Table S1. Distribution of orthologs of B.subtilis Transcriptional Factors in other Bacillales genomes

TF name	Bacillus subtilis sstr. 168	Bacillus amyloliquefaciens FZB42	Bacillus pumilus SAFR-032	Bacillus licheniformis DSM 13	Anoxybacillus flavithermus WK1	Geobacillus kaustophilus HTA426	Bacillus cereus ATCC 14579	Bacillus halodurans C-125	Bacillus clausii KSM-K16	Oceanobacillus iheyensis HTE831	Paenibacillus sp. JDR-2	Biological process	Family
AcoR	BSU08100	RBAM_008340	BPUM_0455	BLi00853	-	-	BC2766	BH1826	-	-	-	Acetoin utilization	Fis
AdaA	BSU01810	RBAM_037970	-	BLi02836	-	-	BC3740	BH0394	ABC3153	-	Pjdr2_5363	Adaptative response to DNA alkylation	AraC
AlsR	BSU36020	RBAM_033180	BPUM_3270	BLi03849	-	-	BC3668	-	-	-	-	Acetoin production	LysR
AnsR	BSU23590	RBAM_021720	BPUM_3549	BLi04141	-	-	BC3095	-	-	-	-	Asparagine degradation	Xre
AraR	BSU33970	RBAM_031330	BPUM_2330	BLi02061	Aflv_0528	GK1907	-	BH1875	-	OB2800	Pjdr2_4208	Arabinose utilization	GntR
ArgR	BSU24250	RBAM_022580	BPUM_2157	BLi02596 BLi04162	Aflv_0950	GK2390	BC4174 BC0405	BH2777	ABC2460	OB1875	Pjdr2_2315	Arginine biosynthesis; Arginine degradation	ArgR
ArsR	BSU25810	-	-	-	-	-	BC3155	BH2996	ABC0832	OB0325	-	Arsenic resistance	ArsR
AseR	BSU05330	RBAM_035850	-	BLi02124	Aflv_1412	GK0587 GK3224	-	BH3000	ABC0835	OB2425	-	Arsenic resistance	ArsR
BceR	BSU30400	RBAM_027330	BPUM_2592	BLi04213	-	GK2340	-	BH3911	-	OB0831	-	Bacitracin resistance	OmpR
BglR	BSU40130	RBAM_019370	BPUM_3663	-	-	-	-	-	-	-	-	Beta-glucosides utilization	GntR
BirA	BSU22440	RBAM_020590	BPUM_1975	BLi02379	Aflv_1125	GK2180	BC1537	BH1685	ABC2068	OB1764	Pjdr2_2444	Biotin biosynthesis	BirA
BkdR	BSU24100	RBAM_022380	BPUM_2149	BLi02587	Aflv_0957	GK2383	BC4165	BH2766	ABC2454	OB1870	-	Isoleucine utilization; Valine utilization	Fis
BltR	BSU26580	RBAM_006050	BPUM_1818	-	-	-	-	BH4046	-	-	-	Multidrug resistance	MerR
BmrR	BSU24020	-	-	BLi02784	-	-	-	-	-	-	-	Multidrug resistance	MerR
BsdA	BSU03620	RBAM_003790	-	BLi00425	-	-	-	-	-	-	-	Salicylic acid resistance	LysR
Btr	BSU01640	RBAM_002130	BPUM_3700	BLi03907	-	-	-	-	ABC3488	-	-	Iron metabolism	AraC
CatR	BSU33680	RBAM_030960	BPUM_3039	BLi00860	-	-	BC3389	BH3303	-	OB3043	Pjdr2_1364	Oxidative stress response	HxlR
CcpA	BSU29740	RBAM_026860	BPUM_2620	BLi03125	Aflv_0458	GK2810	BC4672	BH3241	ABC2764	OB2226	Pjdr2_3800	Carbon catabolism	LacI
CcpB	BSU40870	RBAM_037940	-	-	-	-	-	-	-	-	-	Carbon catabolism	LacI
CcpC	BSU14140	RBAM_013910	BPUM_1310	BLi01628	-	-	BC3982	-	-	OB1497	-	Citrate metabolism	LysR
CcpN	BSU25250	RBAM_023550	BPUM_2257	BLi02716	Aflv_0853	GK2485	BC4294	BH1372	ABC1686	OB1947	-	Gluconeogenesis	CcpN
CggR	BSU33950	RBAM_031310	BPUM_3058	BLi03666	Aflv_2519	GK3059	BC5141	BH3561	ABC3022	OB2439	Pjdr2_0176	Glycolysis	SorC
CitR	BSU09430	RBAM_009690	-	BLi01009	-	-	-	-	ABC4042	-	-	Citrate metabolism	LysR

CitT	BSU07590	RBAM_007790	BPUM_0708	BLi00224	-	-	BC0561	BH3838	ABC1012 ABC0666	OB3250	-	Citrate utilization	CitB
CodY	BSU16170	RBAM_016000	BPUM_1515	BLi01837	Aflv_1745	GK1215	BC3826	BH2462	ABC2273	OB1551	Pjdr2_3461	Amino acid metabolism	CodY
ComA	BSU31680	RBAM_028760	BPUM_2837	BLi03353	Aflv_0550	-	BC0882	-	-	-	Pjdr2_1033	Competence	LuxR
CsoR	BSU33520	RBAM_030700	BPUM_3023	BLi03555	Aflv_1217	GK0901	BC3732	BH0558	ABC2444	OB1141	Pjdr2_5324	Copper resistance	RcnR
CssR	BSU33010	RBAM_030120	BPUM_2953	BLi03482	-	-	-	-	-	OB0584	-	Protein secretion stress	OmpR
CtsR	BSU00830	RBAM_001080	BPUM_0068	BLi00101	Aflv_0074	GK0075	BC0099	BH0100	ABC0118	OB0090	Pjdr2_5718	Heat shock response	CtsR
CymR	BSU27520	RBAM_024630	BPUM_2393	BLi02877	Aflv_0736	GK2565	BC4393	BH1259	ABC1584	OB2016	Pjdr2_4358	Cysteine metabolism	Rrf2
CysL	BSU37650	RBAM_034830	BPUM_3611	BLi01300	Aflv_1598	GK1408	-	-	-	OB3407	-	Sulfite reduction	LysR
CzrA	BSU19120	RBAM_018890	BPUM_1843	BLi02201	Aflv_1335	GK0580 GK1406	BC0595	-	ABC3390	OB1400	Pjdr2_1132	Zinc resistance; Cadmium resistance; Copper resist	ArsR
DctR	BSU04460	RBAM_004790	BPUM_0418	-	-	GK0558	-	-	-	-	-	C4-dicarboxylate transport	DeoR
DegA	BSU10840	-	-	BLi01180	-	GK1901	-	BH2219	-	-	Pjdr2_1954	Inositol utilization	LacI
DeoR	BSU39430	RBAM_036490	BPUM_3588	BLi04230	-	-	BC1819	-	-	-	-	Deoxynucleoside utilization	SorC
DesR	BSU19200	RBAM_036850	BPUM_2590	BLi02809	-	-	-	-	ABC0736	OB2850	-	Cold shock response	LuxR
ExuR	BSU12370	RBAM_012400	BPUM_2986	BLi03514	-	-	-	-	-	-	-	Hexuronate utilization	LacI
FadR	BSU28550	RBAM_025610	BPUM_2512	BLi03002	Aflv_0565	GK2689	BC4525	BH3102	ABC2672	OB2121	-	Fatty acid degradation	TetR
FapR	BSU15880	RBAM_015710	BPUM_1487	BLi01809	Aflv_1775	GK1187	BC3852	BH2494	ABC2304	OB1521	Pjdr2_3495	Fatty acid biosynthesis	FapR
FatR	BSU27170	RBAM_024270	BPUM_1679	BLi02849	-	-	BC2936	-	-	-	-	Toxic fatty acid stress response	TetR
Fnr	BSU37310	RBAM_034460	-	BLi02080	Aflv_2153	GK0768 GK0788	BC2122	BH0231	-	-	Pjdr2_5250	Anaerobic metabolism	FNR
FrlR	BSU32560	RBAM_029620	-	-	-	-	-	-	-	-	-	Fructoselysine utilization	GntR
FruR	BSU14380	RBAM_014120	BPUM_1334	BLi01652	Aflv_1578	GK1840	BC3720	BH0826	ABC1269	OB0840	-	Fructose utilization	DeoR
Fur	BSU23520	RBAM_021640	BPUM_2084	BLi02503	Aflv_0995	GK2317	BC4091	BH1527	ABC1780	OB1849	Pjdr2_2329	Iron homeostasis	Fur
GabR	BSU03890	RBAM_004140	BPUM_0361	BLi00473	-	-	-	-	-	-	-	Gamma-aminobutyrate utilization	GntR
GamR	BSU02370	-	-	BLi00336	-	-	-	BH0914	ABC0645	OB2272	-	Glucosamine utilization	GntR
GanR	BSU34170	-	BPUM_3612	BLi04281	-	-	-	BH2018	ABC3521	-	-	Galactan utilization	LacI
GlcR	BSU36300	RBAM_033520	-	BLi03861	-	-	-	BH0847	-	OB2808	Pjdr2_3038		DeoR
GlnL	BSU02450	RBAM_002820	BPUM_3016 BPUM_0246	BLi00276	-	-	BC1743 BC3113	BH2715	-	-	-	Glutamine utilization; Aspartate utilization	YcbB
GlnR	BSU17450	RBAM_017250	BPUM_1636	BLi01992	Aflv_1508	GK1326	BC3706	-	-	OB1650	Pjdr2_2618	Nitrogen assimilation	MerR
GltC	BSU18460	RBAM_018630	BPUM_1815	BLi02163	Aflv_1234	GK1430	-	-	-	-	-	Glutamate metabolism	LysR
GltR	BSU26670	-	-	-	-	-	-	-	-	-	Pjdr2_3123	Glutamate metabolism	LysR
GlvR	BSU08190	RBAM_008370	-	BLi00856	-	-	-	-	-	-	-	Maltose utilization	RpiR
GmuR	BSU05850	RBAM_006170	BPUM_2117	BLi02559	-	GK1855	-	BH3917	-	-	-	Glucomannan utilization	GntR

GntR	BSU40050	-	-	BLi04286	-	-	-	-	-	OB3190	-	Gluconate utilization	GntR
GudR	BSU02500	-	-	BLi00288	-	-	-	-	ABC0472	OB2842	-	D-glucarate/galactarate utilization	GntR
GutR	BSU06140	RBAM_006530	-	-	-	-	-	-	-	-	-	Sorbitol utilization	GutR
HisR	BSU06580	RBAM_006980	BPUM_0619	BLi00713	Aflv_0244	GK0273	-	BH0639	ABC1076	OB0753	Pjdr2_0880	Histidine biosynthesis	TrpR
HrcA	BSU25490	RBAM_023790	BPUM_2282	BLi02741	Aflv_0833	GK2506	BC4314	BH1344	ABC1657	OB1970	Pjdr2_2205	Heat shock response	HrcA
HxlR	BSU03470	RBAM_003640	BPUM_2334	BLi02806	-	-	-	-	-	OB2805	Pjdr2_1186	Ribulose monophosphate pathway	HxlR
IolR	BSU39770	RBAM_036790	-	BLi0452	-	-	-	-	ABC0421	-	-	Inositol utilization	DeoR
KdgR	BSU22120	-	BPUM_3245	BLi03828	-	-	-	-	-	-	-	Pectin utilization	LacI
KipR	BSU04100	RBAM_004330	BPUM_0384	BLi00503	-	GK1499	BC3069	BH1819	-	-	-	Swporulation	IclR
LevR	BSU27080	-	-	BLi02832	-	-	-	-	-	-	-	Levan utilization	LevR
LexA	BSU17850	RBAM_017650	BPUM_1686	BLi02032	Aflv_1506	GK1328	BC3690	BH2356	ABC2167	OB1669	Pjdr2_2621	SOS response	LexA
LiaR	BSU33080	RBAM_030210	BPUM_2963	BLi03492	Aflv_0172	GK0434	BC1439	BH1200	ABC3374	OB2822	Pjdr2_1107 Pjdr2_4785	Cell wall-active antibiotics stress response	LuxR
LicR	BSU38600	RBAM_035800	BPUM_3507 BPUM_3541	BLi04090	-	-	BC0806	-	ABC0485	OB2764	-	Beta-glucosides utilization	BglG
LmrA	BSU02680	RBAM_002990	-	-	-	-	-	-	-	-	-	Multidrug resistance	TetR
LutR	BSU34180	RBAM_031490	BPUM_3062	BLi03676	Aflv_2010	GK0396	BC1302	BH1835	ABC0978	OB0369	-	Lactate utilization	GntR
LytT	BSU28920	RBAM_025960	BPUM_2535	BLi03039	-	-	BC5440	-	-	-	-	Cell autolysis	LytTR
MalR	BSU31530	RBAM_028630	BPUM_2821	BLi03335	-	-	BC0578	-	-	-	-	Malate utilization	CitB
ManR	BSU12000	RBAM_024210	-	BLi02111	-	-	-	-	-	-	-	Mannose utilization	BglG
MdxR	BSU34630	-	-	BLi00657	-	-	-	-	-	-	-	Maltodextrin utilization	LacI
MhqR	BSU13670	RBAM_013430	BPUM_1258	BLi01522 BLi02022	Aflv_1578	GK0958	BC1337 BC3128	-	ABC0738	OB0603 OB0445	Pjdr2_5975	2-Methylhydroquinone and catechol resistance (th	MarR
MntR	BSU24520	RBAM_022840	BPUM_2184	BLi02623	Aflv_0923	GK2416	BC4204	BH2807	ABC2487	OB1900	Pjdr2_2278	Manganese homeostasis	DtxR
MsmR	BSU30260	RBAM_027180	BPUM_1754	BLi01139	-	-	-	BH2227	-	-	-	Alpha-galactosides utilization	LacI
MtlR	BSU04160	RBAM_004390	BPUM_0388	BLi00508	Aflv_1564	GK1947	-	BH3853	ABC2928	OB2602	Pjdr2_6225	Mannitol utilization	BglG
MurR	BSU01690	-	BPUM_0157	BLi00190	-	-	-	-	-	-	-	N-acetylmuramate utilization	RpiR
NagR	BSU35030	RBAM_032220	BPUM_3140	BLi04350	-	GK2275	BC4053	BH0419	ABC1488	OB0612	-	N-acetylglucosamine utilization	GntR
NiaR	BSU27890	RBAM_024940	BPUM_2429	BLi02916	Aflv_0701	GK2603	BC4425	BH1216	ABC1545	-	-	NAD biosynthesis	NiaR
NrdR	BSU29000	RBAM_026040	BPUM_2544	BLi03048	Aflv_0517	GK2723	BC4581	BH3146	ABC2702	OB2158	Pjdr2_1529	Deoxyribonucleotide biosynthesis	NrdR
NsrR	BSU09380	RBAM_009640	BPUM_0893	BLi01005	-	GK1738	-	BH1057	ABC0349	OB0292	-	Nitrosative stress	Rrf2
NtdR	BSU10560	-	BPUM_0279	BLi03947	-	-	-	-	-	-	-	Neotrehalosadiamine biosynthesis	LacI
OhrR	BSU13150	RBAM_012960	BPUM_1212	BLi01415	-	GK1864	BC4474	-	-	OB3458	Pjdr2_1135	Peroxide stress response	MarR
PadR	BSU08340	RBAM_008450	BPUM_0713	BLi03079	-	-	-	-	-	-	-	Phenolic acid stress response	PadR

PerR	BSU08730	RBAM_008820	BPUM_0827	BLi00900	Aflv_0369	GK0478	BC0518	BH0951	ABC1322	OB0905	Pjdr2_1094	Oxidative and peroxide stress	Fur
PurR	BSU00470	RBAM_000560	BPUM_0031	BLi00060	Aflv_0040	GK0040	BC0051	BH0062	ABC0075	OB0056	Pjdr2_0032	Purine metabolism	PurR
PutR	BSU03230	RBAM_003470	BPUM_0302	BLi00376	-	-	-	-	-	-	-	Proline utilization	SrmR
QdoR	BSU39990	RBAM_032230	BPUM_0235	BLi01311	-	-	-	-	-	-	-	Multidrug resistance	TetR
RbsR	BSU35910	RBAM_033080	BPUM_3263	BLi03840	Aflv_2673	GK3231	BC0659	BH3727	ABC3549	OB2577	Pjdr2_3988	Ribose utilization	LacI
Rex	BSU05970	RBAM_006420	BPUM_0528	BLi00618	Aflv_0208	GK0242	BC0291	BH0551	ABC0873	OB0652	Pjdr2_2450	Anaerobic metabolism	Rex
RhaR	BSU31210	-	-	BLi03557	-	-	-	BH1553	-	OB0498	Pjdr2_3763	Rhamnose utilization	DeoR
RhgR	BSU07010	-	-	BLi01372	-	-	-	-	-	-	Pjdr2_4099	Rhamnogalacturonan utilization	AraC
RmgR	BSU30150	-	BPUM_2661	BLi03167	-	-	-	BH0483	ABC1143	OB2093	Pjdr2_1800	Rhamnogalacturonan utilization	AraC
RocR	BSU40350	RBAM_037260	BPUM_3061	BLi00421	-	GK0185	BC0473	BH3944	ABC0016	-	-	Arginine degradation; Ornithine degradation	Fis
SdpR	BSU33790	-	-	BLi00787	Aflv_1587	GK2134	BC4834	BH0945	ABC3711	-	Pjdr2_5471	SdpC antitoxin system involved in sporulation	ArsR
SinR	BSU24610	RBAM_022930	BPUM_2193	BLi02636	-	-	-	BH2125	-	-	-	Biofilm formation	Xre
TnrA	BSU13310	RBAM_013130	BPUM_1230	BLi01490	Aflv_1544	GK1860	-	BH1494	ABC1760	OB0950	Pjdr2_5154	Nitrogen assimilation	MerR
TreR	BSU07820	RBAM_007990	BPUM_0730	BLi00798	Aflv_1439	GK1745	BC0630	BH0873	ABC1265	-	-	Trehalose utilization	GntR
XylR	BSU17590	RBAM_017340	BPUM_1830	BLi04049	-	GK2422	-	BH2758	ABC0575	OB3124	Pjdr2_5182	Xylose utilization	ROK
YbzH	BSU01889	RBAM_018560	-	BLi00209	-	-	-	-	ABC1381	-	-	Metabolite transport	ArsR
YcnK	BSU03960	RBAM_004210	-	BLi00481	-	-	-	-	-	-	-	Copper homeostasis	DeoR
YcxD	BSU03560	RBAM_003730	BPUM_0326	BLi00406	-	-	-	-	-	-	Pjdr2_0546	Multidrug efflux	GntR
YczG	BSU03880	RBAM_004130	BPUM_0360	BLi00472	-	-	BC1998	-	-	-	-	Oxidative stress response	ArsR
YdeL, YhdI	BSU05240 BSU09480	RBAM_005860 RBAM_005770	-	-	-	-	BC2068 BC0583	-	-	-	-	Metabolite transport	GntR
YdeP	BSU05290	-	-	-	-	-	-	-	-	OB0354	-	Oxidative stress response	HxlR
YdfD, YisV	BSU05370 BSU10880	-	-	-	-	-	BC2680 BC1987	BH0432	ABC1201	-	Pjdr2_2789	Metabolite transport	GntR
YdfF	BSU05390	-	-	BLi03718	-	-	-	BH0391	ABC1174	-	-		ArsR
YdfI	BSU05420	RBAM_005930	-	BLi04066	-	-	-	-	-	-	-	Metabolite transport	LuxR
YdfL	BSU05460	-	-	BLi02816	-	-	BC1614	BH3496	-	-	-	Multidrug resistance	MerR
YetL	BSU07220	RBAM_007360	-	-	-	-	-	-	-	-	-	Flavonoids response	MarR
YfmP	BSU07390	RBAM_007640	BPUM_0692	BLi00773	-	-	BC5373	-	-	-	Pjdr2_6009	Metal efflux	MerR
YhcF	BSU09060	RBAM_009330	-	-	-	-	BC1356	BH0383	ABC1460	-	Pjdr2_3930	Multidrug resistance	GntR
YhgD	BSU10150	RBAM_010380	BPUM_0961	BLi01095	Aflv_2277	GK0664	BC1077	BH2145	-	-	Pjdr2_1195		TetR
YisR	BSU10830	RBAM_010980	BPUM_1014	BLi01178	Aflv_2193	GK0702	-	-	-	-	-	Metabolite transport	AraC
YizB	BSU11079	-	-	-	-	-	-	-	-	OB0948	-		MarR
YkvZ	BSU13870	RBAM_013640	BPUM_1277	BLi01596	-	-	BC4211	-	-	-	-	Beta-glucosides utilization	LacI

YodB	BSU19540	RBAM_019300	BPUM_1875	BLi02274	Aflv_1958	-	BC5197	BH0508	-	-	Pjdr2_4807	Oxidative stress response	HxlR
YrkD	BSU26550	RBAM_005420	BPUM_0189	BLi02795	Aflv_1433	GK2071	BC0792	-	-	OB2653	-		RcnR
YtcD	BSU29030	RBAM_026070	BPUM_2662	BLi02840	-	-	-	-	-	-	Pjdr2_0323	Multidrug resistance	HxlR
YtlI	BSU29400	RBAM_030860	-	-	-	-	-	-	-	-	-	L-cystine transporter	LysR
YtrA	BSU30460	RBAM_027400	BPUM_2677	BLi03185	Aflv_1397	GK1620	BC4076	-	-	-	-	Hypothetical ABC transporter	GntR
YuaC	BSU31070	RBAM_028170	BPUM_2736	BLi03271	-	-	-	-	-	-	-	Glycine betaine synthesis	MarR
YvaV	BSU33740	RBAM_031060	BPUM_3044	BLi03652	-	-	-	-	ABC1772	-	-	Choline transporter	MarR
YvbF	BSU33840	RBAM_031110	-	-	-	-	-	-	-	-	-	Glycine betaine/carnitine/choline transport	MarR
YvcP	BSU34720	-	-	-	-	-	BC4433	BH0755	ABC3227	-	Pjdr2_4845	Bacitracin resistance	OmpR
YvfU	BSU34060	-	-	BLi04304	-	-	BC5352	-	-	-	Pjdr2_0719	Metabolite transport	LuxR
YwbI	BSU38310	RBAM_035570	BPUM_3485	BLi04054 BLi04053	-	-	-	-	-	-	Pjdr2_1917	Thiamine biosynthesis	LysR
YwrC	BSU36110	RBAM_033280	BPUM_3273	BLi03851	-	-	-	-	-	-	Pjdr2_5904	Chromate transport	AsnC
YybA	BSU40710	RBAM_037790	-	BLi00581	-	-	-	BH3077	ABC3242	OB1246	Pjdr2_5021	Polyamine homeostasis	MarR
YybR	BSU40540	RBAM_037620	BPUM_3162	BLi00812	-	-	BC3320	BH0737	ABC0784	-	Pjdr2_4452	Oxidative stress response	HxlR
Zur	BSU25100	RBAM_023410	BPUM_2241	BLi02686	Aflv_0869	GK2469	BC4277	BH1396	ABC1704	OB2398	Pjdr2_2271	Zinc homeostasis	Fur
Abh	BSU14480	RBAM_014220	BPUM_1344	BLi01664	-	-	-	-	-	-	-	Transition state genes; Biofilm formtion	AbrB
AbrB	BSU00370	RBAM_000460	BPUM_0021	BLi00050	Aflv_0031	GK0030	BC0042 BC1884	BH0050	ABC0058	OB0045	Pjdr2_0021	Transition state genes; Biofilm formtion	AbrB
AlaR	BSU31410	RBAM_028510	BPUM_2808	BLi03321	Aflv_2391	GK2929	BC4902	BH3351	ABC2914	-	Pjdr2_1403	Alanine metabolism	AsnC
AzlB	BSU26720	-	-	-	-	-	-	-	-	-	-	4-azaleucine resistance	AsnC
CoiA	BSU11530	RBAM_011530	BPUM_1081	BLi01246	Aflv_2123	GK0821	BC1192	BH2857	ABC2526	OB1215	-	Competence	CoiA
ComK	BSU10420	RBAM_010600	BPUM_0978	BLi01119	-	GK0678	BC1134	-	-	OB1177	-	Competence	ComK
CueR	BSU09560	RBAM_009790	BPUM_0905	BLi01027	Aflv_2367	-	BC3356	-	-	-	Pjdr2_2140		MerR
DegU	BSU35490	RBAM_032640	BPUM_3198	BLi03793	Aflv_2598	GK3150	-	BH3628	ABC3086	OB2519	-	Competence; Swarming; Flagellum formation; Biof	LuxR
DnaA	BSU00010	RBAM_000010	BPUM_0001	BLi00001	Aflv_0001	GK0001	BC0001	BH0001	ABC0001	OB0001	Pjdr2_0001	Chromosomal replication initiation	DnaA
GerE	BSU28410	RBAM_025480	BPUM_2495	BLi02989	Aflv_0584	GK2670	BC4501	BH3075	-	OB2110	Pjdr2_1442	Germination	LuxR
Hpr	BSU09990	RBAM_010230	BPUM_0944	BLi01078	Aflv_2290	GK0652	BC1047	BH1185	ABC1529	-	-	Transition state genes	MarR
LrpA	BSU05050	RBAM_005220	BPUM_0308	BLi03116	-	-	-	-	-	-		One-carbon metabolism	AsnC
LrpB	BSU05060	-	-	-	-	-	BC5097	-	-	-	-	One-carbon metabolism	AsnC
LrpC	BSU04250	RBAM_004470	BPUM_3418	BLi00517	-	-	BC1363	BH0423	ABC1203	-	-	One-carbon metabolism; Branched chain amino as	AsnC
Mta	BSU36600	-	-	-	-	-	-	-	-	-	-	Multidrug transporter	MerR
NatR	BSU02740	-	BPUM_0251	-	-	GK1480	-	-	-	-	-		LytTR

PhoP	BSU29110	RBAM_026150	BPUM_2553	BLi03059	Aflv_0508	GK2732	BC4589	BH3157	ABC2711	OB2165	-	Phosphate starvation	OmpR
PksA	BSU17080	RBAM_009910	BPUM_3015	BLi03432	-	-	-	-	-	-	-		TetR
PucR	BSU32420	RBAM_029510	-	BLi03436	-	-	-	BH0757	ABC3737	-	-	Purine degradation	PucR
ResD	BSU23120	RBAM_021260	BPUM_2045	BLi02458	Aflv_1039	GK2279	BC1477	BH1580	ABC1835	OB1819	Pjdr2_2367	Respiration	OmpR
RghR	BSU33660	RBAM_030940	-	BLi03647	-	-	-	BH3549	-	-	-	rapG and rapH repressor	Xre
Rok	BSU14240	RBAM_014000	BPUM_1321	BLi01637	-	-	-	-	-	-	-	Competence	Rok
RsfA	BSU37620	RBAM_034730	BPUM_3396	BLi02985	Aflv_2758	GK3414	BC5385	-	-	-	-	Sporulation	RsfA
Slr	BSU34380	RBAM_031680	BPUM_3084	BLi03695	-	-	-	-	-	-	-	Cell separation; Motility/antirepressor of SinR	Xre
Spo0A	BSU24220	RBAM_022550	BPUM_2154	BLi02593	Aflv_0953	GK2387	BC4170	BH2773	ABC2457	OB1872	Pjdr2_2318	Sporulation	Spo0A
SpoIIID	BSU36420	RBAM_033620	BPUM_3291	BLi03878	Aflv_2684	GK3334	BC5282	BH3740	ABC3842	OB2959	Pjdr2_5794	Sporulation	SpoIIID
SpoVT	BSU00560	RBAM_000650	BPUM_0040	BLi00069	Aflv_0049	GK0049	BC0059	BH0070	ABC0084	OB0064	Pjdr2_0043	Germination	AbrB
WalR	BSU40410	RBAM_037400	BPUM_3689	BLi04335	Aflv_2840	GK3474	-	BH4027	ABC4099	OB3452	-	Cell wall metabolism	OmpR
Xre	BSU12510	RBAM_012510	BPUM_2777	BLi01318	-	-	-	-	-	-	-	Defective prophage PBSX	Xre
YazB	BSU00800	-	BPUM_0064	-	-	GK0072	BC0082	BH0096	-	OB3501	Pjdr2_0081	Folate bithynthesys	Xre
YbdJ	BSU02000	-	-	-	-	-	BC3043	-	-	-	-		OmpR
YbfA	BSU02160	RBAM_005520	-	BLi00446	-	-	-	-	-	-	-		MarR
YbfI	BSU02220	-	-	BLi00253 BLi00252	-	-	-	-	ABC0246	-	-		AraC
YbfP	BSU02320	-	BPUM_0583	-	-	GK0170	BC0213 BC4832	-	ABC3529	-	-		AraC
YcbL	BSU02550	RBAM_035010	-	BLi00291	-	GK1643	BC4539	BH0820	ABC1169	OB1714	-		OmpR
YccF	BSU02720	RBAM_003020	BPUM_0247	BLi00311	-	-	-	-	-	-	-		Psq
YceK	BSU02970	-	-	-	-	-	-	-	-	-	-		ArsR
YcgE	BSU03080	RBAM_003310	BPUM_1765	BLi02175	-	-	-	-	-	-	Pjdr2_0574		MarR
YcgK	BSU03170	-	BPUM_0295	-	-	-	-	-	-	-	Pjdr2_2472		LysR
YclJ	BSU03750	RBAM_003990	BPUM_0353	BLi00459	-	-	-	-	-	-	-		OmpR
YcnC	BSU03850	RBAM_004100	BPUM_0358	BLi00468	-	-	-	-	-	-	-		TetR
YdcH	BSU04770	-	-	-	-	-	BC0848	-	-	-	-		MarR
YdcN	BSU04820	-	-	-	-	-	-	-	-	-	-	Phage element (ICEBs1)	Xre
YdeC	BSU05150	-	-	-	-	-	-	BH1906 BH0724	-	-	Pjdr2_1146		AraC
YdeE	BSU05170	-	-	BLi01015	-	-	BC1115	BH0594	ABC1962 ABC2793	OB0722	Pjdr2_0638 Pjdr2_4047 Pjdr2_0534		AraC
YdeF	BSU05180	-	-	-	-	-	-	-	-	-	Pjdr2_3196		GntR

YdeS	BSU05320	-	-	-	-	-	BC3163	-	-	-	Pjdr2_0210		TetR
YdgC	BSU05580	-	-	BLi02514	-	-	-	-	-	-	-		TetR
YdgG	BSU05640	-	-	-	-	-	-	-	-	-	-		MarR
YdgJ	BSU05670	RBAM_037770	BPUM_3583	-	-	-	BC3025	-	-	-	-		MarR
YdhC	BSU05700	RBAM_006100	BPUM_0397	BLi00487	-	-	-	-	ABC0840	OB2880	-		GntR
YdzF	BSU05270	-	-	-	-	-	-	-	-	-	-		HxlR
YerO	BSU06700	RBAM_007100	BPUM_0647	BLi00736	-	-	BC5434	BH1887	-	-	-	Surfactin self-resistance	TetR
YesN	BSU06960	-	-	-	-	-	-	-	-	-	-		AraC
YezC	BSU06540	-	-	-	-	-	-	-	-	-	-		AsnC
YezE	BSU06860	-	-	BLi01953	-	-	-	-	-	-	Pjdr2_1646 Pjdr2_3113		TetR
YfiF	BSU08250	-	-	-	-	-	-	-	-	-	Pjdr2_2977		AraC
YfiK	BSU08300	-	-	-	-	-	-	-	-	-	Pjdr2_5484		LuxR
YfiR	BSU08370	-	-	-	-	-	-	-	-	-	Pjdr2_2486		TetR
YfiV	BSU08410	RBAM_008520	BPUM_0786	BLi03747	-	-	-	-	-	-	-		MarR
YgzD	BSU08899	-	-	BLi00946	-	-	BC0680	-	-	-	-		Xre
YhbI	BSU08990	RBAM_009270	-	-	-	-	-	-	-	-	-	Multidrug resistance	MarR
YhcZ	BSU09330	RBAM_009590	BPUM_0887	BLi01001	-	-	BC2217 BC5411	BH2213	ABC3142	-	Pjdr2_4954		LuxR
YhjH	BSU10510	RBAM_010730	-	BLi01694	-	-	-	-	-	-	-		MarR
YkoG	BSU13250	-	BPUM_1219	-	-	-	-	BH0372	-	OB0594	Pjdr2_2638		OmpR
YkoM	BSU13340	RBAM_013160	BPUM_1233	BLi01493	-	-	-	-	-	-	-		MarR
YkvN	BSU13760	RBAM_013530	-	-	-	-	-	-	-	-	-		HxlR
YmfC	BSU16810	RBAM_016660	BPUM_1586	BLi01907	Aflv_1676	GK1282	BC3792	BH2394	ABC2209	OB1615	-		GntR
YoaU	BSU18760	-	-	BLi01305	-	-	-	-	-	-	-	Cysteine and O-acetyl serine efflux	LysR
YobD	BSU18850	-	-	-	-	-	-	-	-	-	-		Xre
YobQ	BSU19050	RBAM_018850	-	-	-	-	-	BH1786	-	-	-		AraC
YobS	BSU19070	RBAM_018860	BPUM_1838	BLi02194	-	-	BC5000	-	-	-	Pjdr2_4902		TetR
YobV	BSU19100	-	BPUM_1841	BLi02199	-	-	-	-	-	-	Pjdr2_5136		YobV
YofA	BSU18420	RBAM_018580	-	-	-	-	-	-	-	-	-	Cell division	LysR
YonR	BSU21020	-	-	-	-	-	-	-	-	-	-		Xre
YopO	BSU20820	-	-	-	-	-	-	-	-	-	-		Xre
YopS	BSU20780	-	-	-	-	-	-	-	-	-	-		Xre
YotL	BSU19840	-	-	-	-	-	BC3704	-	-	-	Pjdr2_0622		Xre

YozG	BSU18740	-	-	BLi01580	Aflv_1608	GK0181	BC2181 BC2988	-	-	OB0417	Pjdr2_5555		Xre
YplP	BSU21780	RBAM_019930	BPUM_1912	-	-	-	-	-	-	-	-		PspF
YpoP	BSU21700	RBAM_019870	BPUM_1902	BLi02304	-	-	-	-	-	-	-		MarR
YqaE	BSU26350	-	-	-	-	-	-	-	-	-	-		Xre
YqaF	BSU26340	-	-	-	Aflv_0779	GK0495	-	-	-	-	-		Xre
YqaG	BSU26320	-	-	-	-	-	-	-	-	-	-		Xre
YraB	BSU27000	RBAM_005750	BPUM_0462	-	-	-	-	-	-	-	-		MerR
YraL	BSU26900	-	-	-	-	-	BC1769	-	-	-	-		Mor
YraN	BSU26870	RBAM_031860	BPUM_2497	-	-	-	-	BH3925	ABC3662 ABC0627	OB2270	Pjdr2_2989		LysR
YrdQ	BSU26630	-	-	-	-	-	BC0224	-	-	-	-		LysR
YrhO	BSU27110	RBAM_026760	-	BLi00645	-	-	BC1673 BC5010	-	-	-	-		TrmB
YrkP	BSU26430	RBAM_024090	BPUM_2916	-	-	-	-	-	-	-	-		OmpR
YsmB	BSU28400	RBAM_025470	BPUM_2494	BLi02988	-	GK2669	-	BH3072	ABC2657	OB2109	-		MarR
YtoI	BSU29270	RBAM_026330	BPUM_2572	BLi03078	-	GK2749	BC4611	-	-	OB2183	-		GntR
YttP	BSU29630	RBAM_026560	BPUM_2608	BLi03107	-	-	BC4652	BH3207	ABC2753	OB2201	-		TetR
YtzE	BSU30020	-	BPUM_2647	BLi03153	Aflv_0431	GK2832	BC4703	-	ABC2797	-	-	Hypothetical substance detoxification pathway	DeoR
YukF	BSU31920	RBAM_028970	BPUM_2861	BLi03381	Aflv_2788	GK3447	-	BH1072	ABC0766	OB3224	-		SrmR
YusO	BSU32870	RBAM_029970	-	-	-	-	-	-	-	-	-	Multidrug resistance	MarR
YusT	BSU32920	RBAM_030010	-	-	-	-	-	-	-	-	-		LysR
YuxN	BSU33030	RBAM_030150	BPUM_2956	BLi03485	-	-	-	-	ABC3406	-	-		TetR
YuzN	BSU32669	-	-	-	-	-	-	-	-	-	-		ArsR
YvaF	BSU33580	-	-	-	-	-	-	-	-	-	-		TetR
YvaO	BSU33670	RBAM_030950	BPUM_3037	BLi03646	-	-	-	-	-	-	-		Xre
YvbU	BSU33990	RBAM_031350	-	-	-	-	BC1841	-	-	-	Pjdr2_3973	Cysteine and O-acetyl serine efflux	LysR
YvdT	BSU34480	RBAM_006220	BPUM_0773	BLi02009	-	-	BC0854	BH0428	ABC0419 ABC1940	-	-		TetR
YvkB	BSU35200	RBAM_032340	BPUM_3152	BLi00838	-	-	-	BH1965	-	-	Pjdr2_4641		TetR
YvmB	BSU35080	-	-	BLi02188	-	-	-	-	ABC1385	-	-		MarR
YvnA	BSU35050	-	BPUM_0200	BLi03569	-	-	-	-	ABC0950	-	-		MarR
YvrH	BSU33221	RBAM_030350	BPUM_2989	BLi03518	-	-	BC1119	-	-	-	-		OmpR
YvzC	BSU33650	RBAM_030930	BPUM_3036	BLi03645	-	-	-	-	-	-	-		Xre
YwaE	BSU38450	-	-	BLi00667	-	-	-	-	-	-	-		MarR

YwcC	BSU38220	RBAM_035480	-	-	-	-	-	-	-	-	-	Galactose utilization	TetR
YwgB	BSU37580	-	-	-	-	-	-	-	-	-	-		Rrf2
YwhA	BSU37550	RBAM_034680	BPUM_0238	BLi00299	-	-	-	-	-	-	-		MarR
YwnA	BSU36630	RBAM_033800	-	BLi03912	-	-	-	-	-	-	-		Rrf2
YwoH	BSU36440	RBAM_033630	BPUM_3292	BLi03879	-	-	-	-	-	OB1198	-		MarR
YwqM	BSU36160	-	BPUM_2352	-	-	-	BC3476	-	-	-	Pjdr2_1475		LysR
YwzG	BSU38018	RBAM_035250	-	-	-	-	-	-	-	-	-		PadR
YxaD	BSU40010	RBAM_002450	-	BLi03097	-	-	-	-	-	-	Pjdr2_2157	Murein hydrolase	MarR
YxbF	BSU39850	RBAM_036880	-	-	-	-	-	-	-	-	-		TetR
YxdJ	BSU39660	RBAM_036630	-	BLi04143	-	-	-	-	-	-	-		OmpR
YxjL	BSU38910	-	-	-	-	-	-	-	-	-	Pjdr2_5484		LuxR
YxjO	BSU38880	-	-	-	-	-	-	-	-	-	-		LysR
YxkF	BSU38820	RBAM_036050	BPUM_0953	BLi01053	Aflv_2302	GK0632	-	BH1141	ABC1515	OB1135	-		SrmR
YyaN	BSU40800	-	-	-	-	-	-	-	-	-	-		MerR
YybE	BSU40670	RBAM_037740	-	BLi02845	-	-	-	-	-	-	Pjdr2_4538		LysR