Table S1. List of genes, detected in the genomes of bacterial strains.

Class	Genera	species	strain	BioSample	*trkA*	*trkH*	*trkH-2*	*kdpA*	*aqpZ1*	*aqpZ2*	*betI*	*betI-2*	*betA*	*betA-2*	*betB*	*betB2*	*betC*
α-proteobacteria	*Sinorhizobium*	*S. meliloti*	Rm1021	SAMEA3283068	1	1	1	1	1	1	1	1	1		1	1	1
			Rm2011	SAMN02603522	1	1	1	1	1	1	1	1	1		1	1	1
			USDA1106	SAMN07175168	1			1		1	1	1	1		1	1	1
			USDA1157	SAMN07175169	1			1		1	1	1	1		1	1	1
			USDA1021	SAMN07175167	1			1	1		1	1	1		1	1	1
			B399	SAMN06229775	1			1	1	1	1	1	1		1	1	1
			B401	SAMN06227501	1	1		1	1	1	1	1	1		1	1	1
			BL225C	SAMN00017103	1	1	1	1	1	1	1	1	1		1	1	1
			CCMMB554 (FSM-MA)	SAMN06284128	1	1	1	1	1	1	1	1	1		1	1	1
			GR4	SAMN02603224	1	1		1	1	1	1	1	1		1	1	1
			KH35c	SAMN07175161	1			1	1		1	1	1		1	1	1
			KH46	SAMN07175162	1			1			1	1	1		1	1	1
			HM006	SAMN07175160	1			1		1	1	1	1		1	1	1
			M162	SAMN07175163	1			1	1	1	1	1	1		1	1	1

		M270	SAMN07175164	1			1	1		1	1	1		1	1	1
		Rm41	SAMN07175165	1			1	1	1	1	1	1		1	1	1
		RMO17	SAMN02952139	1	1	1	1	1	1	1	1	1		1	1	1
		RU11/001	SAMEA3146337	1	1	1	1	1	1	1	1	1		1	1	1
		SM11	,SAMN02603056	1	1	1	1	1	1	1	1	1		1	1	1
		T073	SAMN07175166	1			1	1		1	1	1		1	1	1
		AK83	SAMN00017059	1	1	1	1			1	1	1		1	1	1
		AK21	SAMN08428886	1	1	1	1	1	1	1	1	1		1	1	1
		AK555	SAMN08826593	1	1		1	1		1	1	1	1	1	1	1
		AK170	SAMN10256575	1	1		1	1		1	1	1	1	1	1	1
		S35m	SAMN16812329	1	1			1	1	1	1	1	1	1	1	1
		CXM1-105	SAMN08826592		1		1	1	1	1	1	1	1	1	1	1
	S. medicae	WSM419	SAMN02598363	1	1	1	1	1		1		1		1		1
Bradyrhizobium	*Brad. spp.*	GAS369	NZ_LT629750.1				1	1								
		ORS 278	SAMEA3138227				1									
		USDA 6	SAMD00060992				1	1								

			USDA 110	SAMN03573437				1	1									
	Brucella	*Bruc. melitensis* bv. *abortus*	2308	SAMEA3138256	1	1			1		1				1			
	Devosia	*D. sp.*	A16	SAMN04156589				1	1									
	Chelativorans	*Chel. sp.*	BNC1	SAMN02598260	1	1												
	Agrobacterium	*A. fabrum*	C58	SAMN02603108	1	1		1	1	1	1		1		1		1	
	Rhizobium	*Rh. etli*	CFN 42	SAMN02603106				1			1		1		1		1	
	Azorhizobium	*Azor. caulinodans*	ORS 571	SAMD00060925	1	2		1					1		1			
	Gluconacetobacter	*Gluc. diazotrophicus*	PA1 5	SAMN02598444														
	Azospirillum	*Azo. sp.*	B510	SAMD00060958				1			1		1		1			
β-proteobacteria	*Cupriavidus*	*Cupr. taiwanensis*	LMG 19424	SAMEA3138280				1					1					
	Azoarcus	*A. olearius*	BH72	SAMEA3138261	1													
γ-proteobacteria	*Klebsiella*	*K. pneumoniae* subsp. *pneumoniae*	HS11286	SAMN02602959				1	1		1				1			
	Escherichia	*E. coli*	K-12	SAMN02604091	1			1	1		1		1		1			
Actinobacteria	*Frankia*	*F. spp.*	ACN14a	SAMEA3138259				2										
			EAN1Pec	SAMN02598325				1										
			CcI3	SAMN02199398				1										

Corynebacterium	*Cor. glutamicum*	ATCC 13032	SAMD00061105									
Mycolicibacterium	*M. smegmatis*	MC2 155	NZ_LN831039.1		1	1						
Mycobacterium	*M. spp.*	H37Rv	SAMEA3138326		1							
		AF2122/97	SAMEA20450668		1					1		
Pimelobacter	*P. simplex*	VKM Ac-2033D	SAMN03009415		1							

1 – one copy of gene, 2 – two copies of genes, the filled cell – no genes found.