

Table S6: Two-component systems and transcription factors annotated in the genomes of ST260 and ST261 strains.

Inactivation by gene disruption (ps) or deletion (del) of genes encoding putative Two-Component Systems (TCS) and transcription factors identified in NEM316 and A909 genomes.

type	name	family	ortholog in NEM316	ortholog in A909	Description	2-22	SS1219	90-503
TCS	OmpR		gbs0121	SAK_0174	two-component response regulator	ps	ps	ps
TCS			gbs0122	SAK_0175	two-component sensor histidine kinase	+ ¹	+	+
TCS			gbs0180	SAK_0248	two-component sensor histidine kinase	ps	+	+
TCS	LytT		gbs0181	SAK_0249	two-component response regulator	+	+	+
TCS			gbs0298	SAK_0380	two-component sensor histidine kinase	+	+	+
TCS	LuxR/GerR		gbs0299	SAK_0381	two-component response regulator	+	ps	ps
TCS			gbs0309	SAK_0391	two-component sensor histidine kinase	+	+	+
TCS	LuxR/GerR		gbs0310	SAK_0392	two-component response regulator	+	+	+
TCS	OmpR		gbs0429	SAK_0467	two-component response regulator	+	+	+
TCS			gbs0430	SAK_0468	two-component sensor histidine kinase	+	ps	ps
TCS	vncR	OmpR	gbs0597	SAK_0701	two-component response regulator VncR	del	del	del
TCS	vncS		gbs0598	SAK_0702	two-component sensor histidine kinase VncS	del	del	del
TCS			gbs0685	SAK_0838	two-component response regulator	+	ps	ps
TCS	vicR	OmpR	gbs0741	SAK_0845	two-component response regulator	+	+	+
TCS	vicK		gbs0742	SAK_0846	two-component sensor histidine kinase	+	+	+
TCS	graR	OmpR	gbs0963	SAK_1071	two-component response regulator	+	ps	+
TCS	graS		gbs0964	SAK_1072	two-component sensor histidine kinase	+	+	+
TCS	ciaH		gbs1019	SAK_1079	two-component sensor histidine kinase	+	+	+
TCS	ciaR	OmpR	gbs1020	SAK_1080	two-component response regulator	+	+	+
TCS	lytR	LytT	gbs1051	SAK_1111	two-component response regulator	+	+	+
TCS	lytS		gbs1052	SAK_1112	two-component sensor histidine kinase LytS	+	+	+
TCS	relS		gbs1397	SAK_1358	two-component sensor histidine kinase	+	+	+
TCS	relR	OmpR	gbs1398	SAK_1359	two-component response regulator	+	+	+
TCS	covS		gbs1671	SAK_1638	two-component sensor histidine kinase	+	+	+
TCS	covR	OmpR	gbs1672	SAK_1639	two-component response regulator	+	+	+
TCS	dltS		gbs1834	SAK_1813	two-component sensor histidine kinase	ps	+	+
TCS	dltR	OmpR	gbs1835	SAK_1814	two-component response regulator	+	ps	ps
TCS	SivS		gbs1908	SAK_1880	two-component sensor histidine kinase	ps	ps	ps
TCS	SivR	GntR	gbs1909	SAK_1881	two-component response regulator	+	+	+
TCS			gbs1934	SAK_1906	two-component response regulator	+	+	+
TCS		AraC	gbs1935	SAK_1907	two-component sensor histidine kinase	+	+	+
TCS	rgfC		gbs1943	SAK_1917	two-component sensor histidine kinase (C-terminal part)	+	+	+
TCS	rgfA	LytT	gbs1944	SAK_1918	two-component response regulator	+	ps	ps
TCS	PhoR		gbs1947	SAK_1921	two-component sensor histidine kinase	ps	ps	ps
TCS	PhoB	OmpR	gbs1948	SAK_1922	two-component response regulator (PhoB)	+	+	+
TCS		OmpR	gbs2009	SAK_1992	two-component response regulator	+	+	+
TCS			gbs2010	SAK_1993	two-component sensor histidine kinase	+	ps	ps
TCS		OmpR	gbs2081	SAK_2061	two-component response regulator	del	del	del
TCS			gbs2082	SAK_2062	two-component sensor histidine kinase	del	del	del
TCS			gbs2086	SAK_2066	hypothetical two-component sensor histidine kinase	+	del	del
TCS			gbs2087	SAK_2067	hypothetical two-component response regulator	ps	del	del
			gbs0003	SAK_0003	putative transcription regulator	+	+	+
hrcA	gbs0094		SAK_0145		transcription repressor of class I heat-shock (HrcA)	+	+	+
	gbs0118		SAK_0171		transcription repressor of ribose operon	+	+	+
	gbs0150		SAK_0217		transcriptional regulator	+	+	+
	gbs0168		SAK_0235		transcriptional regulator	+	+	+
	gbs0191		SAK_0259		hypothetical transcriptional antiterminator (BglG family)	+	+	+
	gbs0207	0			transcriptional regulator	+	+	+
	gbs0212		SAK_0279		transcriptional regulator	del	+	+
	gbs0230		SAK_0298		transcriptional regulator (Rgg like)	+	+	+
	gbs0250		SAK_0332		transcriptional regulator (TetR/AcrR family)	+	+	+
	gbs0267		SAK_0349		transcriptional regulatory protein (N-terminal part)	+	+	+
DeoR	gbs0314		SAK_0396		transcriptional regulator (DeoR family)	+	+	+
	gbs0315		SAK_0397		hypothetical transcriptional regulator	ps	+	+
MarR	gbs0330		SAK_0417		transcriptional regulator (MarR family)	+	+	+
	gbs0342		SAK_0429		sakacin A production response regulator [Streptococcus mutans] hypothetical	+	+	+
	gbs0355		SAK_0442		transcription regulator, hypothetical.	+	+	+
	gbs0420		SAK_0458		negative transcriptional regulator (copper transport operon)	ps	+	+
	gbs0427		SAK_0465		similar to transcription regulator (Fur family)	+	+	+
	gbs0458		SAK_0506		hypothetical transcriptional regulators	+	+	+
	gbs0462		SAK_0511		transcriptional regulator (MerR family)	+	+	+
	gbs0468		SAK_0515		transcriptional regulator tetR-family	+	+	+
AraC/XylS	gbs0469		SAK_0516		transcriptional regulator (AraC/XylS family)	del	del	del
	gbs0475	0			transcriptional regulator (phage related)	+	+	+
	gbs0546		SAK_0601		transcriptional regulator	+	+	+
	gbs0612		SAK_0717		membrane bound transcriptional regulator	+	+	+
	gbs0617		SAK_0770		putative transcriptional regulator (TetR/AcrR family) C-terminal part	+	+	+
	gbs0618		SAK_0721		putative transcriptional regulator (TetR/AcrR family) N-terminal part	del	del	del
	gbs0626	0			transcriptional regulator (C-terminal part)	+	+	+
	gbs0627		SAK_0775		transcriptional regulator (N-terminal part)	del	del	del
	gbs0666		SAK_0819		transcriptional regulator, LysR family	+	ps?	ps?
	gbs0672		SAK_0825		transcriptional regulator (GntR family)	ps	+	+
	gbs0680		SAK_0833		catabolite control protein A	+	+	+
	gbs0774		SAK_0879		transcriptional regulator	+	+	+
	gbs0804		SAK_0909		transcriptional regulator (LacI family)	ps	+	ps
	gbs0809		SAK_0914		transcription antiterminator	ps	+	+
MarR	gbs0816		SAK_0921		transcriptional regulator, MarR family	ps	ps	ps
	gbs0823		SAK_0928		hypothetical transcription factor	+	+	+
	gbs0833		SAK_0938		transcriptional regulator	+	+	+
	gbs0848		SAK_0953		transcriptional repressor of the biotin operon	+	+	+
	gbs0928		SAK_1034		transcriptional regulator (GntR family)	+	+	+
	gbs0954		SAK_1063		transcriptional regulator (GntR family)	+	+	+
	gbs1022		SAK_1082		phosphate uptake regulatory protein	+	+	+
AraC/XylS	gbs1173		SAK_1191		transcriptional regulator (AraC/XylS family)	ps	ps	ps
	gbs1196		SAK_1215		hypothetical transcriptional regulator	+	+	+

	gbs1201	SAK_1220	transcriptional regulator, GntR family	+	+	+	
	gbs1221	0	repressor protein - phage associated	+	+	+	
	gbs1249	0	transcriptional regulator (LysR family)	+	+	+	
	gbs1327	0	transcriptional regulator (phage related)	+	+	+	
	gbs1332	0	transcription antiterminator	+	+	+	
	gbs1337	0	lactose repressor	+	+	+	
	gbs1344	0	phage repressor-like protein	+	+	+	
	gbs1381	SAK_1341	transcriptional regulator	+	+	+	
	gbs1402	SAK_1363	hypothetical transcriptional regulator	+	+	+	
	gbs1418	SAK_1379	transcription repressor of fructose operon FruR	+	+	+	
RofA	gbs1426	SAK_1389	transcription regulator RofA related	ps	ps	ps	
	gbs1434	SAK_1397	pyrimidine biosynthetic operon repressor	+	+	+	
	gbs1437	SAK_1400	transcriptional regulator (LysR/MarR family)	+	+	+	
rogB	RofA	gbs1479	0	transcription regulator	+	+	+
		gbs1509	SAK_1474	transcriptional regulator (LacI family)	+	+	+
rgA	RofA	gbs1530	0	transcription regulator RofA related	+	+	+
		gbs1555	SAK_1520	transcriptional regulator	+	ps	ps
		gbs1582	SAK_1548	transcriptional regulator (LysR family)	+	+	+
		gbs1590	SAK_1557	metal-dependent transcriptional regulator	+	+	+
		gbs1666	SAK_1633	SWI/SNF family helicase	+	+	+
		gbs1693	SAK_1660	putative transcription regulator	del	+	+
		gbs1699	SAK_1667	transcriptional regulator	+	+	+
		gbs1719	SAK_1687	transcriptional regulator (CodY family)	+	+	+
		gbs1736	SAK_1704	transcriptional regulator (LacI family)	+	+	+
		gbs1749	0	transcription regulator	+	+	+
		gbs1761	SAK_1724	transcriptional regulators	+	+	+
		gbs1780	SAK_1743	transcriptional regulator (FNR/CRP family)	+	+	+
		gbs1793	SAK_1772	transcriptional regulator	+	ps	ps
		gbs1807	SAK_1786	transcriptional regulator, MerR/GlnR family	+	+	+
		gbs1815	SAK_1794	transcription repressor of purine operon PurR	+	+	+
		gbs1842	SAK_1821	Weakly transcriptional regulator (antiterminator)	+	+	+
		gbs1849	SAK_1828	transcriptional regulator (LacI family)	+	+	+
		gbs1866	SAK_1845	transcription regulator	+	+	+
		gbs1870	SAK_1849	transcriptional regulator CtsR	+	+	+
		gbs1882	SAK_1862	transcriptional regulator (Crp/Fnr family)	+	+	+
		gbs1884	SAK_1864	transcriptional regulator (LacI family)	ps	+	+
		gbs1897	SAK_1868	transcription regulator (MarR family)	ps	ps	ps
		gbs1923	SAK_1896	transcriptional regulator, DeoR family	+	+	+
		gbs1949	SAK_1923	transcriptional regulator PhoU	+	+	+
		gbs1958	SAK_1932	transcriptional regulators	+	+	+
		gbs1972	SAK_1948	transcriptional regulator (phage related)	ps	+	+
		gbs1975	SAK_1949	hypothetical transcriptional regulator	+	+	+
		gbs1994	SAK_1977	transcription regulator (N-terminal part)	+	+	+
		gbs2027	SAK_2012	transcriptional regulator (GntR family)	+	ps	ps
		gbs2055	SAK_2041	arginine repressor ArgR	+	+	+
		gbs2094	SAK_2074	transcriptional regulator (TetR/AcrR family)	+	+	+
		gbs2117	SAK_2116	transcriptional regulator	+	+	+
		gbs2119	SAK_2118	arginine repressor (ArgR)	+	+	+
		gbs2120	SAK_2119	transcriptional regulator (Crp/Fnr family)	+	+	+
			SAK_0531	ps	+	+	
			SAK_0188	del	+	+	
			SAK_0189	del	+	+	
		gbs1990	SAK_1972	+	+	+	
		gbs2065	SAK_2052	del	del	del	
			SAK_2088	del	del	del	
			SAK_2012	+	ps	ps	
			SAK_1948	del	del	del	

1: the gene is functional.