

Key KEGG Ortholog Distribution Across Halophilic Archaea Strains

HS: Halobacterium salinarum | HM: Halomicrobium kobeituziens | HA: Haloarcula sp.

Distribution	KO ID	Gene	Protein/Enzyme
HS unique	K00926	arcC	Carbamate kinase
	K08177	tnaB	Tryptophan permease
	K00005	gldA	Glycerol dehydrogenase
	K01546	ntpA	V-type ATPase subunit A
	K01547	ntpB	V-type ATPase subunit B
	K03469	bat	Bacterio-opsin activator
HM unique	K01601	rbcL	RuBisCO large subunit
	K00931	proB	Glutamate 5-kinase
	K00147	proA	Glutamate-5-semialdehyde dehydrogenase
	K00286	proC	Pyrroline-5-carboxylate reductase
	K02510	hisG	ATP phosphoribosyltransferase
	K01191	treA	Trehalase
	K01192	treF	Trehalase
	K01495	folE	GTP cyclohydrolase I
HA unique	K01428	ureA	Urease gamma subunit
	K01429	ureB	Urease beta subunit
	K01430	ureC	Urease alpha subunit
	K11959	urtA	Urea ABC transporter substrate-binding protein
	K11960	urtB	Urea ABC transporter permease
	K02784	crr	PTS glucose-specific EIIA component
	K02770	ptsG	PTS glucose-specific EIICB component
	K00376	nosZ	Nitrous oxide reductase
	K17316	norB	Nitric oxide reductase subunit B
	K00697	glgA	Glycogen synthase
	K01178	amyA	Alpha-amylase
HS-HM shared	K03892	bop	Bacteriorhodopsin
	K02052	potA	Polyamine ABC transporter ATP-binding protein
	K02053	potB	Polyamine ABC transporter permease
	K01620	ltaE	Threonine aldolase
	K01183	chiA	Chitinase
	K06901	phrB	DNA photolyase
HS-HA shared	K01745	hutH	Histidine ammonia-lyase
	K01712	hutU	Urocanate hydratase
	K23316	hutI	Imidazolonepropionase
	K23684	hutG	Formiminoglutamate hydrolase
	K01667	tnaA	Tryptophanase
	K00162	pdhB	Pyruvate dehydrogenase E1 beta subunit
	K14445	slc13a5	Citrate transporter
	K02041	phnC	Phosphonate ABC transporter ATP-binding protein
HM-HA shared	K01652	ilvB	Acetolactate synthase large subunit
	K01653	ilvH	Acetolactate synthase small subunit
	K00053	ilvC	Ketol-acid reductoisomerase
	K01687	ilvD	Dihydroxy-acid dehydratase
	K01649	leuA	2-Isopropylmalate synthase
	K01703	leuC	3-Isopropylmalate dehydratase large subunit
	K01704	leuD	3-Isopropylmalate dehydratase small subunit
	K00215	dapB	Dihydrodipicolinate reductase
	K01586	lysA	Diaminopimelate decarboxylase
	K05826	lysW	Lysine biosynthesis carrier protein
	K01995	livH	BCAA ABC transporter permease
	K01999	livK	BCAA ABC transporter substrate-binding protein
	K00265	gltB	Glutamate synthase large subunit

HS unique (71) HM unique (67) HA unique (129) HS-HM shared (22) HS-HA shared (41) HM-HA shared (133)