

Key KEGG Ortholog Distribution Across Halophilic Archaea Strains

HS: *Halobacterium salinarum* | HM: *Halomicrobiум kobeituziens* | HA: *Haloarcula sp.*

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