

Supplemental table 2

Gene/ Operon Name	Closest Neighbor	Start Sequence in Neighbor	End Sequence in Neighbor	Mismatch?	# of Mismatches	Location(s) of Mismatch*	Present in Open Reading Frame	Synonymous/N on Synonymous?
JP1 <i>psmA</i>	USA 300_TCH1516	475686	477872	yes	40, 15 gaps	4	no	
JP1 <i>psmA</i>						208	no	
JP1 <i>psmA</i>						1365	no	
JP1 <i>psmA</i>						1414	no	
JP1 <i>psmA</i>						1451	no	
JP1 <i>psmA</i>						1465	no	
JP1 <i>psmA</i>						1472	no	
JP1 <i>psmA</i>						1480	no	
JP1 <i>psmA</i>						1503	no	
JP1 <i>psmA</i>						1553	no	
JP1 <i>psmA</i>						1576	no	
JP1 <i>psmA</i>						1629	no	
JP1 <i>psmA</i>						1676	no	
JP1 <i>psmA</i>						1678	no	
JP1 <i>psmA</i>						1698	no	
JP1 <i>psmA</i>						1707	no	
JP1 <i>psmA</i>						1724	no	
JP1 <i>psmA</i>						1741	no	
JP1 <i>psmA</i>						1743	no	
JP1 <i>psmA</i>						1745	no	
JP1 <i>psmA</i>						1746	no	
JP1 <i>psmA</i>						1748	no	
JP1 <i>psmA</i>						1750	no	
JP1 <i>psmA</i>						1751	no	
JP1 <i>psmA</i>						1755	no	
JP1 <i>psmA</i>						1758	no	
JP1 <i>psmA</i>						1760	no	
JP1 <i>psmA</i>						1761	no	
JP1 <i>psmA</i>						1894	no	
JP1 <i>psmA</i>						1944	no	
JP1 <i>psmA</i>						2056	no	
JP1 <i>psmA</i>						2155	no	
JP1 <i>psmA</i>						2161	no	
JP1 <i>psmβ</i>	NCTC 8325	1088078	1088962	yes	2	41	no	
JP1 <i>psmβ</i>						289	no	
JP1 <i>rot</i>	MSSA476	1839756	1838796	yes	2	714	yes	Synonymous
JP1 <i>rot</i>						913	no	
Jp1 <i>rsb</i>	USA 300_TCH1516	2188442	2185235	yes	14	381	yes	Synonymous
Jp1 <i>rsb</i>						468	yes	Synonymous
Jp1 <i>rsb</i>						1086	yes	Synonymous
Jp1 <i>rsb</i>						1729	yes	Synonymous
Jp1 <i>rsb</i>						2024	yes	Synonymous
Jp1 <i>rsb</i>						2165	yes	Synonymous
Jp1 <i>rsb</i>						2718	yes	Synonymous
Jp1 <i>rsb</i>						2838	yes	Synonymous
Jp1 <i>rsb</i>						2949	yes	Synonymous
Jp1 <i>rsb</i>						3012	yes	Synonymous
Jp1 <i>rsb</i>						3049	yes	Synonymous
Jp1 <i>rsb</i>						3061	no	
Jp1 <i>rsb</i>						3175	no	
Jp1 <i>rsb</i>						3176	no	
JP1 <i>sae</i>	USA 300_TCH1516	783165	779748	yes	10	22	no	
JP1 <i>sae</i>						680	no	
JP1 <i>sae</i>						801	no	
JP1 <i>sae</i>						853	no	
JP1 <i>sae</i>						2558	yes	Synonymous
JP1 <i>sae</i>						2776	yes	Synonymous
JP1 <i>sae</i>						2898	yes	Synonymous
JP1 <i>sae</i>						2912	yes	Synonymous
JP1 <i>sae</i>						3268	no	
JP1 <i>sae</i>						3410	no	
JP1 <i>sarA</i>	USA 300_TCH1516	679678	678779	yes	3, 2 gaps	24	no	
JP1 <i>sarA</i>						720	no	
JP1 <i>sarA</i>						923	no	
JP1 <i>sarR</i>	USA 300_TCH1516	2411516	2410536	yes	2	111	no	
JP1 <i>sarR</i>						896	no	
JP1 <i>sarS</i>	Mu3	125598	124229	yes	1	1303	no	
JP1 <i>sarUT</i>	MSSA476	2555691	2553325	yes	8	202	no	

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JP1 <i>sarUT</i>						205	no	
JP1 <i>sarUT</i>						282	no	
JP1 <i>sarUT</i>						318	no	
JP1 <i>sarUT</i>						1028	yes	Synonymous
JP1 <i>sarUT</i>						1408	no	
JP1 <i>sarUT</i>						2089	no	
JP1 <i>sarUT</i>						2352	no	
JP1 <i>spa</i>	Newman	75250	73247	yes	31, 1 gap	10	no	Synonymous
JP1 <i>spa</i>						1328	yes	Synonymous
JP1 <i>spa</i>						1352	yes	Synonymous
JP1 <i>spa</i>						1361	yes	Synonymous
JP1 <i>spa</i>						1362	yes	Synonymous
JP1 <i>spa</i>						1363	yes	Synonymous
JP1 <i>spa</i>						1376	yes	Synonymous
JP1 <i>spa</i>						1386	yes	Synonymous
JP1 <i>spa</i>						1387	yes	Synonymous
JP1 <i>spa</i>						1391	yes	Synonymous
JP1 <i>spa</i>						1394	yes	Synonymous
JP1 <i>spa</i>						1409	yes	Synonymous
JP1 <i>spa</i>						1410	yes	Synonymous
JP1 <i>spa</i>						1411	yes	Synonymous
JP1 <i>spa</i>						1415	yes	Synonymous
JP1 <i>spa</i>						1418	yes	Synonymous
JP1 <i>spa</i>						1433	yes	Synonymous
JP1 <i>spa</i>						1434	yes	Synonymous
JP1 <i>spa</i>						1435	yes	Synonymous
JP1 <i>spa</i>						1439	yes	Synonymous
JP1 <i>spa</i>						1442	yes	Synonymous
JP1 <i>spa</i>						1458	yes	Synonymous
JP1 <i>spa</i>						1459	yes	Synonymous
JP1 <i>spa</i>						1463	yes	Synonymous
JP1 <i>spa</i>						1466	yes	Synonymous
JP1 <i>spa</i>						1472	yes	Synonymous
JP1 <i>spa</i>						1482	yes	Synonymous
JP1 <i>spa</i>						1490	yes	Synonymous
JP1 <i>spa</i>						1496	yes	Synonymous
JP1 <i>spa</i>						1508	yes	Synonymous
JP1 <i>spa</i>						1511	yes	8 codon insertion
JP1 <i>srrAB</i>	Newman	1571047	1568120	yes	3	703	yes	Synonymous
JP1 <i>srrAB</i>						2916	no	
JP1 <i>srrAB</i>						2918	no	

\*Locations of mismatches are from the start of the JP1 sequence