0045	0.0988909
gene875	gene875	sei	gi 57650036 ref NC_002951.2 :905551-906280	MR150	M36C05	OK	15.3384	7.09143	-1.113	1.61016	0.10736	0.653986
gene876	gene876	SACOL0888	gi 57650036 ref NC_002951.2 :906349-906781	MR150	M36C05	OK	25.0017	13.7799	-0.859462	1.23064	0.21846	0.89416
gene877	gene877	SACOL0889	gi 57650036 ref NC_002951.2 :906797-907256	MR150	M36C05	OK	12.9822	12.7833	-0.0222734	0.031432	0.97493	0.999883
gene878	gene878	SACOL0890	gi 57650036 ref NC_002951.2 :907267-907600	MR150	M36C05	OK	17.7863	36.138	1.02275	-1.43904	0.15014	0.752771
gene879	gene879	SACOL0891	gi 57650036 ref NC_002951.2 :907792-908321	MR150	M36C05	OK	3.91478	12.644	1.69145	-1.48533	0.13746	0.733066
gene88	gene88	SACOL0091	gi 57650036 ref NC_002951.2 :103120-104518	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene880	gene880	SACOL0892	gi 57650036 ref NC_002951.2 :907792-908321	MR150	M36C05	OK	0	2.57159	1.79769e+30	1.79769e+30	0.16297	0.791011
gene881	gene881	SACOL0893	gi 57650036 ref NC_002951.2 :908332-908681	MR150	M36C05	OK	0	21.2822	1.79769e+30	1.79769e+30	0.2187	0.89416
gene882	gene882	SACOL0894	gi 57650036 ref NC_002951.2 :908332-908681	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene883	gene883	SACOL0895	gi 57650036 ref NC_002951.2 :908683-909004	MR150	M36C05	NOTEST	0	0.87161	1.79769e+30	1.79769e+30	0.14732	1
gene884	gene884	SACOL0896	gi 57650036 ref NC_002951.2 :909067-909937	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene885	gene885	SACOL0897	gi 57650036 ref NC_002951.2 :909953-911411	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene886	gene886	SACOL0898	gi 57650036 ref NC_002951.2 :911711-912074	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene887	gene887	SACOL0899	gi 57650036 ref NC_002951.2 :912075-912998	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene888	gene888	SACOL0900	gi 57650036 ref NC_002951.2 :912075-912998	MR150	M36C05	OK	3.11687	3.99528	0.358197	-0.455514	0.64874	0.999883
gene889	gene889	SACOL0901	gi 57650036 ref NC_002951.2 :913514-913856	MR150	M36C05	OK	54.527	18.9386	-1.52564	2.17553	0.02959	0.327061
gene89	gene89	SACOL0092	gi 57650036 ref NC_002951.2 :104707-105181	MR150	M36C05	OK	3.90615	53.1833	3.76716	-4.93468	8.03E-07	0.0001002
gene890	gene890	SACOL0902	gi 57650036 ref NC_002951.2 :913867-914446	MR150	M36C05	OK	52.4968	29.7122	-0.821174	1.19118	0.23358	0.902568
gene891	gene891	SACOL0903	gi 57650036 ref NC_002951.2 :914463-914682	MR150	M36C05	OK	230.943	137.575	-0.747324	1.09518	0.27344	0.958757
gene892	gene892	SACOL0904	gi 57650036 ref NC_002951.2 :914732-915260	MR150	M36C05	OK	11.6621	5.72302	-1.02698	1.40806	0.15911	0.779092
gene893	gene893	SACOL0905	gi 57650036 ref NC_002951.2 :915262-916170	MR150	M36C05	OK	20.9719	7.57543	-1.46906	1.2017	0.22948	0.898537
gene894	gene894	SACOL0906	gi 57650036 ref NC_002951.2 :915262-916170	MR150	M36C05	OK	14.8907	7.16144	-1.05609	1.25292	0.21024	0.888711
gene895	gene895	seb	gi 57650036 ref NC_002951.2 :916477-917278	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene896	gene896	SACOL0908	gi 57650036 ref NC_002951.2 :917355-917913	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene897	gene897	SACOL0909	gi 57650036 ref NC_002951.2 :918285-918438	MR150	M36C05	OK	68.366	204.749	1.58251	-1.73222	0.08323	0.574119
gene898	gene898	SACOL0910	gi 57650036 ref NC_002951.2 :918508-918806	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene899	gene899	SACOL0911	gi 57650036 ref NC_002951.2 :918508-918806	MR150	M36C05	OK	63.6356	83.8398	0.397802	-0.537053	0.59123	0.999883
gene9	gene9	SACOL0010	gi 57650036 ref NC_002951.2 :14748-15770	MR150	M36C05	OK	10.8025	8.89889	-0.279673	0.345076	0.73004	0.999883
gene90	gene90	SACOL0093	gi 57650036 ref NC_002951.2 :105442-107035	MR150	M36C05	OK	41.1219	31.6506	-0.377676	0.495594	0.62018	0.999883
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	MR150	M36C05	OK	2511.29	58362.5	4.53854	-5.15054	2.60E-07	3.92E-05
gene901	gene901	SACOL0913	gi 57650036 ref NC_002951.2 :920063-920915	MR150	M36C05	OK	57.3008	121.635	1.08593	-1.40864	0.15894	0.778782

gene902	gene902	SACOL0914	gi 57650036 ref NC_002951.2 :921242-922004	MR150	M36C05	OK	184.702	353.546	0.9367	-1.08954	0.27592	0.961224
gene903	gene903	sufD	gi 57650036 ref NC_002951.2 :922101-923409	MR150	M36C05	OK	169.6	252.32	0.573112	-0.634535	0.52573	0.999883
gene904	gene904	SACOL0916	gi 57650036 ref NC_002951.2 :923523-925219	MR150	M36C05	OK	174.754	207.478	0.247635	-0.247208	0.80475	0.999883
gene905	gene905	SACOL0917	gi 57650036 ref NC_002951.2 :923523-925219	MR150	M36C05	OK	164.4	159.944	-0.039643	0.018378	0.98534	0.999883
gene906	gene906	sufB	gi 57650036 ref NC_002951.2 :925369-926767	MR150	M36C05	OK	204.804	215.775	0.075285	-0.082589	0.93418	0.999883
gene907	gene907	SACOL0919	gi 57650036 ref NC_002951.2 :926953-927091	MR150	M36C05	OK	54.4986	0	-1.79769e+3(-1.79769e+0.10824		0.653986	
gene908	gene908	SACOL0920	gi 57650036 ref NC_002951.2 :927096-927411	MR150	M36C05	OK	3.78043	0	-1.79769e+3(-1.79769e+0.02304		0.288469	
gene909	gene909	SACOL0921	gi 57650036 ref NC_002951.2 :927775-928816	MR150	M36C05	OK	13.2924	62.1485	2.22512	-3.07224	0.00212	0.060061
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	MR150	M36C05	OK	123.267	9.22015	-3.74085	4.77516	1.80E-06	0.0001856
gene910	gene910	SACOL0922	gi 57650036 ref NC_002951.2 :928829-929897	MR150	M36C05	OK	11.1148	34.1717	1.62032	-2.3111	0.02083	0.269634
gene911	gene911	SACOL0924	gi 57650036 ref NC_002951.2 :930109-930958	MR150	M36C05	OK	48.3645	32.8014	-0.56019	0.785587	0.43211	0.999883
gene912	gene912	SACOL0925	gi 57650036 ref NC_002951.2 :930970-931798	MR150	M36C05	OK	32.9142	17.9159	-0.877466	1.27118	0.20367	0.875776
gene913	gene913	SACOL0926	gi 57650036 ref NC_002951.2 :931824-933144	MR150	M36C05	OK	42.6639	26.2803	-0.699031	0.94511	0.3446	0.999883
gene914	gene914	lipA	gi 57650036 ref NC_002951.2 :933227-934145	MR150	M36C05	OK	320.536	192.465	-0.735891	0.836009	0.40315	0.999883
gene915	gene915	SACOL0928	gi 57650036 ref NC_002951.2 :934265-934658	MR150	M36C05	OK	196.018	78.4671	-1.32083	1.84798	0.0646	0.508201
gene916	gene916	SACOL0929	gi 57650036 ref NC_002951.2 :934736-934994	MR150	M36C05	OK	143.909	95.7499	-0.58781	0.86291	0.38819	0.999883
gene917	gene917	SACOL0930	gi 57650036 ref NC_002951.2 :935100-936314	MR150	M36C05	OK	126.685	60.5249	-1.06564	0.849951	0.39535	0.999883
gene918	gene918	SACOL0931	gi 57650036 ref NC_002951.2 :935100-936314	MR150	M36C05	OK	75.2323	45.649	-0.720767	0.736078	0.46168	0.999883
gene919	gene919	SACOL0932	gi 57650036 ref NC_002951.2 :936346-937306	MR150	M36C05	OK	101.145	44.9825	-1.16899	1.52595	0.12702	0.707666
gene92	gene92	sarS	gi 57650036 ref NC_002951.2 :109310-110063	MR150	M36C05	OK	108.803	47.8813	-1.18418	1.58846	0.11218	0.664916
gene920	gene920	SACOL0933	gi 57650036 ref NC_002951.2 :937559-937670	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene921	gene921	SACOL0934	gi 57650036 ref NC_002951.2 :937717-937870	MR150	M36C05	OK	615.294	204.749	-1.58742	2.13181	0.03302	0.34869
gene922	gene922	dltA	gi 57650036 ref NC_002951.2 :937885-940554	MR150	M36C05	OK	642.095	477.899	-0.426083	0.350715	0.7258	0.999883
gene923	gene923	dltB	gi 57650036 ref NC_002951.2 :937885-940554	MR150	M36C05	OK	544.841	246.457	-1.1445	0.684275	0.4938	0.999883
gene924	gene924	dltC	gi 57650036 ref NC_002951.2 :940571-941980	MR150	M36C05	OK	684.322	282.415	-1.27686	0.293472	0.76916	0.999883
gene925	gene925	dltD	gi 57650036 ref NC_002951.2 :940571-941980	MR150	M36C05	OK	817.975	312.682	-1.38736	1.41437	0.15725	0.775761
gene926	gene926	SACOL0939	gi 57650036 ref NC_002951.2 :942242-942464	MR150	M36C05	OK	146.72	73.9046	-0.989328	1.42383	0.1545	0.769852
gene927	gene927	SACOL0940	gi 57650036 ref NC_002951.2 :942585-942909	MR150	M36C05	OK	142.992	67.4316	-1.08444	1.57831	0.11449	0.670749
gene928	gene928	SACOL0941	gi 57650036 ref NC_002951.2 :942969-944032	MR150	M36C05	OK	90.853	79.728	-0.188448	0.237246	0.81247	0.999883
gene929	gene929	SACOL0942	gi 57650036 ref NC_002951.2 :944348-944585	MR150	M36C05	OK	491.102	528.328	0.105412	-0.146363	0.88364	0.999883
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	MR150	M36C05	OK	10.7326	107.927	3.32999	-4.39725	1.10E-05	0.0008765
gene930	gene930	SACOL0943	gi 57650036 ref NC_002951.2 :944597-944957	MR150	M36C05	OK	206.826	364.691	0.818252	-1.08627	0.27736	0.963271
gene931	gene931	SACOL0944	gi 57650036 ref NC_002951.2 :945410-946619	MR150	M36C05	OK	105.791	77.7971	-0.443431	0.543522	0.58677	0.999883

gene932	gene932	SACOL0945	gi 57650036 ref NC_002951.2 :946749-948225	MR150	M36C05	OK	42.3707	91.2242	1.10635	-1.37563	0.16894	0.808591
gene933	gene933	SACOL0946	gi 57650036 ref NC_002951.2 :948635-949952	MR150	M36C05	OK	7.81529	11.251	0.525679	-0.771155	0.44062	0.999883
gene934	gene934	SACOL0947	gi 57650036 ref NC_002951.2 :949970-950345	MR150	M36C05	OK	44.9454	61.1852	0.445009	-0.653747	0.51328	0.999883
gene935	gene935	SACOL0948	gi 57650036 ref NC_002951.2 :950400-951555	MR150	M36C05	OK	0.48108	1.50084	1.64143	-1.79672	0.07238	0.527706
gene936	gene936	mnhG	gi 57650036 ref NC_002951.2 :951803-952910	MR150	M36C05	OK	108.114	45.6162	-1.24493	1.11644	0.26423	0.945724
gene937	gene937	mnhF	gi 57650036 ref NC_002951.2 :951803-952910	MR150	M36C05	OK	16.3319	7.48446	-1.12572	0.321768	0.74763	0.999883
gene938	gene938	mnhE	gi 57650036 ref NC_002951.2 :951803-952910	MR150	M36C05	OK	63.8977	42.1905	-0.598847	0.608103	0.54312	0.999883
gene939	gene939	mnhD	gi 57650036 ref NC_002951.2 :952911-957568	MR150	M36C05	OK	73.8047	56.0064	-0.39812	0.219873	0.82597	0.999883
gene94	gene94	sirB	gi 57650036 ref NC_002951.2 :110431-112422	MR150	M36C05	OK	0.38475	1.66242	2.11129	-0.394195	0.69344	0.999883
gene940	gene940	mnhC	gi 57650036 ref NC_002951.2 :952911-957568	MR150	M36C05	OK	52.4298	62.876	0.262124	-0.046383	0.96301	0.999883
gene941	gene941	mnhB	gi 57650036 ref NC_002951.2 :952911-957568	MR150	M36C05	OK	45.3166	54.387	0.263223	-0.054333	0.95667	0.999883
gene942	gene942	mnhA	gi 57650036 ref NC_002951.2 :952911-957568	MR150	M36C05	OK	79.9913	106.551	0.413633	-0.360649	0.71836	0.999883
gene943	gene943	kapB	gi 57650036 ref NC_002951.2 :957698-958082	MR150	M36C05	OK	78.2898	50.5964	-0.629789	0.921598	0.35674	0.999883
gene944	gene944	SACOL0957	gi 57650036 ref NC_002951.2 :958145-958739	MR150	M36C05	OK	178.306	63.3224	-1.49357	1.98912	0.04669	0.42474
gene945	gene945	SACOL0958	gi 57650036 ref NC_002951.2 :959154-959532	MR150	M36C05	OK	201.574	486.568	1.27133	-1.64099	0.1008	0.638218
gene946	gene946	SACOL0959	gi 57650036 ref NC_002951.2 :959893-961021	MR150	M36C05	OK	61.8838	176.673	1.51345	-1.83681	0.06624	0.515048
gene947	gene947	rocD	gi 57650036 ref NC_002951.2 :961328-962519	MR150	M36C05	OK	411.84	786.996	0.934273	-0.967264	0.33341	0.999883
gene948	gene948	gluD	gi 57650036 ref NC_002951.2 :962627-963872	MR150	M36C05	OK	775.856	1143.6	0.559724	-0.572619	0.5669	0.999883
gene949	gene949	SACOL0962	gi 57650036 ref NC_002951.2 :964374-965304	MR150	M36C05	OK	36.0787	40.6392	0.171725	-0.239417	0.81078	0.999883
gene95	gene95	sirA	gi 57650036 ref NC_002951.2 :112437-113430	MR150	M36C05	OK	5.6	4.03274	-0.473667	0.674006	0.50031	0.999883
gene950	gene950	argH	gi 57650036 ref NC_002951.2 :965545-968120	MR150	M36C05	OK	110.324	24.8497	-2.15044	2.11954	0.03404	0.353699
gene951	gene951	argG	gi 57650036 ref NC_002951.2 :965545-968120	MR150	M36C05	OK	72.7674	13.151	-2.46812	1.7413	0.08163	0.568583
gene952	gene952	SACOL0965	gi 57650036 ref NC_002951.2 :968264-968399	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene953	gene953	pgi	gi 57650036 ref NC_002951.2 :968470-969802	MR150	M36C05	OK	103.094	294.489	1.51425	-1.70243	0.08867	0.597944
gene954	gene954	SACOL0967	gi 57650036 ref NC_002951.2 :970126-970702	MR150	M36C05	OK	43.5532	30.5369	-0.512223	0.746759	0.45521	0.999883
gene955	gene955	spsA	gi 57650036 ref NC_002951.2 :970706-971231	MR150	M36C05	OK	56.9642	37.7131	-0.594992	0.86417	0.38749	0.999883
gene956	gene956	spsB	gi 57650036 ref NC_002951.2 :971237-971822	MR150	M36C05	OK	89.8433	51.6148	-0.799626	1.11796	0.26358	0.945272
gene957	gene957	rexB	gi 57650036 ref NC_002951.2 :971981-975458	MR150	M36C05	OK	42.6323	38.8014	-0.135837	0.15927	0.87346	0.999883
gene958	gene958	rexA	gi 57650036 ref NC_002951.2 :975458-979112	MR150	M36C05	OK	35.658	32.6975	-0.125046	0.148714	0.88178	0.999883
gene959	gene959	SACOL0973	gi 57650036 ref NC_002951.2 :979277-980180	MR150	M36C05	OK	252.88	345.46	0.450068	-0.503259	0.61478	0.999883
gene96	gene96	SACOL0100	gi 57650036 ref NC_002951.2 :113693-114641	MR150	M36C05	OK	0	1.32692	1.79769e+30	1.79769e+30	0.008	0.14471
gene960	gene960	SACOL0974	gi 57650036 ref NC_002951.2 :980508-980898	MR150	M36C05	OK	43.1551	60.6095	0.490013	-0.719492	0.47184	0.999883
gene961	gene961	SACOL0975	gi 57650036 ref NC_002951.2 :981068-982385	MR150	M36C05	OK	99.8163	156.823	0.651788	-0.760316	0.44707	0.999883

gene962	gene962	SACOL0976	gi 57650036 ref NC_002951.2 :982436-983261	MR150	M36C05	OK	91.132	142.075	0.640625	-0.808547	0.41878	0.999883
gene963	gene963	SACOL0977	gi 57650036 ref NC_002951.2 :983374-983683	MR150	M36C05	OK	334.729	286.216	-0.225892	0.306885	0.75893	0.999883
gene964	gene964	SACOL0978	gi 57650036 ref NC_002951.2 :984229-986044	MR150	M36C05	OK	2.84523	2.25204	-0.33731	0.483092	0.62903	0.999883
gene965	gene965	clpB	gi 57650036 ref NC_002951.2 :986246-988856	MR150	M36C05	OK	555.008	112.206	-2.30636	2.43925	0.01472	0.210573
gene966	gene966	SACOL0980	gi 57650036 ref NC_002951.2 :988914-989784	MR150	M36C05	OK	1.59974	0.65849	-1.28061	1.36306	0.17286	0.820873
gene967	gene967	SACOL0981	gi 57650036 ref NC_002951.2 :989893-993274	MR150	M36C05	NOTEST	0.48565	0.69929	0.525968	-0.278986	0.78026	1
gene968	gene968	SACOL0982	gi 57650036 ref NC_002951.2 :989893-993274	MR150	M36C05	OK	0.34632	1.99764	2.52812	-0.972766	0.33067	0.999883
gene969	gene969	SACOL0983	gi 57650036 ref NC_002951.2 :989893-993274	MR150	M36C05	OK	1.66639	2.0396	0.291559	-0.272188	0.78548	0.999883
gene97	gene97	SACOL0101	gi 57650036 ref NC_002951.2 :114649-115648	MR150	M36C05	NOTEST	0.19165	0.82809	2.11128	-1.57592	0.11504	1
gene970	gene970	SACOL0984	gi 57650036 ref NC_002951.2 :989893-993274	MR150	M36C05	OK	2.42075	5.591	1.20765	-0.926203	0.35434	0.999883
gene971	gene971	SACOL0985	gi 57650036 ref NC_002951.2 :993584-994019	MR150	M36C05	OK	72.7626	41.2883	-0.817463	1.19189	0.23331	0.902568
gene972	gene972	SACOL0986	gi 57650036 ref NC_002951.2 :994275-994461	MR150	M36C05	OK	3337.23	2020.63	-0.723844	0.935373	0.3496	0.999883
gene973	gene973	fabH	gi 57650036 ref NC_002951.2 :994755-995697	MR150	M36C05	OK	68.5146	13.5252	-2.34076	3.23897	0.0012	0.0391064
gene974	gene974	fabF	gi 57650036 ref NC_002951.2 :995708-996953	MR150	M36C05	OK	165.899	111.301	-0.575841	0.670502	0.50254	0.999883
gene975	gene975	SACOL0989	gi 57650036 ref NC_002951.2 :997007-997379	MR150	M36C05	OK	14.0572	11.4234	-0.299318	0.404014	0.6862	0.999883
gene976	gene976	SACOL0990	gi 57650036 ref NC_002951.2 :997601-999618	MR150	M36C05	NOTEST	0	0	0	0	1	1
gene977	gene977	oppB	gi 57650036 ref NC_002951.2 :997601-999618	MR150	M36C05	OK	353.415	111.321	-1.66664	1.23015	0.21864	0.89416
gene978	gene978	oppC	gi 57650036 ref NC_002951.2 :997601-999618	MR150	M36C05	OK	278.496	108.745	-1.35671	1.08137	0.27953	0.965951
gene979	gene979	oppD	gi 57650036 ref NC_002951.2 :999634-1001648	MR150	M36C05	OK	394.379	195.675	-1.01112	0.880925	0.37836	0.999883
gene98	gene98	SACOL0102	gi 57650036 ref NC_002951.2 :115668-124110	MR150	M36C05	OK	0.2955	1.27581	2.11019	-0.958577	0.33777	0.999883
gene980	gene980	oppF	gi 57650036 ref NC_002951.2 :999634-1001648	MR150	M36C05	OK	245.58	105.675	-1.21655	0.741141	0.45861	0.999883
gene981	gene981	SACOL0995	gi 57650036 ref NC_002951.2 :1001665-1003321	MR150	M36C05	OK	405.738	164.119	-1.30581	1.38875	0.16491	0.796695
gene982	gene982	SACOL0996	gi 57650036 ref NC_002951.2 :1003532-1005248	MR150	M36C05	OK	0.70723	1.23595	0.805366	-1.01195	0.31156	0.993813
gene983	gene983	SACOL0997	gi 57650036 ref NC_002951.2 :1005298-1006285	MR150	M36C05	OK	0.7783	1.40121	0.848278	-0.953056	0.34056	0.999883
gene984	gene984	SACOL0998	gi 57650036 ref NC_002951.2 :1006287-1008223	MR150	M36C05	NOTEST	0.39214	0.98839	1.33372	-0.632344	0.52716	1
gene985	gene985	SACOL0999	gi 57650036 ref NC_002951.2 :1006287-1008223	MR150	M36C05	OK	4.01385	5.49228	0.452421	-0.605359	0.54494	0.999883
gene986	gene986	SACOL1000	gi 57650036 ref NC_002951.2 :1008234-1009116	MR150	M36C05	OK	5.38836	6.14542	0.189664	-0.270998	0.78639	0.999883
gene987	gene987	trpS	gi 57650036 ref NC_002951.2 :1009157-1010147	MR150	M36C05	OK	85.8696	62.3961	-0.460691	0.595479	0.55152	0.999883
gene988	gene988	spxA	gi 57650036 ref NC_002951.2 :1010441-1010837	MR150	M36C05	OK	9014.06	28626.7	1.66711	-1.82367	0.0682	0.522414
gene989	gene989	SACOL1003	gi 57650036 ref NC_002951.2 :1011207-1011927	MR150	M36C05	OK	25.6136	179.086	2.80567	-3.72227	0.0002	0.0097866
gene99	gene99	SACOL0103	gi 57650036 ref NC_002951.2 :115668-124110	MR150	M36C05	OK	0.14489	1.1473	2.9852	-0.836954	0.40262	0.999883
gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	MR150	M36C05	OK	0	1.12097	1.79769e+30	1.79769e+30	0.00944	0.161634
gene991	gene991	pepF	gi 57650036 ref NC_002951.2 :1013081-1014890	MR150	M36C05	OK	36.9355	69.9369	0.921045	-1.14238	0.25329	0.930503

gene992	gene992	SACOL1006	gi 57650036 ref NC_002951.2 :1015349-1016156	MR150	M36C05	OK	96.3551	157.562	0.709482	-0.889997	0.37347	0.999883
gene993	gene993	SACOL1007	gi 57650036 ref NC_002951.2 :1016178-1016544	MR150	M36C05	OK	109.006	213.26	0.968199	-1.35396	0.17575	0.821477
gene994	gene994	SACOL1008	gi 57650036 ref NC_002951.2 :1016647-1017241	MR150	M36C05	OK	16.3156	24.0961	0.562547	-0.825379	0.40916	0.999883
gene995	gene995	SACOL1009	gi 57650036 ref NC_002951.2 :1017426-1017774	MR150	M36C05	OK	44.4412	43.7798	-0.0216298	0.031699	0.97471	0.999883
gene996	gene996	relA1	gi 57650036 ref NC_002951.2 :1017790-1018426	MR150	M36C05	OK	30.8951	46.8324	0.600127	-0.867857	0.38547	0.999883
gene997	gene997	ppnK	gi 57650036 ref NC_002951.2 :1018442-1020103	MR150	M36C05	OK	65.7617	90.4184	0.45937	-0.512623	0.60822	0.999883
gene998	gene998	SACOL1012	gi 57650036 ref NC_002951.2 :1018442-1020103	MR150	M36C05	OK	19.1687	27.617	0.526807	-0.332875	0.73923	0.999883
gene999	gene999	mgtE	gi 57650036 ref NC_002951.2 :1020123-1021509	MR150	M36C05	OK	21.824	27.2334	0.319464	-0.443763	0.65721	0.999883

Supplementary Table S7. Differentially expressed genes in MR100 compared with M18C06, related to Figure 3a

test_id	gene_id	gene	locus	MR100	M18C06	status	FPKM (MR100)	FPKM(M18C06)	log2(fold change)	test_stat	p_value	q_value
gene0	gene0	dnaA	gi 57650036 ref NC_002951.2 :543-1905	q1	q2	OK	243.243	67.5088	-1.84925	2.42054	0.0154975	0.288253
gene1001	gene1001	fabI	gi 57650036 ref NC_002951.2 :1023640-1024411	q1	q2	OK	331.158	115.766	-1.51631	2.20362	0.0275514	0.380118
gene1046	gene1046	SACOL1060	gi 57650036 ref NC_002951.2 :1067066-1067486	q1	q2	OK	58.0817	27.8608	-1.05985	1.99188	0.0463845	0.487329
gene1052	gene1052	qoxD	gi 57650036 ref NC_002951.2 :1076195-1076474	q1	q2	OK	562.719	253.866	-1.14835	2.28619	0.0222431	0.342403
gene1056	gene1056	SACOL1071	gi 57650036 ref NC_002951.2 :1080737-1081055	q1	q2	OK	125.851	61.4854	-1.0334	2.00473	0.0449922	0.481552
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	q1	q2	OK	301.067	54.7122	-2.46015	4.25977	2.05E-05	0.005709
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	q1	q2	OK	259.904	59.9876	-2.11525	2.6839	0.007277	0.180916
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	q1	q2	OK	398.494	70.512	-2.49862	3.0552	0.0022491	0.09572
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	q1	q2	OK	113.287	656.979	2.53586	-2.43251	0.0149945	0.287414
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	q1	q2	OK	115.666	44.4122	-1.38094	2.79288	0.005224	0.144433
gene1106	gene1106	SACOL1121	gi 57650036 ref NC_002951.2 :1130103-1130379	q1	q2	OK	1057.36	474.329	-1.15651	2.02472	0.042896	0.472836
gene1110	gene1110	ctaB	gi 57650036 ref NC_002951.2 :1137415-1138327	q1	q2	OK	218.494	85.951	-1.34601	2.08214	0.0373297	0.444619
gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	q1	q2	OK	274.804	99.8969	-1.45989	2.79664	0.0051637	0.144433
gene1118	gene1118	SACOL1133	gi 57650036 ref NC_002951.2 :1142570-1143113	q1	q2	OK	137.932	60.9254	-1.17885	2.38413	0.0171193	0.307047
gene1119	gene1119	coaD	gi 57650036 ref NC_002951.2 :1143114-1143597	q1	q2	OK	141.468	59.8865	-1.24018	2.51752	0.0118186	0.249708
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	q1	q2	OK	274.141	103.592	-1.40401	2.50935	0.0120953	0.249708
gene1122	gene1122	rpmF	gi 57650036 ref NC_002951.2 :1145561-1145735	q1	q2	OK	996.486	375.033	-1.40983	2.58534	0.0097283	0.226936
gene1131	gene1131	SACOL1147	gi 57650036 ref NC_002951.2 :1154423-1155164	q1	q2	OK	135.451	60.6379	-1.15948	2.2337	0.0255031	0.368182
gene1135	gene1135	SACOL1151	gi 57650036 ref NC_002951.2 :1160483-1160750	q1	q2	OK	473.018	110.189	-2.10191	4.09642	4.20E-05	0.008409
gene1136	gene1136	SACOL1152	gi 57650036 ref NC_002951.2 :1160750-1161272	q1	q2	OK	112.065	53.0038	-1.08017	2.20451	0.0274885	0.380118
gene114	gene114	sodA1	gi 57650036 ref NC_002951.2 :133398-133998	q1	q2	OK	181.667	83.6598	-1.11869	2.14993	0.0315608	0.419308
gene1142	gene1142	sdhC	gi 57650036 ref NC_002951.2 :1168330-1168945	q1	q2	OK	511.363	143.772	-1.83056	2.58419	0.0097607	0.226936
gene115	gene115	SACOL0119	gi 57650036 ref NC_002951.2 :134365-135091	q1	q2	OK	682.839	37.9713	-4.16856	5.32641	1.00E-07	0.000126
gene1151	gene1151	SACOL1167	gi 57650036 ref NC_002951.2 :1175968-1176475	q1	q2	OK	72.2103	31.3974	-1.20156	2.38417	0.0171178	0.307047
gene1171	gene1171	SACOL1186	gi 57650036 ref NC_002951.2 :1192216-1192351	q1	q2	OK	141.609	0	-1.79769e+3	-1.79769e+3	0.0370172	0.444619
gene1176	gene1176	mraZ	gi 57650036 ref NC_002951.2 :1195861-1196293	q1	q2	OK	659.431	150.635	-2.13016	3.30418	0.0009525	0.051232
gene119	gene119	deoC1	gi 57650036 ref NC_002951.2 :138420-139083	q1	q2	OK	212.565	79.2951	-1.4226	2.55431	0.0106398	0.23854
gene1215	gene1215	SACOL1230	gi 57650036 ref NC_002951.2 :1240127-1241222	q1	q2	OK	180.048	63.3472	-1.50703	2.32603	0.0200168	0.32851
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	q1	q2	OK	167.578	50.6701	-1.72562	3.15045	0.0016302	0.073097
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	q1	q2	OK	733.208	112.644	-2.70245	3.32283	0.0008911	0.049722

gene1264	gene1264	SACOL1284	gi 57650036 ref NC_002951.2 :1297898-1298366	q1	q2	OK	218.988	97.7964	-1.163	2.30158	0.0213586	0.341601
gene1267	gene1267	SACOL1287	gi 57650036 ref NC_002951.2 :1299582-1300181	q1	q2	OK	309.19	133.706	-1.20942	1.98366	0.0472935	0.493802
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	q1	q2	OK	386.008	84.0246	-2.19975	4.22913	2.35E-05	0.005891
gene1286	gene1286	SACOL1306	gi 57650036 ref NC_002951.2 :1323249-1323465	q1	q2	OK	374.934	954.071	1.34746	-2.75854	0.005806	0.153462
gene1297	gene1297	glpF	gi 57650036 ref NC_002951.2 :1336107-1336926	q1	q2	OK	779.9	98.3048	-2.98796	3.6113	0.0003047	0.026823
gene1298	gene1298	glpK	gi 57650036 ref NC_002951.2 :1337054-1338551	q1	q2	OK	426.75	70.4357	-2.59901	3.02393	0.0024952	0.09945
gene1299	gene1299	glpD	gi 57650036 ref NC_002951.2 :1338708-1340382	q1	q2	OK	975.565	175.853	-2.47187	2.48132	0.0130897	0.265066
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	q1	q2	OK	44.6394	326.32	2.8699	-4.57236	4.82E-06	0.003027
gene1302	gene1302	SACOL1324	gi 57650036 ref NC_002951.2 :1342413-1342647	q1	q2	OK	214.044	85.0976	-1.33072	2.39863	0.0164565	0.299437
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	q1	q2	OK	33.9342	234.956	2.79158	-4.8264	1.39E-06	0.001164
gene1317	gene1317	SACOL1340	gi 57650036 ref NC_002951.2 :1353195-1353444	q1	q2	OK	18.711	56.3221	1.58982	-2.19098	0.0284536	0.39042
gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	q1	q2	OK	34.1478	156.021	2.19187	-4.07498	4.60E-05	0.008409
gene1342	gene1342	SACOL1366	gi 57650036 ref NC_002951.2 :1371609-1371924	q1	q2	OK	147.465	58.88	-1.32453	2.56458	0.0103301	0.237971
gene1345	gene1345	rpmG	gi 57650036 ref NC_002951.2 :1375407-1375557	q1	q2	OK	99.2507	341.63	1.78329	-2.00069	0.0454255	0.481552
gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	q1	q2	OK	37.5979	123.932	1.72083	-3.01893	0.0025367	0.099524
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	q1	q2	OK	215.687	71.9024	-1.58483	2.85756	0.0042692	0.131239
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	q1	q2	OK	32.6539	93.8904	1.52372	-2.8614	0.0042178	0.131239
gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	q1	q2	OK	135.553	35.787	-1.92134	2.15909	0.030843	0.418631
gene1412	gene1412	SACOL1437	gi 57650036 ref NC_002951.2 :1449689-1449890	q1	q2	OK	5730.5	2164.15	-1.40486	2.03323	0.0420291	0.472836
gene146	gene146	SACOL0152	gi 57650036 ref NC_002951.2 :170037-170364	q1	q2	OK	73.9922	15.5613	-2.24941	3.59513	0.0003242	0.027138
gene147	gene147	SACOL0153	gi 57650036 ref NC_002951.2 :170370-170754	q1	q2	OK	55.9765	18.3896	-1.60593	2.78871	0.0052919	0.144433
gene1493	gene1493	fer	gi 57650036 ref NC_002951.2 :1564395-1564644	q1	q2	OK	430.352	163.14	-1.39941	2.79206	0.0052374	0.144433
gene1494	gene1494	SACOL1526	gi 57650036 ref NC_002951.2 :1564749-1565295	q1	q2	OK	264.157	105.921	-1.31841	2.39914	0.0164335	0.299437
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	q1	q2	OK	41.5265	208.549	2.32829	-3.37528	0.0007374	0.042082
gene1507	gene1507	xerD	gi 57650036 ref NC_002951.2 :1577614-1578502	q1	q2	OK	189.606	55.3129	-1.77731	2.96019	0.0030745	0.107223
gene1559	gene1559	SACOL1593	gi 57650036 ref NC_002951.2 :1625946-1628758	q1	q2	OK	374.584	58.5241	-2.67819	2.14567	0.031899	0.419363
gene1561	gene1561	gcvT	gi 57650036 ref NC_002951.2 :1628777-1629869	q1	q2	OK	152.072	49.8851	-1.60808	2.64253	0.0082288	0.198678
gene1573	gene1573	SACOL1607	gi 57650036 ref NC_002951.2 :1637893-1638433	q1	q2	OK	137.178	66.9884	-1.03406	2.09723	0.0359735	0.441533
gene159	gene159	SACOL0165	gi 57650036 ref NC_002951.2 :190145-190790	q1	q2	OK	110.061	39.1888	-1.48979	2.99119	0.0027789	0.101128
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	q1	q2	OK	424.944	149.212	-1.50991	3.00071	0.0026935	0.101128
gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	q1	q2	OK	129.201	38.6792	-1.73998	3.47234	0.0005159	0.033219
gene1621	gene1621	mtn	gi 57650036 ref NC_002951.2 :1683858-1684545	q1	q2	OK	95.1051	35.9253	-1.40452	2.83335	0.0046063	0.137671
gene1622	gene1622	SACOL1656	gi 57650036 ref NC_002951.2 :1684858-1685128	q1	q2	OK	61.8245	25.5139	-1.27689	1.97059	0.0487708	0.499851

gene1624	gene1624	SACOL1658	gi 57650036 ref NC_002951.2 :1686495-1687716	q1	q2	OK	100.12	36.1727	-1.46876	2.6358	0.0083938	0.200732
gene1625	gene1625	SACOL1659	gi 57650036 ref NC_002951.2 :1688004-1689234	q1	q2	OK	160.293	56.4446	-1.50581	2.30778	0.0210113	0.340384
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	q1	q2	OK	801.742	2750.3	1.77838	-3.27863	0.0010431	0.054568
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	q1	q2	OK	73.0734	279.704	1.93648	-2.78906	0.0052862	0.144433
gene1655	gene1655	apt	gi 57650036 ref NC_002951.2 :1720725-1721244	q1	q2	OK	121.619	58.9815	-1.04404	2.13158	0.0330411	0.42162
gene1658	gene1658	yajC	gi 57650036 ref NC_002951.2 :1726295-1726556	q1	q2	OK	256.116	111.53	-1.19937	2.35254	0.0186457	0.315668
gene1665	gene1665	rpmA	gi 57650036 ref NC_002951.2 :1732530-1732815	q1	q2	OK	1951.32	508.22	-1.94093	2.76983	0.0056085	0.151098
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	q1	q2	OK	506.413	164.242	-1.62449	3.13114	0.0017413	0.076708
gene1667	gene1667	rplU	gi 57650036 ref NC_002951.2 :1733152-1733461	q1	q2	OK	2020.7	674.066	-1.58389	2.07201	0.0382645	0.45109
gene1670	gene1670	SACOL1705	gi 57650036 ref NC_002951.2 :1735392-1735866	q1	q2	OK	92.1667	45.3944	-1.02173	2.06528	0.0388962	0.454271
gene1676	gene1676	SACOL1711	gi 57650036 ref NC_002951.2 :1742668-1743229	q1	q2	OK	229.848	91.934	-1.32201	2.46942	0.0135331	0.270921
gene1689	gene1689	rplT	gi 57650036 ref NC_002951.2 :1756408-1756765	q1	q2	OK	154.519	70.5238	-1.1316	2.27716	0.0227766	0.342468
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	q1	q2	OK	299.764	64.8701	-2.2082	2.53061	0.0113865	0.247006
gene1696	gene1696	nrdR	gi 57650036 ref NC_002951.2 :1764386-1764857	q1	q2	OK	307.595	114.208	-1.42937	2.65368	0.0079619	0.196004
gene1716	gene1716	SACOL1753	gi 57650036 ref NC_002951.2 :1794539-1794953	q1	q2	OK	490.685	98.3259	-2.31915	4.0179	5.87E-05	0.008673
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	q1	q2	OK	580.652	153.249	-1.92179	2.12903	0.0332518	0.421693
gene1723	gene1723	SACOL1761	gi 57650036 ref NC_002951.2 :1800786-1801734	q1	q2	OK	138.039	448.075	1.69867	-2.08179	0.0373615	0.444619
gene173	gene173	SACOL0179	gi 57650036 ref NC_002951.2 :206626-207502	q1	q2	OK	86.1906	41.0105	-1.07154	2.13915	0.0324234	0.420136
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	q1	q2	OK	166.82	78.0286	-1.09622	2.13664	0.0326271	0.420136
gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	q1	q2	OK	61.8188	27.9487	-1.14526	2.30308	0.0212745	0.341601
gene1745	gene1745	acuA	gi 57650036 ref NC_002951.2 :1828380-1829013	q1	q2	OK	157.026	66.0762	-1.2488	2.43369	0.0149458	0.287414
gene175	gene175	SACOL0181	gi 57650036 ref NC_002951.2 :211183-212026	q1	q2	OK	167.786	59.0823	-1.50582	2.64822	0.0080918	0.197267
gene1759	gene1759	trmB	gi 57650036 ref NC_002951.2 :1845831-1846476	q1	q2	OK	477.903	153.323	-1.64015	2.29637	0.0216549	0.342403
gene1760	gene1760	SACOL1799	gi 57650036 ref NC_002951.2 :1846490-1847282	q1	q2	OK	457.157	136.519	-1.74359	2.2826	0.0224538	0.342403
gene1777	gene1777	putA	gi 57650036 ref NC_002951.2 :1871485-1872487	q1	q2	OK	304.813	91.5212	-1.73575	2.35467	0.018539	0.315668
gene1797	gene1797	SACOL1836	gi 57650036 ref NC_002951.2 :1890533-1891442	q1	q2	OK	169.379	68.098	-1.31457	2.22485	0.0260916	0.37225
gene1842	gene1842	SACOL1883	gi 57650036 ref NC_002951.2 :1937942-1938731	q1	q2	OK	173.453	76.1223	-1.18815	2.10536	0.0352598	0.436145
gene1872	gene1872	SACOL1907	gi 57650036 ref NC_002951.2 :1962281-1963103	q1	q2	OK	108.904	45.0949	-1.27202	2.48831	0.0128352	0.262026
gene1878	gene1878	SACOL1913	gi 57650036 ref NC_002951.2 :1967253-1967724	q1	q2	OK	137.135	61.4614	-1.15784	2.35716	0.0184151	0.315668
gene1881	gene1881	SACOL1916	gi 57650036 ref NC_002951.2 :1969006-1971179	q1	q2	OK	222.523	44.2797	-2.32924	2.3799	0.0173174	0.308397
gene1918	gene1918	SACOL1923	gi 57650036 ref NC_002951.2 :1986434-1987529	q1	q2	OK	187.165	61.1728	-1.61335	2.4678	0.0135946	0.270921
gene1920	gene1920	SACOL1925	gi 57650036 ref NC_002951.2 :1989746-1990289	q1	q2	OK	136.077	48.8137	-1.47906	2.97308	0.0029483	0.105384
gene1927	gene1927	SACOL1932	gi 57650036 ref NC_002951.2 :1996765-1997575	q1	q2	OK	175.705	57.9739	-1.59968	2.82116	0.0047851	0.139714

gene1980	gene1980	SACOL1986	gi 57650036 ref NC_002951.2 :2049702-2050104	q1	q2	OK	37.7427	80.1883	1.08719	-2.11374	0.0345377	0.435799
gene1981	gene1981	SACOL1987	gi 57650036 ref NC_002951.2 :2050676-2050850	q1	q2	OK	62.2804	222.993	1.84015	-2.33492	0.0195478	0.325064
gene1985	gene1985	SACOL1991	gi 57650036 ref NC_002951.2 :2053853-2054378	q1	q2	OK	45.4879	101.215	1.15388	-2.35317	0.0186144	0.315668
gene2012	gene2012	SACOL2021	gi 57650036 ref NC_002951.2 :2081385-2082171	q1	q2	OK	178.232	66.6368	-1.41937	2.51329	0.011961	0.249708
gene2013	gene2013	hld	gi 57650036 ref NC_002951.2 :2082767-2082902	q1	q2	OK	2039.17	101.074	-4.3345	3.60698	0.0003098	0.026823
gene205	gene205	SACOL0211	gi 57650036 ref NC_002951.2 :248020-249342	q1	q2	OK	414.789	108.062	-1.94052	2.28167	0.0225087	0.342403
gene2050	gene2050	rsbU	gi 57650036 ref NC_002951.2 :2122863-2123865	q1	q2	OK	128.671	57.6245	-1.15893	2.0531	0.040063	0.459353
gene2051	gene2051	SACOL2058	gi 57650036 ref NC_002951.2 :2124214-2124744	q1	q2	OK	346.599	116.571	-1.57206	3.04757	0.002307	0.095895
gene206	gene206	SACOL0212	gi 57650036 ref NC_002951.2 :249371-251633	q1	q2	OK	345.759	86.9452	-1.99159	2.0964	0.0360471	0.441533
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	q1	q2	OK	216.427	65.2199	-1.7305	2.24143	0.0249982	0.367079
gene207	gene207	SACOL0213	gi 57650036 ref NC_002951.2 :251818-253030	q1	q2	OK	443.622	113.322	-1.96891	2.28437	0.0223498	0.342403
gene208	gene208	SACOL0214	gi 57650036 ref NC_002951.2 :253141-254647	q1	q2	OK	439.614	103.236	-2.09029	2.31821	0.020438	0.333246
gene2080	gene2080	SACOL2088	gi 57650036 ref NC_002951.2 :2151897-2152593	q1	q2	OK	26.113	65.9535	1.33668	-2.70402	0.0068506	0.172504
gene2086	gene2086	atpC	gi 57650036 ref NC_002951.2 :2156714-2157119	q1	q2	OK	361.348	137.991	-1.38881	2.62966	0.0085472	0.202471
gene2092	gene2092	atpE	gi 57650036 ref NC_002951.2 :2162257-2162470	q1	q2	OK	529.932	183.823	-1.52749	2.92328	0.0034636	0.119139
gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	q1	q2	OK	205.232	64.5679	-1.66837	3.04464	0.0023296	0.095895
gene2105	gene2105	rho	gi 57650036 ref NC_002951.2 :2172249-2173566	q1	q2	OK	300.718	97.8186	-1.62023	1.97533	0.0482313	0.498616
gene2109	gene2109	fbaA	gi 57650036 ref NC_002951.2 :2177626-2178487	q1	q2	OK	458.344	117.759	-1.9606	2.51767	0.0118135	0.249708
gene2112	gene2112	rpoE	gi 57650036 ref NC_002951.2 :2181280-2181811	q1	q2	OK	308.66	122.252	-1.33616	2.35135	0.0187054	0.315668
gene2115	gene2115	SACOL2123	gi 57650036 ref NC_002951.2 :2184139-2184811	q1	q2	OK	133.119	56.7559	-1.22987	2.4266	0.0152412	0.288253
gene2119	gene2119	SACOL2127	gi 57650036 ref NC_002951.2 :2188519-2188870	q1	q2	OK	327.502	128	-1.35536	2.70308	0.00687	0.172504
gene2121	gene2121	deoC2	gi 57650036 ref NC_002951.2 :2190463-2191126	q1	q2	OK	425.131	141.244	-1.58971	2.27952	0.0226359	0.342403
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	q1	q2	OK	1056.99	68.7525	-3.94241	6.09331	1.11E-09	2.78E-06
gene2130	gene2130	SACOL2138	gi 57650036 ref NC_002951.2 :2198603-2199584	q1	q2	OK	453.384	51.5199	-3.13753	4.02882	5.61E-05	0.008673
gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	q1	q2	OK	313.588	51.7802	-2.5984	3.65575	0.0002564	0.024307
gene2164	gene2164	SACOL2163	gi 57650036 ref NC_002951.2 :2241856-2242117	q1	q2	OK	3964.78	1178.56	-1.75022	2.15566	0.0311101	0.418808
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	q1	q2	OK	136.905	34.6581	-1.98191	3.51257	0.0004438	0.03217
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	q1	q2	OK	1656.24	5434.36	1.7142	-2.09371	0.0362858	0.442299
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	q1	q2	OK	117.05	448.372	1.93757	-3.45464	0.000551	0.03459
gene2205	gene2205	SACOL2204	gi 57650036 ref NC_002951.2 :2285937-2286729	q1	q2	OK	146.817	70.1045	-1.06644	1.97338	0.0484518	0.498616
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	q1	q2	OK	707.357	120.421	-2.55435	4.04679	5.19E-05	0.008673
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	q1	q2	OK	444.286	100.481	-2.14456	3.72675	0.000194	0.020293
gene2213	gene2213	rplQ	gi 57650036 ref NC_002951.2 :2293570-2293939	q1	q2	OK	845.398	188.038	-2.16861	3.3929	0.0006916	0.040697

gene2214	gene2214	rpoA	gi 57650036 ref NC_002951.2 :2293955-2294900	q1	q2	OK	898.634	223.098	-2.01006	2.13765	0.0325452	0.420136
gene2215	gene2215	rpsK	gi 57650036 ref NC_002951.2 :2294974-2295364	q1	q2	OK	692.733	174.753	-1.98698	3.20089	0.00137	0.063706
gene2216	gene2216	rpsM	gi 57650036 ref NC_002951.2 :2295387-2295753	q1	q2	OK	1062.13	276.93	-1.93937	2.82962	0.0046603	0.137671
gene2218	gene2218	infA	gi 57650036 ref NC_002951.2 :2295920-2296139	q1	q2	OK	728.922	267.441	-1.44654	2.87933	0.0039852	0.12949
gene2219	gene2219	adk	gi 57650036 ref NC_002951.2 :2296331-2296979	q1	q2	OK	484.807	150.629	-1.68641	2.35083	0.0187314	0.315668
gene2222	gene2222	rpmD	gi 57650036 ref NC_002951.2 :2298744-2298924	q1	q2	OK	879.873	203.032	-2.11559	3.65086	0.0002614	0.024307
gene2223	gene2223	rpsE	gi 57650036 ref NC_002951.2 :2298940-2299441	q1	q2	OK	990.553	174.902	-2.50169	3.25762	0.0011235	0.055909
gene2224	gene2224	rplR	gi 57650036 ref NC_002951.2 :2299461-2299821	q1	q2	OK	1774.18	307.901	-2.52661	3.27274	0.0010651	0.054581
gene2225	gene2225	rplF	gi 57650036 ref NC_002951.2 :2299851-2300388	q1	q2	OK	739.26	141.456	-2.38573	3.25459	0.0011356	0.055909
gene2226	gene2226	rpsH	gi 57650036 ref NC_002951.2 :2300412-2300811	q1	q2	OK	620.321	124.7	-2.31455	3.81636	0.0001354	0.017004
gene2227	gene2227	rpsN	gi 57650036 ref NC_002951.2 :2300842-2301028	q1	q2	OK	343.4	93.0463	-1.88387	2.81548	0.0048705	0.140572
gene2228	gene2228	rplE	gi 57650036 ref NC_002951.2 :2301050-2301590	q1	q2	OK	730.472	125.465	-2.54155	3.48198	0.0004977	0.033219
gene2229	gene2229	rplX	gi 57650036 ref NC_002951.2 :2301616-2301934	q1	q2	OK	1592.56	317.187	-2.32794	3.3023	0.0009589	0.051232
gene2230	gene2230	rplN	gi 57650036 ref NC_002951.2 :2301969-2302338	q1	q2	OK	710.574	151.14	-2.2331	3.68695	0.000227	0.022796
gene2231	gene2231	rpsQ	gi 57650036 ref NC_002951.2 :2302369-2302633	q1	q2	OK	1488.86	298.801	-2.31695	3.82653	0.00013	0.017004
gene2233	gene2233	rplP	gi 57650036 ref NC_002951.2 :2302656-2303290	q1	q2	OK	956.45	200.207	-2.2562	2.88282	0.0039414	0.12949
gene2234	gene2234	rpsC	gi 57650036 ref NC_002951.2 :2303292-2303946	q1	q2	OK	617.107	145.344	-2.08604	2.7425	0.0060974	0.157851
gene2235	gene2235	rplV	gi 57650036 ref NC_002951.2 :2303969-2304323	q1	q2	OK	675.654	160.485	-2.07384	3.55854	0.0003729	0.03007
gene2236	gene2236	rpsS	gi 57650036 ref NC_002951.2 :2304351-2304630	q1	q2	OK	817.258	203.366	-2.00671	3.73728	0.000186	0.020293
gene2237	gene2237	rplB	gi 57650036 ref NC_002951.2 :2304696-2305530	q1	q2	OK	431.403	139.696	-1.62675	2.10679	0.0351362	0.436145
gene225	gene225	SACOL0234	gi 57650036 ref NC_002951.2 :272097-272244	q1	q2	OK	80.1742	0	-1.79769e+3	-1.79769e+3	0.0370172	0.444619
gene2256	gene2256	sarV	gi 57650036 ref NC_002951.2 :2324349-2324700	q1	q2	OK	90.3016	36.908	-1.29082	2.42294	0.0153956	0.288253
gene2275	gene2275	SACOL2277	gi 57650036 ref NC_002951.2 :2337937-2338846	q1	q2	OK	266.413	101.419	-1.39334	2.01782	0.0436102	0.47611
gene2287	gene2287	sarY	gi 57650036 ref NC_002951.2 :2347997-2348741	q1	q2	OK	19.1055	39.3453	1.0422	-2.07542	0.0379474	0.449462
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	q1	q2	OK	25.877	55.1877	1.09268	-1.98276	0.047394	0.493802
gene2293	gene2293	SACOL2295	gi 57650036 ref NC_002951.2 :2356051-2356552	q1	q2	OK	147.381	893.618	2.60011	-3.51186	0.000445	0.03217
gene2296	gene2296	SACOL2298	gi 57650036 ref NC_002951.2 :2359393-2360170	q1	q2	OK	102.133	46.5065	-1.13494	2.26067	0.0237797	0.353318
gene2305	gene2305	SACOL2307	gi 57650036 ref NC_002951.2 :2369068-2369398	q1	q2	OK	31.6333	69.951	1.1449	-2.05376	0.0399993	0.459353
gene2330	gene2330	galM	gi 57650036 ref NC_002951.2 :2393733-2394859	q1	q2	OK	93.884	45.0138	-1.06051	2.02679	0.0426838	0.472836
gene2350	gene2350	tcaR	gi 57650036 ref NC_002951.2 :2412777-2413233	q1	q2	OK	85.8593	40.6424	-1.07899	2.15465	0.0311896	0.418808
gene2352	gene2352	SACOL2355	gi 57650036 ref NC_002951.2 :2414970-2415327	q1	q2	OK	16.6216	40.191	1.27382	-2.08853	0.0367502	0.444619
gene2360	gene2360	SACOL2363	gi 57650036 ref NC_002951.2 :2422345-2423944	q1	q2	OK	375.285	49.7694	-2.91466	3.47893	0.0005034	0.033219
gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	q1	q2	OK	91.5047	43.1511	-1.08445	2.2133	0.0268769	0.377263

gene2387	gene2387	SACOL2391	gi 57650036 ref NC_002951.2 :2449965-2450418	q1	q2	OK	148.278	71.9134	-1.04397	2.13113	0.0330781	0.42162
gene2403	gene2403	SACOL2407	gi 57650036 ref NC_002951.2 :2467305-2467905	q1	q2	OK	196.158	69.0827	-1.50562	2.85632	0.0042858	0.131239
gene2437	gene2437	SACOL2443	gi 57650036 ref NC_002951.2 :2502379-2504209	q1	q2	OK	199.127	54.5116	-1.86905	2.35425	0.01856	0.315668
gene2458	gene2458	SACOL2467	gi 57650036 ref NC_002951.2 :2524250-2524706	q1	q2	OK	180.99	67.2534	-1.42823	2.87124	0.0040887	0.129958
gene2475	gene2475	SACOL2485	gi 57650036 ref NC_002951.2 :2541822-2542242	q1	q2	OK	93.5761	196.697	1.07177	-2.18618	0.0288026	0.393061
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	q1	q2	OK	46.0966	182.767	1.98727	-3.94486	7.98E-05	0.011139
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	q1	q2	OK	8.1993	20.91	1.35062	-2.02253	0.043122	0.472836
gene2480	gene2480	SACOL2491	gi 57650036 ref NC_002951.2 :2545143-2545335	q1	q2	OK	168.375	54.9801	-1.6147	2.1517	0.0314211	0.419308
gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	q1	q2	OK	42.4654	138.125	1.70161	-2.99916	0.0027073	0.101128
gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	q1	q2	OK	14.0556	45.9828	1.70995	-2.5609	0.0104402	0.238321
gene2495	gene2495	sarT	gi 57650036 ref NC_002951.2 :2563255-2563612	q1	q2	OK	9.2342	25.0246	1.43829	-2.05692	0.0396935	0.459329
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	q1	q2	OK	3335.71	697.257	-2.25823	3.50982	0.0004484	0.03217
gene2546	gene2546	SACOL2559	gi 57650036 ref NC_002951.2 :2617256-2617514	q1	q2	OK	79.1206	25.9027	-1.61095	2.44845	0.0143474	0.279274
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	q1	q2	OK	161.726	59.7885	-1.43561	2.23403	0.025481	0.368182
gene2555	gene2555	SACOL2568	gi 57650036 ref NC_002951.2 :2629954-2630122	q1	q2	OK	44.8521	0	-1.79769e+3	-1.79769e+3	0.0274133	0.380118
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	q1	q2	OK	49.5796	126.945	1.35639	-2.55652	0.0105726	0.23854
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	q1	q2	OK	57.7219	161.548	1.48477	-2.74248	0.0060978	0.157851
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	q1	q2	OK	31.7253	94.8103	1.57941	-3.06238	0.0021959	0.095066
gene2633	gene2633	SACOL2650	gi 57650036 ref NC_002951.2 :2709458-2709914	q1	q2	OK	65.7045	30.9656	-1.08533	2.10875	0.0349662	0.436145
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	q1	q2	OK	121.187	328.03	1.43659	-2.8764	0.0040224	0.12949
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	q1	q2	OK	1574.83	385.782	-2.02934	2.76706	0.0056564	0.151098
gene289	gene289	SACOL0300	gi 57650036 ref NC_002951.2 :334166-334565	q1	q2	OK	97.0981	44.623	-1.12165	2.21306	0.0268937	0.377263
gene348	gene348	SACOL0360	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	255.091	563.527	1.14347	-2.05691	0.0396951	0.459329
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	q1	q2	OK	130.453	33.9902	-1.94034	3.77787	0.0001582	0.018054
gene401	gene401	SACOL0413	gi 57650036 ref NC_002951.2 :419131-419677	q1	q2	OK	184.082	89.1776	-1.04559	2.0512	0.0402473	0.459368
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	q1	q2	OK	380.694	88.8306	-2.09951	4.1046	4.05E-05	0.008409
gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	q1	q2	OK	647.43	139.109	-2.21851	3.21928	0.0012851	0.062057
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	q1	q2	OK	741.716	277.036	-1.42079	2.83425	0.0045934	0.137671
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	q1	q2	OK	251.932	1000.18	1.98915	-2.40108	0.0163466	0.299437
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	q1	q2	OK	1751.16	6201.63	1.82434	-2.06564	0.0388626	0.454271
gene467	gene467	SACOL0480	gi 57650036 ref NC_002951.2 :482502-482811	q1	q2	OK	578.761	8212.11	3.82671	-4.3713	1.24E-05	0.005169
gene505	gene505	SACOL0519	gi 57650036 ref NC_002951.2 :524992-525517	q1	q2	OK	74.7301	30.9055	-1.27383	2.53692	0.0111834	0.246329
gene526	gene526	SACOL0537	gi 57650036 ref NC_002951.2 :546527-546791	q1	q2	OK	481.69	4276.39	3.15022	-4.07065	4.69E-05	0.008409

gene533	gene533	prsA	gi 57650036 ref NC_002951.2 :551400-552366	q1	q2	OK	321.052	111.597	-1.5245	2.0344	0.0419109	0.472836
gene540	gene540	SACOL0551	gi 57650036 ref NC_002951.2 :560544-560937	q1	q2	OK	289.29	143.343	-1.01304	2.0073	0.0447173	0.481552
gene541	gene541	SACOL0552	gi 57650036 ref NC_002951.2 :561041-561443	q1	q2	OK	778.195	160.979	-2.27325	3.48476	0.0004926	0.033219
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	q1	q2	OK	812920	179376	-2.18013	2.46493	0.0137041	0.270952
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	q1	q2	OK	478.115	71.438	-2.74259	3.55138	0.0003832	0.03007
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	q1	q2	OK	769.21	107.664	-2.83684	3.79799	0.0001459	0.017442
gene579	gene579	nusG	gi 57650036 ref NC_002951.2 :602755-603304	q1	q2	OK	309.249	123.465	-1.32467	2.29322	0.0218354	0.342403
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	q1	q2	OK	443.873	133.662	-1.73155	3.02779	0.0024635	0.09945
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	q1	q2	OK	326.406	103.658	-1.65484	2.5481	0.010831	0.240679
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	q1	q2	OK	488.483	120.063	-2.02451	3.20184	0.0013655	0.063706
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	q1	q2	OK	621.463	102.179	-2.60457	4.45311	8.46E-06	0.00425
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	q1	q2	OK	249.498	69.9485	-1.83466	3.39953	0.000675	0.040697
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	q1	q2	OK	949.256	231.523	-2.03564	2.8813	0.0039604	0.12949
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	q1	q2	OK	1082.9	221.078	-2.29228	2.96982	0.0029798	0.105384
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	q1	q2	OK	1168.91	228.806	-2.35297	2.28958	0.0220456	0.342403
gene596	gene596	SACOL0599	gi 57650036 ref NC_002951.2 :625311-626277	q1	q2	OK	372.698	97.4155	-1.93578	2.52986	0.0114109	0.247006
gene599	gene599	SACOL0602	gi 57650036 ref NC_002951.2 :627937-628621	q1	q2	OK	54.5662	112.905	1.04903	-2.11061	0.0348062	0.436145
gene631	gene631	eutD	gi 57650036 ref NC_002951.2 :665746-666733	q1	q2	OK	309.556	94.2145	-1.71618	2.32763	0.0199316	0.32851
gene632	gene632	SACOL0635	gi 57650036 ref NC_002951.2 :666735-667572	q1	q2	OK	211.357	81.0483	-1.38283	2.252	0.0243224	0.359256
gene666	gene666	SACOL0669	gi 57650036 ref NC_002951.2 :697383-697890	q1	q2	OK	815.531	174.52	-2.22435	3.01054	0.0026079	0.100744
gene667	gene667	SACOL0670	gi 57650036 ref NC_002951.2 :698051-698768	q1	q2	OK	200.684	77.7168	-1.36863	2.42092	0.0154811	0.288253
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	q1	q2	OK	41.0127	132.483	1.69166	-3.39079	0.0006969	0.040697
gene708	gene708	SACOL0713	gi 57650036 ref NC_002951.2 :738292-738721	q1	q2	OK	91.2239	41.8754	-1.12331	2.23003	0.0257452	0.369406
gene715	gene715	SACOL0721	gi 57650036 ref NC_002951.2 :745703-746321	q1	q2	OK	151.198	74.7325	-1.01664	2.00045	0.0454512	0.481552
gene747	gene747	SACOL0755	gi 57650036 ref NC_002951.2 :777421-777874	q1	q2	OK	102.654	797.407	2.95753	-4.32353	1.54E-05	0.005508
gene759	gene759	SACOL0768	gi 57650036 ref NC_002951.2 :790261-790702	q1	q2	OK	114.843	381.388	1.7316	-3.17037	0.0015225	0.069508
gene777	gene777	SACOL0788	gi 57650036 ref NC_002951.2 :811340-812846	q1	q2	OK	207.788	60.8623	-1.77149	2.33892	0.0193394	0.323741
gene780	gene780	SACOL0790.	gi 57650036 ref NC_002951.2 :814957-815224	q1	q2	OK	64.8777	164.508	1.34236	-2.50827	0.0121324	0.249708
gene801	gene801	SACOL0812	gi 57650036 ref NC_002951.2 :834989-835856	q1	q2	OK	224.799	92.3759	-1.28305	2.00297	0.0451809	0.481552
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	q1	q2	OK	105.692	298.135	1.4961	-2.274	0.0229661	0.343261
gene833	gene833	SACOL0843	gi 57650036 ref NC_002951.2 :871357-871816	q1	q2	OK	154.383	74.6593	-1.04812	2.13684	0.0326112	0.420136
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	q1	q2	OK	605.288	269.881	-1.1653	2.35495	0.0185251	0.315668
gene851	gene851	SACOL0861	gi 57650036 ref NC_002951.2 :888752-888953	q1	q2	OK	16060.6	4299.58	-1.90126	2.14715	0.0317815	0.419363

gene852	gene852	SACOL0862	gi 57650036 ref NC_002951.2 :889448-889667	q1	q2	OK	320.014	140.088	-1.1918	2.2224	0.0262563	0.372484
gene863	gene863	SACOL0874	gi 57650036 ref NC_002951.2 :896024-896564	q1	q2	OK	303.038	103.999	-1.54294	2.72138	0.0065009	0.16657
gene870	gene870	SACOL0882	gi 57650036 ref NC_002951.2 :900795-902509	q1	q2	OK	107.528	38.7344	-1.47302	2.02404	0.0429658	0.472836
gene875	gene875	sei	gi 57650036 ref NC_002951.2 :905551-906280	q1	q2	OK	18.998	41.3939	1.12357	-2.23354	0.0255132	0.368182
gene891	gene891	SACOL0903	gi 57650036 ref NC_002951.2 :914463-914682	q1	q2	OK	366.683	124.169	-1.56223	2.88594	0.0039024	0.12949
gene899	gene899	SACOL0911	gi 57650036 ref NC_002951.2 :918508-918806	q1	q2	OK	224.912	95.7591	-1.23188	1.97421	0.0483575	0.498616
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	q1	q2	OK	9232.35	46643.6	2.33691	-2.29229	0.0218889	0.342403
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	q1	q2	OK	635.261	49.2869	-3.68807	4.26837	1.97E-05	0.005709
gene92	gene92	sarS	gi 57650036 ref NC_002951.2 :109310-110063	q1	q2	OK	173.259	66.3185	-1.38545	2.51202	0.0120041	0.249708
gene932	gene932	SACOL0945	gi 57650036 ref NC_002951.2 :946749-948225	q1	q2	OK	42.9008	98.3706	1.19722	-2.00261	0.0452188	0.481552
gene987	gene987	trpS	gi 57650036 ref NC_002951.2 :1009157-1010147	q1	q2	OK	179.703	74.0431	-1.27918	2.04108	0.041243	0.468603
gene995	gene995	SACOL1009	gi 57650036 ref NC_002951.2 :1017426-1017774	q1	q2	OK	217.902	77.55	-1.49048	2.99171	0.0027742	0.101128
gene996	gene996	relA1	gi 57650036 ref NC_002951.2 :1017790-1018426	q1	q2	OK	214.956	84.0178	-1.35527	2.46189	0.0138206	0.271122

Supplementary Table S8. Differentially expressed genes in MU30 compared with M18C06, related to Figure 3b

test_id	gene_id	gene	locus	MU30	M18C06	status	FPKM(MU30)	FPKM(M18C06)	log2(fold change)	test_stat	p_value	q_value
gene1001	gene1001	fabI	gi 57650036 ref NC_002951.2 :1023640-1024411	q1	q2	OK	600.931	92.4728	-2.7001	2.32652	0.019991	0.517412
gene1024	gene1024	SACOL1038	gi 57650036 ref NC_002951.2 :1046940-1048905	q1	q2	OK	2.08526	32.6585	3.96916	-2.38339	0.017154	0.500083
gene1049	gene1049	SACOL1064	gi 57650036 ref NC_002951.2 :1072279-1072750	q1	q2	OK	1460.59	210.301	-2.79602	2.43272	0.014986	0.500083
gene1052	gene1052	qoxD	gi 57650036 ref NC_002951.2 :1076195-1076474	q1	q2	OK	3956.05	202.786	-4.28603	3.04759	0.002307	0.338293
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	q1	q2	OK	297.926	43.7036	-2.76913	1.99881	0.045629	0.650761
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	q1	q2	OK	367.823	56.3242	-2.70718	2.34167	0.019198	0.51462
gene1073	gene1073	SACOL1088	gi 57650036 ref NC_002951.2 :1098142-1099438	q1	q2	OK	731.402	120.032	-2.60724	2.20415	0.027514	0.604847
gene11	gene11	SACOL0012	gi 57650036 ref NC_002951.2 :16111-17101	q1	q2	OK	4.45937	70.1364	3.97525	-2.37007	0.017785	0.500083
gene1102	gene1102	SACOL1117	gi 57650036 ref NC_002951.2 :1127031-1127223	q1	q2	OK	741.562	39.0378	-4.24762	2.06292	0.03912	0.641477
gene1122	gene1122	rpmF	gi 57650036 ref NC_002951.2 :1145561-1145735	q1	q2	OK	6276.17	299.573	-4.38891	2.68959	0.007154	0.480028
gene1123	gene1123	isdB	gi 57650036 ref NC_002951.2 :1145888-1147826	q1	q2	OK	3.23945	36.4107	3.49054	-2.18925	0.028579	0.604847
gene1128	gene1128	SACOL1144	gi 57650036 ref NC_002951.2 :1151936-1152902	q1	q2	OK	0.575442	30.3436	5.72058	-2.78885	0.00529	0.446636
gene1129	gene1129	srtB	gi 57650036 ref NC_002951.2 :1152963-1153698	q1	q2	OK	0.835367	21.9951	4.71863	-2.21033	0.027082	0.604847
gene1139	gene1139	trxA	gi 57650036 ref NC_002951.2 :1165587-1165902	q1	q2	OK	4677.83	274.225	-4.09241	3.1213	0.001801	0.338293
gene1162	gene1162	SACOL1178	gi 57650036 ref NC_002951.2 :1182589-1183306	q1	q2	OK	3.46337	46.6584	3.75189	-1.96202	0.049761	0.677885
gene1164	gene1164	SACOL1180	gi 57650036 ref NC_002951.2 :1184233-1184959	q1	q2	OK	1.2755	30.9144	4.59915	-2.22331	0.026195	0.604847
gene1176	gene1176	mraZ	gi 57650036 ref NC_002951.2 :1195861-1196293	q1	q2	OK	809.716	120.326	-2.75047	2.1577	0.030951	0.604847
gene1221	gene1221	rpmB	gi 57650036 ref NC_002951.2 :1246739-1246928	q1	q2	OK	41441.2	1520.51	-4.76844	3.41754	0.000632	0.281629
gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	q1	q2	OK	2561.92	147.603	-4.11743	2.7226	0.006477	0.461354
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	q1	q2	OK	2204.82	100.991	-4.44837	3.10244	0.001919	0.338293
gene125	gene125	SACOL0129	gi 57650036 ref NC_002951.2 :144205-145750	q1	q2	OK	1.77815	69.247	5.2833	-3.13284	0.001731	0.338293
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	q1	q2	OK	708.198	89.9788	-2.9765	2.50684	0.012182	0.500083
gene1272	gene1272	rpsO	gi 57650036 ref NC_002951.2 :1305225-1305495	q1	q2	OK	3677.62	402.81	-3.1906	2.5487	0.010813	0.500083
gene1286	gene1286	SACOL1306	gi 57650036 ref NC_002951.2 :1323249-1323465	q1	q2	OK	10284.5	762.102	-3.75434	2.81767	0.004837	0.446636
gene129	gene129	SACOL0135	gi 57650036 ref NC_002951.2 :150450-153060	q1	q2	OK	2.50626	36.6016	3.8683	-2.47796	0.013214	0.500083
gene1297	gene1297	glpF	gi 57650036 ref NC_002951.2 :1336107-1336926	q1	q2	OK	520.915	78.5249	-2.72983	2.32388	0.020132	0.517412
gene1316	gene1316	SACOL1339	gi 57650036 ref NC_002951.2 :1352649-1353075	q1	q2	OK	1.05069	29.0865	4.79095	-2.15149	0.031437	0.604847
gene1325	gene1325	SACOL1349	gi 57650036 ref NC_002951.2 :1356181-1357207	q1	q2	OK	5.32413	65.1382	3.61289	-2.18658	0.028773	0.604847
gene1335	gene1335	SACOL1359	gi 57650036 ref NC_002951.2 :1364975-1365566	q1	q2	OK	420.916	73.9911	-2.50811	1.97709	0.048032	0.668955
gene1359	gene1359	mscL	gi 57650036 ref NC_002951.2 :1387829-1388192	q1	q2	OK	2048.35	196.187	-3.38416	2.66303	0.007744	0.480028

gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	q1	q2	OK	569.086	28.5863	-4.31525	2.00262	0.045218	0.650761
gene1380	gene1380	trpD	gi 57650036 ref NC_002951.2 :1416184-1417183	q1	q2	OK	4.13214	47.8813	3.5345	-2.01252	0.044165	0.650761
gene1444	gene1444	ebh	gi 57650036 ref NC_002951.2 :1479866-1511363	q1	q2	OK	4.84265	26.0745	2.42877	-2.04033	0.041317	0.643773
gene1445	gene1445	SACOL1475	gi 57650036 ref NC_002951.2 :1511760-1513152	q1	q2	OK	4.93608	50.229	3.34708	-2.09796	0.035909	0.626017
gene1446	gene1446	SACOL1476	gi 57650036 ref NC_002951.2 :1513308-1514631	q1	q2	OK	4.663	81.2457	4.12296	-2.60472	0.009195	0.498321
gene1447	gene1447	ilvA1	gi 57650036 ref NC_002951.2 :1514661-1515702	q1	q2	OK	3.39718	40.8615	3.58833	-1.99645	0.045884	0.650761
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	q1	q2	OK	477.206	58.8786	-3.0188	2.16082	0.03071	0.604847
gene1482	gene1482	hup	gi 57650036 ref NC_002951.2 :1552268-1552541	q1	q2	OK	33574.9	1985.51	-4.0798	3.3189	0.000904	0.281629
gene1497	gene1497	SACOL1530	gi 57650036 ref NC_002951.2 :1566820-1567898	q1	q2	OK	0.651827	29.1283	5.48179	-2.24389	0.02484	0.598406
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	q1	q2	OK	1789.06	166.587	-3.42485	2.05496	0.039883	0.641477
gene151	gene151	SACOL0157	gi 57650036 ref NC_002951.2 :174716-175229	q1	q2	OK	506.843	73.2335	-2.79096	2.11692	0.034267	0.621406
gene1519	gene1519	SACOL1553	gi 57650036 ref NC_002951.2 :1589707-1590079	q1	q2	OK	2065.1	320.197	-2.68918	2.37686	0.017461	0.500083
gene1545	gene1545	SACOL1579	gi 57650036 ref NC_002951.2 :1614543-1617039	q1	q2	OK	2.81999	32.1947	3.51306	-2.25315	0.02425	0.592692
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	q1	q2	OK	5893.29	331.367	-4.15257	2.17971	0.029279	0.604847
gene1598	gene1598	rpsU	gi 57650036 ref NC_002951.2 :1661780-1661957	q1	q2	OK	39632.5	649.809	-5.93052	3.74825	0.000178	0.14798
gene160	gene160	SACOL0166	gi 57650036 ref NC_002951.2 :191117-191612	q1	q2	OK	489.979	67.9835	-2.84946	2.12215	0.033825	0.620038
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	q1	q2	OK	2214.32	119.189	-4.21554	2.8015	0.005087	0.446636
gene1623	gene1623	SACOL1657	gi 57650036 ref NC_002951.2 :1685329-1686034	q1	q2	OK	0.887426	31.955	5.17027	-2.46539	0.013686	0.500083
gene1636	gene1636	SACOL1670	gi 57650036 ref NC_002951.2 :1698140-1698449	q1	q2	OK	1957.48	342.262	-2.51582	2.1565	0.031045	0.604847
gene164	gene164	rocD1	gi 57650036 ref NC_002951.2 :194969-196154	q1	q2	OK	1.77744	45.1091	4.66554	-2.59332	0.009505	0.499638
gene1658	gene1658	yajC	gi 57650036 ref NC_002951.2 :1726295-1726556	q1	q2	OK	943.994	89.089	-3.40546	2.16331	0.030518	0.604847
gene1665	gene1665	rpmA	gi 57650036 ref NC_002951.2 :1732530-1732815	q1	q2	OK	3177.65	405.961	-2.96855	2.47165	0.013449	0.500083
gene1671	gene1671	SACOL1706	gi 57650036 ref NC_002951.2 :1736339-1736624	q1	q2	OK	797.191	75.0256	-3.40947	2.19981	0.02782	0.604847
gene1689	gene1689	rpIT	gi 57650036 ref NC_002951.2 :1756408-1756765	q1	q2	OK	464.704	56.3337	-3.04424	2.0213	0.043248	0.650674
gene1707	gene1707	SACOL1744	gi 57650036 ref NC_002951.2 :1779633-1781285	q1	q2	OK	0.598164	15.8174	4.72483	-2.36799	0.017885	0.500083
gene1708	gene1708	pyk	gi 57650036 ref NC_002951.2 :1781925-1783683	q1	q2	OK	425.706	77.4538	-2.45845	2.10668	0.035146	0.621406
gene1716	gene1716	SACOL1753	gi 57650036 ref NC_002951.2 :1794539-1794953	q1	q2	OK	1170.93	78.5417	-3.89805	2.78488	0.005355	0.446636
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	q1	q2	OK	645.297	122.414	-2.39819	2.07564	0.037928	0.634589
gene1725	gene1725	SACOL1763	gi 57650036 ref NC_002951.2 :1802448-1803219	q1	q2	OK	15.9988	128.564	3.00645	-1.99257	0.046308	0.652239
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	q1	q2	OK	673.904	62.3284	-3.43458	2.56972	0.010178	0.500083
gene1732	gene1732	SACOL1770	gi 57650036 ref NC_002951.2 :1809353-1810097	q1	q2	OK	1.23138	34.8162	4.82141	-2.35262	0.018642	0.510701
gene1757	gene1757	SACOL1796	gi 57650036 ref NC_002951.2 :1844083-1844395	q1	q2	OK	1473.09	53.8261	-4.77439	3.10122	0.001927	0.338293
gene1767	gene1767	SACOL1806	gi 57650036 ref NC_002951.2 :1855596-1862157	q1	q2	OK	3.7076	34.5164	3.21872	-2.38895	0.016897	0.500083

gene1777	gene1777	putA	gi 57650036 ref NC_002951.2 :1871485-1872487	q1	q2	OK	343.841	73.1062	-2.23368	2.00199	0.045285	0.650761
gene1795	gene1795	SACOL1834	gi 57650036 ref NC_002951.2 :1887816-1889426	q1	q2	OK	0.308143	20.0575	6.0244	-2.97598	0.002921	0.346711
gene1823	gene1823	SACOL1864	gi 57650036 ref NC_002951.2 :1916576-1917296	q1	q2	OK	0.430305	58.7837	7.09391	-3.47549	0.00051	0.281629
gene1827	gene1827	spIB	gi 57650036 ref NC_002951.2 :1919937-1920660	q1	q2	OK	2.56632	59.0439	4.52401	-2.37801	0.017407	0.500083
gene1828	gene1828	spIA	gi 57650036 ref NC_002951.2 :1920784-1921501	q1	q2	OK	0.432921	53.7757	6.95671	-3.38241	0.000719	0.281629
gene1839	gene1839	lukD	gi 57650036 ref NC_002951.2 :1934670-1935654	q1	q2	OK	2.52819	61.8289	4.6121	-2.60721	0.009128	0.498321
gene1840	gene1840	lukE	gi 57650036 ref NC_002951.2 :1935655-1936591	q1	q2	OK	1.79902	33.9359	4.23753	-2.18526	0.02887	0.604847
gene1867	gene1867	SACOL1902	gi 57650036 ref NC_002951.2 :1957825-1958170	q1	q2	OK	1269.44	196.417	-2.6922	2.14547	0.031915	0.60736
gene190	gene190	SACOL0196	gi 57650036 ref NC_002951.2 :229970-231047	q1	q2	OK	4.00476	60.5968	3.91945	-2.32742	0.019943	0.517412
gene191	gene191	SACOL0197	gi 57650036 ref NC_002951.2 :231071-232112	q1	q2	OK	5.22643	57.3537	3.45599	-2.0677	0.038668	0.641477
gene1914	gene1914	SACOL1919	gi 57650036 ref NC_002951.2 :1982817-1983264	q1	q2	OK	1797.7	364.874	-2.30068	2.05587	0.039795	0.641477
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	q1	q2	OK	1911.6	182.137	-3.39169	2.44879	0.014334	0.500083
gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	q1	q2	OK	297.422	64.3008	-2.2096	1.98432	0.04722	0.66135
gene1964	gene1964	sspB2	gi 57650036 ref NC_002951.2 :2034318-2035485	q1	q2	OK	0.905678	24.3622	4.7495	-2.3857	0.017047	0.500083
gene1976	gene1976	ppaC	gi 57650036 ref NC_002951.2 :2045556-2046486	q1	q2	OK	492.583	89.0548	-2.4676	2.1851	0.028882	0.604847
gene1981	gene1981	SACOL1987	gi 57650036 ref NC_002951.2 :2050676-2050850	q1	q2	OK	4950.99	178.124	-4.79676	2.78372	0.005374	0.446636
gene2001	gene2001	SACOL2010	gi 57650036 ref NC_002951.2 :2069986-2070898	q1	q2	OK	1.55145	48.813	4.97557	-2.61574	0.008903	0.498321
gene2005	gene2005	SACOL2014	gi 57650036 ref NC_002951.2 :2074522-2075113	q1	q2	OK	2.90688	49.1549	4.07979	-2.04534	0.040821	0.643773
gene2006	gene2006	SACOL2015	gi 57650036 ref NC_002951.2 :2075454-2075929	q1	q2	OK	0.848615	24.9342	4.87687	-2.19321	0.028292	0.604847
gene2013	gene2013	hld	gi 57650036 ref NC_002951.2 :2082767-2082902	q1	q2	OK	4326.1	80.7366	-5.7437	2.58881	0.009631	0.499638
gene2021	gene2021	SACOL2031	gi 57650036 ref NC_002951.2 :2089984-2091235	q1	q2	OK	1.45535	41.4324	4.83132	-2.65655	0.007895	0.480028
gene2023	gene2023	SACOL2034	gi 57650036 ref NC_002951.2 :2091725-2092805	q1	q2	OK	6.98379	65.5743	3.23105	-2.02667	0.042696	0.64903
gene2060	gene2060	kdpB	gi 57650036 ref NC_002951.2 :2129727-2131755	q1	q2	OK	5.56385	51.065	3.19818	-2.16566	0.030337	0.604847
gene2061	gene2061	kdpA	gi 57650036 ref NC_002951.2 :2131773-2133450	q1	q2	OK	2.49847	41.7098	4.06127	-2.4518	0.014214	0.500083
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	q1	q2	OK	285.486	52.097	-2.45415	2.17041	0.029976	0.604847
gene2069	gene2069	SACOL2076	gi 57650036 ref NC_002951.2 :2143706-2143844	q1	q2	OK	87731.3	9073.56	-3.27335	2.52426	0.011594	0.500083
gene2086	gene2086	atpC	gi 57650036 ref NC_002951.2 :2156714-2157119	q1	q2	OK	1104.48	110.226	-3.32483	2.4962	0.012553	0.500083
gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	q1	q2	OK	1011.27	51.5762	-4.29332	2.58209	0.00982	0.499638
gene2119	gene2119	SACOL2127	gi 57650036 ref NC_002951.2 :2188519-2188870	q1	q2	OK	677.531	102.245	-2.72825	1.97185	0.048626	0.673473
gene2130	gene2130	SACOL2138	gi 57650036 ref NC_002951.2 :2198603-2199584	q1	q2	OK	269.332	41.1536	-2.71029	2.15028	0.031533	0.604847
gene2132	gene2132	SACOL2140	gi 57650036 ref NC_002951.2 :2199793-2200941	q1	q2	OK	1039.47	145.19	-2.83984	2.36452	0.018054	0.500083
gene2137	gene2137	glmS	gi 57650036 ref NC_002951.2 :2206326-2208132	q1	q2	OK	359.337	48.5472	-2.88788	2.48065	0.013114	0.500083
gene2142	gene2142	fmtB	gi 57650036 ref NC_002951.2 :2214388-2221825	q1	q2	OK	2.81316	34.7171	3.62538	-2.61161	0.009012	0.498321

gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	q1	q2	OK	374.626	41.3615	-3.17909	2.45501	0.014088	0.500083
gene217	gene217	SACOL0224	gi 57650036 ref NC_002951.2 :263522-265052	q1	q2	OK	5.2322	56.2966	3.42756	-2.21413	0.02682	0.604847
gene2173	gene2173	SACOL2172	gi 57650036 ref NC_002951.2 :2253785-2255410	q1	q2	OK	0.762111	22.4857	4.88286	-2.542	0.011022	0.500083
gene219	gene219	SACOL0228	gi 57650036 ref NC_002951.2 :266687-269236	q1	q2	OK	2.50843	27.9233	3.47661	-2.0285	0.042509	0.649031
gene2199	gene2199	budA1	gi 57650036 ref NC_002951.2 :2279671-2280376	q1	q2	OK	2.21856	37.0112	4.06026	-2.03043	0.042313	0.649031
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	q1	q2	OK	1206.1	96.1911	-3.6483	2.66329	0.007738	0.480028
gene221	gene221	SACOL0230	gi 57650036 ref NC_002951.2 :269258-269537	q1	q2	OK	2.9413	76.3171	4.69748	-2.11402	0.034513	0.621406
gene2225	gene2225	rplF	gi 57650036 ref NC_002951.2 :2299851-2300388	q1	q2	OK	652.796	112.994	-2.53039	2.11157	0.034723	0.621406
gene2234	gene2234	rpsC	gi 57650036 ref NC_002951.2 :2303292-2303946	q1	q2	OK	570.733	116.1	-2.29745	2.0406	0.04129	0.643773
gene2237	gene2237	rplB	gi 57650036 ref NC_002951.2 :2304696-2305530	q1	q2	OK	605.047	111.588	-2.43887	2.16646	0.030276	0.604847
gene226	gene226	SACOL0235	gi 57650036 ref NC_002951.2 :272267-273311	q1	q2	OK	5.46768	67.7017	3.63019	-2.21815	0.026545	0.604847
gene2273	gene2273	SACOL2275	gi 57650036 ref NC_002951.2 :2335922-2336477	q1	q2	OK	10.3115	125.69	3.60754	-2.10927	0.034922	0.621406
gene2307	gene2307	SACOL2309	gi 57650036 ref NC_002951.2 :2371101-2372481	q1	q2	OK	504.456	101.024	-2.32004	2.00511	0.044952	0.650761
gene2331	gene2331	SACOL2333	gi 57650036 ref NC_002951.2 :2394888-2395215	q1	q2	OK	11.6329	367.788	4.98259	-2.76267	0.005733	0.446636
gene2378	gene2378	SACOL2382	gi 57650036 ref NC_002951.2 :2441382-2442660	q1	q2	OK	513.145	97.9896	-2.38866	2.07893	0.037624	0.634426
gene2381	gene2381	SACOL2385	gi 57650036 ref NC_002951.2 :2444266-2444695	q1	q2	OK	720.832	101.207	-2.83236	2.15831	0.030903	0.604847
gene2394	gene2394	nirB	gi 57650036 ref NC_002951.2 :2458509-2460915	q1	q2	OK	4.11079	48.6552	3.5651	-2.38598	0.017034	0.500083
gene2419	gene2419	bioW	gi 57650036 ref NC_002951.2 :2482516-2483209	q1	q2	OK	2.27528	49.6806	4.44857	-2.26786	0.023337	0.582014
gene2422	gene2422	bioA	gi 57650036 ref NC_002951.2 :2485321-2487344	q1	q2	OK	2.44571	38.3469	3.97079	-2.1975	0.027985	0.604847
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	q1	q2	OK	3.11129	32.7547	3.39611	-2.055	0.03988	0.641477
gene2426	gene2426	SACOL2431	gi 57650036 ref NC_002951.2 :2489553-2491317	q1	q2	OK	1.66402	31.2648	4.2318	-2.43852	0.014747	0.500083
gene2467	gene2467	SACOL2477	gi 57650036 ref NC_002951.2 :2533932-2535147	q1	q2	OK	1.07729	23.6387	4.45568	-2.26498	0.023514	0.582014
gene2469	gene2469	SACOL2479	gi 57650036 ref NC_002951.2 :2536055-2536877	q1	q2	OK	0.713916	23.7939	5.05869	-2.39939	0.016422	0.500083
gene251	gene251	SACOL0261	gi 57650036 ref NC_002951.2 :298737-300114	q1	q2	OK	4.81508	48.737	3.33939	-2.0785	0.037664	0.634426
gene2518	gene2518	SACOL2530	gi 57650036 ref NC_002951.2 :2592084-2593053	q1	q2	OK	4.29844	71.8751	4.06361	-2.41052	0.01593	0.500083
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	q1	q2	OK	15413.5	556.962	-4.79047	3.35227	0.000802	0.281629
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	q1	q2	OK	374.736	45.3341	-3.04721	2.08167	0.037373	0.634426
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	q1	q2	OK	266.949	47.7584	-2.48273	2.12504	0.033584	0.620038
gene2551	gene2551	feoB	gi 57650036 ref NC_002951.2 :2624246-2626241	q1	q2	OK	3.37639	45.4664	3.75125	-2.39863	0.016456	0.500083
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	q1	q2	OK	1.50798	24.8155	4.04056	-2.41135	0.015894	0.500083
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	q1	q2	OK	1013.87	129.043	-2.97396	2.55302	0.010679	0.500083
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	q1	q2	OK	4031.85	301.461	-3.7414	3.06179	0.0022	0.338293
gene2638	gene2638	arcD	gi 57650036 ref NC_002951.2 :2715887-2717318	q1	q2	OK	3.00752	61.5229	4.35448	-2.65788	0.007863	0.480028

gene2639	gene2639	arcB2	gi 57650036 ref NC_002951.2 :2717408-2718419	q1	q2	OK	1.62767	41.3211	4.666	-2.47082	0.01348	0.500083
gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	q1	q2	OK	0.632964	32.0935	5.66401	-2.88093	0.003965	0.429773
gene2642	gene2642	aur	gi 57650036 ref NC_002951.2 :2720849-2722379	q1	q2	OK	0.163506	8.46802	5.69461	-2.62025	0.008787	0.498321
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	q1	q2	OK	3539.56	413.053	-3.09917	2.12497	0.033589	0.620038
gene2715	gene2715	SACOL2733	gi 57650036 ref NC_002951.2 :2802290-2802671	q1	q2	OK	2.67716	208.76	6.285	-3.21409	0.001309	0.338293
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	q1	q2	OK	6554.64	308.159	-4.41077	2.15019	0.03154	0.604847
gene278	gene278	SACOL0288	gi 57650036 ref NC_002951.2 :326985-327481	q1	q2	OK	1.56722	32.029	4.3531	-2.01804	0.043587	0.650674
gene304	gene304	SACOL0316	gi 57650036 ref NC_002951.2 :351028-352342	q1	q2	OK	1.56716	47.249	4.91406	-2.77702	0.005486	0.446636
gene348	gene348	SACOL0360	gi 57650036 ref NC_002951.2 :371564-372307	q1	q2	OK	8.39935	450.14	5.74395	-2.01035	0.044394	0.650761
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	q1	q2	OK	3.57366	77.2752	4.43453	-2.37865	0.017376	0.500083
gene365	gene365	SACOL0377	gi 57650036 ref NC_002951.2 :381858-382209	q1	q2	OK	1.62477	50.1817	4.94885	-2.24197	0.024964	0.598407
gene367	gene367	SACOL0379	gi 57650036 ref NC_002951.2 :382422-389447	q1	q2	OK	3.07325	40.671	3.72616	-2.3797	0.017327	0.500083
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	1.39247	45.9646	5.04481	-2.7676	0.005647	0.446636
gene377	gene377	SACOL0389	gi 57650036 ref NC_002951.2 :396061-397516	q1	q2	OK	1.04079	43.1753	5.37446	-2.98826	0.002806	0.346711
gene393	gene393	SACOL0405	gi 57650036 ref NC_002951.2 :411373-412729	q1	q2	OK	3.58397	59.7832	4.06011	-2.49153	0.012719	0.500083
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	q1	q2	OK	700.035	70.9569	-3.30241	2.13832	0.032491	0.613628
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	q1	q2	OK	1650.31	221.293	-2.8987	2.03027	0.042329	0.649031
gene428	gene428	SACOL0441	gi 57650036 ref NC_002951.2 :445050-445598	q1	q2	OK	1.97506	117.688	5.89693	-3.07387	0.002113	0.338293
gene448	gene448	guaA	gi 57650036 ref NC_002951.2 :463766-465308	q1	q2	OK	599.628	118.361	-2.34088	1.96522	0.049389	0.676522
gene456	gene456	SACOL0469	gi 57650036 ref NC_002951.2 :471322-472018	q1	q2	OK	3.16516	68.529	4.43636	-2.37724	0.017443	0.500083
gene457	gene457	SACOL0470	gi 57650036 ref NC_002951.2 :472308-473367	q1	q2	OK	0.511382	76.1868	7.219	-3.82775	0.000129	0.14798
gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	q1	q2	OK	0.91102	111.129	6.93053	-3.76192	0.000169	0.14798
gene460	gene460	SACOL0473	gi 57650036 ref NC_002951.2 :475037-475736	q1	q2	OK	0.449313	26.1884	5.86507	-2.72327	0.006464	0.461354
gene461	gene461	SACOL0474	gi 57650036 ref NC_002951.2 :476101-476785	q1	q2	OK	2.31976	38.1401	4.03926	-2.01845	0.043544	0.650674
gene478	gene478	SACOL0491	gi 57650036 ref NC_002951.2 :491047-492250	q1	q2	OK	3.05336	67.5053	4.46653	-2.6723	0.007533	0.480028
gene493	gene493	SACOL0508	gi 57650036 ref NC_002951.2 :509123-509393	q1	q2	OK	512.033	39.5617	-3.69406	2.07894	0.037622	0.634426
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	q1	q2	OK	7.14281	59.0685	3.04783	-2.34432	0.019062	0.51462
gene508	gene508	recR	gi 57650036 ref NC_002951.2 :527696-528293	q1	q2	OK	470.215	90.5121	-2.37714	1.96607	0.049291	0.676522
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	q1	q2	OK	2062.58	154.65	-3.73737	3.10445	0.001906	0.338293
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	q1	q2	OK	641.238	106.768	-2.58638	1.99876	0.045635	0.650761
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	q1	q2	OK	1165.85	82.801	-3.81559	2.98064	0.002876	0.346711
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	q1	q2	OK	1543.84	81.6196	-4.24146	2.95916	0.003085	0.349558
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	q1	q2	OK	1560.12	184.938	-3.07654	2.53299	0.01131	0.500083

gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	q1	q2	OK	2363.33	176.595	-3.74231	3.02857	0.002457	0.340313
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	q1	q2	OK	1136.3	182.768	-2.63626	2.04442	0.040912	0.643773
gene591	gene591	tuf	gi 57650036 ref NC_002951.2 :618157-619342	q1	q2	OK	2226.03	370.358	-2.58748	1.99592	0.045942	0.650761
gene605	gene605	sdrC	gi 57650036 ref NC_002951.2 :632578-635422	q1	q2	OK	5.46158	42.7911	2.96992	-2.09997	0.035731	0.626017
gene618	gene618	SACOL0621	gi 57650036 ref NC_002951.2 :654745-656122	q1	q2	OK	2.40754	31.6658	3.71729	-2.08734	0.036857	0.634426
gene648	gene648	SACOL0651	gi 57650036 ref NC_002951.2 :681032-681662	q1	q2	OK	1.05119	22.6709	4.43074	-2.05518	0.039862	0.641477
gene738	gene738	norR	gi 57650036 ref NC_002951.2 :767868-768312	q1	q2	OK	1262.2	223.944	-2.49474	2.21726	0.026605	0.604847
gene75	gene75	plc	gi 57650036 ref NC_002951.2 :88186-89173	q1	q2	OK	1.95864	32.9662	4.07306	-2.12425	0.033649	0.620038
gene750	gene750	fruK	gi 57650036 ref NC_002951.2 :778779-780461	q1	q2	OK	1.53143	82.271	5.74743	-2.45474	0.014099	0.500083
gene777	gene777	SACOL0788	gi 57650036 ref NC_002951.2 :811340-812846	q1	q2	OK	332.299	48.6162	-2.77297	2.39462	0.016638	0.500083
gene783	gene783	nrdF	gi 57650036 ref NC_002951.2 :817957-818929	q1	q2	OK	1385.4	245.32	-2.49756	2.05187	0.040183	0.642147
gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	q1	q2	OK	7.14825	85.2952	3.5768	-2.37428	0.017583	0.500083
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	q1	q2	OK	2102.47	215.578	-3.2858	2.26391	0.023579	0.582014
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	q1	q2	OK	2.86232	68.8006	4.58716	-2.29974	0.021463	0.545995
gene847	gene847	SACOL0857	gi 57650036 ref NC_002951.2 :883664-885191	q1	q2	OK	1.80271	33.3976	4.21151	-2.38726	0.016974	0.500083
gene851	gene851	SACOL0861	gi 57650036 ref NC_002951.2 :888752-888953	q1	q2	OK	25216	3434.46	-2.87618	2.47916	0.013169	0.500083
gene97	gene97	SACOL0101	gi 57650036 ref NC_002951.2 :114649-115648	q1	q2	OK	0.550952	27.1759	5.62426	-2.7293	0.006347	0.461354
gene972	gene972	SACOL0986	gi 57650036 ref NC_002951.2 :994275-994461	q1	q2	OK	3505.05	251.56	-3.80046	2.32748	0.01994	0.517412
gene982	gene982	SACOL0996	gi 57650036 ref NC_002951.2 :1003532-1005248	q1	q2	OK	1.14503	34.5171	4.91386	-2.77445	0.005529	0.446636
gene983	gene983	SACOL0997	gi 57650036 ref NC_002951.2 :1005298-1006285	q1	q2	OK	0.839418	28.632	5.0921	-2.51179	0.012012	0.500083
gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	q1	q2	OK	1.39903	27.844	4.31487	-2.17972	0.029278	0.604847

Supplementary Table S9. Differentially expressed genes in MR150 compared with M36C05, related to Figure 3c

test_id	gene_id	gene	locus	MR150	M36C05	status	FPKM(MR150)	FPKM(M36C05)	log2(fold_change)	test_stat	p_value	q_value
gene1019	gene1019	SACOL1033	gi 57650036 ref NC_002951.2 :1043318-1043537	q1	q2	OK	573.859	3799.56	2.72706	-3.42381	0.0006175	0.0238979
gene1024	gene1024	SACOL1038	gi 57650036 ref NC_002951.2 :1046940-1048905	q1	q2	OK	0.607478	2.06056	1.76213	-2.28506	0.0223091	0.282751
gene1025	gene1025	SACOL1039	gi 57650036 ref NC_002951.2 :1048907-1049866	q1	q2	OK	0	7.84452	1.79769e+308	1.79769e+308	0.0450201	0.415575
gene1028	gene1028	SACOL1042	gi 57650036 ref NC_002951.2 :1050522-1050810	q1	q2	OK	21.8659	5.61968	-1.96012	2.26297	0.0236373	0.292955
gene1029	gene1029	SACOL1043	gi 57650036 ref NC_002951.2 :1050815-1052297	q1	q2	OK	34.2875	7.39445	-2.21317	3.08748	0.0020186	0.057876
gene1030	gene1030	SACOL1044	gi 57650036 ref NC_002951.2 :1052385-1052742	q1	q2	OK	87.0651	22.117	-1.97694	2.84223	0.0044799	0.0988909
gene1045	gene1045	SACOL1059	gi 57650036 ref NC_002951.2 :1065903-1066914	q1	q2	OK	7.93042	23.5229	1.56859	-2.27625	0.0228309	0.287725
gene1051	gene1051	SACOL1066	gi 57650036 ref NC_002951.2 :1074465-1075659	q1	q2	OK	30.9681	8.09686	-1.93535	2.75462	0.005876	0.119116
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	q1	q2	OK	0	343.556	1.79769e+308	1.79769e+308	0.0094397	0.161634
gene1075	gene1075	SACOL1090	gi 57650036 ref NC_002951.2 :1101088-1101631	q1	q2	OK	37.4748	246.264	2.71621	-3.6304	0.000283	0.0128802
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	q1	q2	OK	9.00114	1.62379	-2.47075	2.89333	0.0038118	0.0910432
gene1096	gene1096	SACOL1111	gi 57650036 ref NC_002951.2 :1119984-1121867	q1	q2	OK	13.842	49.833	1.84805	-2.32458	0.0200945	0.261084
gene110	gene110	SACOL0114	gi 57650036 ref NC_002951.2 :127489-129116	q1	q2	OK	0	1.34297	1.79769e+308	1.79769e+308	0.0285672	0.321026
gene1103	gene1103	typA	gi 57650036 ref NC_002951.2 :1127324-1129172	q1	q2	OK	93.3141	23.8749	-1.9666	2.43626	0.01484	0.211829
gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	q1	q2	OK	204.772	66.5594	-1.62131	2.21977	0.0264341	0.309053
gene1116	gene1116	SACOL1131	gi 57650036 ref NC_002951.2 :1141854-1142109	q1	q2	OK	40.9563	12.3668	-1.72761	2.16794	0.0301635	0.330747
gene1117	gene1117	SACOL1132	gi 57650036 ref NC_002951.2 :1142111-1142501	q1	q2	OK	23.9751	5.77234	-2.05431	2.68989	0.0071475	0.136826
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	q1	q2	OK	247.933	64.1493	-1.95045	2.56498	0.0103182	0.171267
gene1136	gene1136	SACOL1152	gi 57650036 ref NC_002951.2 :1160750-1161272	q1	q2	OK	124.015	34.9783	-1.82598	2.55852	0.0105119	0.172504
gene114	gene114	sodA1	gi 57650036 ref NC_002951.2 :133398-133998	q1	q2	OK	248.338	62.9228	-1.98065	2.57567	0.0100047	0.167602
gene1152	gene1152	efb	gi 57650036 ref NC_002951.2 :1176733-1177231	q1	q2	OK	180.68	57.8039	-1.64419	2.25138	0.0243614	0.296308
gene1153	gene1153	SACOL1169	gi 57650036 ref NC_002951.2 :1177384-1177735	q1	q2	OK	336.183	69.4914	-2.27434	3.14222	0.0016767	0.0507715
gene1154	gene1154	SACOL1170	gi 57650036 ref NC_002951.2 :1178160-1178406	q1	q2	OK	0	10.2897	1.79769e+308	1.79769e+308	0.0141027	0.204943
gene1156	gene1156	SACOL1172	gi 57650036 ref NC_002951.2 :1179363-1179597	q1	q2	OK	86.6392	30.0025	-1.52994	2.08922	0.0366877	0.368762
gene1165	gene1165	arcB1	gi 57650036 ref NC_002951.2 :1185396-1186398	q1	q2	OK	1.14563	4.67492	2.02881	-2.58267	0.0098039	0.16462
gene1167	gene1167	SACOL1183	gi 57650036 ref NC_002951.2 :1187524-1189081	q1	q2	OK	2.14449	11.453	2.41702	-3.43746	0.0005872	0.0229705
gene1179	gene1179	pbp1	gi 57650036 ref NC_002951.2 :1197272-1199874	q1	q2	OK	56.4529	11.6971	-2.2709	2.45618	0.0140425	0.204943
gene1180	gene1180	mraY	gi 57650036 ref NC_002951.2 :1200165-1201131	q1	q2	OK	35.9832	5.75868	-2.64351	3.74746	0.0001786	0.0092341

gene1181	gene1181	murD	gi 57650036 ref NC_002951.2 :1201132-1202482	q1	q2	OK	49.6751	9.29829	-2.41749	3.3213	0.000896	0.0319428
gene1191	gene1191	ileS	gi 57650036 ref NC_002951.2 :1210895-1213649	q1	q2	OK	77.4304	14.0221	-2.4652	3.01934	0.0025333	0.0691808
gene1194	gene1194	SACOL1209	gi 57650036 ref NC_002951.2 :1215559-1216968	q1	q2	OK	42.866	13.2099	-1.69822	2.12351	0.0337108	0.351535
gene1195	gene1195	pyrR	gi 57650036 ref NC_002951.2 :1217367-1217895	q1	q2	OK	112.423	32.6549	-1.78356	2.51148	0.0120227	0.187518
gene1196	gene1196	uraA	gi 57650036 ref NC_002951.2 :1218112-1219420	q1	q2	OK	72.0145	9.05405	-2.99165	4.02214	5.77E-05	0.0035981
gene1197	gene1197	pyrB	gi 57650036 ref NC_002951.2 :1219447-1220329	q1	q2	OK	118.993	10.1885	-3.54587	4.75778	1.96E-06	0.0001995
gene1198	gene1198	pyrC	gi 57650036 ref NC_002951.2 :1220346-1221621	q1	q2	OK	130.498	15.8955	-3.03734	3.89885	9.67E-05	0.0055513
gene1199	gene1199	carA	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	102.49	8.4439	-3.60143	2.02169	0.0432087	0.407214
gene1200	gene1200	carB	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	107.343	8.48446	-3.66125	3.79198	0.0001495	0.0081058
gene1201	gene1201	pyrF	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	92.8457	9.62462	-3.27003	3.58776	0.0003335	0.0147179
gene1202	gene1202	pyrE	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	71.3305	3.75093	-4.2492	3.19319	0.0014071	0.0444683
gene1217	gene1217	SACOL1232	gi 57650036 ref NC_002951.2 :1241228-1243963	q1	q2	OK	84.3085	22.7169	-1.89191	2.10597	0.0352073	0.358866
gene1223	gene1223	SACOL1240	gi 57650036 ref NC_002951.2 :1247759-1249406	q1	q2	OK	118.34	37.705	-1.65011	2.00218	0.0452656	0.41665
gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	q1	q2	OK	1173.82	298.025	-1.97771	2.6816	0.007327	0.137988
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	q1	q2	OK	280.055	57.5055	-2.28394	3.26711	0.0010865	0.0364367
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	q1	q2	OK	802.277	148.296	-2.43562	3.13004	0.0017479	0.0524863
gene1246	gene1246	eprH	gi 57650036 ref NC_002951.2 :1274120-1275365	q1	q2	OK	5.27594	1.68797	-1.64414	2.26456	0.0235394	0.292706
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	q1	q2	OK	279.106	59.3596	-2.23326	2.78187	0.0054047	0.113604
gene1260	gene1260	cdsA	gi 57650036 ref NC_002951.2 :1289006-1289789	q1	q2	OK	62.5025	15.1379	-2.04575	2.8847	0.0039179	0.0922789
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	q1	q2	OK	104.127	30.0891	-1.79104	2.5922	0.0095364	0.161634
gene1270	gene1270	truB	gi 57650036 ref NC_002951.2 :1303207-1304125	q1	q2	OK	11.5163	39.7832	1.78849	-2.55629	0.0105796	0.173222
gene128	gene128	SACOL0134	gi 57650036 ref NC_002951.2 :149516-150001	q1	q2	OK	0.536604	3.48667	2.69992	-2.05792	0.0395981	0.387684
gene1287	gene1287	SACOL1307	gi 57650036 ref NC_002951.2 :1323638-1324436	q1	q2	OK	95.5	32.4669	-1.55653	2.11807	0.0341695	0.353769
gene1295	gene1295	mutL	gi 57650036 ref NC_002951.2 :1333085-1335095	q1	q2	OK	21.0717	7.00213	-1.58944	2.23018	0.0257352	0.304771
gene1296	gene1296	glpP	gi 57650036 ref NC_002951.2 :1335100-1335643	q1	q2	OK	16.5068	4.82871	-1.77335	2.43038	0.0150831	0.214453
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	q1	q2	OK	2.61118	262.128	6.64942	-8.02718	8.88E-16	6.43E-12
gene1305	gene1305	SACOL1327	gi 57650036 ref NC_002951.2 :1344713-1345952	q1	q2	OK	23.8788	5.72983	-2.05916	2.95419	0.0031349	0.0801678
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	q1	q2	OK	0.94303	124.852	7.04869	-7.76014	8.44E-15	2.09E-11
gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	q1	q2	OK	1.08391	95.2877	6.45798	-7.49227	6.77E-14	7.00E-11
gene1323	gene1323	SACOL1347	gi 57650036 ref NC_002951.2 :1355093-1355435	q1	q2	OK	3.14579	18.181	2.53094	-2.85511	0.0043023	0.0972982
gene1326	gene1326	SACOL1350	gi 57650036 ref NC_002951.2 :1357476-1357674	q1	q2	OK	83.5971	26.0908	-1.67991	2.05475	0.0399033	0.389112
gene133	gene133	cap5D	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	1.60336	85.9854	5.74492	-6.08734	1.15E-09	3.96E-07
gene134	gene134	cap5E	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	1.47777	57.9945	5.29442	-3.48321	0.0004954	0.0200306

gene1344	gene1344	kataA	gi 57650036 ref NC_002951.2 :1373895-1375317	q1	q2	OK	537.176	2052.29	1.93377	-2.01756	0.0436367	0.40838
gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	q1	q2	OK	1.51458	47.6174	4.9745	-6.43694	1.22E-10	5.19E-08
gene1351	gene1351	SACOL1375	gi 57650036 ref NC_002951.2 :1379597-1379831	q1	q2	OK	363.326	104.009	-1.80456	2.61015	0.0090503	0.157446
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	q1	q2	OK	484.291	80.0577	-2.59676	3.67522	0.0002376	0.0111637
gene1356	gene1356	SACOL1380	gi 57650036 ref NC_002951.2 :1383013-1383481	q1	q2	OK	44.4936	12.3565	-1.84833	2.65568	0.0079148	0.14471
gene1357	gene1357	sbcd	gi 57650036 ref NC_002951.2 :1383604-1384726	q1	q2	OK	8.96923	3.34839	-1.42152	2.03924	0.0414261	0.396038
gene1358	gene1358	sbcc	gi 57650036 ref NC_002951.2 :1384729-1387759	q1	q2	OK	10.9881	3.73784	-1.55566	2.21201	0.0269662	0.309278
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	q1	q2	OK	2.15226	38.3815	4.15649	-5.59662	2.19E-08	4.52E-06
gene1360	gene1360	opuD1	gi 57650036 ref NC_002951.2 :1388395-1390042	q1	q2	OK	232.869	23.7656	-3.29257	3.91358	9.09E-05	0.0052649
gene1363	gene1363	SACOL1387	gi 57650036 ref NC_002951.2 :1394492-1394789	q1	q2	OK	59.3894	174.279	1.55312	-2.25528	0.0241158	0.294807
gene1367	gene1367	SACOL1392	gi 57650036 ref NC_002951.2 :1400621-1402097	q1	q2	OK	75.3791	21.7694	-1.79186	2.326	0.0200188	0.260836
gene1372	gene1372	msrA	gi 57650036 ref NC_002951.2 :1407981-1408491	q1	q2	OK	24.1811	63.4037	1.39069	-2.01952	0.0434331	0.40838
gene1374	gene1374	dmpI	gi 57650036 ref NC_002951.2 :1409698-1409884	q1	q2	OK	314.174	104.259	-1.5914	2.24332	0.0248763	0.299551
gene1378	gene1378	trpE	gi 57650036 ref NC_002951.2 :1414209-1416179	q1	q2	OK	0.761339	2.83118	1.89479	-2.20728	0.0272948	0.312057
gene1402	gene1402	SACOL1427	gi 57650036 ref NC_002951.2 :1438139-1439741	q1	q2	OK	28.2947	9.51279	-1.57259	2.20008	0.0278013	0.315942
gene141	gene141	cap5L	gi 57650036 ref NC_002951.2 :164774-165980	q1	q2	OK	0.913399	11.6167	3.66881	-4.72359	2.32E-06	0.0002266
gene1417	gene1417	SACOL1442	gi 57650036 ref NC_002951.2 :1452884-1453277	q1	q2	OK	0	1.70581	1.79769e+308	1.79769e+308	0.0351354	0.35865
gene1418	gene1418	brnQ3	gi 57650036 ref NC_002951.2 :1453629-1454973	q1	q2	OK	11.1117	4.23992	-1.38997	2.02275	0.0430992	0.407192
gene142	gene142	cap5M	gi 57650036 ref NC_002951.2 :165990-167435	q1	q2	OK	1.70988	10.7944	2.65831	-2.01301	0.0441134	0.409293
gene1426	gene1426	arlR	gi 57650036 ref NC_002951.2 :1464054-1466066	q1	q2	OK	17.6373	119.478	2.76005	-2.63449	0.0084264	0.150573
gene143	gene143	cap5N	gi 57650036 ref NC_002951.2 :165990-167435	q1	q2	OK	2.44814	10.901	2.15471	-2.52491	0.0115728	0.183265
gene144	gene144	cap5O	gi 57650036 ref NC_002951.2 :167488-168751	q1	q2	OK	3.02553	10.8896	1.84769	-2.65239	0.0079924	0.14471
gene1440	gene1440	SACOL1467	gi 57650036 ref NC_002951.2 :1477722-1477917	q1	q2	OK	22.3723	75.7799	1.7601	-2.06486	0.0389359	0.38357
gene1442	gene1442	SACOL1469	gi 57650036 ref NC_002951.2 :1478930-1479062	q1	q2	OK	0	318.311	1.79769e+308	1.79769e+308	0.0141027	0.204943
gene1446	gene1446	SACOL1476	gi 57650036 ref NC_002951.2 :1513308-1514631	q1	q2	OK	2.31843	9.81651	2.08206	-2.95748	0.0031016	0.0795967
gene1447	gene1447	ilvA1	gi 57650036 ref NC_002951.2 :1514661-1515702	q1	q2	OK	1.82087	6.81798	1.90472	-2.59323	0.0095079	0.161634
gene1448	gene1448	ald1	gi 57650036 ref NC_002951.2 :1515796-1516915	q1	q2	OK	1.66639	5.39893	1.69595	-2.30265	0.0212988	0.273297
gene1452	gene1452	SACOL1482	gi 57650036 ref NC_002951.2 :1523577-1523910	q1	q2	OK	21.1213	3.21226	-2.71703	3.05097	0.002281	0.063737
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	q1	q2	OK	259.126	50.753	-2.35209	3.20042	0.0013723	0.0435582
gene1487	gene1487	ansA	gi 57650036 ref NC_002951.2 :1557881-1558850	q1	q2	OK	16.1293	6.16641	-1.38718	2.01811	0.0435801	0.40838
gene1490	gene1490	SACOL1522	gi 57650036 ref NC_002951.2 :1560352-1561813	q1	q2	OK	236.843	926.161	1.96733	-2.06704	0.0387305	0.383437
gene1494	gene1494	SACOL1526	gi 57650036 ref NC_002951.2 :1564749-1565295	q1	q2	OK	112.336	36.6988	-1.61402	2.2621	0.0236912	0.292955

gene1498	gene1498	SACOL1531	gi 57650036 ref NC_002951.2 :1568015-1568933	q1	q2	OK	0.213264	1.84324	3.11153	-2.39852	0.0164614	0.230359
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	q1	q2	OK	50.5897	830.669	4.03736	-5.43203	5.57E-08	1.02E-05
gene1506	gene1506	SACOL1539	gi 57650036 ref NC_002951.2 :1577030-1577537	q1	q2	OK	13.9523	39.5649	1.50371	-2.18189	0.0291175	0.324689
gene1526	gene1526	SACOL1560	gi 57650036 ref NC_002951.2 :1595255-1596530	q1	q2	OK	93.7422	28.9196	-1.69665	2.18457	0.0289206	0.323976
gene1542	gene1542	SACOL1576	gi 57650036 ref NC_002951.2 :1610243-1613127	q1	q2	OK	2.35037	11.5865	2.30148	-1.98742	0.0468758	0.425113
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	q1	q2	OK	2056.82	474.778	-2.11509	3.01829	0.0025421	0.0691808
gene160	gene160	SACOL0166	gi 57650036 ref NC_002951.2 :191117-191612	q1	q2	OK	34.7391	121.648	1.80808	-2.55115	0.0107369	0.174614
gene1604	gene1604	grpE	gi 57650036 ref NC_002951.2 :1668474-1669101	q1	q2	OK	527.674	112.186	-2.23375	2.68172	0.0073244	0.137988
gene1605	gene1605	hrcA	gi 57650036 ref NC_002951.2 :1669132-1670110	q1	q2	OK	424.354	89.8657	-2.23943	2.58678	0.0096876	0.163425
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	q1	q2	OK	887.499	311.748	-1.50937	2.03946	0.0414042	0.396038
gene1609	gene1609	holA	gi 57650036 ref NC_002951.2 :1674361-1675336	q1	q2	OK	16.3997	6.11861	-1.42239	2.06866	0.0385782	0.382453
gene1617	gene1617	SACOL1651	gi 57650036 ref NC_002951.2 :1681096-1681387	q1	q2	OK	22.8366	5.47979	-2.05915	2.38487	0.0170853	0.235517
gene1618	gene1618	aroE	gi 57650036 ref NC_002951.2 :1681390-1682197	q1	q2	OK	41.3671	11.4491	-1.85325	2.66274	0.0077508	0.14273
gene1619	gene1619	SACOL1653	gi 57650036 ref NC_002951.2 :1682210-1683311	q1	q2	OK	32.8035	8.68865	-1.91665	2.73369	0.0062629	0.123837
gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	q1	q2	OK	41.9835	14.1392	-1.57012	2.27919	0.0226556	0.286641
gene1634	gene1634	SACOL1668	gi 57650036 ref NC_002951.2 :1696291-1697215	q1	q2	OK	37.6465	13.8619	-1.44139	2.06453	0.0389678	0.38357
gene1635	gene1635	SACOL1669	gi 57650036 ref NC_002951.2 :1697217-1697856	q1	q2	OK	19.1776	5.0283	-1.93128	2.71681	0.0065914	0.128232
gene1638	gene1638	SACOL1672	gi 57650036 ref NC_002951.2 :1698895-1699156	q1	q2	OK	296.894	833.282	1.48886	-2.00372	0.0450998	0.41578
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	q1	q2	OK	31.5869	2298.48	6.18521	-4.89681	9.74E-07	0.0001163
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	q1	q2	OK	7.56139	348.89	5.52798	-4.37753	1.20E-05	0.0009241
gene1649	gene1649	SACOL1683	gi 57650036 ref NC_002951.2 :1712033-1712807	q1	q2	OK	37.3423	13.0693	-1.51463	2.19253	0.0283409	0.319082
gene1650	gene1650	aspS	gi 57650036 ref NC_002951.2 :1713267-1715034	q1	q2	OK	32.4515	11.324	-1.5189	2.08525	0.0370466	0.369812
gene1651	gene1651	hisS	gi 57650036 ref NC_002951.2 :1715049-1716312	q1	q2	OK	17.2888	6.0152	-1.52315	2.21233	0.0269437	0.309278
gene1659	gene1659	tgt	gi 57650036 ref NC_002951.2 :1726574-1727714	q1	q2	OK	60.7682	13.9579	-2.12223	2.90968	0.003618	0.0872791
gene1660	gene1660	queA	gi 57650036 ref NC_002951.2 :1727736-1728762	q1	q2	OK	32.9998	11.6144	-1.50655	2.15825	0.0309087	0.336223
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	q1	q2	OK	201.55	65.371	-1.62442	2.33457	0.0195657	0.257448
gene1667	gene1667	rplU	gi 57650036 ref NC_002951.2 :1733152-1733461	q1	q2	OK	651.009	214.899	-1.59902	2.1193	0.034065	0.353699
gene1681	gene1681	hemC	gi 57650036 ref NC_002951.2 :1747721-1748648	q1	q2	OK	28.8556	8.79856	-1.71351	2.47829	0.0132012	0.19821
gene1689	gene1689	rplT	gi 57650036 ref NC_002951.2 :1756408-1756765	q1	q2	OK	428.628	64.9686	-2.72191	3.69683	0.0002183	0.0105329
gene1690	gene1690	rpmI	gi 57650036 ref NC_002951.2 :1756811-1757012	q1	q2	OK	151.746	31.4399	-2.27099	2.93743	0.0033094	0.082366
gene1691	gene1691	infC	gi 57650036 ref NC_002951.2 :1757040-1757568	q1	q2	OK	157.672	33.3282	-2.24211	3.09775	0.00195	0.0569023
gene1692	gene1692	SACOL1728	gi 57650036 ref NC_002951.2 :1757796-1759290	q1	q2	OK	12.5463	52.8993	2.07599	-2.8043	0.0050426	0.10765
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	q1	q2	OK	138.365	25.2379	-2.45482	2.9464	0.003215	0.0816379

gene1717	gene1717	SACOL1754	gi 57650036 ref NC_002951.2 :1795257-1795946	q1	q2	OK	58.2289	237.171	2.02612	-2.59391	0.0094893	0.161634
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	q1	q2	OK	318.613	75.3451	-2.08022	2.4201	0.0155161	0.219316
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	q1	q2	OK	412.464	66.8362	-2.62557	3.28932	0.0010043	0.0347762
gene1733	gene1733	SACOL1771	gi 57650036 ref NC_002951.2 :1810176-1810623	q1	q2	OK	12.3698	66.1029	2.41789	-3.44409	0.000573	0.0226599
gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	q1	q2	OK	46.8717	14.2598	-1.71676	2.48607	0.0129164	0.195099
gene1740	gene1740	tyrS	gi 57650036 ref NC_002951.2 :1818625-1819888	q1	q2	OK	23.1958	5.80778	-1.9978	2.86861	0.0041228	0.0948257
gene1749	gene1749	SACOL1788	gi 57650036 ref NC_002951.2 :1833624-1835142	q1	q2	OK	66.0053	361.875	2.45484	-2.75839	0.0058086	0.118414
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	q1	q2	OK	383.945	2228.77	2.53728	-2.79327	0.0052178	0.110421
gene1763	gene1763	SACOL1802	gi 57650036 ref NC_002951.2 :1851012-1851435	q1	q2	OK	26.6771	226.759	3.08749	-4.26223	2.02E-05	0.0014283
gene1768	gene1768	SACOL1807	gi 57650036 ref NC_002951.2 :1862482-1862794	q1	q2	OK	29.6331	7.4393	-1.99397	2.51941	0.0117551	0.184977
gene1770	gene1770	SACOL1809	gi 57650036 ref NC_002951.2 :1865520-1866702	q1	q2	OK	30.4107	8.30816	-1.87198	2.66894	0.0076092	0.141199
gene1773	gene1773	rot	gi 57650036 ref NC_002951.2 :1868444-1868945	q1	q2	OK	213.951	681.236	1.67087	-1.99043	0.0465433	0.424224
gene1781	gene1781	ribD	gi 57650036 ref NC_002951.2 :1874916-1875960	q1	q2	OK	3.81024	10.5825	1.47373	-2.11854	0.0341297	0.353769
gene1782	gene1782	SACOL1821	gi 57650036 ref NC_002951.2 :1876440-1877943	q1	q2	OK	3.64386	21.4872	2.55994	-3.63381	0.0002793	0.0127915
gene1792	gene1792	tal	gi 57650036 ref NC_002951.2 :1885159-1885873	q1	q2	OK	294.567	1026.97	1.80173	-1.96284	0.0496651	0.437791
gene1798	gene1798	metK	gi 57650036 ref NC_002951.2 :1891566-1892760	q1	q2	OK	39.1338	14.3081	-1.45158	2.03102	0.0422526	0.400763
gene1809	gene1809	SACOL1848	gi 57650036 ref NC_002951.2 :1902465-1903092	q1	q2	OK	11.1127	3.36042	-1.7255	2.32561	0.0200394	0.260836
gene1810	gene1810	SACOL1849	gi 57650036 ref NC_002951.2 :1903132-1903477	q1	q2	OK	10.2899	2.23011	-2.20604	2.27576	0.0228605	0.287725
gene1827	gene1827	spIB	gi 57650036 ref NC_002951.2 :1919937-1920660	q1	q2	OK	0.292722	1.89871	2.69742	-2.05601	0.0397813	0.388526
gene1830	gene1830	epiG	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	12.8852	161.648	3.64907	-2.39312	0.0167057	0.231165
gene1831	gene1831	epiE	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	8.7175	148.014	4.08568	-2.58461	0.009749	0.164078
gene1832	gene1832	epiF	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	15.526	280.457	4.17502	-3.36513	0.0007651	0.0282292
gene1833	gene1833	epiP	gi 57650036 ref NC_002951.2 :1925672-1927046	q1	q2	OK	3.65275	68.1696	4.22207	-5.62298	1.88E-08	4.00E-06
gene185	gene185	SACOL0191	gi 57650036 ref NC_002951.2 :224442-225021	q1	q2	OK	9.2879	32.3339	1.79962	-2.59219	0.0095368	0.161634
gene186	gene186	SACOL0192	gi 57650036 ref NC_002951.2 :225403-226501	q1	q2	OK	0.511602	2.57848	2.33342	-2.61874	0.0088254	0.154274
gene1861	gene1861	SACOL1895	gi 57650036 ref NC_002951.2 :1949050-1949416	q1	q2	OK	150.792	668.651	2.14869	-2.76939	0.0056162	0.116126
gene1867	gene1867	SACOL1902	gi 57650036 ref NC_002951.2 :1957825-1958170	q1	q2	OK	786.146	242.339	-1.69777	2.14971	0.0315782	0.341092
gene1869	gene1869	SACOL1904	gi 57650036 ref NC_002951.2 :1959541-1960006	q1	q2	OK	111.907	10.413	-3.42584	4.74742	2.06E-06	0.0002071
gene1874	gene1874	SACOL1909	gi 57650036 ref NC_002951.2 :1965146-1965542	q1	q2	OK	41.107	8.40315	-2.29038	3.15043	0.0016303	0.0497828
gene1876	gene1876	SACOL1911	gi 57650036 ref NC_002951.2 :1966318-1966471	q1	q2	OK	569.717	2787.74	2.29078	-3.27937	0.0010404	0.035515
gene1877	gene1877	SACOL1912	gi 57650036 ref NC_002951.2 :1966495-1967095	q1	q2	OK	114.029	692.978	2.60341	-3.09447	0.0019716	0.057304
gene1916	gene1916	bcp	gi 57650036 ref NC_002951.2 :1984316-1984772	q1	q2	OK	60.2925	178.031	1.56208	-2.16342	0.0305089	0.333021
gene1920	gene1920	SACOL1925	gi 57650036 ref NC_002951.2 :1989746-1990289	q1	q2	OK	64.2426	24.1436	-1.41189	2.04252	0.0411001	0.395011

gene1928	gene1928	SACOL1933	gi 57650036 ref NC_002951.2 :1997915-1998431	q1	q2	OK	66.8126	524.156	2.9718	-3.75512	0.0001733	0.0090861
gene1934	gene1934	SACOL1939	gi 57650036 ref NC_002951.2 :2002583-2003048	q1	q2	OK	27.6884	812.631	4.87525	-6.12035	9.34E-10	3.48E-07
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	q1	q2	OK	187.863	1030.1	2.45503	-3.2514	0.0011484	0.0379491
gene1936	gene1936	SACOL1941	gi 57650036 ref NC_002951.2 :2003607-2004825	q1	q2	OK	10.5308	90.7543	3.10736	-4.13335	3.58E-05	0.002331
gene1943	gene1943	SACOL1948	gi 57650036 ref NC_002951.2 :2010621-2011035	q1	q2	OK	0.712165	5.14369	2.85252	-2.18398	0.028964	0.323976
gene1945	gene1945	SACOL1950	gi 57650036 ref NC_002951.2 :2011259-2011991	q1	q2	OK	61.2957	17.0063	-1.84972	2.62473	0.0086718	0.152769
gene1951	gene1951	SACOL1956	gi 57650036 ref NC_002951.2 :2016425-2016956	q1	q2	OK	52.2361	179.808	1.78334	-2.42761	0.0151986	0.215671
gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	q1	q2	OK	134.075	36.9834	-1.85809	2.27781	0.0227381	0.287183
gene1955	gene1955	gatA	gi 57650036 ref NC_002951.2 :2021723-2023181	q1	q2	OK	79.6227	20.8544	-1.93283	2.50787	0.0121462	0.188226
gene1956	gene1956	gatC	gi 57650036 ref NC_002951.2 :2023182-2023485	q1	q2	OK	121.481	34.8385	-1.80198	2.60123	0.0092891	0.161212
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	q1	q2	OK	9.41471	77.7859	3.04652	-3.86775	0.0001098	0.0061623
gene199	gene199	pflA	gi 57650036 ref NC_002951.2 :242092-242848	q1	q2	OK	11.2897	43.654	1.9511	-2.80459	0.0050381	0.10765
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	q1	q2	OK	0	31.7031	1.79769e+308	1.79769e+308	0.0180909	0.243354
gene1996	gene1996	h1b	gi 57650036 ref NC_002951.2 :2063725-2064718	q1	q2	OK	9.26897	26.5605	1.5188	-2.19986	0.0278169	0.315942
gene1999	gene1999	SACOL2007	gi 57650036 ref NC_002951.2 :2067483-2068708	q1	q2	OK	4.63178	163.166	5.13863	-6.51905	7.08E-11	3.20E-08
gene2000	gene2000	SACOL2009	gi 57650036 ref NC_002951.2 :2069079-2069925	q1	q2	OK	0	3.75641	1.79769e+308	1.79769e+308	0.0026536	0.0711264
gene2013	gene2013	h1d	gi 57650036 ref NC_002951.2 :2082767-2082902	q1	q2	OK	335.279	1288.34	1.94208	-2.40136	0.0163343	0.229092
gene2014	gene2014	agrB	gi 57650036 ref NC_002951.2 :2083137-2083844	q1	q2	OK	111.68	827.743	2.88981	-3.37134	0.000748	0.0279049
gene2016	gene2016	argC2	gi 57650036 ref NC_002951.2 :2083868-2085161	q1	q2	OK	49.3222	292.196	2.56663	-3.00567	0.00265	0.0711263
gene2017	gene2017	agrA	gi 57650036 ref NC_002951.2 :2085179-2085896	q1	q2	OK	105.417	413.396	1.97141	-2.36128	0.0182117	0.244437
gene2022	gene2022	SACOL2033	gi 57650036 ref NC_002951.2 :2091441-2091666	q1	q2	OK	12.7327	0	1.79769e+308	1.79769e+308	0.0156463	0.220725
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	q1	q2	OK	217.624	25.3663	-3.10085	3.72438	0.0001958	0.0097724
gene2071	gene2071	SACOL2078	gi 57650036 ref NC_002951.2 :2144192-2144486	q1	q2	OK	7.42357	0	1.79769e+308	1.79769e+308	0.0114882	0.182325
gene2081	gene2081	SACOL2089	gi 57650036 ref NC_002951.2 :2152981-2153377	q1	q2	OK	2.32681	14.0053	2.58954	-2.92542	0.0034399	0.0849254
gene2103	gene2103	tdk	gi 57650036 ref NC_002951.2 :2170931-2171531	q1	q2	OK	62.754	19.0424	-1.72049	2.47387	0.0133657	0.199029
gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	q1	q2	OK	700.567	75.7468	-3.20927	4.42633	9.58E-06	0.0008119
gene2106	gene2106	SACOL2114	gi 57650036 ref NC_002951.2 :2173812-2175240	q1	q2	OK	42.0309	566.421	3.75235	-4.27844	1.88E-05	0.001362
gene2110	gene2110	SACOL2118	gi 57650036 ref NC_002951.2 :2178704-2179226	q1	q2	OK	33.7359	9.25895	-1.86536	2.66914	0.0076046	0.141199
gene2111	gene2111	pyrG	gi 57650036 ref NC_002951.2 :2179334-2180945	q1	q2	OK	40.706	9.21773	-2.14276	2.9372	0.0033119	0.082366
gene2114	gene2114	SACOL2122	gi 57650036 ref NC_002951.2 :2183206-2184010	q1	q2	OK	21.0397	6.20962	-1.76054	2.54079	0.0110602	0.177478

gene2124	gene2124	SACOL2132	gi 57650036 ref NC_002951.2 :2192914-2193328	q1	q2	OK	5.69732	28.8047	2.33795	-3.1154	0.001837	0.0540416
gene2128	gene2128	SACOL2136	gi 57650036 ref NC_002951.2 :2197464-2198130	q1	q2	OK	10.1834	170.274	4.06357	-5.42923	5.66E-08	1.02E-05
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	q1	q2	OK	62.7582	13.0742	-2.26308	3.11268	0.001854	0.0543209
gene2139	gene2139	SACOL2147	gi 57650036 ref NC_002951.2 :2210385-2212518	q1	q2	OK	2.69422	24.116	3.16206	-4.37361	1.22E-05	0.000931
gene2140	gene2140	SACOL2148	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	7.14632	234.593	5.03681	-3.41744	0.0006321	0.0243336
gene2141	gene2141	mtlD	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	5.74065	131.655	4.5194	-4.84056	1.29E-06	0.0001378
gene215	gene215	ldh1	gi 57650036 ref NC_002951.2 :262249-263203	q1	q2	OK	6.90495	38.4666	2.47791	-3.51875	0.0004336	0.0181379
gene2159	gene2159	SACOL2158	gi 57650036 ref NC_002951.2 :2237138-2237612	q1	q2	OK	116.626	36.6643	-1.66945	2.37073	0.0177532	0.241958
gene2164	gene2164	SACOL2163	gi 57650036 ref NC_002951.2 :2241856-2242117	q1	q2	OK	2716.48	659.379	-2.04256	2.46042	0.0138775	0.204544
gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	q1	q2	OK	74.4193	10.7318	-2.79379	3.72621	0.0001944	0.0097688
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	q1	q2	OK	25.3915	7.0329	-1.85215	2.67699	0.0074288	0.13928
gene2169	gene2169	SACOL2168	gi 57650036 ref NC_002951.2 :2247237-2248308	q1	q2	OK	3.69218	14.5584	1.9793	-2.83828	0.0045358	0.0991698
gene2170	gene2170	SACOL2169	gi 57650036 ref NC_002951.2 :2248314-2251252	q1	q2	OK	4.71888	22.3544	2.24405	-2.89741	0.0037626	0.0904646
gene2173	gene2173	SACOL2172	gi 57650036 ref NC_002951.2 :2253785-2255410	q1	q2	OK	0.322449	1.46962	2.1883	-2.44523	0.0144761	0.208278
gene2174	gene2174	SACOL2173	gi 57650036 ref NC_002951.2 :2255445-2255955	q1	q2	OK	508.79	13085	4.6847	-5.22328	1.76E-07	2.77E-05
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	q1	q2	OK	159.965	2213.51	3.79051	-4.91741	8.77E-07	0.0001076
gene2176	gene2176	SACOL2175	gi 57650036 ref NC_002951.2 :2256269-2256818	q1	q2	OK	95.149	3337.43	5.1324	-5.95411	2.61E-09	7.57E-07
gene2177	gene2177	opuD2	gi 57650036 ref NC_002951.2 :2256980-2258543	q1	q2	OK	17.867	634.337	5.14988	-6.02188	1.72E-09	5.42E-07
gene2191	gene2191	SACOL2190	gi 57650036 ref NC_002951.2 :2271268-2271877	q1	q2	OK	0.748471	3.23871	2.1134	-2.11171	0.0347117	0.357338
gene2194	gene2194	SACOL2193	gi 57650036 ref NC_002951.2 :2273401-2273818	q1	q2	OK	3.51272	12.1779	1.79361	-2.19913	0.0278688	0.315942
gene2195	gene2195	hysA	gi 57650036 ref NC_002951.2 :2274225-2276649	q1	q2	OK	0.551	3.02251	2.45562	-3.27543	0.001055	0.0358462
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	q1	q2	OK	8.77649	463.694	5.72339	-7.2392	4.51E-13	4.08E-10
gene2206	gene2206	SACOL2205	gi 57650036 ref NC_002951.2 :2286768-2288129	q1	q2	OK	1.58299	5.41214	1.77355	-2.45615	0.0140434	0.204943
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	q1	q2	OK	726.849	123.658	-2.5553	3.23929	0.0011983	0.0391064
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	q1	q2	OK	225.198	35.2143	-2.67696	3.6933	0.0002214	0.0106092
gene2222	gene2222	rpmD	gi 57650036 ref NC_002951.2 :2298744-2298924	q1	q2	OK	739.213	279.463	-1.40333	2.04396	0.040957	0.394682
gene2226	gene2226	rpsH	gi 57650036 ref NC_002951.2 :2300412-2300811	q1	q2	OK	236.169	77.8385	-1.60126	2.21281	0.0269111	0.309278
gene2231	gene2231	rpsQ	gi 57650036 ref NC_002951.2 :2302369-2302633	q1	q2	OK	275.992	106.772	-1.3701	1.98377	0.0472815	0.426221
gene2247	gene2247	SACOL2247	gi 57650036 ref NC_002951.2 :2314240-2314372	q1	q2	OK	420.017	53.0518	-2.98497	1.96923	0.0489268	0.434992
gene2287	gene2287	sarY	gi 57650036 ref NC_002951.2 :2347997-2348741	q1	q2	OK	1.97001	9.32932	2.24357	-2.93442	0.0033417	0.0828218
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	q1	q2	OK	2.70405	11.8619	2.13314	-3.0678	0.0021564	0.0607226
gene2289	gene2289	SACOL2291	gi 57650036 ref NC_002951.2 :2351331-2352135	q1	q2	OK	423.329	74.3328	-2.50971	2.99877	0.0027107	0.0715959
gene2290	gene2290	nhaC	gi 57650036 ref NC_002951.2 :2352567-2353968	q1	q2	OK	6.37618	19.7338	1.6299	-2.35008	0.0187694	0.249236

gene2291	gene2291	SACOL2293	gi 57650036 ref NC_002951.2 :2354062-2355145	q1	q2	OK	4.50918	35.214	2.96521	-4.16434	3.12E-05	0.0020732
gene2295	gene2295	SACOL2297	gi 57650036 ref NC_002951.2 :2357958-2359083	q1	q2	OK	22.0193	8.5822	-1.35935	1.97209	0.0485989	0.433141
gene2313	gene2313	SACOL2315	gi 57650036 ref NC_002951.2 :2375491-2376022	q1	q2	OK	16.1793	3.00235	-2.42998	3.15044	0.0016303	0.0497828
gene2319	gene2319	SACOL2321	gi 57650036 ref NC_002951.2 :2382110-2382992	q1	q2	OK	50.2914	437.295	3.12022	-3.73614	0.0001869	0.0095236
gene2325	gene2325	hutG	gi 57650036 ref NC_002951.2 :2389540-2390476	q1	q2	OK	27.2547	334.448	3.61721	-4.46351	8.06E-06	0.000703
gene2337	gene2337	gltS	gi 57650036 ref NC_002951.2 :2399778-2400987	q1	q2	OK	41.2843	7.53932	-2.45309	3.43133	0.0006006	0.0233697
gene2345	gene2345	SACOL2348	gi 57650036 ref NC_002951.2 :2408129-2408777	q1	q2	OK	5.80865	1.47813	-1.97443	2.36715	0.0179259	0.242627
gene2354	gene2354	SACOL2357	gi 57650036 ref NC_002951.2 :2415466-2417187	q1	q2	OK	1.96788	6.69839	1.76718	-2.04491	0.040864	0.394682
gene2362	gene2362	SACOL2365	gi 57650036 ref NC_002951.2 :2426086-2426716	q1	q2	OK	51.6165	475.898	3.20475	-3.98933	6.63E-05	0.0040248
gene237	gene237	lytR	gi 57650036 ref NC_002951.2 :287180-287921	q1	q2	OK	16.6964	6.11813	-1.44837	2.08468	0.0370988	0.369812
gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	q1	q2	OK	27.4366	8.85111	-1.63217	2.35806	0.0183709	0.245748
gene2375	gene2375	SACOL2379	gi 57650036 ref NC_002951.2 :2439935-2440358	q1	q2	OK	158.011	1079.45	2.77221	-3.35725	0.0007872	0.0287737
gene2379	gene2379	SACOL2383	gi 57650036 ref NC_002951.2 :2442841-2443207	q1	q2	OK	42.6942	12.4675	-1.77587	2.48732	0.012871	0.194869
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	q1	q2	OK	2.05245	13.5259	2.7203	-3.78884	0.0001514	0.0081136
gene239	gene239	lrgB	gi 57650036 ref NC_002951.2 :288033-289171	q1	q2	OK	2.1347	6.81407	1.67448	-2.04907	0.0404551	0.392458
gene2391	gene2391	narG	gi 57650036 ref NC_002951.2 :2450437-2456914	q1	q2	OK	0.351146	6.12474	4.12451	-2.35663	0.0184415	0.246238
gene2394	gene2394	nirB	gi 57650036 ref NC_002951.2 :2458509-2460915	q1	q2	OK	1.3193	3.89639	1.56236	-2.23496	0.0254201	0.303073
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	q1	q2	OK	0.863319	5.18484	2.58633	-2.92179	0.0034802	0.0850894
gene2413	gene2413	SACOL2418	gi 57650036 ref NC_002951.2 :2476717-2478028	q1	q2	OK	17.0935	4.56441	-1.90495	2.75229	0.005918	0.119299
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	q1	q2	OK	0.299543	1.79623	2.58414	-2.91931	0.003508	0.0851932
gene2427	gene2427	SACOL2433	gi 57650036 ref NC_002951.2 :2491944-2492052	q1	q2	OK	17905.4	0	1.79769e+308	1.79769e+308	0.0032688	0.0821387
gene2437	gene2437	SACOL2443	gi 57650036 ref NC_002951.2 :2502379-2504209	q1	q2	OK	40.1245	13.3879	-1.58356	2.12924	0.0332347	0.349475
gene2450	gene2450	pnbA	gi 57650036 ref NC_002951.2 :2517261-2518614	q1	q2	OK	13.5487	97.1388	2.84189	-3.71182	0.0002058	0.0101304
gene2452	gene2452	SACOL2461	gi 57650036 ref NC_002951.2 :2520258-2521690	q1	q2	OK	8.49102	50.2842	2.5661	-3.01333	0.002584	0.0700378
gene2458	gene2458	SACOL2467	gi 57650036 ref NC_002951.2 :2524250-2524706	q1	q2	OK	18.5056	61.6428	1.73597	-2.51544	0.0118883	0.186337
gene247	gene247	SACOL0257	gi 57650036 ref NC_002951.2 :296294-297293	q1	q2	OK	5.36632	29.2591	2.44688	-3.49292	0.0004778	0.0195727
gene2471	gene2471	SACOL2481	gi 57650036 ref NC_002951.2 :2537619-2537985	q1	q2	OK	7.26709	71.524	3.29898	-4.39938	1.09E-05	0.0008765
gene2472	gene2472	fabG2	gi 57650036 ref NC_002951.2 :2538247-2539066	q1	q2	OK	8.6573	124.921	3.85095	-5.16703	2.38E-07	3.66E-05
gene2474	gene2474	SACOL2484	gi 57650036 ref NC_002951.2 :2540948-2541371	q1	q2	OK	22.5729	204.034	3.17614	-4.39597	1.10E-05	0.0008765
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	q1	q2	OK	28.42	79.1006	1.47678	-2.14743	0.0317588	0.342022
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	q1	q2	OK	1.36806	5.92835	2.1155	-2.1138	0.0345321	0.355995
gene2478	gene2478	SACOL2488	gi 57650036 ref NC_002951.2 :2543618-2544314	q1	q2	OK	59.5683	205.787	1.78853	-2.30624	0.0210971	0.272156

gene2480	gene2480	SACOL2491	gi 57650036 ref NC_002951.2 :2545143-2545335	q1	q2	OK	48.0378	166.929	1.79699	-2.37763	0.0174242	0.238061
gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	q1	q2	OK	30.3751	96.7736	1.67173	-2.36751	0.0179085	0.242627
gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	q1	q2	OK	5.27132	29.4773	2.48337	-2.97033	0.0029749	0.0769228
gene2507	gene2507	SACOL2519	gi 57650036 ref NC_002951.2 :2578701-2579190	q1	q2	OK	86.7909	2623.22	4.91765	-5.75324	8.75E-09	2.04E-06
gene2508	gene2508	SACOL2520	gi 57650036 ref NC_002951.2 :2579256-2581149	q1	q2	OK	10.6758	30.2055	1.50047	-2.05851	0.0395413	0.387684
gene2511	gene2511	SACOL2523	gi 57650036 ref NC_002951.2 :2584089-2585710	q1	q2	OK	3.17726	11.094	1.80392	-2.54521	0.0109211	0.176027
gene2518	gene2518	SACOL2530	gi 57650036 ref NC_002951.2 :2592084-2593053	q1	q2	OK	1.99127	7.17024	1.84833	-2.5148	0.01191	0.186337
gene2520	gene2520	SACOL2532	gi 57650036 ref NC_002951.2 :2593791-2594076	q1	q2	OK	62.521	252.557	2.0142	-2.89366	0.0038078	0.0910432
gene2528	gene2528	SACOL2541	gi 57650036 ref NC_002951.2 :2600821-2601313	q1	q2	OK	10.9998	32.5202	1.56386	-2.24789	0.0245835	0.297509
gene2537	gene2537	SACOL2550	gi 57650036 ref NC_002951.2 :2607794-2608139	q1	q2	OK	17.4928	55.7528	1.67228	-2.37742	0.0174344	0.238061
gene2540	gene2540	SACOL2553	gi 57650036 ref NC_002951.2 :2611337-2613077	q1	q2	OK	22.975	169.691	2.88477	-3.47673	0.0005076	0.020294
gene2541	gene2541	SACOL2554	gi 57650036 ref NC_002951.2 :2613123-2614201	q1	q2	OK	9.68503	117.105	3.5959	-4.80436	1.55E-06	0.0001628
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	q1	q2	OK	4982.77	1548.34	-1.68623	1.99582	0.0459537	0.421504
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	q1	q2	OK	159.222	52.7438	-1.59396	2.24113	0.0250174	0.300717
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	q1	q2	OK	102.149	30.2141	-1.75738	2.27212	0.0230791	0.288469
gene2550	gene2550	SACOL2563	gi 57650036 ref NC_002951.2 :2621889-2623995	q1	q2	OK	10.6884	307.139	4.84477	-5.72455	1.04E-08	2.35E-06
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	q1	q2	OK	7.29104	1.3955	-2.38534	3.40265	0.0006674	0.0252863
gene2554	gene2554	SACOL2567	gi 57650036 ref NC_002951.2 :2629392-2629878	q1	q2	OK	2.13895	7.33508	1.77791	-2.08575	0.0370008	0.369812
gene2563	gene2563	crtN	gi 57650036 ref NC_002951.2 :2638833-2640342	q1	q2	OK	12.6366	36.0407	1.51202	-2.08736	0.0368553	0.369812
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	q1	q2	OK	10.3769	39.5345	1.92974	-2.76672	0.0056623	0.116747
gene2565	gene2565	SACOL2578	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	12.7482	95.6652	2.9077	-2.13154	0.0330449	0.34869
gene2566	gene2566	SACOL2579	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	14.5584	99.8358	2.7777	-2.48802	0.0128456	0.194869
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	q1	q2	OK	526.693	159.656	-1.72199	1.97353	0.0484348	0.43221
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	q1	q2	OK	2945.28	402.47	-2.87145	3.08407	0.0020419	0.0581771
gene2579	gene2579	SACOL2593	gi 57650036 ref NC_002951.2 :2655056-2656311	q1	q2	OK	11.1143	2.77569	-2.00149	1.98519	0.0471231	0.426221
gene2583	gene2583	SACOL2597	gi 57650036 ref NC_002951.2 :2657438-2658269	q1	q2	OK	18.1988	83.2097	2.19291	-3.02632	0.0024755	0.0683793
gene2590	gene2590	SACOL2605	gi 57650036 ref NC_002951.2 :2663464-2664274	q1	q2	OK	4.01598	51.7193	3.68688	-5.06143	4.16E-07	5.79E-05
gene2603	gene2603	SACOL2619	gi 57650036 ref NC_002951.2 :2676059-2677508	q1	q2	OK	82.5261	280.475	1.76495	-1.99212	0.0463581	0.423595
gene2604	gene2604	SACOL2620	gi 57650036 ref NC_002951.2 :2677588-2678926	q1	q2	OK	15.2077	101.811	2.74302	-3.56745	0.0003605	0.015577
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	q1	q2	OK	4.91781	104.02	4.4027	-5.70995	1.13E-08	2.48E-06
gene2609	gene2609	SACOL2625	gi 57650036 ref NC_002951.2 :2684778-2685222	q1	q2	OK	16.9022	195.298	3.53039	-4.84913	1.24E-06	0.000136
gene2611	gene2611	betA	gi 57650036 ref NC_002951.2 :2685992-2687702	q1	q2	OK	115.838	2.91968	-5.31016	6.70552	2.01E-11	9.68E-09
gene2612	gene2612	betB	gi 57650036 ref NC_002951.2 :2687962-2689453	q1	q2	OK	195.75	2.81761	-6.11839	7.51194	5.82E-14	7.00E-11

gene2614	gene2614	SACOL2630	gi 57650036 ref NC_002951.2 :2689705-2690269	q1	q2	OK	42.4641	10.0095	-2.08487	2.99535	0.0027413	0.0721416
gene2616	gene2616	cudT	gi 57650036 ref NC_002951.2 :2691406-2693029	q1	q2	OK	154.24	3.40812	-5.50006	6.85945	6.91E-12	3.85E-09
gene2618	gene2618	nrdD	gi 57650036 ref NC_002951.2 :2693547-2695931	q1	q2	OK	6.12305	35.1131	2.51969	-2.69761	0.0069838	0.13442
gene2624	gene2624	gpxA2	gi 57650036 ref NC_002951.2 :2700983-2701481	q1	q2	OK	2.56647	12.2278	2.2523	-2.79328	0.0052176	0.110421
gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	q1	q2	OK	7.8348	2.55397	-1.61715	2.30091	0.0213969	0.273585
gene2654	gene2654	SACOL2671	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	14.4019	75.7456	2.3949	-2.71111	0.0067059	0.130108
gene2658	gene2658	secY	gi 57650036 ref NC_002951.2 :2746763-2747975	q1	q2	OK	2.26996	0.653648	-1.79608	2.14146	0.0322372	0.344846
gene2661	gene2661	SACOL2678	gi 57650036 ref NC_002951.2 :2755434-2756127	q1	q2	OK	0.310521	2.46211	2.98714	-2.2955	0.0217045	0.276542
gene2662	gene2662	SACOL2680	gi 57650036 ref NC_002951.2 :2756807-2757110	q1	q2	OK	0	5.97231	1.79769e+308	1.79769e+308	0.0141027	0.204943
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	q1	q2	OK	14.1018	634.983	5.49277	-7.01291	2.33E-12	1.88E-09
gene2664	gene2664	SACOL2682	gi 57650036 ref NC_002951.2 :2757707-2758319	q1	q2	OK	2.60059	30.2754	3.54123	-4.64805	3.35E-06	0.0003191
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	q1	q2	OK	0	3.01E+06	1.79769e+308	1.79769e+308	0.0351354	0.35865
gene2690	gene2690	SACOL2708	gi 57650036 ref NC_002951.2 :2779275-2781818	q1	q2	OK	0.404933	4.73506	3.54763	-3.36955	0.0007529	0.027943
gene2691	gene2691	SACOL2709	gi 57650036 ref NC_002951.2 :2781870-2782425	q1	q2	OK	1.72431	9.64162	2.48326	-2.97019	0.0029762	0.0769228
gene2692	gene2692	SACOL2710	gi 57650036 ref NC_002951.2 :2782453-2783302	q1	q2	OK	3.06702	13.0866	2.09318	-2.92345	0.0034618	0.0849254
gene2695	gene2695	SACOL2713	gi 57650036 ref NC_002951.2 :2785560-2786517	q1	q2	OK	43.2884	12.8199	-1.7556	2.49012	0.0127698	0.19415
gene2702	gene2702	SACOL2720	gi 57650036 ref NC_002951.2 :2792353-2792929	q1	q2	OK	0.814078	15.2685	4.22924	-4.41813	9.96E-06	0.0008282
gene2703	gene2703	nixA	gi 57650036 ref NC_002951.2 :2793057-2794110	q1	q2	OK	5.20627	13.8317	1.40966	-2.04832	0.0405288	0.392646
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	q1	q2	OK	3.42143	85.0216	4.63516	-5.97551	2.29E-09	6.92E-07
gene2710	gene2710	SACOL2728	gi 57650036 ref NC_002951.2 :2799595-2800093	q1	q2	OK	6.67283	1.85269	-1.84868	2.1266	0.0334533	0.350737
gene2711	gene2711	SACOL2729	gi 57650036 ref NC_002951.2 :2800171-2800522	q1	q2	OK	6.94183	0	1.79769e+308	1.79769e+308	0.0071656	0.136826
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	q1	q2	OK	2168.5	754.558	-1.523	2.03657	0.0416931	0.397017
gene2716	gene2716	SACOL2734	gi 57650036 ref NC_002951.2 :2802753-2803107	q1	q2	OK	0	4.22146	1.79769e+308	1.79769e+308	0.0141027	0.204943
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	q1	q2	OK	3760.41	1201.95	-1.64551	2.37935	0.0173434	0.238061
gene290	gene290	SACOL0301	gi 57650036 ref NC_002951.2 :334780-335626	q1	q2	OK	2.84423	18.9528	2.7363	-3.79093	0.0001501	0.0081058
gene292	gene292	SACOL0303	gi 57650036 ref NC_002951.2 :337732-338623	q1	q2	OK	6.64777	21.0688	1.66417	-2.41301	0.0158214	0.222762
gene293	gene293	SACOL0305	gi 57650036 ref NC_002951.2 :338871-339921	q1	q2	OK	29.1859	173.313	2.57004	-3.25515	0.0011333	0.0376232
gene294	gene294	SACOL0306	gi 57650036 ref NC_002951.2 :339933-340611	q1	q2	OK	51.8817	260.877	2.33007	-2.98458	0.0028396	0.0744582
gene321	gene321	SACOL0333	gi 57650036 ref NC_002951.2 :361694-361958	q1	q2	OK	0	7.02445	1.79769e+308	1.79769e+308	0.0180909	0.243354
gene333	gene333	SACOL0345	gi 57650036 ref NC_002951.2 :367359-367581	q1	q2	OK	13.3382	50.0644	1.90822	-2.24938	0.0244881	0.296972

gene342	gene342	SACOL0354	gi 57650036 ref NC_002951.2 :369701-370981	q1	q2	OK	14.1404	51.0765	1.85284	-2.19241	0.0283501	0.319082		
gene355	gene355	SACOL0367	gi 57650036 ref NC_002951.2 :373931-375918	q1	q2	OK	1.9505	5.54048	1.50617	-2.01338	0.0440748	0.409293		
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	q1	q2	OK	0.346319	5.99292	4.11308	-3.22633	0.0012539	0.0405107		
gene367	gene367	SACOL0379	gi 57650036 ref NC_002951.2 :382422-389447	q1	q2	OK	0.816901	2.97412	1.86423	-2.6538	0.0079591	0.14471		
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	0.358084	1.86797	2.38311	-2.49709	0.0125216	0.192397		
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	q1	q2	OK	1.95047	6.85021	1.81233	-2.39792	0.0164883	0.230359		
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	q1	q2	OK	38.8175	9.01146	-2.10687	2.94164	0.0032648	0.0821387		
gene394	gene394	SACOL0406	gi 57650036 ref NC_002951.2 :412832-413273	q1	q2	OK	12.6741	3.20351	-1.98416	2.44926	0.0143148	0.207193		
gene395	gene395	glpT	gi 57650036 ref NC_002951.2 :413355-414714	q1	q2	OK	53.3859	12.6501	-2.07731	2.82939	0.0046637	0.101483		
gene407	gene407	SACOL0419	gi 57650036 ref NC_002951.2 :424851-425241	q1	q2	OK	14.385	51.3738	1.83646	-2.61896	0.0088199	0.154274		
gene423	gene423	SACOL0436	gi 57650036 ref NC_002951.2 :442258-442450	q1	q2	OK	1621.28	539.309	-1.58795	2.215	0.0267602	0.309278		
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	q1	q2	OK	434.557	87.6612	-2.30953	3.21423	0.0013079	0.0416986		
gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	q1	q2	OK	195.241	46.4933	-2.07016	2.8285	0.0046767	0.101483		
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	q1	q2	OK	764.931	149.441	-2.35575	3.27388	0.0010608	0.035874		
gene430	gene430	SACOL0443	gi 57650036 ref NC_002951.2 :446937-447306	q1	q2	OK	0	1.93572	1.79769e+308	1.79769e+308	0.0351354	0.35865		
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	q1	q2	OK	13.9505	1250.85	6.48645	-7.7585	8.66E-15	2.09E-11		
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	q1	q2	OK	428.14	15736.1	5.19985	-6.05437	1.41E-09	4.64E-07		
gene443	gene443	SACOL0456	gi 57650036 ref NC_002951.2 :458667-459330	q1	q2	OK	61.1655	185.204	1.59833	-2.08957	0.0366564	0.368762		
gene444	gene444	SACOL0457	gi 57650036 ref NC_002951.2 :459472-459880	q1	q2	OK	975.999	4023.41	2.04347	-2.17999	0.0292585	0.32476		
gene452	gene452	SACOL0465	gi 57650036 ref NC_002951.2 :467985-468138	q1	q2	OK	45.5773	0	-	-	1.79769e+308	1.79769e+308	0.0402447	0.390941
gene455	gene455	SACOL0468	gi 57650036 ref NC_002951.2 :470356-471037	q1	q2	OK	7.63828	41.0666	2.42665	-3.46733	0.0005257	0.0209018		
gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	q1	q2	OK	0	1.66869	1.79769e+308	1.79769e+308	0.0060633	0.121216		
gene467	gene467	SACOL0480	gi 57650036 ref NC_002951.2 :482502-482811	q1	q2	OK	1978.06	11330.7	2.51808	-2.68125	0.0073348	0.137988		
gene472	gene472	SACOL0485	gi 57650036 ref NC_002951.2 :486627-487413	q1	q2	OK	7.83816	1.88254	-2.05783	2.69451	0.0070492	0.135319		
gene486	gene486	SACOL0501	gi 57650036 ref NC_002951.2 :501147-502485	q1	q2	OK	0.672905	2.13114	1.66315	-2.03129	0.0422255	0.400763		
gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	75.191	11.8089	-2.67068	2.91746	0.0035289	0.0854134		
gene498	gene498	gltC	gi 57650036 ref NC_002951.2 :512592-513477	q1	q2	OK	1.11766	4.02531	1.84862	-2.27043	0.0231815	0.28925		
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	q1	q2	OK	2.42255	14.2718	2.55857	-3.50025	0.0004648	0.019237		
gene500	gene500	gltD	gi 57650036 ref NC_002951.2 :518174-519638	q1	q2	OK	3.63509	12.3834	1.76835	-2.56042	0.0104547	0.17225		
gene503	gene503	SACOL0517	gi 57650036 ref NC_002951.2 :521960-523601	q1	q2	OK	18.4945	6.96051	-1.40983	2.02163	0.0432141	0.407214		
gene504	gene504	SACOL0518	gi 57650036 ref NC_002951.2 :523625-524354	q1	q2	OK	26.9146	8.34286	-1.68977	2.44799	0.0143654	0.20751		

gene517	gene517	SACOL0528	gi 57650036 ref NC_002951.2 :539330-539678	q1	q2	OK	109.083	35.0239	-1.63901	2.37865	0.017376	0.238061
gene529	gene529	SACOL0540	gi 57650036 ref NC_002951.2 :548803-549184	q1	q2	OK	84.5491	998.901	3.56248	-4.50242	6.72E-06	0.0006002
gene530	gene530	spoVG	gi 57650036 ref NC_002951.2 :549255-549558	q1	q2	OK	357.541	3141.43	3.13524	-3.69824	0.0002171	0.0105329
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	q1	q2	OK	863.838	190.828	-2.17849	2.4675	0.0136062	0.201778
gene541	gene541	SACOL0552	gi 57650036 ref NC_002951.2 :561041-561443	q1	q2	OK	332.206	118.07	-1.49243	1.99592	0.0459426	0.421504
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	q1	q2	OK	237.469	56.5892	-2.06914	2.55485	0.0106234	0.173548
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	q1	q2	OK	308.193	73.0966	-2.07596	2.67345	0.0075075	0.140392
gene580	gene580	rplK	gi 57650036 ref NC_002951.2 :603475-603907	q1	q2	OK	519.115	157.756	-1.71836	2.16928	0.0300613	0.330484
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	q1	q2	OK	761.397	154.665	-2.2995	2.62704	0.0086132	0.152769
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	q1	q2	OK	244.951	34.8505	-2.81324	3.80183	0.0001436	0.0078747
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	q1	q2	OK	913.795	90.9789	-3.32827	4.2476	2.16E-05	0.0014979
gene584	gene584	SACOL0587	gi 57650036 ref NC_002951.2 :606164-606773	q1	q2	OK	56.5095	19.9721	-1.50051	2.16634	0.0302852	0.331579
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	q1	q2	OK	312.561	26.2795	-3.57213	4.89233	9.97E-07	0.0001163
gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	q1	q2	OK	957.15	280.331	-1.77161	2.11697	0.0342624	0.354225
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	q1	q2	OK	1186.99	261.515	-2.18234	2.52271	0.0116455	0.184014
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	q1	q2	OK	715.813	164.957	-2.11749	2.22567	0.0260365	0.306341
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	q1	q2	OK	195.965	1032.61	2.39763	-2.61403	0.0089481	0.156042
gene606	gene606	sdrD	gi 57650036 ref NC_002951.2 :635788-639934	q1	q2	OK	82.5732	17.7861	-2.21492	2.55982	0.0104726	0.17225
gene610	gene610	SACOL0613	gi 57650036 ref NC_002951.2 :647314-648193	q1	q2	OK	195.514	62.3758	-1.64821	2.05428	0.0399489	0.389112
gene611	gene611	SACOL0614	gi 57650036 ref NC_002951.2 :648205-648871	q1	q2	OK	74.8975	25.5767	-1.55009	2.18752	0.0287044	0.322068
gene612	gene612	SACOL0615	gi 57650036 ref NC_002951.2 :648884-649247	q1	q2	OK	243.013	70.7522	-1.78019	2.49237	0.0126893	0.19349
gene614	gene614	SACOL0617	gi 57650036 ref NC_002951.2 :650357-650990	q1	q2	OK	47.017	197.552	2.07097	-2.7414	0.0061177	0.121632
gene615	gene615	SACOL0618	gi 57650036 ref NC_002951.2 :650991-651540	q1	q2	OK	90.3257	261.008	1.53089	-1.98367	0.0472925	0.426221
gene624	gene624	ung	gi 57650036 ref NC_002951.2 :659763-660420	q1	q2	OK	64.6476	19.561	-1.72462	2.46052	0.0138735	0.204544
gene625	gene625	SACOL0628	gi 57650036 ref NC_002951.2 :660420-660801	q1	q2	OK	61.1097	18.1398	-1.75224	2.51934	0.0117576	0.184977
gene626	gene626	SACOL0629	gi 57650036 ref NC_002951.2 :660933-661302	q1	q2	OK	72.3532	15.4858	-2.22411	3.15808	0.0015881	0.0489071
gene627	gene627	SACOL0630	gi 57650036 ref NC_002951.2 :661422-662907	q1	q2	OK	20.5007	409.605	4.32049	-5.08295	3.72E-07	5.27E-05
gene632	gene632	SACOL0635	gi 57650036 ref NC_002951.2 :666735-667572	q1	q2	OK	138.691	47.0999	-1.55808	2.02748	0.042613	0.403652
gene634	gene634	mvaD	gi 57650036 ref NC_002951.2 :669083-670067	q1	q2	OK	11.5238	32.914	1.51408	-2.17538	0.0296013	0.327061
gene641	gene641	SACOL0644	gi 57650036 ref NC_002951.2 :675513-676140	q1	q2	OK	1.07542	4.65289	2.11322	-2.3554	0.018503	0.246604
gene651	gene651	SACOL0654	gi 57650036 ref NC_002951.2 :683333-683960	q1	q2	OK	5.01864	1.29247	-1.95717	2.25956	0.0238487	0.292955
gene657	gene657	adhP	gi 57650036 ref NC_002951.2 :688942-689953	q1	q2	OK	5.09813	19.3078	1.92114	-2.7726	0.0055611	0.115648
gene668	gene668	SACOL0671	gi 57650036 ref NC_002951.2 :698936-699725	q1	q2	OK	79.5422	664.518	3.06252	-3.56663	0.0003616	0.015577

gene669	gene669	sarA	gi 57650036 ref NC_002951.2 :699975-700350	q1	q2	OK	546.26	5032.8	3.2037	-3.54306	0.0003955	0.0167391
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	q1	q2	OK	3.81532	66.0622	4.11395	-5.47217	4.45E-08	8.47E-06
gene675	gene675	SACOL0679	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	5.97971	59.8261	3.32263	-2.82611	0.0047117	0.101483
gene7	gene7	hutH	gi 57650036 ref NC_002951.2 :10919-12434	q1	q2	OK	37.6203	9.38816	-2.0026	2.77057	0.0055958	0.116038
gene706	gene706	SACOL0711	gi 57650036 ref NC_002951.2 :735702-736770	q1	q2	OK	346.147	75.0762	-2.20496	2.56903	0.0101984	0.17006
gene707	gene707	SACOL0712	gi 57650036 ref NC_002951.2 :736920-737964	q1	q2	OK	31.5706	8.23086	-1.93947	2.77861	0.0054592	0.114185
gene708	gene708	SACOL0713	gi 57650036 ref NC_002951.2 :738292-738721	q1	q2	OK	115.957	40.4293	-1.52012	2.18038	0.0292292	0.32476
gene728	gene728	SACOL0736	gi 57650036 ref NC_002951.2 :759402-759846	q1	q2	OK	0	1.80831	1.79769e+308	1.79769e+308	0.0243447	0.296308
gene730	gene730	SACOL0738	gi 57650036 ref NC_002951.2 :760445-760745	q1	q2	OK	55.1378	222.143	2.01037	-2.88876	0.0038677	0.0917722
gene732	gene732	SACOL0740	gi 57650036 ref NC_002951.2 :761462-762029	q1	q2	OK	10.8421	38.8079	1.8397	-2.65649	0.0078959	0.14471
gene733	gene733	SACOL0741	gi 57650036 ref NC_002951.2 :762030-762489	q1	q2	OK	8.2614	23.8622	1.53027	-2.14323	0.0320945	0.3441
gene734	gene734	SACOL0742	gi 57650036 ref NC_002951.2 :762491-763175	q1	q2	OK	18.6611	170.086	3.18816	-4.27873	1.88E-05	0.001362
gene744	gene744	SACOL0752	gi 57650036 ref NC_002951.2 :774528-775146	q1	q2	OK	34.7876	100.347	1.52835	-2.12879	0.0332718	0.349475
gene754	gene754	SACOL0763	gi 57650036 ref NC_002951.2 :785704-786544	q1	q2	OK	26.7949	99.4452	1.89194	-2.56502	0.0103169	0.171267
gene755	gene755	SACOL0764	gi 57650036 ref NC_002951.2 :786675-787659	q1	q2	OK	49.6111	172.447	1.79742	-2.24627	0.0246866	0.298259
gene762	gene762	SACOL0771	gi 57650036 ref NC_002951.2 :792381-792801	q1	q2	OK	32.579	10.5134	-1.63172	2.30111	0.0213854	0.273585
gene763	gene763	SACOL0772	gi 57650036 ref NC_002951.2 :792802-793471	q1	q2	OK	32.9662	7.0591	-2.22343	3.18165	0.0014644	0.0454837
gene773	gene773	hisC	gi 57650036 ref NC_002951.2 :807522-808581	q1	q2	OK	9.27021	47.8801	2.36875	-3.31679	0.0009106	0.0323038
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	q1	q2	OK	75.521	560.512	2.89179	-3.62253	0.0002917	0.0131134
gene776	gene776	SACOL0787	gi 57650036 ref NC_002951.2 :810153-811071	q1	q2	OK	30.9233	320.723	3.37456	-4.1698	3.05E-05	0.0020429
gene778	gene778	SACOL0789	gi 57650036 ref NC_002951.2 :813186-813687	q1	q2	OK	39.1312	12.106	-1.6926	2.44214	0.0146004	0.20965
gene779	gene779	SACOL0790	gi 57650036 ref NC_002951.2 :813706-814573	q1	q2	OK	30.7612	10.5832	-1.53933	2.23076	0.0256971	0.304771
gene783	gene783	nrdF	gi 57650036 ref NC_002951.2 :817957-818929	q1	q2	OK	1092.53	284.551	-1.94092	2.06353	0.0390619	0.38357
gene793	gene793	SACOL0804	gi 57650036 ref NC_002951.2 :826824-827145	q1	q2	OK	76.034	232.721	1.61388	-2.30284	0.0212876	0.273297
gene82	gene82	SACOL0085	gi 57650036 ref NC_002951.2 :95138-96317	q1	q2	OK	3.59789	9.79766	1.44529	-2.08578	0.0369986	0.369812
gene820	gene820	SACOL0831	gi 57650036 ref NC_002951.2 :856420-858324	q1	q2	OK	48.6712	256.844	2.39976	-2.32924	0.0198463	0.260196
gene821	gene821	SACOL0832	gi 57650036 ref NC_002951.2 :858433-859378	q1	q2	OK	55.0844	225.301	2.03214	-2.49923	0.0124462	0.191645
gene824	gene824	SACOL0834	gi 57650036 ref NC_002951.2 :860780-861683	q1	q2	OK	19.3853	112.016	2.53067	-3.3962	0.0006833	0.0257547
gene825	gene825	SACOL0835	gi 57650036 ref NC_002951.2 :862386-863016	q1	q2	OK	26.6982	221.264	3.05096	-4.04803	5.17E-05	0.0033079
gene827	gene827	gapR	gi 57650036 ref NC_002951.2 :863775-864789	q1	q2	OK	70.9228	359.669	2.34235	-2.74848	0.0059873	0.120361
gene828	gene828	gapA1	gi 57650036 ref NC_002951.2 :864841-865852	q1	q2	OK	246.598	1562.03	2.66318	-2.85104	0.0043577	0.0979401
gene829	gene829	pgk	gi 57650036 ref NC_002951.2 :865990-867181	q1	q2	OK	57.9512	317.513	2.45391	-2.86826	0.0041274	0.0948257

gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	q1	q2	OK	2.83383	8.34409	1.558	-2.24387	0.0248406	0.299551
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	q1	q2	OK	87.175	403.604	2.21096	-2.65099	0.0080256	0.144841
gene831	gene831	pgm	gi 57650036 ref NC_002951.2 :868066-869584	q1	q2	OK	69.0267	292.043	2.08095	-2.35327	0.018609	0.247561
gene834	gene834	secG	gi 57650036 ref NC_002951.2 :871882-872116	q1	q2	OK	1372.25	436.036	-1.65403	2.19619	0.0280784	0.31701
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	q1	q2	OK	0	5.82971	1.79769e+308	1.79769e+308	0.0035064	0.0851932
gene845	gene845	SACOL0855	gi 57650036 ref NC_002951.2 :879849-880380	q1	q2	OK	1.3868	8.00628	2.52937	-2.85334	0.0043263	0.0975363
gene846	gene846	clfA	gi 57650036 ref NC_002951.2 :880642-883444	q1	q2	OK	94.6643	1037.04	3.4535	-3.74127	0.0001831	0.0093974
gene853	gene853	SACOL0863	gi 57650036 ref NC_002951.2 :889728-890013	q1	q2	OK	9.61861	31.1372	1.69474	-2.14027	0.0323333	0.344846
gene854	gene854	SACOL0864	gi 57650036 ref NC_002951.2 :890100-890670	q1	q2	OK	4.96355	0.89518	-2.47112	2.57207	0.0101091	0.16896
gene857	gene857	SACOL0868	gi 57650036 ref NC_002951.2 :891875-892112	q1	q2	OK	34.887	528.328	3.92067	-5.3216	1.03E-07	1.71E-05
gene86	gene86	SACOL0089	gi 57650036 ref NC_002951.2 :100186-101962	q1	q2	OK	2.52687	22.4486	3.1512	-4.39429	1.11E-05	0.0008765
gene860	gene860	SACOL0871	gi 57650036 ref NC_002951.2 :893762-894257	q1	q2	OK	17.1103	96.1957	2.49111	-3.53938	0.0004011	0.0168752
gene861	gene861	SACOL0872	gi 57650036 ref NC_002951.2 :894655-895078	q1	q2	OK	12.9965	189.707	3.86757	-5.27392	1.34E-07	2.15E-05
gene867	gene867	SACOL0879	gi 57650036 ref NC_002951.2 :898250-899129	q1	q2	OK	67.8774	18.3554	-1.88673	2.6199	0.0087956	0.154274
gene874	gene874	sek	gi 57650036 ref NC_002951.2 :904799-905528	q1	q2	OK	25.4675	6.46572	-1.97778	2.84111	0.0044957	0.0988909
gene889	gene889	SACOL0901	gi 57650036 ref NC_002951.2 :913514-913856	q1	q2	OK	54.527	18.9386	-1.52564	2.17553	0.0295903	0.327061
gene89	gene89	SACOL0092	gi 57650036 ref NC_002951.2 :104707-105181	q1	q2	OK	3.90615	53.1833	3.76716	-4.93468	8.03E-07	0.0001002
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	q1	q2	OK	2511.29	58362.5	4.53854	-5.15054	2.60E-07	3.92E-05
gene908	gene908	SACOL0920	gi 57650036 ref NC_002951.2 :927096-927411	q1	q2	OK	3.78043	0	-	-	0.0230444	0.288469
gene909	gene909	SACOL0921	gi 57650036 ref NC_002951.2 :927775-928816	q1	q2	OK	13.2924	62.1485	2.22512	-3.07224	0.0021246	0.060061
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	q1	q2	OK	123.267	9.22015	-3.74085	4.77516	1.80E-06	0.0001856
gene910	gene910	SACOL0922	gi 57650036 ref NC_002951.2 :928829-929897	q1	q2	OK	11.1148	34.1717	1.62032	-2.3111	0.0208271	0.269634
gene921	gene921	SACOL0934	gi 57650036 ref NC_002951.2 :937717-937870	q1	q2	OK	615.294	204.749	-1.58742	2.13181	0.0330223	0.34869
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	q1	q2	OK	10.7326	107.927	3.32999	-4.39725	1.10E-05	0.0008765
gene944	gene944	SACOL0957	gi 57650036 ref NC_002951.2 :958145-958739	q1	q2	OK	178.306	63.3224	-1.49357	1.98912	0.0466883	0.42474
gene950	gene950	argH	gi 57650036 ref NC_002951.2 :965545-968120	q1	q2	OK	110.324	24.8497	-2.15044	2.11954	0.0340448	0.353699
gene96	gene96	SACOL0100	gi 57650036 ref NC_002951.2 :113693-114641	q1	q2	OK	0	1.32692	1.79769e+308	1.79769e+308	0.0079984	0.14471
gene965	gene965	clpB	gi 57650036 ref NC_002951.2 :986246-988856	q1	q2	OK	555.008	112.206	-2.30636	2.43925	0.0147176	0.210573
gene973	gene973	fabH	gi 57650036 ref NC_002951.2 :994755-995697	q1	q2	OK	68.5146	13.5252	-2.34076	3.23897	0.0011996	0.0391064
gene989	gene989	SACOL1003	gi 57650036 ref NC_002951.2 :1011207-1011927	q1	q2	OK	25.6136	179.086	2.80567	-3.72227	0.0001974	0.0097866

gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	q1	q2	OK	0	1.12097	1.79769e+308	1.79769e+308	0.0094397	0.161634
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Supplementary Table S10. Differentially expressed genes in MVR compared with M36C05, related to Figure 3d

test_id	gene_id	gene	locus	MVR	M36C05	status	FPKM(MVR)	FPKM(M36C05)	log2(fold_change)	test_stat	p_value	q_value
gene1019	gene1019	SACOL1033	gi 57650036 ref NC_002951.2 :1043318-1043537	q1	q2	OK	585.86	3799.56	2.69721	-3.40271	0.0006672	0.025286
gene1028	gene1028	SACOL1042	gi 57650036 ref NC_002951.2 :1050522-1050810	q1	q2	OK	20.1498	5.61968	-1.8422	2.10066	0.0356705	0.361045
gene1029	gene1029	SACOL1043	gi 57650036 ref NC_002951.2 :1050815-1052297	q1	q2	OK	31.335	7.39445	-2.08326	2.9242	0.0034534	0.084925
gene1042	gene1042	sspB1	gi 57650036 ref NC_002951.2 :1061752-1062934	q1	q2	OK	3.17438	8.42043	1.40742	-2.01764	0.0436287	0.40838
gene1051	gene1051	SACOL1066	gi 57650036 ref NC_002951.2 :1074465-1075659	q1	q2	OK	31.532	8.09686	-1.96138	2.79267	0.0052276	0.110421
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	q1	q2	OK	333.041	58.9639	-2.49779	3.23361	0.0012224	0.039669
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	q1	q2	OK	280.592	48.2629	-2.53949	2.9401	0.0032811	0.082163
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	q1	q2	OK	480.77	62.4864	-2.94373	3.3501	0.0008078	0.029231
gene1072	gene1072	SACOL1087	gi 57650036 ref NC_002951.2 :1097856-1097991	q1	q2	OK	0	343.556	1.79769e+308	1.79769e+308	0.0094397	0.161634
gene1075	gene1075	SACOL1090	gi 57650036 ref NC_002951.2 :1101088-1101631	q1	q2	OK	40.0997	246.264	2.61855	-3.50005	0.0004652	0.019237
gene1092	gene1092	SACOL1107	gi 57650036 ref NC_002951.2 :1117542-1118082	q1	q2	OK	6.83875	1.62379	-2.07437	2.39594	0.0165778	0.231163
gene1093	gene1093	SACOL1108	gi 57650036 ref NC_002951.2 :1118094-1119979	q1	q2	OK	7.7884	1.97115	-1.98229	2.22998	0.0257486	0.304771
gene1096	gene1096	SACOL1111	gi 57650036 ref NC_002951.2 :1119984-1121867	q1	q2	OK	14.9983	49.833	1.7323	-2.21639	0.0266646	0.309278
gene1103	gene1103	typA	gi 57650036 ref NC_002951.2 :1127324-1129172	q1	q2	OK	92.487	23.8749	-1.95375	2.42395	0.0153527	0.217431
gene1111	gene1111	SACOL1126	gi 57650036 ref NC_002951.2 :1138351-1138813	q1	q2	OK	202.463	66.5594	-1.60495	2.21009	0.0270986	0.310305
gene1117	gene1117	SACOL1132	gi 57650036 ref NC_002951.2 :1142111-1142501	q1	q2	OK	16.8603	5.77234	-1.5464	1.99375	0.0461795	0.423039
gene1121	gene1121	SACOL1136	gi 57650036 ref NC_002951.2 :1144924-1145482	q1	q2	OK	189.442	64.1493	-1.56225	2.10115	0.0356282	0.361045
gene1152	gene1152	efb	gi 57650036 ref NC_002951.2 :1176733-1177231	q1	q2	OK	246.745	57.8039	-2.09378	2.8268	0.0047016	0.101483
gene1153	gene1153	SACOL1169	gi 57650036 ref NC_002951.2 :1177384-1177735	q1	q2	OK	355.287	69.4914	-2.35408	3.26685	0.0010875	0.036437
gene117	gene117	deoD1	gi 57650036 ref NC_002951.2 :136273-136981	q1	q2	OK	6.03981	1.52046	-1.99	2.45221	0.0141981	0.205915
gene1179	gene1179	pbb1	gi 57650036 ref NC_002951.2 :1197272-1199874	q1	q2	OK	68.1178	11.6971	-2.54188	2.75296	0.0059059	0.119299
gene1180	gene1180	mraY	gi 57650036 ref NC_002951.2 :1200165-1201131	q1	q2	OK	38.3804	5.75868	-2.73656	3.87295	0.0001075	0.006079
gene1181	gene1181	murD	gi 57650036 ref NC_002951.2 :1201132-1202482	q1	q2	OK	54.5888	9.29829	-2.55357	3.4924	0.0004787	0.019573
gene1191	gene1191	ileS	gi 57650036 ref NC_002951.2 :1210895-1213649	q1	q2	OK	69.4739	14.0221	-2.30877	2.84825	0.004396	0.098191
gene1194	gene1194	SACOL1209	gi 57650036 ref NC_002951.2 :1215559-1216968	q1	q2	OK	42.2978	13.2099	-1.67897	2.105	0.0352912	0.359216
gene1195	gene1195	pyrR	gi 57650036 ref NC_002951.2 :1217367-1217895	q1	q2	OK	92.1964	32.6549	-1.49741	2.14071	0.0322978	0.344846
gene1196	gene1196	uraA	gi 57650036 ref NC_002951.2 :1218112-1219420	q1	q2	OK	70.461	9.05405	-2.96019	3.99196	6.55E-05	0.004019
gene1197	gene1197	pyrB	gi 57650036 ref NC_002951.2 :1219447-1220329	q1	q2	OK	109.217	10.1885	-3.42219	4.63047	3.65E-06	0.000343
gene1198	gene1198	pyrC	gi 57650036 ref NC_002951.2 :1220346-1221621	q1	q2	OK	137.5	15.8955	-3.11274	3.98763	6.67E-05	0.004025

gene1199	gene1199	carA	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	102.824	8.4439	-3.60612	1.97516	0.0482499	0.431092
gene1200	gene1200	carB	gi 57650036 ref NC_002951.2 :1221622-1225889	q1	q2	OK	115.479	8.48446	-3.76667	3.91745	8.95E-05	0.005223
gene1201	gene1201	pyrF	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	94.7395	9.62462	-3.29916	3.70961	0.0002076	0.010151
gene1202	gene1202	pyrE	gi 57650036 ref NC_002951.2 :1225998-1227302	q1	q2	OK	62.8205	3.75093	-4.06591	3.00031	0.002697	0.071496
gene1230	gene1230	acpP	gi 57650036 ref NC_002951.2 :1255310-1255544	q1	q2	OK	920.482	298.025	-1.62696	2.25835	0.0239238	0.292955
gene1236	gene1236	rpsP	gi 57650036 ref NC_002951.2 :1263500-1263776	q1	q2	OK	289.503	57.5055	-2.33181	3.35306	0.0007992	0.029065
gene1239	gene1239	rplS	gi 57650036 ref NC_002951.2 :1265306-1265657	q1	q2	OK	891.905	148.296	-2.58841	3.3333	0.0008582	0.030901
gene1246	gene1246	eprH	gi 57650036 ref NC_002951.2 :1274120-1275365	q1	q2	OK	4.5824	1.68797	-1.44081	1.97752	0.0479825	0.430141
gene1254	gene1254	rpsB	gi 57650036 ref NC_002951.2 :1284585-1285350	q1	q2	OK	287.805	59.3596	-2.27754	2.83934	0.0045207	0.09914
gene1260	gene1260	cdsA	gi 57650036 ref NC_002951.2 :1289006-1289789	q1	q2	OK	41.9435	15.1379	-1.47028	2.1217	0.0338627	0.352611
gene1269	gene1269	rbfA	gi 57650036 ref NC_002951.2 :1302688-1303039	q1	q2	OK	86.7612	30.0891	-1.52781	2.22281	0.0262285	0.307643
gene1270	gene1270	truB	gi 57650036 ref NC_002951.2 :1303207-1304125	q1	q2	OK	9.85825	39.7832	2.01276	-2.87322	0.0040631	0.094761
gene1272	gene1272	rpsO	gi 57650036 ref NC_002951.2 :1305225-1305495	q1	q2	OK	2141.74	625.953	-1.77466	2.17327	0.0297597	0.32831
gene128	gene128	SACOL0134	gi 57650036 ref NC_002951.2 :149516-150001	q1	q2	OK	0.446706	3.48667	2.96445	-2.02507	0.0428605	0.405466
gene1287	gene1287	SACOL1307	gi 57650036 ref NC_002951.2 :1323638-1324436	q1	q2	OK	90.0488	32.4669	-1.47174	2.0142	0.0439881	0.409179
gene1296	gene1296	glpP	gi 57650036 ref NC_002951.2 :1335100-1335643	q1	q2	OK	15.1976	4.82871	-1.65413	2.25999	0.0238219	0.292955
gene130	gene130	cap5A	gi 57650036 ref NC_002951.2 :153404-154073	q1	q2	OK	3.6785	262.128	6.15501	-7.60612	2.82E-14	5.10E-11
gene1305	gene1305	SACOL1327	gi 57650036 ref NC_002951.2 :1344713-1345952	q1	q2	OK	20.2241	5.72983	-1.81951	2.63081	0.0085183	0.151839
gene131	gene131	cap5B	gi 57650036 ref NC_002951.2 :154088-154775	q1	q2	OK	1.51526	124.852	6.36451	-7.49265	6.75E-14	7.00E-11
gene132	gene132	cap5C	gi 57650036 ref NC_002951.2 :154777-155542	q1	q2	OK	2.05344	95.2877	5.53618	-6.94097	3.89E-12	2.58E-09
gene133	gene133	cap5D	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	1.75466	85.9854	5.61483	-5.86407	4.52E-09	1.13E-06
gene134	gene134	cap5E	gi 57650036 ref NC_002951.2 :155561-158403	q1	q2	OK	2.17933	57.9945	4.73396	-3.22461	0.0012615	0.040574
gene1343	gene1343	SACOL1367	gi 57650036 ref NC_002951.2 :1372141-1373596	q1	q2	OK	27.7937	83.9684	1.59509	-2.03866	0.0414837	0.396065
gene1344	gene1344	kataA	gi 57650036 ref NC_002951.2 :1373895-1375317	q1	q2	OK	469.834	2052.29	2.12701	-2.22509	0.0260752	0.306341
gene1347	gene1347	guaC	gi 57650036 ref NC_002951.2 :1376436-1377515	q1	q2	OK	20.8626	3.96883	-2.39413	3.41127	0.0006466	0.02476
gene135	gene135	cap5F	gi 57650036 ref NC_002951.2 :158415-159525	q1	q2	OK	2.83821	47.6174	4.06843	-5.49995	3.80E-08	7.43E-06
gene1354	gene1354	SACOL1378	gi 57650036 ref NC_002951.2 :1382592-1382920	q1	q2	OK	463.645	80.0577	-2.53391	3.62326	0.0002909	0.013113
gene1356	gene1356	SACOL1380	gi 57650036 ref NC_002951.2 :1383013-1383481	q1	q2	OK	44.3855	12.3565	-1.84482	2.65307	0.0079762	0.14471
gene1358	gene1358	sbcC	gi 57650036 ref NC_002951.2 :1384729-1387759	q1	q2	OK	10.9231	3.73784	-1.54711	2.20159	0.0276941	0.315942
gene136	gene136	cap5G	gi 57650036 ref NC_002951.2 :159528-160653	q1	q2	OK	2.9857	38.3815	3.68427	-5.05219	4.37E-07	5.85E-05
gene1360	gene1360	opuD1	gi 57650036 ref NC_002951.2 :1388395-1390042	q1	q2	OK	207.891	23.7656	-3.12888	3.74773	0.0001784	0.009234
gene1367	gene1367	SACOL1392	gi 57650036 ref NC_002951.2 :1400621-1402097	q1	q2	OK	68.5759	21.7694	-1.6554	2.16563	0.0303393	0.33167
gene1402	gene1402	SACOL1427	gi 57650036 ref NC_002951.2 :1438139-1439741	q1	q2	OK	29.9225	9.51279	-1.65329	2.30794	0.0210027	0.271422

gene141	gene141	cap5L	gi 57650036 ref NC_002951.2 :164774-165980	q1	q2	OK	2.67994	11.6167	2.11593	-3.00583	0.0026486	0.071126
gene1426	gene1426	arlR	gi 57650036 ref NC_002951.2 :1464054-1466066	q1	q2	OK	13.2744	119.478	3.17003	-2.84623	0.004424	0.098512
gene1436	gene1436	thyA	gi 57650036 ref NC_002951.2 :1474464-1475421	q1	q2	OK	20.1836	55.5043	1.45942	-2.0319	0.0421642	0.400763
gene144	gene144	cap5O	gi 57650036 ref NC_002951.2 :167488-168751	q1	q2	OK	3.88386	10.8896	1.48739	-2.15495	0.0311657	0.337139
gene1452	gene1452	SACOL1482	gi 57650036 ref NC_002951.2 :1523577-1523910	q1	q2	OK	17.6157	3.21226	-2.4552	2.72312	0.0064668	0.126644
gene1478	gene1478	ndk	gi 57650036 ref NC_002951.2 :1549035-1549485	q1	q2	OK	187.225	50.753	-1.88321	2.62596	0.0086405	0.152769
gene1490	gene1490	SACOL1522	gi 57650036 ref NC_002951.2 :1560352-1561813	q1	q2	OK	233.186	926.161	1.98978	-2.09394	0.0362653	0.365532
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	q1	q2	OK	60.0788	830.669	3.78935	-5.10114	3.38E-07	4.89E-05
gene1506	gene1506	SACOL1539	gi 57650036 ref NC_002951.2 :1577030-1577537	q1	q2	OK	8.2479	39.5649	2.26212	-3.18925	0.0014264	0.044882
gene1521	gene1521	SACOL1555	gi 57650036 ref NC_002951.2 :1591771-1592905	q1	q2	OK	43.5072	132.449	1.60612	-2.01723	0.0436718	0.40838
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	q1	q2	OK	0	8.33297	1.79769e+308	1.79769e+308	0.0060633	0.121216
gene1574	gene1574	rpmG	gi 57650036 ref NC_002951.2 :1638641-1638791	q1	q2	OK	2264.82	474.778	-2.25407	3.21493	0.0013048	0.041699
gene1608	gene1608	rpsT	gi 57650036 ref NC_002951.2 :1674065-1674317	q1	q2	OK	900.018	311.748	-1.52958	2.08479	0.0370881	0.369812
gene1609	gene1609	holA	gi 57650036 ref NC_002951.2 :1674361-1675336	q1	q2	OK	17.2862	6.11861	-1.49834	2.17847	0.0293712	0.325512
gene1618	gene1618	aroE	gi 57650036 ref NC_002951.2 :1681390-1682197	q1	q2	OK	37.5097	11.4491	-1.71203	2.47471	0.0133346	0.198974
gene1619	gene1619	SACOL1653	gi 57650036 ref NC_002951.2 :1682210-1683311	q1	q2	OK	29.6736	8.68865	-1.77197	2.54396	0.0109603	0.176265
gene1620	gene1620	SACOL1654	gi 57650036 ref NC_002951.2 :1683311-1683839	q1	q2	OK	39.5676	14.1392	-1.48462	2.15924	0.0308315	0.336036
gene1645	gene1645	SACOL1679	gi 57650036 ref NC_002951.2 :1709623-1709770	q1	q2	OK	149.794	2298.48	3.93963	-4.87708	1.08E-06	0.000122
gene1646	gene1646	SACOL1680	gi 57650036 ref NC_002951.2 :1709809-1709992	q1	q2	OK	23.4188	348.89	3.89703	-4.38249	1.17E-05	0.000913
gene1650	gene1650	aspS	gi 57650036 ref NC_002951.2 :1713267-1715034	q1	q2	OK	33.1294	11.324	-1.54873	2.12559	0.0335373	0.350737
gene1651	gene1651	hisS	gi 57650036 ref NC_002951.2 :1715049-1716312	q1	q2	OK	18.4624	6.0152	-1.61791	2.34709	0.0189206	0.250785
gene1659	gene1659	tgt	gi 57650036 ref NC_002951.2 :1726574-1727714	q1	q2	OK	66.0146	13.9579	-2.2417	3.06277	0.002193	0.061515
gene166	gene166	entB	gi 57650036 ref NC_002951.2 :198037-198535	q1	q2	OK	7.87711	24.4555	1.63442	-2.29481	0.0217441	0.276559
gene1660	gene1660	queA	gi 57650036 ref NC_002951.2 :1727736-1728762	q1	q2	OK	31.4997	11.6144	-1.43943	2.06984	0.0384676	0.382368
gene1666	gene1666	SACOL1701	gi 57650036 ref NC_002951.2 :1732826-1733147	q1	q2	OK	173.233	65.371	-1.40599	2.04465	0.0408898	0.394682
gene1681	gene1681	hemC	gi 57650036 ref NC_002951.2 :1747721-1748648	q1	q2	OK	30.444	8.79856	-1.79082	2.58818	0.0096484	0.163144
gene1689	gene1689	rplT	gi 57650036 ref NC_002951.2 :1756408-1756765	q1	q2	OK	395.003	64.9686	-2.60405	3.58521	0.0003368	0.014772
gene1690	gene1690	rpmI	gi 57650036 ref NC_002951.2 :1756811-1757012	q1	q2	OK	96.8904	31.4399	-1.62376	2.05746	0.0396416	0.387684
gene1691	gene1691	infC	gi 57650036 ref NC_002951.2 :1757040-1757568	q1	q2	OK	124.081	33.3282	-1.89647	2.66651	0.0076642	0.141495
gene1692	gene1692	SACOL1728	gi 57650036 ref NC_002951.2 :1757796-1759290	q1	q2	OK	14.6445	52.8993	1.85289	-2.49578	0.0125681	0.192701
gene1693	gene1693	thrS	gi 57650036 ref NC_002951.2 :1759715-1761653	q1	q2	OK	140.831	25.2379	-2.48031	2.97637	0.0029169	0.076207
gene17	gene17	purA	gi 57650036 ref NC_002951.2 :22464-23748	q1	q2	OK	32.5521	5.18668	-2.64987	3.73275	0.0001894	0.009585

gene1717	gene1717	SACOL1754	gi 57650036 ref NC_002951.2 :1795257-1795946	q1	q2	OK	64.7503	237.171	1.87297	-2.39213	0.0167511	0.231351
gene1720	gene1720	ald2	gi 57650036 ref NC_002951.2 :1797491-1798610	q1	q2	OK	305.929	75.3451	-2.02161	2.36073	0.0182391	0.244437
gene1725	gene1725	SACOL1763	gi 57650036 ref NC_002951.2 :1802448-1803219	q1	q2	OK	14.9647	4.83017	-1.63142	2.32658	0.0199878	0.260836
gene1731	gene1731	rpsD	gi 57650036 ref NC_002951.2 :1808535-1809138	q1	q2	OK	373.056	66.8362	-2.48069	3.14066	0.0016857	0.05083
gene1733	gene1733	SACOL1771	gi 57650036 ref NC_002951.2 :1810176-1810623	q1	q2	OK	16.4139	66.1029	2.0098	-2.88593	0.0039025	0.092279
gene1738	gene1738	SACOL1776	gi 57650036 ref NC_002951.2 :1816468-1817086	q1	q2	OK	48.3649	14.2598	-1.762	2.55379	0.0106558	0.173684
gene1740	gene1740	tyrS	gi 57650036 ref NC_002951.2 :1818625-1819888	q1	q2	OK	21.896	5.80778	-1.91461	2.75896	0.0057986	0.118414
gene1749	gene1749	SACOL1788	gi 57650036 ref NC_002951.2 :1833624-1835142	q1	q2	OK	70.6896	361.875	2.35592	-2.64055	0.0082771	0.148512
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	q1	q2	OK	442.383	2228.77	2.33288	-2.56084	0.0104421	0.17225
gene1763	gene1763	SACOL1802	gi 57650036 ref NC_002951.2 :1851012-1851435	q1	q2	OK	26.4529	226.759	3.09966	-4.27045	1.95E-05	0.001398
gene1770	gene1770	SACOL1809	gi 57650036 ref NC_002951.2 :1865520-1866702	q1	q2	OK	24.3572	8.30816	-1.55175	2.23946	0.0251261	0.301055
gene1782	gene1782	SACOL1821	gi 57650036 ref NC_002951.2 :1876440-1877943	q1	q2	OK	3.56678	21.4872	2.59079	-3.67366	0.0002391	0.011164
gene1792	gene1792	tal	gi 57650036 ref NC_002951.2 :1885159-1885873	q1	q2	OK	267.272	1026.97	1.94202	-2.13086	0.0331008	0.34869
gene1798	gene1798	metK	gi 57650036 ref NC_002951.2 :1891566-1892760	q1	q2	OK	38.0434	14.3081	-1.41081	1.97991	0.0477139	0.429484
gene1809	gene1809	SACOL1848	gi 57650036 ref NC_002951.2 :1902465-1903092	q1	q2	OK	10.5887	3.36042	-1.65581	2.22564	0.0260381	0.306341
gene1810	gene1810	SACOL1849	gi 57650036 ref NC_002951.2 :1903132-1903477	q1	q2	OK	10.827	2.23011	-2.27944	2.34012	0.0192776	0.25412
gene1811	gene1811	SACOL1850	gi 57650036 ref NC_002951.2 :1903574-1904126	q1	q2	OK	12.4675	2.82307	-2.14284	2.76173	0.0057496	0.118209
gene1830	gene1830	epiG	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	15.0162	161.648	3.42826	-2.21751	0.0265882	0.309278
gene1831	gene1831	epiE	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	14.3455	148.014	3.36707	-2.22898	0.0258152	0.304771
gene1832	gene1832	epiF	gi 57650036 ref NC_002951.2 :1923504-1925650	q1	q2	OK	16.2054	280.457	4.11323	-3.18219	0.0014616	0.045484
gene1833	gene1833	epiP	gi 57650036 ref NC_002951.2 :1925672-1927046	q1	q2	OK	4.9839	68.1696	3.77378	-5.05699	4.26E-07	5.82E-05
gene1837	gene1837	epiA	gi 57650036 ref NC_002951.2 :1931884-1932028	q1	q2	OK	0	74.8453	1.79769e+308	1.79769e+308	0.0351354	0.35865
gene1861	gene1861	SACOL1895	gi 57650036 ref NC_002951.2 :1949050-1949416	q1	q2	OK	131.93	668.651	2.34148	-3.0438	0.0023361	0.065024
gene1869	gene1869	SACOL1904	gi 57650036 ref NC_002951.2 :1959541-1960006	q1	q2	OK	73.9117	10.413	-2.82742	3.99696	6.42E-05	0.003969
gene1874	gene1874	SACOL1909	gi 57650036 ref NC_002951.2 :1965146-1965542	q1	q2	OK	41.641	8.40315	-2.309	3.17432	0.0015019	0.046448
gene1876	gene1876	SACOL1911	gi 57650036 ref NC_002951.2 :1966318-1966471	q1	q2	OK	698.883	2787.74	1.99597	-2.87035	0.0041002	0.094826
gene1877	gene1877	SACOL1912	gi 57650036 ref NC_002951.2 :1966495-1967095	q1	q2	OK	105.859	692.978	2.71066	-3.23992	0.0011956	0.039106
gene1909	gene1909	rrfD	gi 57650036 ref NC_002951.2 :1976940-1977055	q1	q2	OK	776204	214973	-1.85228	2.14	0.0323546	0.344846
gene1928	gene1928	SACOL1933	gi 57650036 ref NC_002951.2 :1997915-1998431	q1	q2	OK	58.1717	524.156	3.17161	-4.02727	5.64E-05	0.003551
gene1934	gene1934	SACOL1939	gi 57650036 ref NC_002951.2 :2002583-2003048	q1	q2	OK	42.5113	812.631	4.25668	-5.34474	9.05E-08	1.56E-05
gene1935	gene1935	SACOL1940	gi 57650036 ref NC_002951.2 :2003054-2003330	q1	q2	OK	256.905	1030.1	2.00348	-2.64441	0.0081833	0.14732
gene1936	gene1936	SACOL1941	gi 57650036 ref NC_002951.2 :2003607-2004825	q1	q2	OK	11.7082	90.7543	2.95444	-3.92747	8.58E-05	0.005051

gene1945	gene1945	SACOL1950	gi 57650036 ref NC_002951.2 :2011259-2011991	q1	q2	OK	69.4007	17.0063	-2.02889	2.86631	0.0041529	0.094945
gene1951	gene1951	SACOL1956	gi 57650036 ref NC_002951.2 :2016425-2016956	q1	q2	OK	65.2429	179.808	1.46256	-1.98369	0.0472906	0.426221
gene1954	gene1954	gatB	gi 57650036 ref NC_002951.2 :2020283-2021711	q1	q2	OK	112.259	36.9834	-1.60187	1.98807	0.0468041	0.424995
gene1955	gene1955	gatA	gi 57650036 ref NC_002951.2 :2021723-2023181	q1	q2	OK	61.5188	20.8544	-1.56068	2.06366	0.0390497	0.38357
gene1974	gene1974	SACOL1980	gi 57650036 ref NC_002951.2 :2043474-2044572	q1	q2	OK	6.75801	17.3126	1.35716	-1.97663	0.048084	0.430141
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	q1	q2	OK	17.1776	77.7859	2.17898	-2.70793	0.0067704	0.13101
gene199	gene199	pflA	gi 57650036 ref NC_002951.2 :242092-242848	q1	q2	OK	13.9577	43.654	1.64506	-2.369	0.0178362	0.242627
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	q1	q2	OK	0	31.7031	1.79769e+3 08	1.79769e+ 308	0.0180909	0.243354
gene1999	gene1999	SACOL2007	gi 57650036 ref NC_002951.2 :2067483-2068708	q1	q2	OK	5.84241	163.166	4.80364	-6.1158	9.61E-10	3.48E-07
gene2005	gene2005	SACOL2014	gi 57650036 ref NC_002951.2 :2074522-2075113	q1	q2	OK	4.45898	1.12936	-1.9812	2.16994	0.0300112	0.330484
gene2013	gene2013	hld	gi 57650036 ref NC_002951.2 :2082767-2082902	q1	q2	OK	100.672	1288.34	3.67778	-3.43907	0.0005837	0.022958
gene2014	gene2014	agrB	gi 57650036 ref NC_002951.2 :2083137-2083844	q1	q2	OK	101.836	827.743	3.02294	-3.55066	0.0003843	0.016359
gene2016	gene2016	argC2	gi 57650036 ref NC_002951.2 :2083868-2085161	q1	q2	OK	41.4691	292.196	2.81683	-3.32443	0.000886	0.031743
gene2017	gene2017	agrA	gi 57650036 ref NC_002951.2 :2085179-2085896	q1	q2	OK	86.3352	413.396	2.2595	-2.73448	0.0062479	0.123837
gene2065	gene2065	SACOL2072	gi 57650036 ref NC_002951.2 :2137442-2138963	q1	q2	OK	230.427	25.3663	-3.18332	3.81468	0.0001364	0.007591
gene2070	gene2070	SACOL2077	gi 57650036 ref NC_002951.2 :2143971-2144181	q1	q2	OK	9.23386	0	1.79769e+3 08	1.79769e+ 308	0.0438457	0.40838
gene2071	gene2071	SACOL2078	gi 57650036 ref NC_002951.2 :2144192-2144486	q1	q2	OK	4.61712	0	1.79769e+3 08	1.79769e+ 308	0.02679	0.309278
gene2103	gene2103	tdk	gi 57650036 ref NC_002951.2 :2170931-2171531	q1	q2	OK	63.1114	19.0424	-1.72868	2.49208	0.0126997	0.19349
gene2104	gene2104	rpmE2	gi 57650036 ref NC_002951.2 :2171877-2172132	q1	q2	OK	659.538	75.7468	-3.1222	4.35883	1.31E-05	0.000986
gene2105	gene2105	rho	gi 57650036 ref NC_002951.2 :2172249-2173566	q1	q2	OK	139.441	45.5961	-1.61267	1.97673	0.048072	0.430141
gene2106	gene2106	SACOL2114	gi 57650036 ref NC_002951.2 :2173812-2175240	q1	q2	OK	41.3865	566.421	3.77464	-4.30965	1.64E-05	0.001208
gene2111	gene2111	pyrG	gi 57650036 ref NC_002951.2 :2179334-2180945	q1	q2	OK	38.6259	9.21773	-2.06708	2.84518	0.0044387	0.098536
gene2112	gene2112	rpoE	gi 57650036 ref NC_002951.2 :2181280-2181811	q1	q2	OK	130.866	45.0353	-1.53896	2.14751	0.0317529	0.342022
gene2114	gene2114	SACOL2122	gi 57650036 ref NC_002951.2 :2183206-2184010	q1	q2	OK	16.9364	6.20962	-1.44755	2.09397	0.0362625	0.365532
gene2124	gene2124	SACOL2132	gi 57650036 ref NC_002951.2 :2192914-2193328	q1	q2	OK	4.85919	28.8047	2.56752	-3.31044	0.0009315	0.03261
gene2128	gene2128	SACOL2136	gi 57650036 ref NC_002951.2 :2197464-2198130	q1	q2	OK	15.7397	170.274	3.43539	-4.61773	3.88E-06	0.00036
gene2129	gene2129	czrA	gi 57650036 ref NC_002951.2 :2198281-2198602	q1	q2	OK	42.1089	13.0742	-1.6874	2.3027	0.0212955	0.273297
gene2139	gene2139	SACOL2147	gi 57650036 ref NC_002951.2 :2210385-2212518	q1	q2	OK	4.62651	24.116	2.382	-3.31274	0.0009239	0.03261
gene2140	gene2140	SACOL2148	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	10.4443	234.593	4.48937	-3.00084	0.0026924	0.071496
gene2141	gene2141	mtlD	gi 57650036 ref NC_002951.2 :2212529-2214070	q1	q2	OK	8.54356	131.655	3.94578	-4.2463	2.17E-05	0.001498

gene2159	gene2159	SACOL2158	gi 57650036 ref NC_002951.2 :2237138-2237612	q1	q2	OK	106.253	36.6643	-1.53506	2.20114	0.027726	0.315942
gene2160	gene2160	SACOL2159	gi 57650036 ref NC_002951.2 :2237710-2239054	q1	q2	OK	29.9209	10.6962	-1.48406	2.09858	0.035854	0.362396
gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	q1	q2	OK	70.263	10.7318	-2.71088	3.63562	0.0002773	0.012783
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	q1	q2	OK	28.2384	7.0329	-2.00547	2.89086	0.003842	0.091461
gene2169	gene2169	SACOL2168	gi 57650036 ref NC_002951.2 :2247237-2248308	q1	q2	OK	5.24728	14.5584	1.47221	-2.13733	0.0325711	0.346169
gene2170	gene2170	SACOL2169	gi 57650036 ref NC_002951.2 :2248314-2251252	q1	q2	OK	4.30844	22.3544	2.37532	-2.86377	0.0041864	0.094974
gene2174	gene2174	SACOL2173	gi 57650036 ref NC_002951.2 :2255445-2255955	q1	q2	OK	613.801	13085	4.414	-4.89478	9.84E-07	0.000116
gene2175	gene2175	SACOL2174	gi 57650036 ref NC_002951.2 :2256017-2256257	q1	q2	OK	111.485	2213.51	4.31141	-5.5741	2.49E-08	5.00E-06
gene2176	gene2176	SACOL2175	gi 57650036 ref NC_002951.2 :2256269-2256818	q1	q2	OK	99.038	3337.43	5.07461	-5.8939	3.77E-09	9.87E-07
gene2177	gene2177	opuD2	gi 57650036 ref NC_002951.2 :2256980-2258543	q1	q2	OK	26.0328	634.337	4.60684	-5.31994	1.04E-07	1.71E-05
gene2198	gene2198	SACOL2197	gi 57650036 ref NC_002951.2 :2278882-2279308	q1	q2	OK	10.6033	463.694	5.45058	-6.92813	4.26E-12	2.58E-09
gene2207	gene2207	rpsI	gi 57650036 ref NC_002951.2 :2288673-2289072	q1	q2	OK	651.818	123.658	-2.39811	3.08679	0.0020233	0.057876
gene2208	gene2208	rplM	gi 57650036 ref NC_002951.2 :2289085-2289523	q1	q2	OK	178.136	35.2143	-2.33875	3.28776	0.0010099	0.034802
gene2242	gene2242	SACOL2241	gi 57650036 ref NC_002951.2 :2307842-2308232	q1	q2	OK	195.441	617.063	1.65868	-2.10678	0.0351365	0.35865
gene2243	gene2243	SACOL2242	gi 57650036 ref NC_002951.2 :2308423-2309758	q1	q2	OK	146.974	39.142	-1.90877	2.34334	0.0191118	0.252566
gene2274	gene2274	SACOL2276	gi 57650036 ref NC_002951.2 :2336597-2337539	q1	q2	OK	6.27112	2.08081	-1.59158	2.15731	0.0309816	0.336223
gene2275	gene2275	SACOL2277	gi 57650036 ref NC_002951.2 :2337937-2338846	q1	q2	OK	56.341	14.4666	-1.96145	2.75565	0.0058576	0.119078
gene2288	gene2288	SACOL2290	gi 57650036 ref NC_002951.2 :2348766-2350722	q1	q2	OK	3.41075	11.8619	1.79817	-2.59839	0.0093663	0.161634
gene2289	gene2289	SACOL2291	gi 57650036 ref NC_002951.2 :2351331-2352135	q1	q2	OK	255.457	74.3328	-1.78101	2.19874	0.0278965	0.315942
gene2290	gene2290	nhaC	gi 57650036 ref NC_002951.2 :2352567-2353968	q1	q2	OK	6.01247	19.7338	1.71464	-2.47076	0.0134826	0.200357
gene2291	gene2291	SACOL2293	gi 57650036 ref NC_002951.2 :2354062-2355145	q1	q2	OK	6.73982	35.214	2.38537	-3.38171	0.0007204	0.027012
gene2295	gene2295	SACOL2297	gi 57650036 ref NC_002951.2 :2357958-2359083	q1	q2	OK	25.0539	8.5822	-1.54561	2.23352	0.0255147	0.303701
gene2296	gene2296	SACOL2298	gi 57650036 ref NC_002951.2 :2359393-2360170	q1	q2	OK	31.8252	12.2365	-1.37898	2.0075	0.0446959	0.413637
gene2313	gene2313	SACOL2315	gi 57650036 ref NC_002951.2 :2375491-2376022	q1	q2	OK	11.603	3.00235	-1.95033	2.50336	0.012302	0.189861
gene2319	gene2319	SACOL2321	gi 57650036 ref NC_002951.2 :2382110-2382992	q1	q2	OK	49.3209	437.295	3.14834	-3.77824	0.0001579	0.008405
gene2324	gene2324	fosB	gi 57650036 ref NC_002951.2 :2388865-2389285	q1	q2	OK	37.4541	13.5172	-1.47033	2.10437	0.0353463	0.359272
gene2325	gene2325	hutG	gi 57650036 ref NC_002951.2 :2389540-2390476	q1	q2	OK	28.3346	334.448	3.56114	-4.39372	1.11E-05	0.000877
gene2337	gene2337	gltS	gi 57650036 ref NC_002951.2 :2399778-2400987	q1	q2	OK	25.7678	7.53932	-1.77306	2.5482	0.010828	0.175699
gene2345	gene2345	SACOL2348	gi 57650036 ref NC_002951.2 :2408129-2408777	q1	q2	OK	4.96351	1.47813	-1.74759	2.0747	0.0380139	0.378414
gene2351	gene2351	SACOL2354	gi 57650036 ref NC_002951.2 :2413427-2414396	q1	q2	OK	11.0675	28.3942	1.35927	-1.96728	0.0491507	0.435378
gene2362	gene2362	SACOL2365	gi 57650036 ref NC_002951.2 :2426086-2426716	q1	q2	OK	67.5267	475.898	2.81712	-3.48144	0.0004987	0.020052
gene2369	gene2369	SACOL2373	gi 57650036 ref NC_002951.2 :2431126-2432404	q1	q2	OK	6.93588	2.35212	-1.56012	2.21295	0.0269012	0.309278
gene2370	gene2370	SACOL2374	gi 57650036 ref NC_002951.2 :2432564-2433188	q1	q2	OK	25.5739	8.85111	-1.53074	2.21385	0.0268392	0.309278

gene2375	gene2375	SACOL2379	gi 57650036 ref NC_002951.2 :2439935-2440358	q1	q2	OK	139.532	1079.45	2.95163	-3.60805	0.0003085	0.013697
gene2379	gene2379	SACOL2383	gi 57650036 ref NC_002951.2 :2442841-2443207	q1	q2	OK	34.3651	12.4675	-1.46277	2.0381	0.04154	0.39608
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	q1	q2	OK	2.59643	13.5259	2.38112	-3.36392	0.0007684	0.028229
gene2413	gene2413	SACOL2418	gi 57650036 ref NC_002951.2 :2476717-2478028	q1	q2	OK	16.0333	4.56441	-1.81257	2.62472	0.008672	0.152769
gene2427	gene2427	SACOL2433	gi 57650036 ref NC_002951.2 :2491944-2492052	q1	q2	OK	6177.46	0	1.79769e+308	1.79769e+308	0.0166856	0.231165
gene2445	gene2445	SACOL2453	gi 57650036 ref NC_002951.2 :2511709-2513568	q1	q2	OK	20.466	68.7033	1.74715	-2.01222	0.0441971	0.409545
gene2450	gene2450	pnbA	gi 57650036 ref NC_002951.2 :2517261-2518614	q1	q2	OK	14.2455	97.1388	2.76954	-3.61552	0.0002997	0.013391
gene2452	gene2452	SACOL2461	gi 57650036 ref NC_002951.2 :2520258-2521690	q1	q2	OK	7.82413	50.2842	2.6841	-3.12703	0.0017658	0.052807
gene247	gene247	SACOL0257	gi 57650036 ref NC_002951.2 :296294-297293	q1	q2	OK	6.03642	29.2591	2.27712	-3.25879	0.0011189	0.037315
gene2471	gene2471	SACOL2481	gi 57650036 ref NC_002951.2 :2537619-2537985	q1	q2	OK	6.71501	71.524	3.41297	-4.43909	9.03E-06	0.000778
gene2472	gene2472	fabG2	gi 57650036 ref NC_002951.2 :2538247-2539066	q1	q2	OK	11.1047	124.921	3.49177	-4.69936	2.61E-06	0.000252
gene2474	gene2474	SACOL2484	gi 57650036 ref NC_002951.2 :2540948-2541371	q1	q2	OK	22.0925	204.034	3.20718	-4.42492	9.65E-06	0.000812
gene2476	gene2476	SACOL2486	gi 57650036 ref NC_002951.2 :2542259-2542679	q1	q2	OK	26.8372	79.1006	1.55946	-2.26082	0.0237701	0.292955
gene2477	gene2477	SACOL2487	gi 57650036 ref NC_002951.2 :2542945-2543368	q1	q2	OK	1.16277	5.92835	2.35007	-2.13427	0.0328208	0.347766
gene2491	gene2491	SACOL2502	gi 57650036 ref NC_002951.2 :2556602-2556869	q1	q2	OK	24.6218	96.7736	1.97468	-2.72201	0.0064886	0.126644
gene2492	gene2492	SACOL2503	gi 57650036 ref NC_002951.2 :2557012-2557321	q1	q2	OK	3.50209	29.4773	3.07332	-3.31006	0.0009327	0.03261
gene2507	gene2507	SACOL2519	gi 57650036 ref NC_002951.2 :2578701-2579190	q1	q2	OK	132.678	2623.22	4.30533	-4.97663	6.47E-07	8.36E-05
gene2511	gene2511	SACOL2523	gi 57650036 ref NC_002951.2 :2584089-2585710	q1	q2	OK	3.35957	11.094	1.72342	-2.40901	0.0159959	0.224781
gene2520	gene2520	SACOL2532	gi 57650036 ref NC_002951.2 :2593791-2594076	q1	q2	OK	67.0867	252.557	1.91251	-2.74343	0.0060801	0.121216
gene2540	gene2540	SACOL2553	gi 57650036 ref NC_002951.2 :2611337-2613077	q1	q2	OK	30.4785	169.691	2.47704	-2.95261	0.003151	0.080296
gene2541	gene2541	SACOL2554	gi 57650036 ref NC_002951.2 :2613123-2614201	q1	q2	OK	15.0551	117.105	2.95947	-3.95954	7.51E-05	0.004491
gene2544	gene2544	SACOL2556	gi 57650036 ref NC_002951.2 :2615458-2615677	q1	q2	OK	5831.75	1548.34	-1.91321	2.26573	0.0234678	0.292317
gene2545	gene2545	SACOL2557	gi 57650036 ref NC_002951.2 :2616065-2616497	q1	q2	OK	218.469	52.7438	-2.05035	2.84855	0.0043918	0.098191
gene2548	gene2548	SACOL2561	gi 57650036 ref NC_002951.2 :2619623-2620790	q1	q2	OK	101.955	30.2141	-1.75464	2.27281	0.0230376	0.288469
gene2550	gene2550	SACOL2563	gi 57650036 ref NC_002951.2 :2621889-2623995	q1	q2	OK	14.7313	307.139	4.38194	-5.13105	2.88E-07	4.26E-05
gene2553	gene2553	SACOL2566	gi 57650036 ref NC_002951.2 :2626695-2629185	q1	q2	OK	10.4541	1.3955	-2.90522	4.09862	4.16E-05	0.002686
gene2559	gene2559	SACOL2572	gi 57650036 ref NC_002951.2 :2633236-2635645	q1	q2	OK	25.2703	86.7515	1.77944	-2.14361	0.0320644	0.3441
gene2564	gene2564	crtM	gi 57650036 ref NC_002951.2 :2640353-2641217	q1	q2	OK	10.9638	39.5345	1.85037	-2.65346	0.0079672	0.14471
gene2566	gene2566	SACOL2579	gi 57650036 ref NC_002951.2 :2641253-2644361	q1	q2	OK	21.0918	99.8358	2.24288	-1.96518	0.0493937	0.436462
gene2568	gene2568	SACOL2581	gi 57650036 ref NC_002951.2 :2644535-2645303	q1	q2	OK	628.435	159.656	-1.9768	2.24923	0.024498	0.296972
gene2571	gene2571	isaA	gi 57650036 ref NC_002951.2 :2648750-2649452	q1	q2	OK	2962.14	402.47	-2.87969	3.09021	0.0020002	0.057671
gene2583	gene2583	SACOL2597	gi 57650036 ref NC_002951.2 :2657438-2658269	q1	q2	OK	13.1008	83.2097	2.66709	-3.68452	0.0002291	0.01091

gene2590	gene2590	SACOL2605	gi 57650036 ref NC_002951.2 :2663464-2664274	q1	q2	OK	7.08439	51.7193	2.86799	-4.03019	5.57E-05	0.003538
gene2604	gene2604	SACOL2620	gi 57650036 ref NC_002951.2 :2677588-2678926	q1	q2	OK	17.5872	101.811	2.53329	-3.28573	0.0010172	0.034888
gene2605	gene2605	SACOL2621	gi 57650036 ref NC_002951.2 :2679183-2679600	q1	q2	OK	3.59098	104.02	4.85634	-5.94576	2.75E-09	7.66E-07
gene2609	gene2609	SACOL2625	gi 57650036 ref NC_002951.2 :2684778-2685222	q1	q2	OK	20.5906	195.298	3.24561	-4.47031	7.81E-06	0.000689
gene2611	gene2611	betA	gi 57650036 ref NC_002951.2 :2685992-2687702	q1	q2	OK	65.1788	2.91968	-4.48052	5.89181	3.82E-09	9.87E-07
gene2612	gene2612	betB	gi 57650036 ref NC_002951.2 :2687962-2689453	q1	q2	OK	111.432	2.81761	-5.30555	6.75942	1.39E-11	7.16E-09
gene2614	gene2614	SACOL2630	gi 57650036 ref NC_002951.2 :2689705-2690269	q1	q2	OK	33.1671	10.0095	-1.72838	2.49488	0.0126	0.192783
gene2616	gene2616	cudT	gi 57650036 ref NC_002951.2 :2691406-2693029	q1	q2	OK	92.8101	3.40812	-4.76723	6.15394	7.56E-10	3.04E-07
gene2618	gene2618	nrdD	gi 57650036 ref NC_002951.2 :2693547-2695931	q1	q2	OK	7.80089	35.1131	2.1703	-2.38042	0.0172928	0.237924
gene2621	gene2621	SACOL2638	gi 57650036 ref NC_002951.2 :2698040-2698646	q1	q2	OK	11.6288	3.80647	-1.61117	2.18313	0.0290265	0.324174
gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	q1	q2	OK	8.37944	2.55397	-1.71411	2.43912	0.0147229	0.210573
gene265	gene265	SACOL0275	gi 57650036 ref NC_002951.2 :313934-315269	q1	q2	OK	4.84297	1.74828	-1.46996	2.04247	0.0411049	0.395011
gene2654	gene2654	SACOL2671	gi 57650036 ref NC_002951.2 :2740324-2746753	q1	q2	OK	12.3892	75.7456	2.61208	-2.86918	0.0041154	0.094826
gene2658	gene2658	secY	gi 57650036 ref NC_002951.2 :2746763-2747975	q1	q2	OK	2.4269	0.653648	-1.89253	2.26088	0.0237665	0.292955
gene266	gene266	yukA	gi 57650036 ref NC_002951.2 :315290-319730	q1	q2	OK	4.06522	1.5851	-1.35876	1.97834	0.0478908	0.430141
gene2663	gene2663	SACOL2681	gi 57650036 ref NC_002951.2 :2757263-2757623	q1	q2	OK	29.5052	634.983	4.42767	-5.79037	7.02E-09	1.69E-06
gene2664	gene2664	SACOL2682	gi 57650036 ref NC_002951.2 :2757707-2758319	q1	q2	OK	4.82076	30.2754	2.65081	-3.67702	0.000236	0.011162
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	q1	q2	OK	0	3.01E+06	1.79769e+308	1.79769e+308	0.0351354	0.35865
gene2676	gene2676	geh	gi 57650036 ref NC_002951.2 :2767124-2769167	q1	q2	OK	61.9303	232.372	1.90772	-2.12383	0.033684	0.351535
gene2691	gene2691	SACOL2709	gi 57650036 ref NC_002951.2 :2781870-2782425	q1	q2	OK	2.11801	9.64162	2.18656	-2.67174	0.0075458	0.140745
gene2692	gene2692	SACOL2710	gi 57650036 ref NC_002951.2 :2782453-2783302	q1	q2	OK	2.99381	13.0866	2.12803	-2.95799	0.0030966	0.079597
gene2693	gene2693	SACOL2711	gi 57650036 ref NC_002951.2 :2783681-2784197	q1	q2	OK	159.522	582.861	1.86939	-2.27384	0.0229758	0.288469
gene2695	gene2695	SACOL2713	gi 57650036 ref NC_002951.2 :2785560-2786517	q1	q2	OK	37.7346	12.8199	-1.5575	2.22949	0.025781	0.304771
gene2702	gene2702	SACOL2720	gi 57650036 ref NC_002951.2 :2792353-2792929	q1	q2	OK	1.1621	15.2685	3.71575	-4.17087	3.03E-05	0.002043
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	q1	q2	OK	7.2705	85.0216	3.5477	-4.86433	1.15E-06	0.000128
gene2711	gene2711	SACOL2729	gi 57650036 ref NC_002951.2 :2800171-2800522	q1	q2	OK	3.03664	0	1.79769e+308	1.79769e+308	0.02679	0.309278
gene2713	gene2713	SACOL2731	gi 57650036 ref NC_002951.2 :2801134-2801335	q1	q2	OK	2065.53	754.558	-1.45281	1.96799	0.0490696	0.435378
gene2722	gene2722	rpmH	gi 57650036 ref NC_002951.2 :2809097-2809235	q1	q2	OK	3912.94	1201.95	-1.70287	2.46142	0.0138388	0.204544
gene290	gene290	SACOL0301	gi 57650036 ref NC_002951.2 :334780-335626	q1	q2	OK	4.70038	18.9528	2.01156	-2.87251	0.0040722	0.094761
gene293	gene293	SACOL0305	gi 57650036 ref NC_002951.2 :338871-339921	q1	q2	OK	28.6024	173.313	2.59917	-3.29774	0.0009747	0.033912
gene294	gene294	SACOL0306	gi 57650036 ref NC_002951.2 :339933-340611	q1	q2	OK	48.5474	260.877	2.42591	-3.12001	0.0018084	0.053859

gene333	gene333	SACOL0345	gi 57650036 ref NC_002951.2 :367359-367581	q1	q2	OK	13.541	50.0644	1.88645	-2.16885	0.0300938	0.330484
gene355	gene355	SACOL0367	gi 57650036 ref NC_002951.2 :373931-375918	q1	q2	OK	1.4343	5.54048	1.94966	-2.50933	0.0120959	0.187953
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	q1	q2	OK	1.45212	6.85021	2.23799	-2.84194	0.004484	0.098891
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	q1	q2	OK	37.749	9.01146	-2.06661	2.88394	0.0039273	0.092279
gene394	gene394	SACOL0406	gi 57650036 ref NC_002951.2 :412832-413273	q1	q2	OK	11.5031	3.20351	-1.8443	2.25847	0.0239167	0.292955
gene395	gene395	glpT	gi 57650036 ref NC_002951.2 :413355-414714	q1	q2	OK	49.1063	12.6501	-1.95676	2.68229	0.007312	0.137988
gene396	gene396	SACOL0408	gi 57650036 ref NC_002951.2 :415021-415882	q1	q2	OK	58.7487	174.375	1.56956	-1.98576	0.0470602	0.426221
gene407	gene407	SACOL0419	gi 57650036 ref NC_002951.2 :424851-425241	q1	q2	OK	12.3871	51.3738	2.05219	-2.8773	0.0040109	0.093938
gene424	gene424	rpsF	gi 57650036 ref NC_002951.2 :442693-442990	q1	q2	OK	326.056	87.6612	-1.89511	2.70321	0.0068673	0.132529
gene425	gene425	ssb2	gi 57650036 ref NC_002951.2 :443010-443514	q1	q2	OK	216.302	46.4933	-2.21795	3.02643	0.0024746	0.068379
gene426	gene426	rpsR	gi 57650036 ref NC_002951.2 :443565-443808	q1	q2	OK	650.221	149.441	-2.12135	3.0029	0.0026742	0.071415
gene431	gene431	SACOL0444	gi 57650036 ref NC_002951.2 :447486-448059	q1	q2	OK	22.9387	1250.85	5.76898	-6.92765	4.28E-12	2.58E-09
gene433	gene433	SACOL0446	gi 57650036 ref NC_002951.2 :448759-449011	q1	q2	OK	634.718	15736.1	4.63182	-5.34645	8.97E-08	1.56E-05
gene443	gene443	SACOL0456	gi 57650036 ref NC_002951.2 :458667-459330	q1	q2	OK	62.4563	185.204	1.5682	-2.05305	0.0400675	0.389743
gene444	gene444	SACOL0457	gi 57650036 ref NC_002951.2 :459472-459880	q1	q2	OK	1054.72	4023.41	1.93156	-2.06395	0.0390226	0.38357
gene452	gene452	SACOL0465	gi 57650036 ref NC_002951.2 :467985-468138	q1	q2	OK	46.5922	0	1.79769e+308	1.79769e+308	0.0438457	0.40838
gene455	gene455	SACOL0468	gi 57650036 ref NC_002951.2 :470356-471037	q1	q2	OK	13.6883	41.0666	1.58502	-2.29676	0.0216327	0.276112
gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	75.9809	11.8089	-2.68576	2.97177	0.0029609	0.076923
gene499	gene499	gltB	gi 57650036 ref NC_002951.2 :513657-518157	q1	q2	OK	3.98082	14.2718	1.84203	-2.5033	0.0123041	0.189861
gene500	gene500	gltD	gi 57650036 ref NC_002951.2 :518174-519638	q1	q2	OK	3.7261	12.3834	1.73267	-2.50914	0.0121025	0.187953
gene504	gene504	SACOL0518	gi 57650036 ref NC_002951.2 :523625-524354	q1	q2	OK	21.5343	8.34286	-1.36802	1.98885	0.0467173	0.42474
gene511	gene511	rrfA	gi 57650036 ref NC_002951.2 :534059-534174	q1	q2	OK	373015	80681.2	-2.20893	2.7923	0.0052334	0.110421
gene529	gene529	SACOL0540	gi 57650036 ref NC_002951.2 :548803-549184	q1	q2	OK	84.6528	998.901	3.56071	-4.50795	6.55E-06	0.000592
gene530	gene530	spoVG	gi 57650036 ref NC_002951.2 :549255-549558	q1	q2	OK	340.373	3141.43	3.20624	-3.81225	0.0001377	0.007608
gene534	gene534	rplY	gi 57650036 ref NC_002951.2 :552515-553169	q1	q2	OK	937.4	190.828	-2.29639	2.59817	0.0093723	0.161634
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	q1	q2	OK	409779	113856	-1.84764	2.28585	0.0222628	0.282659
gene562	gene562	SACOL0564	gi 57650036 ref NC_002951.2 :584964-585852	q1	q2	OK	167.145	56.5892	-1.5625	1.97813	0.0479136	0.430141
gene563	gene563	SACOL0565	gi 57650036 ref NC_002951.2 :585855-586416	q1	q2	OK	222.611	73.0966	-1.60665	2.12561	0.033536	0.350737
gene581	gene581	rplA	gi 57650036 ref NC_002951.2 :604114-604807	q1	q2	OK	710.546	154.665	-2.19978	2.52888	0.0114428	0.182325
gene582	gene582	rplJ	gi 57650036 ref NC_002951.2 :605078-605579	q1	q2	OK	209.984	34.8505	-2.59102	3.55577	0.0003769	0.016139
gene583	gene583	rplL	gi 57650036 ref NC_002951.2 :605621-605990	q1	q2	OK	742.908	90.9789	-3.02958	3.95708	7.59E-05	0.004501
gene587	gene587	SACOL0590	gi 57650036 ref NC_002951.2 :614435-614690	q1	q2	OK	212.754	26.2795	-3.01718	4.18359	2.87E-05	0.001959

gene588	gene588	rpsL	gi 57650036 ref NC_002951.2 :614787-615201	q1	q2	OK	862.506	280.331	-1.6214	1.96201	0.0497617	0.438109
gene589	gene589	rpsG	gi 57650036 ref NC_002951.2 :615266-615737	q1	q2	OK	1143.11	261.515	-2.12799	2.47745	0.0132326	0.19827
gene590	gene590	fusA	gi 57650036 ref NC_002951.2 :615859-617941	q1	q2	OK	674.365	164.957	-2.03144	2.13117	0.0330748	0.34869
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	q1	q2	OK	179.082	1032.61	2.5276	-2.7731	0.0055525	0.115648
gene606	gene606	sdrD	gi 57650036 ref NC_002951.2 :635788-639934	q1	q2	OK	70.948	17.7861	-1.99601	2.32715	0.0199573	0.260836
gene614	gene614	SACOL0617	gi 57650036 ref NC_002951.2 :650357-650990	q1	q2	OK	48.4518	197.552	2.02761	-2.68605	0.0072302	0.137697
gene624	gene624	ung	gi 57650036 ref NC_002951.2 :659763-660420	q1	q2	OK	64.941	19.561	-1.73115	2.47633	0.0132741	0.198481
gene626	gene626	SACOL0629	gi 57650036 ref NC_002951.2 :660933-661302	q1	q2	OK	59.3551	15.4858	-1.93843	2.7584	0.0058085	0.118414
gene627	gene627	SACOL0630	gi 57650036 ref NC_002951.2 :661422-662907	q1	q2	OK	24.8599	409.605	4.04234	-4.72648	2.28E-06	0.000226
gene641	gene641	SACOL0644	gi 57650036 ref NC_002951.2 :675513-676140	q1	q2	OK	1.1604	4.65289	2.0035	-2.24053	0.0250563	0.300717
gene668	gene668	SACOL0671	gi 57650036 ref NC_002951.2 :698936-699725	q1	q2	OK	76.5804	664.518	3.11726	-3.64157	0.000271	0.012571
gene669	gene669	sarA	gi 57650036 ref NC_002951.2 :699975-700350	q1	q2	OK	886.334	5032.8	2.50544	-2.72182	0.0064923	0.126644
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	q1	q2	OK	7.62842	66.0622	3.11437	-4.34484	1.39E-05	0.00104
gene675	gene675	SACOL0679	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	5.87864	59.8261	3.34722	-2.86468	0.0041743	0.094974
gene678	gene678	SACOL0682	gi 57650036 ref NC_002951.2 :703603-708245	q1	q2	OK	11.0264	65.9499	2.58041	-1.96346	0.0495927	0.437686
gene681	gene681	SACOL0686	gi 57650036 ref NC_002951.2 :708245-709439	q1	q2	OK	17.895	67.1851	1.90859	-2.04445	0.0409096	0.394682
gene706	gene706	SACOL0711	gi 57650036 ref NC_002951.2 :735702-736770	q1	q2	OK	264.959	75.0762	-1.81934	2.15527	0.0311403	0.337139
gene730	gene730	SACOL0738	gi 57650036 ref NC_002951.2 :760445-760745	q1	q2	OK	84.6887	222.143	1.39125	-2.00506	0.0449571	0.415523
gene732	gene732	SACOL0740	gi 57650036 ref NC_002951.2 :761462-762029	q1	q2	OK	14.1393	38.8079	1.45664	-2.11615	0.0343324	0.354442
gene733	gene733	SACOL0741	gi 57650036 ref NC_002951.2 :762030-762489	q1	q2	OK	8.66501	23.8622	1.46145	-2.04007	0.0413433	0.396038
gene734	gene734	SACOL0742	gi 57650036 ref NC_002951.2 :762491-763175	q1	q2	OK	39.1451	170.086	2.11937	-2.82164	0.0047779	0.102605
gene754	gene754	SACOL0763	gi 57650036 ref NC_002951.2 :785704-786544	q1	q2	OK	22.212	99.4452	2.16257	-2.94364	0.0032437	0.08208
gene755	gene755	SACOL0764	gi 57650036 ref NC_002951.2 :786675-787659	q1	q2	OK	45.0892	172.447	1.9353	-2.43247	0.0149964	0.21364
gene773	gene773	hisC	gi 57650036 ref NC_002951.2 :807522-808581	q1	q2	OK	10.0851	47.8801	2.24721	-3.14709	0.001649	0.050143
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	q1	q2	OK	0	560.512	1.79769e+308	1.79769e+308	0.0014505	0.045442
gene776	gene776	SACOL0787	gi 57650036 ref NC_002951.2 :810153-811071	q1	q2	OK	31.4284	320.723	3.35119	-4.14308	3.43E-05	0.002254
gene778	gene778	SACOL0789	gi 57650036 ref NC_002951.2 :813186-813687	q1	q2	OK	37.0683	12.106	-1.61447	2.33212	0.0196943	0.25867
gene779	gene779	SACOL0790	gi 57650036 ref NC_002951.2 :813706-814573	q1	q2	OK	28.3729	10.5832	-1.42273	2.06931	0.0385168	0.382368
gene793	gene793	SACOL0804	gi 57650036 ref NC_002951.2 :826824-827145	q1	q2	OK	70.8922	232.721	1.7149	-2.44657	0.0144224	0.207918
gene820	gene820	SACOL0831	gi 57650036 ref NC_002951.2 :856420-858324	q1	q2	OK	41.8131	256.844	2.61887	-2.53076	0.0113815	0.182229
gene821	gene821	SACOL0832	gi 57650036 ref NC_002951.2 :858433-859378	q1	q2	OK	53.8533	225.301	2.06475	-2.54553	0.0109111	0.176027
gene824	gene824	SACOL0834	gi 57650036 ref NC_002951.2 :860780-861683	q1	q2	OK	22.8216	112.016	2.29523	-3.07401	0.002112	0.05994

gene825	gene825	SACOL0835	gi 57650036 ref NC_002951.2 :862386-863016	q1	q2	OK	45.2098	221.264	2.29106	-3.0182	0.0025428	0.069181
gene827	gene827	gapR	gi 57650036 ref NC_002951.2 :863775-864789	q1	q2	OK	66.6208	359.669	2.43263	-2.86586	0.0041588	0.094945
gene828	gene828	gapA1	gi 57650036 ref NC_002951.2 :864841-865852	q1	q2	OK	302.645	1562.03	2.36772	-2.51447	0.0119213	0.186337
gene829	gene829	pgk	gi 57650036 ref NC_002951.2 :865990-867181	q1	q2	OK	68.7632	317.513	2.20711	-2.56246	0.0103932	0.172118
gene83	gene83	SACOL0086	gi 57650036 ref NC_002951.2 :96318-97707	q1	q2	OK	3.2129	8.34409	1.37688	-1.99163	0.0464112	0.423595
gene830	gene830	tpiA	gi 57650036 ref NC_002951.2 :867302-868064	q1	q2	OK	87.9204	403.604	2.19867	-2.64	0.0082906	0.148512
gene831	gene831	pgm	gi 57650036 ref NC_002951.2 :868066-869584	q1	q2	OK	79.8196	292.043	1.87137	-2.10235	0.0355228	0.360558
gene846	gene846	clfA	gi 57650036 ref NC_002951.2 :880642-883444	q1	q2	OK	93.3653	1037.04	3.47344	-3.76697	0.0001652	0.008729
gene853	gene853	SACOL0863	gi 57650036 ref NC_002951.2 :889728-890013	q1	q2	OK	5.70951	31.1372	2.4472	-2.78121	0.0054157	0.113604
gene854	gene854	SACOL0864	gi 57650036 ref NC_002951.2 :890100-890670	q1	q2	OK	6.5864	0.89518	-2.87924	3.0234	0.0024995	0.06878
gene857	gene857	SACOL0868	gi 57650036 ref NC_002951.2 :891875-892112	q1	q2	OK	39.8813	528.328	3.72765	-5.04833	4.46E-07	5.86E-05
gene86	gene86	SACOL0089	gi 57650036 ref NC_002951.2 :100186-101962	q1	q2	OK	4.86145	22.4486	2.20717	-3.11626	0.0018316	0.054042
gene860	gene860	SACOL0871	gi 57650036 ref NC_002951.2 :893762-894257	q1	q2	OK	14.2047	96.1957	2.7596	-3.89027	0.0001001	0.005706
gene861	gene861	SACOL0872	gi 57650036 ref NC_002951.2 :894655-895078	q1	q2	OK	15.988	189.707	3.56871	-4.88807	1.02E-06	0.000117
gene867	gene867	SACOL0879	gi 57650036 ref NC_002951.2 :898250-899129	q1	q2	OK	65.0803	18.3554	-1.82602	2.54656	0.010879	0.176027
gene874	gene874	sek	gi 57650036 ref NC_002951.2 :904799-905528	q1	q2	OK	18.061	6.46572	-1.482	2.13611	0.0326704	0.346679
gene89	gene89	SACOL0092	gi 57650036 ref NC_002951.2 :104707-105181	q1	q2	OK	6.05831	53.1833	3.13399	-4.26126	2.03E-05	0.001428
gene900	gene900	SACOL0912	gi 57650036 ref NC_002951.2 :919636-919831	q1	q2	OK	2853.72	58362.5	4.35413	-4.94854	7.48E-07	9.49E-05
gene908	gene908	SACOL0920	gi 57650036 ref NC_002951.2 :927096-927411	q1	q2	OK	2.78684	0	1.79769e+308	1.79769e+308	0.0438457	0.40838
gene909	gene909	SACOL0921	gi 57650036 ref NC_002951.2 :927775-928816	q1	q2	OK	13.1703	62.1485	2.23843	-3.09153	0.0019913	0.057644
gene91	gene91	spa	gi 57650036 ref NC_002951.2 :107363-108890	q1	q2	OK	106.424	9.22015	-3.52889	4.55517	5.23E-06	0.00048
gene910	gene910	SACOL0922	gi 57650036 ref NC_002951.2 :928829-929897	q1	q2	OK	9.28466	34.1717	1.87988	-2.68097	0.0073408	0.137988
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	q1	q2	OK	8.30008	107.927	3.70079	-4.84367	1.27E-06	0.000138
gene973	gene973	fabH	gi 57650036 ref NC_002951.2 :994755-995697	q1	q2	OK	82.0133	13.5252	-2.6002	3.56697	0.0003611	0.015577
gene989	gene989	SACOL1003	gi 57650036 ref NC_002951.2 :1011207-1011927	q1	q2	OK	28.8795	179.086	2.63254	-3.48904	0.0004848	0.019709

Supplementary Table S11. Differentially expressed genes in MVR compared with MR150, related to Supplementary Figure S8

test_id	gene_id	gene	locus	MVR	MR150	status	FPKM(MV R)	FPKM(M R150)	log2(fold_ change)	test_stat	p_value	q_value
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	q1	q2	OK	333.041	100.915	-1.72255	2.18126	0.029164	0.324708
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	q1	q2	OK	280.592	83.5847	-1.74716	1.96766	0.049107	0.435378
gene1068	gene1068	purD	gi 57650036 ref NC_002951.2 :1092908-1094156	q1	q2	OK	480.77	123.484	-1.96103	2.15723	0.0309881	0.336223
gene1154	gene1154	SACOL1170	gi 57650036 ref NC_002951.2 :1178160-1178406	q1	q2	OK	17.2158	0	1.79769e+3 08	1.79769e+3 08	0.008676	0.152769
gene1347	gene1347	guaC	gi 57650036 ref NC_002951.2 :1376436-1377515	q1	q2	OK	20.8626	6.69204	-1.6404	2.36693	0.0179363	0.242627
gene1442	gene1442	SACOL1469	gi 57650036 ref NC_002951.2 :1478930-1479062	q1	q2	OK	217.965	0	1.79769e+3 08	1.79769e+3 08	0.02679	0.309278
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	q1	q2	OK	0	5.24298	1.79769e+3 08	1.79769e+3 08	0.0114882	0.182325
gene1545	gene1545	SACOL1579	gi 57650036 ref NC_002951.2 :1614543-1617039	q1	q2	OK	3.19232	1.06745	-1.58044	2.23713	0.0252778	0.302373
gene1547	gene1547	SACOL1581	gi 57650036 ref NC_002951.2 :1617468-1617729	q1	q2	OK	20.8076	2.01969	-3.36491	2.59539	0.0094482	0.161634
gene17	gene17	purA	gi 57650036 ref NC_002951.2 :22464-23748	q1	q2	OK	32.5521	10.3137	-1.65819	2.34309	0.0191248	0.252566
gene1883	gene1883	SACOL1918	gi 57650036 ref NC_002951.2 :1972990-1974310	q1	q2	OK	1.01386	0.13674	-2.89032	2.21372	0.0268481	0.309278
gene1998	gene1998	SACOL2006	gi 57650036 ref NC_002951.2 :2065993-2067049	q1	q2	OK	1.96805	0.3578	-2.45956	2.48541	0.0129401	0.195099
gene2000	gene2000	SACOL2009	gi 57650036 ref NC_002951.2 :2069079-2069925	q1	q2	OK	1.88015	0	1.79769e+3 08	1.79769e+3 08	0.0063651	0.125174
gene2070	gene2070	SACOL2077	gi 57650036 ref NC_002951.2 :2143971-2144181	q1	q2	OK	9.23386	0	1.79769e+3 08	1.79769e+3 08	0.0438457	0.40838
gene219	gene219	SACOL0228	gi 57650036 ref NC_002951.2 :266687-269236	q1	q2	OK	1.90491	0.32298	-2.5602	2.8262	0.0047103	0.101483
gene2256	gene2256	sarV	gi 57650036 ref NC_002951.2 :2324349-2324700	q1	q2	OK	4.77187	15.867	1.73341	-2.06407	0.0390113	0.38357
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	q1	q2	OK	4.48861	0.86332	-2.3783	2.66757	0.0076402	0.141411
gene241	gene241	SACOL0250	gi 57650036 ref NC_002951.2 :290131-290923	q1	q2	OK	1.95587	0.25863	-2.91888	2.23559	0.0253787	0.303073
gene2425	gene2425	SACOL2430	gi 57650036 ref NC_002951.2 :2487795-2489529	q1	q2	OK	2.01415	0.29954	-2.74934	3.11605	0.0018329	0.0540416
gene2551	gene2551	feoB	gi 57650036 ref NC_002951.2 :2624246-2626241	q1	q2	OK	3.00539	1.02399	-1.55335	2.14534	0.0319253	0.343304
gene2662	gene2662	SACOL2680	gi 57650036 ref NC_002951.2 :2756807-2757110	q1	q2	OK	3.67309	0	1.79769e+3 08	1.79769e+3 08	0.0325745	0.346169
gene2690	gene2690	SACOL2708	gi 57650036 ref NC_002951.2 :2779275-2781818	q1	q2	OK	2.04255	0.40493	-2.33462	2.1972	0.0280065	0.316692
gene2716	gene2716	SACOL2734	gi 57650036 ref NC_002951.2 :2802753-2803107	q1	q2	OK	4.25552	0	1.79769e+3 08	1.79769e+3 08	0.0166856	0.231165

gene358	gene358	SACOL0370	gi 57650036 ref NC_002951.2 :377929-379093	q1	q2	OK	5.91036	2.22408	-1.41004	1.97146	0.048671	0.43325
gene363	gene363	SACOL0375	gi 57650036 ref NC_002951.2 :380612-381254	q1	q2	OK	2.65719	0.34632	-2.93973	2.25156	0.0243501	0.296308
gene371	gene371	SACOL0383	gi 57650036 ref NC_002951.2 :391344-395267	q1	q2	OK	1.69885	0.35808	-2.24619	2.31429	0.0206516	0.267842
gene377	gene377	SACOL0389	gi 57650036 ref NC_002951.2 :396061-397516	q1	q2	OK	1.56785	0.48815	-1.68338	1.96658	0.0492322	0.435566
gene459	gene459	SACOL0472	gi 57650036 ref NC_002951.2 :473731-474658	q1	q2	OK	1.6636	0	-	-	0.0063651	0.125174
gene477	gene477	SACOL0490	gi 57650036 ref NC_002951.2 :490668-490929	q1	q2	OK	18.9983	4.03937	-2.23367	2.22217	0.0262716	0.30765
gene478	gene478	SACOL0491	gi 57650036 ref NC_002951.2 :491047-492250	q1	q2	OK	3.5842	1.06882	-1.74563	2.26105	0.0237559	0.292955
gene486	gene486	SACOL0501	gi 57650036 ref NC_002951.2 :501147-502485	q1	q2	OK	2.67746	0.67291	-1.99239	2.45469	0.0141008	0.204943
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	q1	q2	OK	409779	134529	-1.60693	1.99159	0.0464158	0.423595
gene557	gene557	rrfB	gi 57650036 ref NC_002951.2 :577661-577776	q1	q2	OK	546950	169070	-1.69379	2.04197	0.0411549	0.395011
gene728	gene728	SACOL0736	gi 57650036 ref NC_002951.2 :759402-759846	q1	q2	OK	3.16779	0	-	-	0.0129732	0.195191
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	q1	q2	OK	0	75.521	-	-	0.0114882	0.182325
gene844	gene844	SACOL0854	gi 57650036 ref NC_002951.2 :879189-879711	q1	q2	OK	1.95912	0	-	-	0.0166856	0.231165
gene935	gene935	SACOL0948	gi 57650036 ref NC_002951.2 :950400-951555	q1	q2	OK	1.69602	0.48108	-1.81781	2.00177	0.0453093	0.41665
gene96	gene96	SACOL0100	gi 57650036 ref NC_002951.2 :113693-114641	q1	q2	NOTES T	0.726916	0	-	-	0.019226	1
gene990	gene990	SACOL1004	gi 57650036 ref NC_002951.2 :1012047-1013034	q1	q2	NOTES T	0.919699	0	-	-	0.0129732	1

Supplementary Table S12. COG functional classifications for Figure 4

COG class	Function description	The number of diff_exp genes							
		MR100 vs M18C06		MU30 vs M18C06		MR150 vs M36C05		MVR vs M36C05	
		up-regulated	down-regulated	up-regulated	down-regulated	up-regulated	down-regulated	up-regulated	down-regulated
C	Energy production and conversion	11	0	6	3	3	8	2	5
D	Cell cycle control, cell division, chromosome partitioning	1	1	0	0	0	1	1	1
E	Amino acid transport and metabolism	8	1	5	23	16	21	14	16
F	Nucleotide transport and metabolism	9	0	5	0	12	1	18	2
G	Carbohydrate transport and metabolism	5	3	2	6	4	19	5	16
H	Coenzyme transport and metabolism	6	0	0	2	9	3	7	1
I	Lipid transport and metabolism	7	1	3	1	6	6	5	5
J	Translation, ribosomal structure and biogenesis	52	1	28	0	46	2	36	2
K	Transcription	19	3	4	1	13	15	12	9
L	Replication, recombination and repair	6	2	3	1	7	2	6	1
M	Cell wall/membrane/envelope biogenesis	3	4	2	0	6	21	6	13
N	Cell motility	0	0	0	0	0	1	0	1
O	Posttranslational modification, protein turnover, chaperones	2	0	2	0	6	10	1	6
P	Inorganic ion transport and metabolism	7	0	2	10	5	10	5	11
Q	Secondary metabolites biosynthesis, transport and catabolism	1	0	1	2	1	5	1	4
R	General function prediction only	10	3	3	12	18	32	16	24
S	Function unknown	14	6	6	6	16	31	11	21
T	Signal transduction mechanisms	4	0	1	0	2	6	1	6
U	Intracellular trafficking, secretion, and vesicular transport	2	0	2	0	2	1	1	1
V	Defense mechanisms	0	0	0	3	3	5	3	3

Supplementary Table S13. Relative *in vitro* ursolic acid and resveratrol inhibiting MRSA biofilm formation genes, related to Figure 5a and 5b

locus No.	gene name	product	fold induction	
			MR100 vs M18C6	MU30 vs M18C06
gene1001	fabI	enoyl-ACP reductase	2.86	6.5
gene1066	purN	phosphoribosylglycinamide formyltransferase	5.5	6.82
gene1067	purH	bifunctional phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase	4.33	-
gene1068	purD	phosphoribosylamine--glycine ligase	5.65	6.53
gene1123	isdB	LPXTG cell wall surface anchor protein	-	0.089
gene1129	srtB	sortase	-	0.038
gene130	cap5A	capsular polysaccharide biosynthesis protein Cap5A	0.137	-
gene131	cap5B	capsular polysaccharide biosynthesis protein Cap5B	0.144	-
gene132	cap5C	capsular polysaccharide biosynthesis protein Cap5C	0.219	-
gene135	cap5F	capsular polysaccharide biosynthesis protein Cap5F	0.303	-
gene136	cap5G	UDP-N-acetylglucosamine 2-epimerase Cap5G	0.348	-
gene1444	ebh	cell wall associated fibronectin-binding protein	-	0.186
gene1623	SACOL1657	enterotoxin type A	-	0.028
gene1658	yajC	preprotein translocase, YajC subunit	2.3	10.6
gene1720	ald2	alanine dehydrogenase	3.79	5.27
gene1964	sspB2	cysteine protease precursor SspB	-	0.037
gene2013	hld	delta-hemolysin	20.18	53.58
gene2050	rsbU	sigma factor B regulator protein	2.23	-
gene2060	kdpB	potassium-transporting ATPase subunit B	-	0.109
gene2061	kdpA	potassium-transporting ATPase subunit A	-	0.06
gene2109	fbaA	fructose-bisphosphate aldolase	3.89	-
gene2137	glmS	glucosamine--fructose-6-phosphate aminotransferase	-	7.4
gene2571	isaA	immunodominant antigen A	-	13.37
gene2638	arcD	arginine/ornithine antiporter	-	0.049
gene2639	arcB2	ornithine carbamoyltransferase	-	0.039
gene2640	arcA	arginine deiminase	-	0.02
gene2642	aur		-	0.019
gene605	sdrC	sdrC protein	-	0.128

gene75	plc	1-phosphatidylinositol phosphodiesterase	-	0.059
gene875	sei	enterotoxin type I	0.459	-
gene91	spa	immunoglobulin G binding protein A precursor	12.89	-

Supplementary Table S14. Relative in vitro resveratrol and the combination with vancomycin removing established MRSA biofilm genes, related to Figure 5c

locus No.	gene name	product	fold induction		
			MR150 vs M36C05	MVR vs M36C05	MVR vs MV
gene2017	agrA	accessory gene regulator protein A	0.255	0.209	-
gene2014	agrB	ccessory gene regulator protein B	0.135	0.123	-
gene2016	argC2	accessory gene regulator protein C	0.169	0.142	-
gene2640	arcA	arginine deiminase	3.068	3.281	-
gene130	cap5A	capsular polysaccharide biosynthesis protein Cap5A	0.01	0.014	-
gene131	cap5B	capsular polysaccharide biosynthesis protein Cap5B	0.008	0.009	-
gene132	cap5C	capsular polysaccharide biosynthesis protein Cap5C	0.011	0.022	-
gene133	cap5D	capsular polysaccharide biosynthesis protein Cap5D	0.019	0.02	-
gene134	cap5E	capsular polysaccharide biosynthesis protein Cap5E	0.025	0.038	-
gene135	cap5F	capsular polysaccharide biosynthesis protein Cap5F	0.032	0.06	-
gene136	cap5G	UDP-N-acetylglucosamine 2-epimerase Cap5G	0.056	0.078	-
gene141	cap5L	capsular polysaccharide biosynthesis protein Cap5L	0.079	0.231	-
gene142	cap5M	capsular polysaccharide biosynthesis galactosyltransferase Cap5M	0.158	-	-
gene143	cap5N	capsular polysaccharide biosynthesis protein Cap5N	0.225	-	-
gene144	cap5O	capsular polysaccharide biosynthesis protein Cap5O	0.278	0.357	-
gene1199	carA	carbamoyl phosphate synthase small subunit	12.14	12.18	-
gene1200	carB	carbamoyl phosphate synthase large subunit	12.65	13.61	-
gene846	clfA	clumping factor A	0.093	0.09	-
gene965	clpB	ATP-dependent Clp protease, ATP-binding subunit ClpB	4.95	-	-
gene1152	efb	fibrinogen-binding protein	3.13	4.27	-
gene828	gapA1	glyceraldehyde 3-phosphate dehydrogenase	0.158	0.194	-
gene827	gapR	glycolytic operon regulator	0.197	0.185	-
gene2013	hld	delta-hemolysin	0.26	0.078	-
gene2325	hutG	formimidoylglutamase	0.081	0.085	-
gene7	hutH	histidine ammonia-lyase	4.01	-	-
gene2195	hysA	hyaluronate lyase	0.182	-	-
gene2571	isaA	immunodominant antigen A	7.32	7.36	-
gene1180	mraY	phospho-N-acetylmuramoyl-pentapeptide-transferase	6.25	6.66	-

gene1181	murD	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate synthetase	5.34	5.87	-
gene199	pflA	pyruvate formate-lyase-activating enzyme	0.257	0.32	-
gene198	pflB	formate acetyltransferase	0.121	0.221	-
gene829	pgk	phosphoglycerate kinase	0.183	0.217	-
gene17	purA	adenylosuccinate synthetase	-	6.28	3.16
gene1068	purD	phosphoribosylamine--glycine ligase	-	7.69	3.89
gene1067	purH	bifunctional phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase	-	5.81	3.36
gene1066	purN	phosphoribosylglycinamide formyltransferase	-	5.65	3.3
gene1197	pyrB	aspartate carbamoyltransferase catalytic subunit	11.68	10.72	-
gene1198	pyrC	dihydroorotase	8.21	8.65	-
gene1202	pyrE	orotate phosphoribosyltransferase	19.01	16.75	-
gene1201	pyrF	orotidine 5\'-phosphate decarboxylase	9.65	9.84	-
gene2111	pyrG	CTP synthetase	4.42	4.19	-
gene1195	pyrR	bifunctional pyrimidine regulatory protein PyrR uracil phosphoribosyltransferase	3.44	2.82	-
gene669	sarA	accessory regulator A	0.109	0.176	-
gene606	sdrD	sdrD protein	4.64	3.99	-
gene874	sek	enterotoxin	3.94	2.79	-
gene91	spa	immunoglobulin G binding protein A precursor	13.37	11.54	-
gene530	spoVG	regulatory protein SpoVG	0.114	0.108	-

Supplementary Table S15. Differentially expressed genes in MV compared with M36

test_id	gene_id	gene	locus	MV	M36	status	FPKM(MV)	FPKM(M36)	log2(fold change)	test_stat	p_value	q_value
gene1030	gene1030	SACOL1044	gi 57650036 ref NC_002951.2 :1052385-1052742	q1	q2	OK	26.3732	58.5592	1.15082	-2.0633	0.0390843	0.997376
gene1056	gene1056	SACOL1071	gi 57650036 ref NC_002951.2 :1080737-1081055	q1	q2	OK	295.386	131.263	-1.17014	2.47397	0.013362	0.564486
gene1059	gene1059	purK	gi 57650036 ref NC_002951.2 :1082921-1084515	q1	q2	OK	55.578	17.4756	-1.66918	3.22184	0.0012737	0.10954
gene1060	gene1060	purC	gi 57650036 ref NC_002951.2 :1084518-1085486	q1	q2	OK	47.1285	14.2345	-1.7272	3.04567	0.0023216	0.174703
gene1061	gene1061	purS	gi 57650036 ref NC_002951.2 :1084518-1085486	q1	q2	OK	129.819	35.4538	-1.87249	1.98063	0.0476327	0.997376
gene1063	gene1063	purL	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	94.8901	27.8427	-1.76896	2.73083	0.0063175	0.316927
gene1064	gene1064	purF	gi 57650036 ref NC_002951.2 :1085487-1090825	q1	q2	OK	82.6696	25.1031	-1.71949	2.00246	0.0452349	0.997376
gene1066	gene1066	purN	gi 57650036 ref NC_002951.2 :1090827-1091394	q1	q2	OK	61.422	22.346	-1.45874	2.91119	0.0036006	0.20595
gene1067	gene1067	purH	gi 57650036 ref NC_002951.2 :1091408-1092887	q1	q2	OK	47.4631	21.2594	-1.15871	2.59288	0.0095175	0.432418
gene1082	gene1082	SACOL1097	gi 57650036 ref NC_002951.2 :1107647-1107827	q1	q2	OK	81.8319	312.72	1.93414	-2.78383	0.0053721	0.28122
gene115	gene115	SACOL0119	gi 57650036 ref NC_002951.2 :134365-135091	q1	q2	OK	26.663	8.84394	-1.59208	2.96896	0.0029881	0.194471
gene1290	gene1290	SACOL1310	gi 57650036 ref NC_002951.2 :1327296-1327590	q1	q2	OK	7.23585	0	1.79769e+308	1.79769e+308	0.0189988	0.699884
gene1375	gene1375	SACOL1400	gi 57650036 ref NC_002951.2 :1410031-1411294	q1	q2	OK	64.773	23.4976	-1.46288	3.26784	0.0010837	0.100519
gene144	gene144	cap50	gi 57650036 ref NC_002951.2 :167488-168751	q1	q2	OK	11.5531	24.3679	1.07671	-2.22587	0.0260228	0.870319
gene150	gene150	SACOL0156	gi 57650036 ref NC_002951.2 :174334-174538	q1	q2	OK	617.616	1478.68	1.25953	-2.71641	0.0065994	0.318806
gene151	gene151	SACOL0157	gi 57650036 ref NC_002951.2 :174716-175229	q1	q2	OK	7.23362	64.6596	3.16008	-5.26743	1.38E-07	4.16E-05
gene152	gene152	SACOL0158	gi 57650036 ref NC_002951.2 :175570-178057	q1	q2	OK	2.2321	9.56676	2.09963	-3.52082	0.0004302	0.0545232
gene154	gene154	SACOL0160	gi 57650036 ref NC_002951.2 :178069-179101	q1	q2	OK	1.21303	7.55108	2.63807	-3.60233	0.0003154	0.0421911
gene1540	gene1540	SACOL1574	gi 57650036 ref NC_002951.2 :1609249-1609591	q1	q2	OK	0	4.80774	1.79769e+308	1.79769e+308	0.0237338	0.820442
gene1546	gene1546	SACOL1580	gi 57650036 ref NC_002951.2 :1617073-1617457	q1	q2	OK	5.08307	0.45905	-3.46898	2.0703	0.0384247	0.997376
gene164	gene164	rocD1	gi 57650036 ref NC_002951.2 :194969-196154	q1	q2	OK	2.24998	0.627215	-1.84288	2.09483	0.0361862	0.997376
gene1670	gene1670	SACOL1705	gi 57650036 ref NC_002951.2 :1735392-1735866	q1	q2	OK	110.092	25.4647	-2.11214	4.19816	2.69E-05	0.0053999
gene1742	gene1742	SACOL1781	gi 57650036 ref NC_002951.2 :1821377-1824065	q1	q2	OK	5.2721	2.14228	-1.29923	2.46731	0.0136131	0.565178
gene1750	gene1750	SACOL1789	gi 57650036 ref NC_002951.2 :1835215-1835707	q1	q2	OK	1743.21	3504.01	1.00727	-2.18912	0.0285878	0.899141
gene1778	gene1778	ribH	gi 57650036 ref NC_002951.2 :1872608-1873073	q1	q2	OK	5.46259	27.6383	2.33901	-3.44279	0.0005757	0.066019
gene1779	gene1779	ribBA	gi 57650036 ref NC_002951.2 :1873085-1874267	q1	q2	OK	6.87334	28.2343	2.03836	-4.0523	5.07E-05	0.0093944
gene1780	gene1780	ribE	gi 57650036 ref NC_002951.2 :1874277-1874910	q1	q2	OK	9.42674	29.4189	1.64191	-3.00321	0.0026715	0.182142
gene1781	gene1781	ribD	gi 57650036 ref NC_002951.2 :1874916-1875960	q1	q2	OK	8.2495	35.6421	2.1112	-4.22408	2.40E-05	0.0052521
gene179	gene179	SACOL0185	gi 57650036 ref NC_002951.2 :216034-217342	q1	q2	OK	4.2684	12.7215	1.57551	-2.95729	0.0031035	0.196667

gene180	gene180	SACOL0186	gi 57650036 ref NC_002951.2 :217347-218511	q1	q2	OK	2.61306	10.1792	1.96181	-3.28631	0.0010151	0.100519		
gene1801	gene1801	SACOL1840	gi 57650036 ref NC_002951.2 :1895718-1896949	q1	q2	OK	8.17502	19.9514	1.2872	-1.98346	0.0473165	0.997376		
gene181	gene181	SACOL0187	gi 57650036 ref NC_002951.2 :218527-220303	q1	q2	OK	2.99295	7.33441	1.29311	-2.41	0.0159526	0.629736		
gene182	gene182	ggt	gi 57650036 ref NC_002951.2 :220340-222347	q1	q2	OK	2.71925	7.65342	1.4929	-2.81507	0.0048766	0.260952		
gene1824	gene1824	SACOL1865	gi 57650036 ref NC_002951.2 :1917446-1918163	q1	q2	OK	0	1.22101	1.79769e+308	1.79769e+308	0.0237338	0.820442		
gene1880	gene1880	SACOL1915	gi 57650036 ref NC_002951.2 :1969006-1971179	q1	q2	OK	95.0866	3.42721	-4.79413	6.32973	2.46E-10	1.48E-07		
gene1881	gene1881	SACOL1916	gi 57650036 ref NC_002951.2 :1969006-1971179	q1	q2	OK	47.0631	1.40474	-5.06622	6.87693	6.12E-12	7.36E-09		
gene1927	gene1927	SACOL1932	gi 57650036 ref NC_002951.2 :1996765-1997575	q1	q2	OK	121.969	36.7394	-1.73111	3.85058	0.0001178	0.0177348		
gene198	gene198	pflB	gi 57650036 ref NC_002951.2 :239820-242070	q1	q2	OK	28.4022	9.93663	-1.51518	3.34499	0.0008229	0.090065		
gene1992	gene1992	SACOL1998	gi 57650036 ref NC_002951.2 :2058954-2059131	q1	q2	OK	50.9989	0	-	-	1.79769e+308	1.79769e+308	0.0152916	0.613703
gene1998	gene1998	SACOL2006	gi 57650036 ref NC_002951.2 :2065993-2067049	q1	q2	OK	2.59298	0.633769	-2.03258	2.24322	0.0248829	0.843917		
gene2040	gene2040	rrfE	gi 57650036 ref NC_002951.2 :2112006-2112121	q1	q2	OK	957814	422847	-1.17961	2.71539	0.0066197	0.318806		
gene2165	gene2165	SACOL2164	gi 57650036 ref NC_002951.2 :2242248-2243619	q1	q2	OK	60.9818	6.8988	-3.14396	6.62562	3.46E-11	2.78E-08		
gene2168	gene2168	SACOL2167	gi 57650036 ref NC_002951.2 :2245862-2246846	q1	q2	OK	19.0659	9.31546	-1.0333	2.02476	0.0428922	0.997376		
gene2276	gene2276	SACOL2278	gi 57650036 ref NC_002951.2 :2339059-2340214	q1	q2	OK	22.7918	90.9592	1.9967	-4.44533	8.78E-06	0.0021132		
gene2354	gene2354	SACOL2357	gi 57650036 ref NC_002951.2 :2415466-2417187	q1	q2	OK	10.0183	3.44046	-1.54197	2.38666	0.0170022	0.649864		
gene2382	gene2382	SACOL2386	gi 57650036 ref NC_002951.2 :2444801-2445971	q1	q2	OK	6.64764	2.30965	-1.52516	2.4415	0.0146264	0.596957		
gene2395	gene2395	nirR	gi 57650036 ref NC_002951.2 :2460980-2461712	q1	q2	OK	7.06665	2.66637	-1.40615	1.9767	0.0480761	0.997376		
gene2430	gene2430	SACOL2436	gi 57650036 ref NC_002951.2 :2494042-2494702	q1	q2	OK	181.216	66.9372	-1.43683	3.24863	0.0011596	0.103422		
gene2558	gene2558	SACOL2571	gi 57650036 ref NC_002951.2 :2632805-2632997	q1	q2	OK	438.985	127.355	-1.78532	3.01587	0.0025624	0.182142		
gene2638	gene2638	arcD	gi 57650036 ref NC_002951.2 :2715887-2717318	q1	q2	OK	6.53359	1.99809	-1.70925	2.82087	0.0047894	0.260952		
gene2639	gene2639	arcB2	gi 57650036 ref NC_002951.2 :2717408-2718419	q1	q2	OK	4.73033	0.861358	-2.45726	2.99739	0.0027231	0.182142		
gene2640	gene2640	arcA	gi 57650036 ref NC_002951.2 :2718451-2719687	q1	q2	OK	2.33253	0.446736	-2.3844	2.55715	0.0105533	0.470598		
gene2643	gene2643	isaB	gi 57650036 ref NC_002951.2 :2722802-2723330	q1	q2	OK	0	1.48187	1.79769e+308	1.79769e+308	0.0353804	0.997376		
gene2675	gene2675	SACOL2693	gi 57650036 ref NC_002951.2 :2767031-2767097	q1	q2	OK	0	1.17E+06	1.79769e+308	1.79769e+308	0.0287516	0.899141		
gene2699	gene2699	SACOL2717	gi 57650036 ref NC_002951.2 :2788687-2789152	q1	q2	OK	15.6074	34.7808	1.15606	-2.07716	0.0377865	0.997376		
gene2704	gene2704	SACOL2722	gi 57650036 ref NC_002951.2 :2794352-2795147	q1	q2	OK	0	2.90017	1.79769e+308	1.79769e+308	0.0035771	0.20595		
gene2705	gene2705	SACOL2723	gi 57650036 ref NC_002951.2 :2795280-2795793	q1	q2	OK	36.8257	93.2241	1.33999	-2.76651	0.0056659	0.290289		
gene328	gene328	SACOL0340	gi 57650036 ref NC_002951.2 :364083-367357	q1	q2	OK	111.797	42.3998	-1.39875	2.92258	0.0034715	0.20595		
gene379	gene379	SACOL0391	gi 57650036 ref NC_002951.2 :398649-399477	q1	q2	OK	2.74264	6.97981	1.34762	-1.99774	0.0457446	0.997376		
gene392	gene392	SACOL0404	gi 57650036 ref NC_002951.2 :410847-411267	q1	q2	OK	32.0939	10.9996	-1.54484	2.4818	0.0130721	0.562101		

gene393	gene393	SACOL0405	gi 57650036 ref NC_002951.2 :411373-412729	q1	q2	OK	2.87146	0.865442	-1.73027	2.25954	0.0238501	0.820442
gene395	gene395	glpT	gi 57650036 ref NC_002951.2 :413355-414714	q1	q2	OK	20.3081	9.02995	-1.16927	2.38712	0.016981	0.649864
gene423	gene423	SACOL0436	gi 57650036 ref NC_002951.2 :442258-442450	q1	q2	OK	1206.14	423.269	-1.51076	3.0693	0.0021456	0.169372
gene428	gene428	SACOL0441	gi 57650036 ref NC_002951.2 :445050-445598	q1	q2	OK	2.35883	0.231845	-3.34684	1.98647	0.0469809	0.997376
gene457	gene457	SACOL0470	gi 57650036 ref NC_002951.2 :472308-473367	q1	q2	OK	2.81871	0.090214	-4.96555	3.06449	0.0021805	0.169372
gene487	gene487	SACOL0502	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	2.97	35.1996	3.56703	-3.68364	0.0002299	0.0325684
gene488	gene488	SACOL0503	gi 57650036 ref NC_002951.2 :502701-504742	q1	q2	OK	8.12246	75.0115	3.20712	-6.01337	1.82E-09	8.75E-07
gene491	gene491	SACOL0506	gi 57650036 ref NC_002951.2 :506760-507603	q1	q2	OK	12.7583	41.7176	1.70922	-3.4443	0.0005725	0.066019
gene511	gene511	rrfA	gi 57650036 ref NC_002951.2 :534059-534174	q1	q2	OK	303344	1.02E+06	1.74798	-4.03379	5.49E-05	0.0094402
gene552	gene552	rrfG	gi 57650036 ref NC_002951.2 :572451-572566	q1	q2	OK	353954	869158	1.29606	-3.00376	0.0026667	0.182142
gene560	gene560	rrfC	gi 57650036 ref NC_002951.2 :582839-582954	q1	q2	OK	252106	114662	-1.13664	2.60738	0.0091238	0.422501
gene594	gene594	SACOL0597	gi 57650036 ref NC_002951.2 :622422-623301	q1	q2	OK	473.489	1270.59	1.4241	-3.13317	0.0017293	0.143589
gene617	gene617	proP	gi 57650036 ref NC_002951.2 :652801-654202	q1	q2	OK	186.041	458.711	1.30197	-2.90456	0.0036777	0.20595
gene622	gene622	SACOL0625	gi 57650036 ref NC_002951.2 :658075-658243	q1	q2	OK	2539.65	372.825	-2.76806	5.16068	2.46E-07	6.58E-05
gene635	gene635	SACOL0638	gi 57650036 ref NC_002951.2 :670079-671156	q1	q2	OK	23.9217	48.3955	1.01655	-2.20746	0.0272823	0.899141
gene674	gene674	SACOL0678	gi 57650036 ref NC_002951.2 :703024-703585	q1	q2	OK	28.9634	68.4476	1.24077	-2.53102	0.0113732	0.497938
gene7	gene7	hutH	gi 57650036 ref NC_002951.2 :10919-12434	q1	q2	OK	7.10649	17.6313	1.31093	-2.6558	0.007912	0.373572
gene731	gene731	SACOL0739	gi 57650036 ref NC_002951.2 :760824-761367	q1	q2	OK	8.0803	18.8362	1.22103	-2.02048	0.043334	0.997376
gene775	gene775	SACOL0786	gi 57650036 ref NC_002951.2 :809586-809748	q1	q2	OK	53.4924	1342.74	4.6497	-5.46266	4.69E-08	1.61E-05
gene780	gene780	SACOL0790.1	gi 57650036 ref NC_002951.2 :814957-815224	q1	q2	OK	296.784	106.465	-1.47904	2.93146	0.0033737	0.20595
gene848	gene848	empbp	gi 57650036 ref NC_002951.2 :885541-886564	q1	q2	OK	1.96233	0.471357	-2.05767	2.04393	0.0409603	0.997376
gene889	gene889	SACOL0901	gi 57650036 ref NC_002951.2 :913514-913856	q1	q2	OK	42.7695	15.6252	-1.45271	2.26743	0.0233642	0.820442
gene890	gene890	SACOL0902	gi 57650036 ref NC_002951.2 :913867-914446	q1	q2	OK	48.3523	14.6081	-1.72681	3.3048	0.0009505	0.0995085
gene891	gene891	SACOL0903	gi 57650036 ref NC_002951.2 :914463-914682	q1	q2	OK	256.091	103.476	-1.30735	2.34196	0.0191829	0.699884
gene93	gene93	sirC	gi 57650036 ref NC_002951.2 :110431-112422	q1	q2	OK	67.4843	216.919	1.68453	-3.89536	9.81E-05	0.0157411
gene950	gene950	argH	gi 57650036 ref NC_002951.2 :965545-968120	q1	q2	OK	185.8	5.15016	-5.17299	9.19978	0	0
gene951	gene951	argG	gi 57650036 ref NC_002951.2 :965545-968120	q1	q2	OK	103.019	1.22764	-6.39088	5.96033	2.52E-09	1.01E-06
gene965	gene965	clpB	gi 57650036 ref NC_002951.2 :986246-988856	q1	q2	OK	183.706	67.4742	-1.44499	3.26742	0.0010853	0.100519

Supplementary Table S16. The results of MRSA drug susceptibility tests by K-B methods

Antibiotics	Paper content	Bacteriostatic circle's diameter in CLSI (mm)			Bacteriostatic circle's diameter in tests (mm)	Test results
		S	I	R		
Amikacin	30 µg	≥17	15-16	≤14	6	Resistant
Trimethoprim-sulfamethoxazole	1.25/23.75 µg	≥16	11-15	≤10	6	Resistant
Erythromycin	15 µg	≥23	14-22	≤13	6	Resistant
Clindamycin	2 µg	≥21	15-20	≤15	6	Resistant
linezolid	30 µg	≥21	-	≤20	30	Resistant
Piperacillin/tazobactam	100/10 µg	≥18	-	≤17	13	Resistant
Gentamicin	10 µg	≥15	13-14	≤12	6	Resistant
Penicillin	10 U	≥29	-	≤28	6	Resistant
Cefepime	30 µg	≥18	15-17	≤14	6	Resistant
Cefoxitin	30 µg	≥18	15-17	≤14	8	Resistant
Cefazolin	30 µg	≥18	15-17	≤14	6	Resistant
Teicoplanin	30 µg	≥14	11-13	≤11	16	Susceptible
Vancomycin	-	-	-	-	-	Susceptible
Levofloxacin	5 µg	≥19	16-18	≤15	16	Middle

Supplementary Table S17. Sequences of oligonucleotide primers used for real-time RT-PCR

Primer	Gene	Oligonucleotide primer sequence (5'—3')	Reference
<i>sdrD</i> F	<i>sdrD</i>	AAAGGCGTTGGCAATGTAAC	38
<i>sdrD</i> R	<i>sdrD</i>	GCCGTTTGAATCTAATTCTTCG	
<i>spa</i> F	<i>spa</i>	GCAAACGGCACTACTGCTGA	39
<i>spa</i> R	<i>spa</i>	CACCAGTTTCTGGTAATGCTTGAG	
<i>hld</i> F	<i>hld</i>	AAGAATTTTTATCTTAATTAAGGAAGGAGTG	40, 41
<i>hld</i> R	<i>hld</i>	TTAGTGAATTTGTTCACTGTGTCGA	
<i>agrA</i> F	<i>agrA</i>	TGATAATCCTTATGAGGTGCTT	42, 43
<i>agrA</i> R	<i>agrA</i>	CACTGTGACTCGTAACGAAAA	
<i>cap5B</i> F	<i>cap5B</i>	GCGATATGCGTAAGCCAACA	44
<i>cap5B</i> R	<i>cap5B</i>	CAGATGGATTTGGAGGTACAGG	
<i>cap5C</i> F	<i>cap5C</i>	CATCCAGAGCGGAATAAAGC	45
<i>cap5C</i> R	<i>cap5C</i>	GTGTTATGCGCATCTGAACC	
pMD18T-GFP F	GFP	GGATCCATGAGTAAAGGAGAAGAAC	
pMD18T-GFP R	GFP	AAGCTTTTATTTGTATAGTTCATCCATGCC	

Supplementary Table S18. The data associated with Boxplots of the expression distribution for MRSA all genes with different compounds under different conditions, related to Supplementary Figure S4

	MR100vsM18C06		MU30vsM18C06		MVRvsMR150vsM36C05		
	MR100	M18C06	MU30	M18C06	MVR	MR150	M36C05
5 th percentile	0.7403058	0.9695557	-0.198621	0.8719884	-0.5841289	-0.6710824	-0.488285
25 th percentile	1.6348187	1.653404	1.280856	1.5558366	0.8839708	0.9061994	0.8998741
Median	1.9170176	1.8515481	1.833599	1.7539804	1.4564025	1.5059337	1.4566662
75 th percentile	2.2450757	2.1119929	2.283387	2.014426	1.9040801	1.9644253	1.9578672
95 th percentile	3.1588056	2.7945968	3.775821	2.6970296	3.4186178	3.5233861	3.5234122
The number of outlier points	81	134	48	134	37	41	37

5 th percentile, bottom edge of vertical line; 25th percentile, bottom edge of box; median, black line; 75th percentile, top edge of box; 95th percentile, top edge of vertical line; and outlier points, above and below the vertical lines.

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