

znt1_[Ciona_intestinalis]
znt1a_[Danio_rerio]
znt1_human
znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	GKYGIILVAV	KI--LRCVG	LFECYDILKS	IHLVQFLFLV	KLICSGVYLL
znt5_[Danio_rerio]	TRYIVLLYFT	KM--LKAFG	IFESYDILKV	VHIVQFLFIL	KMGCAVILVF
znt5_human	TKYIVLLCFT	KF--LKAVG	LFESYDLLKA	VHIVQFIFIL	KLGTAFFMVL
znt5_[Mus_musculus]	TRYILLCLT	KC--LKAVG	LFESYDLLKA	VHIVQFIFIL	KLGTAFFMVL
znt5_[Rattus_norvegicus]	TKYIVLLCLT	KC--LKAVG	LFESYDLLKA	VHIVQFIFIL	KLGTAFFMVL
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human	-----	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	-----
transporter_[Nostoc_punctiforme]	-----	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	IHKPFSSGRK	--LNKRQWSY	VFRHSVLGLL	NNVLWLF	----SLTLCG
znt5_[Danio_rerio]	FQKPFSSGKM	--IPKRQWIK	ILKHAVISCI	ISLLGFF	----GLTLCG
znt5_human	FQKPFSSGKT	--ITKHQWIK	IFKHAVAGCI	ISLLWFF	----GLTLCG
znt5_[Mus_musculus]	FQKPFSSGKP	--ITKHQWIK	IFKHAVAGCI	ISLLWFF	----GLTLCG
znt5_[Rattus_norvegicus]	FQKPFSSGKT	--VTKHQWIK	IFKHAVAGCI	ISLLWFF	----GLTLCG
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----

	PLR T VLVFEH	-----	GEH	-----	VLVSMF
	PLRS L LLFEH	-----	SDL	-----	VVISLL
	PLRT L LLFEH	-----	SDI	-----	VVISLL
	PLRT L LLFEH	-----	SDI	-----	VVISLL
	PLRT L LLFEH	-----	SDI	-----	VVISLL

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human	-----	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nostoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----
znt5_[Danio_rerio]	MGVFAGR	-----	KGNY	-----
znt5_human	SVLFTSS	-----	GGGP	-----
znt5_[Mus_musculus]	SVLFTSS	-----	GGGP	-----
znt5_[Rattus_norvegicus]	SVLFTSS	-----	GGGP	-----
znt6_[Ciona_intestinalis]	SVLFTSS	-----	GGGP	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human				
znt4_[Rattus_norvegicus]				
znt4_isoforma_[Mus_musculus]				
znt4_isoformb_[Mus_musculus]				
znt8_human				
znt8_[Mus_musculus]				
znt8_[Rattus_norvegicus]				
znt3_human				
znt3_[Rattus_norvegicus]				
znt3_isoform1_[Mus_musculus]				
znt3_isoform2_[Mus_musculus]				
znt2-like_[Hydra_vulgaris]				
znt35C_[Drosophila_melanogaster]				
znt2_[Ciona_intestinalis]				
znt8_[Danio_rerio]			MSV	FSEP
znt2_[Danio_rerio]				ALEK
znt3_isoformX1_[Danio_rerio]				
znt2_human				
znt2_isoform1_[Mus_musculus]				
znt2_isoform2_[Mus_musculus]				
znt2_isoform1_[Rattus_norvegicus]				
znt2_isoform2_[Rattus_norvegicus]				
znt9-like_[Hydra_vulgaris]				
znt9_[Drosophila_melanogaster]				
znt9-like_[Ciona_intestinalis]				
znt9_[Danio_rerio]				
znt9_human				
znt9_[Rattus_norvegicus]				
isoform1_znt9_[Mus_musculus]				
isoform2_znt9_[Mus_musculus]				
znt9like_[E.Coli_partial]				
znt9like_[Rhodanobacter_glycinis]				
znt9like_[Dyella_ginsengisoli]				
znt9like2_[Actinobacteria_bacterium]				
znt9like_[Firmicutes_bacterium]				
znt9-like3_[Candidatus_Micrarchaeota_archaeon]				
znt9like_[Mesorhizobium_sp._L2C054A000]				
znt9like_[Geopsychrobacter_electrodiphilus]				
znt9like_[Sneathiella_limimaris]				
znt9like_[Sneathiella_sp]				
znt9like_[Sneathiella_chungangensis]				
znt9like_[Leptolyngbya_foveolarum]				
znt9like_[Massilia_sp._LC238]				
znt9like1_[Variovorax_paradoxus]				
znt9like2_[Variovorax_paradoxus]				
znt9like_[Nitrosospira_sp._Nsp11]				
znt9like_[Sorangium_cellulosum]				
znt9like1_[Actinobacteria_bacterium]				
znt9like_[Phormidesmis_priestleyi]				
znt9like1_[Nosdoc_punctiforme]				
znt9like2_[Nosdoc_punctiforme]				
znt9like_[Nostoc_calcicola]				
znt9like_[Nostoc_commune]				
znt9like_[Nostoc_piscinale]				

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	-----
transporter_[Nostoc_punctiforme]	-----	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	AKTR GSLFFFLGVL CLLFD	-----	NDDMLSKI LSQPEGQHTS	-----
znt5_[Danio_rerio]	-----	SKTR GAFFIIAVI CLLFD	-----	NDDLMAKM AEHPEGHHDS	-----
znt5_human	-----	AKTR GAFFIIAVI CLLFD	-----	NDDLMAKM AEHPEGHHDS	-----
znt5_[Mus_musculus]	-----	AKTR GAFFIIAVI CLLFD	-----	NDDLMAKM AEHPEGHHDS	-----
znt5_[Rattus_norvegicus]	-----	AKTR GAFFIIAVI CLLFD	-----	NDDLMAKM AEHPEGHHDS	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human					
znt4_[Rattus_norvegicus]					
znt4_isoforma_[Mus_musculus]					
znt4_isoformb_[Mus_musculus]					
znt8_human					
znt8_[Mus_musculus]					
znt8_[Rattus_norvegicus]					
znt3_human					
znt3_[Rattus_norvegicus]					
znt3_isoform1_[Mus_musculus]					
znt3_isoform2_[Mus_musculus]					
znt2-like_[Hydra_vulgaris]					
znt35C_[Drosophila_melanogaster]					
znt2_[Ciona_intestinalis]			MSFAKPEY	IQNFL	DEK
znt8_[Danio_rerio]	KAQVS	RKL	TFLYLANDVI	QNSKRKGPEF	TQDFA
znt2_[Danio_rerio]					PVIVD
znt3_isoformX1_[Danio_rerio]					
znt2_human					
znt2_isoform1_[Mus_musculus]					
znt2_isoform2_[Mus_musculus]					
znt2_isoform1_[Rattus_norvegicus]					
znt2_isoform2_[Rattus_norvegicus]					
znt9-like_[Hydra_vulgaris]					
znt9_[Drosophila_melanogaster]	LRQDG				
znt9-like_[Ciona_intestinalis]	KLIG				
znt9_[Danio_rerio]	VYLOQ				
znt9_human	LRLRC				
znt9_[Rattus_norvegicus]	LGGG				
isoform1_znt9_[Mus_musculus]	LGGG				
isoform2_znt9_[Mus_musculus]	LGGG				
znt9like_[E.Coli_partial]					
znt9like_[Rhodanobacter_glycinis]					
znt9like_[Dyella_ginsengisoli]					
znt9like2_[Actinobacteria_bacterium]					
znt9like_[Firmicutes_bacterium]					
znt9-like3_[Candidatus_Micrarchaeota_archaeon]					
znt9like_[Mesorhizobium_sp._L2C054A000]					
znt9like_[Geopsychrobacter_electrodiphilus]					
znt9like_[Sneathiella_limimaris]					
znt9like_[Sneathiella_sp]					
znt9like_[Sneathiella_chungangensis]					
znt9like_[Leptolyngbya_foveolarum]					
znt9like_[Massilia_sp._LC238]					
znt9like1_[Variovorax_paradoxus]					
znt9like2_[Variovorax_paradoxus]					
znt9like_[Nitrosospira_sp._Nsp11]					
znt9like_[Sorangium_cellulosum]					
znt9like1_[Actinobacteria_bacterium]					
znt9like_[Phormidesmis_priestleyi]					
znt9like1_[Nosdoc_punctiforme]					
znt9like2_[Nosdoc_punctiforme]					
znt9like_[Nostoc_calcicola]					
znt9like_[Nostoc_commune]					
znt9like_[Nostoc_piscinale]					

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human				
znt4_[Rattus_norvegicus]				
znt4_isoforma_[Mus_musculus]				
znt4_isoformb_[Mus_musculus]				
znt8_human				
znt8_[Mus_musculus]				
znt8_[Rattus_norvegicus]				
znt3_human				
znt3_[Rattus_norvegicus]				
znt3_isoform1_[Mus_musculus]				
znt3_isoform2_[Mus_musculus]				
znt2-like_[Hydra_vulgaris]				
znt35C_[Drosophila_melanogaster]				
znt2_[Ciona_intestinalis]	F			
znt8_[Danio_rerio]	AFKH	VS	SGGDESCKK	HLGRV
znt2_[Danio_rerio]				LSIWQERAVY
znt3_isoformX1_[Danio_rerio]				
znt2_human				
znt2_isoform1_[Mus_musculus]				
znt2_isoform2_[Mus_musculus]				
znt2_isoform1_[Rattus_norvegicus]				
znt2_isoform2_[Rattus_norvegicus]				
znt9-like_[Hydra_vulgaris]				
znt9_[Drosophila_melanogaster]		RNPWR	RH	DGEAFK
znt9-like_[Ciona_intestinalis]				LQPWKRPSTF
znt9_[Danio_rerio]		RAPLS	QRS	SKISKP
znt9_human		RAAAC	NPS	D
znt9_[Rattus_norvegicus]		PAV	ARG	R
isoform1_znt9_[Mus_musculus]		RAA	TRG	R
isoform2_znt9_[Mus_musculus]		RAA	TRG	R
znt9like_[E.Coli_partial]				SQGWKNLMTF
znt9like_[Rhodanobacter_glycinis]				SQGWKNVMTF
znt9like_[Dyella_ginsengisoli]				SQGWKNVMTF
znt9like2_[Actinobacteria_bacterium]				
znt9like_[Firmicutes_bacterium]				
znt9-like3_[Candidatus_Micrarchaeota_archaeon]				
znt9like_[Mesorhizobium_sp._L2C054A000]				
znt9like_[Geopsychrobacter_electrodiphilus]				
znt9like_[Sneathiella_limimaris]				
znt9like_[Sneathiella_sp]				
znt9like_[Sneathiella_chungangensis]				
znt9like_[Leptolyngbya_foveolarum]				
znt9like_[Massilia_sp._LC238]				
znt9like1_[Variovorax_paradoxus]				
znt9like2_[Variovorax_paradoxus]				
znt9like_[Nitrosospira_sp._Nsp11]				
znt9like_[Sorangium_cellulosum]				
znt9like1_[Actinobacteria_bacterium]				
znt9like_[Phormidesmis_priestleyi]				
znt9like1_[Nosdoc_punctiforme]				
znt9like2_[Nosdoc_punctiforme]				
znt9like_[Nostoc_calcicola]				
znt9like_[Nostoc_commune]				
znt9like_[Nostoc_piscinale]				

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nostoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----

MSKKSL KRQDEHTKD

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znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human	-----	-----	-----	-----	
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	
znt8_human	-----	-----	-----	-----	
znt8_[Mus_musculus]	-----	-----	-----	-----	
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	
znt3_human	-----	-----	-----	-----	
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	
znt8_[Danio_rerio]	ENDIL	-----	-----	-----	
znt2_[Danio_rerio]	-----	-----	-----	-----	
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	
znt2_human	-----	-----	-----	-----	
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	
znt9_[Drosophila_melanogaster]	LQFRCSANGS	DSKKEKPVQE	EATAGPVAKP	KETKNFEVKT	TKGILSISTT
znt9-like_[Ciona_intestinalis]	PRFCHQ	-----	-----	-----	-----
znt9_[Danio_rerio]	HKLWFS	-----	-----	-----	-----
znt9_human	GSFSNM	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	ESFTSM	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	ESFTYV	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	ESFTYV	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nostoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human				
znt4_[Rattus_norvegicus]				
znt4_isoforma_[Mus_musculus]				
znt4_isoformb_[Mus_musculus]				
znt8_human				
znt8_[Mus_musculus]				
znt8_[Rattus_norvegicus]				
znt3_human				
znt3_[Rattus_norvegicus]				
znt3_isoform1_[Mus_musculus]				
znt3_isoform2_[Mus_musculus]				
znt2-like_[Hydra_vulgaris]				
znt35C_[Drosophila_melanogaster]				
znt2_[Ciona_intestinalis]				
znt8_[Danio_rerio]		DKL	ADV LQ	VEKKA KQ KR
znt2_[Danio_rerio]				OK RP
znt3_isoformX1_[Danio_rerio]				
znt2_human				
znt2_isoform1_[Mus_musculus]				
znt2_isoform2_[Mus_musculus]				
znt2_isoform1_[Rattus_norvegicus]				
znt2_isoform2_[Rattus_norvegicus]				
znt9-like_[Hydra_vulgaris]				
znt9_[Drosophila_melanogaster]	MSCRG YGVL YKND		LLKQIFKKT	SLLKLLKRTL
znt9-like_[Ciona_intestinalis]	IEDSKINEIV FEKSDLPPVT		KVKEPVLAA	SAINL RST
znt9_[Danio_rerio]	VT YK	KTP	SMWKTTLDSF	NSRSL HVS
znt9_human	FPDFR	VTS	LTWTQV	QNC
znt9_[Rattus_norvegicus]	VPCSH	PYI	GTLSQV	KLY
isoform1_znt9_[Mus_musculus]	IPSIH	PQI	SVLNQV	KLY
isoform2_znt9_[Mus_musculus]	VPDIH	PHL	SIINQV	KLY
znt9like_[E.Coli_partial]	VPDIH	PHL	SIINQV	KLY
znt9like_[Rhodanobacter_glycinis]				
znt9like_[Dyella_ginsengisoli]				
znt9like2_[Actinobacteria_bacterium]				
znt9like_[Firmicutes_bacterium]				
znt9-like3_[Candidatus_Micrarchaeota_archaeon]				
znt9like_[Mesorhizobium_sp._L2C054A000]				
znt9like_[Geopsychrobacter_electrodiphilus]				
znt9like_[Sneathiella_limimaris]				
znt9like_[Sneathiella_sp]				
znt9like_[Sneathiella_chungangensis]				
znt9like_[Leptolyngbya_foveolarum]				
znt9like_[Massilia_sp._LC238]				
znt9like1_[Variovorax_paradoxus]				
znt9like2_[Variovorax_paradoxus]				
znt9like_[Nitrosospira_sp._Nsp11]				
znt9like_[Sorangium_cellulosum]				
znt9like1_[Actinobacteria_bacterium]				
znt9like_[Phormidesmis_priestleyi]				
znt9like1_[Nosdoc_punctiforme]				
znt9like2_[Nosdoc_punctiforme]				
znt9like_[Nostoc_calcicola]				
znt9like_[Nostoc_commune]				
znt9like_[Nostoc_piscinale]				

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	EDEEEL	QAATREMVKI	PDIDITPRKS
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human	-----	-----	-----	-----				
znt4_[Rattus_norvegicus]	-----	-----	-----	-----				
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----				
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----				
znt8_human	-----	-----	-----	-----				
znt8_[Mus_musculus]	-----	-----	-----	-----				
znt8_[Rattus_norvegicus]	-----	-----	-----	-----				
znt3_human	-----	-----	-----	-----				
znt3_[Rattus_norvegicus]	-----	-----	-----	-----				
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----				
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----				
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----				
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----				
znt2_[Ciona_intestinalis]	NERITLLK	DDFLSSEH	DEHERDTASY	RKTGDSRNSS	NISESDENNL			
znt8_[Danio_rerio]	YEEIKVNV	DDFACOSS	PAEPPQTADL	IRTLQE	LENAA			
znt2_[Danio_rerio]	-----	-----	-----	-----				
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----				
znt2_human	-----	-----	-----	-----				
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----				
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----				
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----				
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----				
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----				
znt9_[Drosophila_melanogaster]	CDDVSTKNVE	I	DKKTEIT	PKP	T	DIV		
znt9-like_[Ciona_intestinalis]	STGVATGAVG	LGESSGSVMN	P	PETVKSA	PKN	SPS	GA	VLAEKAGEG
znt9_[Danio_rerio]	SRILQTETT	KSESK	T	ETV	T	E	DKE	
znt9_human	STS	GSGKD	GSPTR	PEEPKTTEKA	QAA	Q	PAAKG	
znt9_[Rattus_norvegicus]	STNVQKEGO	GSQT	LRVEKV	PSF	ETAEG			
isoform1_znt9_[Mus_musculus]	STNVQKGGQ	GSQT	PRTDKA	PPL	T	QAAEN		
isoform2_znt9_[Mus_musculus]	STNVQKGGQ	GSQT	PKADKV	PSL	T	QTVEN		
znt9like_[E.Coli_partial]	STNVQKGGQ	GSQT	PKADKV	PSL	T	QTV		
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----			
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----			
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----			
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----			
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----			
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----			
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----			
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----			
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----			
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----			
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----			
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----			
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----			
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----			
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----			
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----			
znt9likel1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----			
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----			
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----			
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----			
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----			
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----			
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----			

znt9like_[Nostoc_cycadae]				
znt9like_[Myxosarcina_sp._GI1]				
znt9like_[Chondrocystis_sp._NIES-4102]				
znt9like_[Pleurocapsa_sp._PCC_7319]				
znt33D_[Drosophila_melanogaster]	GNVLKKNHDE	RGSQTG		DG
transporter_[Pleurocapsa_sp._PCC_7319]				
transporter_[Leptolyngbya_foveolarum]				
transporter_[Myxosarcina_sp._GI1]				
transporter_[Chondrocystis_sp._NIES-4102]				
transporter_[Phormidesmis_priestleyi]				
transporter_[Nostoc_piscinale]				
transporter_[Nostoc_punctiforme]				
transporter_[Nostoc_caldicola]				
cationtransporter3_[Firmicutes_bacterium]				
c.e.p_[Firmicutes_bacterium]				
cationtransporter1_[Firmicutes_bacterium]				
cationtransporter2_[Firmicutes_bacterium]				
cationtransporter1_[Actinobacteria_bacterium]				
cationtransporter2_[Actinobacteria_bacterium]				
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]				
transporter_[E.Coli]				
znt9-like2_[Candidatus_Micrarchaeota_archaeon]				
znt9-like_[Candidatus_Pacearchaeota_archaeon]				
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]				
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]				
znt9-like4_[Candidatus_Micrarchaeota_archaeon]				
znt9-like_[Candidatus_Woeseearchaeota_archaeon]				
znt7_[Drosophila_melanogaster]				
znt7_[Danio_rerio]				
znt7_human				
znt7_[Mus_musculus]				
znt7_[Rattus_norvegicus]				
znt5-like_[Ciona_intestinalis]	KR	VTHVG		GA
znt5_[Danio_rerio]	RK	LSVEIG		GA
znt5_human	RK	LSVDVG		GA
znt5_[Mus_musculus]	RK	LSIDVG		GA
znt5_[Rattus_norvegicus]	RK	LSIDVG		GA
znt6_[Ciona_intestinalis]				
znt6_[Danio_rerio]				
znt6_human				
znt6_[Rattus_norvegicus]				
znt6_isoform1_[Mus_musculus]				
znt6_isoform2_[Mus_musculus]				
znt4_[Danio_rerio]				
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]				
transporter_[Geopsychrobacter_electrodiphilus]				
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]				
znt10_[Danio_rerio]				
znt10_human				
znt10_[Mus_musculus]				
znt10_[Rattus_norvegicus]				
znt1-likel1_[Hydra_vulgaris]				
znt1_[Ciona_intestinalis]				
znt1a_[Danio_rerio]				
znt1_human				

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human					
znt4_[Rattus_norvegicus]					
znt4_isoforma_[Mus_musculus]					
znt4_isoformb_[Mus_musculus]					
znt8_human					
znt8_[Mus_musculus]					
znt8_[Rattus_norvegicus]					
znt3_human					
znt3_[Rattus_norvegicus]					
znt3_isoform1_[Mus_musculus]					
znt3_isoform2_[Mus_musculus]					
znt2-like_[Hydra_vulgaris]					
znt35C_[Drosophila_melanogaster]					
znt2_[Ciona_intestinalis]	PHDHSQHKT	SSDADCEIDD	SLSL-SRKS	ISSNSSFARR	A
znt8_[Danio_rerio]	SSDAALRKRI	SALPP-EVQ		DTSLLHK	V
znt2_[Danio_rerio]					
znt3_isoformX1_[Danio_rerio]					
znt2_human					
znt2_isoform1_[Mus_musculus]					
znt2_isoform2_[Mus_musculus]					
znt2_isoform1_[Rattus_norvegicus]					
znt2_isoform2_[Rattus_norvegicus]					
znt9-like_[Hydra_vulgaris]					
znt9_[Drosophila_melanogaster]	VDKSSEKPFY		HKPRKIDYN	IIYTK	
znt9-like_[Ciona_intestinalis]	IRTSP--PAE	V-TPPAP	VIPLKRPRFD	YRASLE	
znt9_[Danio_rerio]	LDATNKKEDK	S-TIVSKMK	TYMLKRRDYT	-KKYTD	
znt9_human	AGSKPQGLTK	A-ESIQKV	RAVLKKREYG	LKYTQ	
znt9_[Rattus_norvegicus]	IGTELKAPLK	Q-EPLOVRV	KAVLKKREYG	SKYTQ	
isoform1_znt9_[Mus_musculus]	IGAELKAPLK	Q-DPLQVRV	KAVLKKREYG	SKYTK	
isoform2_znt9_[Mus_musculus]	IGAELKAPLK	Q-DPLQVRV	KAVLKKRDYG	SKYTK	
znt9like_[E.Coli_partial]			KAVLKKRDYG	SKYTK	
znt9like_[Rhodanobacter_glycinis]					
znt9like_[Dyella_ginsengisoli]					
znt9like2_[Actinobacteria_bacterium]					
znt9like_[Firmicutes_bacterium]					
znt9-like3_[Candidatus_Micrarchaeota_archaeon]					
znt9like_[Mesorhizobium_sp._L2C054A000]					
znt9like_[Geopsychrobacter_electrodiphilus]					
znt9like_[Sneathiella_limimaris]					
znt9like_[Sneathiella_sp]					
znt9like_[Sneathiella_chungangensis]					
znt9like_[Leptolyngbya_foveolarum]					
znt9like_[Massilia_sp._LC238]					
znt9like1_[Variovorax_paradoxus]					
znt9like2_[Variovorax_paradoxus]					
znt9like_[Nitrosospira_sp._Nsp11]					
znt9like_[Sorangium_cellulosum]					
znt9like1_[Actinobacteria_bacterium]					
znt9like_[Phormidesmis_priestleyi]					
znt9like1_[Nosdoc_punctiforme]					
znt9like2_[Nosdoc_punctiforme]					
znt9like_[Nostoc_calcicola]					
znt9like_[Nostoc_commune]					
znt9like_[Nostoc_piscinale]					

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	KDTTSKTRQK	KLESDDSWA	-ALL-RKRFA	WTKDNKTDAV	NQNIPTTKGS
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	-----
znt9-like1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	KRLHAFSTLI	SALLLLPWA	-SLL-YF-TG	YSF--NLFSN	L--FS
znt5_[Danio_rerio]	KRLYALSNLV	SAVLLLPWV	-IVL-SA-TT	ESKVESWSGL	I--FP
znt5_human	KRLQALSHLV	SVLLLCPPW	-IVL-SV-TT	ESKVESWFSL	I--MP
znt5_[Mus_musculus]	KRLQALSQLV	SVFLLCPWV	-IVL-SV-TT	ESKVESWFSL	I--MP
znt5_[Rattus_norvegicus]	KRLQALSQLV	SVFLLCPWV	-IVL-SV-TT	ESKIESWFPL	I--MP
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt1-likel_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human	-----	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	----HOKKS	RDAKTPLF	AAGSASGYGG	TSEIELDCAE	----TLATYS
znt8_[Danio_rerio]	----QDKES	GERLSRLVEE	ACMLLADYSG	RLAAEIDRR	QLTRTLAVFL
znt2_[Danio_rerio]	-----	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	N
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	R
znt9_[Danio_rerio]	-----	-----	-----	-----	N
znt9_human	-----	-----	-----	-----	N
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	N
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	N
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	N
znt9like_[E.Coli_partial]	-----	-----	-----	-----	N
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	
znt33D_[Drosophila_melanogaster]	SKDFTENKGS	GNKHSTVTSN	EK	LIRSEYYE	
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----	
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	
transporter_[E.Coli]	-----	-----	-----	-----	
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	
znt7_[Danio_rerio]	-----	-----	-----	-----	
znt7_human	-----	-----	-----	-----	
znt7_[Mus_musculus]	-----	-----	-----	-----	
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	
znt5-like_[Ciona_intestinalis]	-----	IVFIAT	TV	FV	VEHYG
znt5_[Danio_rerio]	-----	FAMIIF	SV	MI	LDFYV
znt5_human	-----	FATVIF	FV	MI	LDFYV
znt5_[Mus_musculus]	-----	FTTVIF	FV	MI	LDFYM
znt5_[Rattus_norvegicus]	-----	FTTVIF	FV	MI	LDFYM
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human				MAG	SGAW	KRL	
znt4_[Rattus_norvegicus]				MAG	PGAW	KRL	
znt4_isoforma_[Mus_musculus]				MAG	PGAW	KRL	
znt4_isoformb_[Mus_musculus]				MAG	PGAW	KRL	
znt8_human							
znt8_[Mus_musculus]							
znt8_[Rattus_norvegicus]							
znt3_human							
znt3_[Rattus_norvegicus]							
znt3_isoform1_[Mus_musculus]							
znt3_isoform2_[Mus_musculus]							
znt2-like_[Hydra_vulgaris]							
znt35C_[Drosophila_melanogaster]							
znt2_[Ciona_intestinalis]	NNGTIPVKGIT			LKAGANA			S
znt8_[Danio_rerio]	QS	QRDGL		VQNEQKLEEY		KRKLARVSQV	
znt2_[Danio_rerio]							
znt3_isoformX1_[Danio_rerio]							
znt2_human							
znt2_isoform1_[Mus_musculus]							
znt2_isoform2_[Mus_musculus]							
znt2_isoform1_[Rattus_norvegicus]							
znt2_isoform2_[Rattus_norvegicus]							
znt9-like_[Hydra_vulgaris]							
znt9_[Drosophila_melanogaster]	TSISASRAIS	DYLLTID	DLAGLRQTKV	R		TAYDSSDLP	
znt9-like_[Ciona_intestinalis]	NFVTPNRAIS	DFLLTAA	QLESIPKIKR	R		SPYEQE	P
znt9_[Danio_rerio]	NTITAVRAMQ	EYMLPPS	DLEELRQIRV	R		SPYASN	A
znt9_human	NFITAVRAMN	EFCLKPS	DLEHLRKIRR	R		SPHDDT	E
znt9_[Rattus_norvegicus]	NFITGVRAIN	EFCLKSS	DLEQLRKIRR	R		SPHEDT	E
isoform1_znt9_[Mus_musculus]	NFITGVRAIN	EFCLKSS	DLEQLRKIRR	R		SPHDDT	E
isoform2_znt9_[Mus_musculus]	NFITGVRAIN	EFCLKSS	DLEQLRKIRR	R		SPHDDT	E
znt9like_[E.Coli_partial]	NFITGVRAIN	EFCLKSS	DLEQLRKIRR	R		SPHDDT	E
znt9like_[Rhodanobacter_glycinis]							
znt9like_[Dyella_ginsengisoli]							
znt9like2_[Actinobacteria_bacterium]							
znt9like_[Firmicutes_bacterium]							
znt9-like3_[Candidatus_Micrarchaeota_archaeon]							
znt9like_[Mesorhizobium_sp._L2C054A000]							
znt9like_[Geopsychrobacter_electrodiphilus]							
znt9like_[Sneathiella_limimaris]							
znt9like_[Sneathiella_sp]							
znt9like_[Sneathiella_chungangensis]							
znt9like_[Leptolyngbya_foveolarum]							
znt9like_[Massilia_sp._LC238]							
znt9like1_[Variovorax_paradoxus]							
znt9like2_[Variovorax_paradoxus]							
znt9like_[Nitrosospira_sp._Nsp11]							
znt9like_[Sorangium_cellulosum]							
znt9like1_[Actinobacteria_bacterium]							
znt9like_[Phormidesmis_priestleyi]							
znt9like1_[Nosdoc_punctiforme]							
znt9like2_[Nosdoc_punctiforme]							
znt9like_[Nostoc_calcicola]							
znt9like_[Nostoc_commune]							
znt9like_[Nostoc_piscinale]							

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	
znt33D_[Drosophila_melanogaster]	NSQTKSDAIK	SLSNNQLSEE	SPEFLNKLRR	IEEASKPKTW	KRPTP-VVLK
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	
transporter_[Nostoc_punctiforme]	-----	-----	-----	-----	
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	
transporter_[E.Coli]	-----	-----	-----	-----	
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	
znt9-like1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	
znt7_[Danio_rerio]	-----	-----	-----	-----	
znt7_human	-----	-----	-----	-----	
znt7_[Mus_musculus]	-----	-----	-----	-----	
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	
znt5-like_[Ciona_intestinalis]	HFFVSNR	LSPMQV	SRLGYFAIA		
znt5_[Danio_rerio]	ESICMAK	LETSRC	ARYGAIFLF		
znt5_human	DSICSVK	MEVSKC	ARYGSFPIF		
znt5_[Mus_musculus]	DSVCSVK	MDVSKC	ARYGSFPIF		
znt5_[Rattus_norvegicus]	DSVCSVK	MEASKC	ARYGSFPIF		
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	
znt6_[Danio_rerio]	-----	-----	-----	-----	
znt6_human	-----	-----	-----	-----	
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	
znt4_[Danio_rerio]	-----	-----	-----	-----	
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	
znt10_[Danio_rerio]	-----	-----	-----	-----	
znt10_human	-----	-----	-----	-----	
znt10_[Mus_musculus]	-----	-----	-----	-----	
znt10_[Rattus_norvegicus]	-----	-----	-----	-----	
znt1-likel_[Hydra_vulgaris]	-----	-----	-----	-----	
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	
znt1a_[Danio_rerio]	-----	-----	-----	-----	
znt1_human	-----	-----	-----	-----	

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt4_human				
znt4_[Rattus_norvegicus]				
znt4_isoforma_[Mus_musculus]				
znt4_isoformb_[Mus_musculus]				
znt8_human				
znt8_[Mus_musculus]				
znt8_[Rattus_norvegicus]				
znt3_human				
znt3_[Rattus_norvegicus]				
znt3_isoform1_[Mus_musculus]				
znt3_isoform2_[Mus_musculus]				
znt2-like_[Hydra_vulgaris]	M			
znt35C_[Drosophila_melanogaster]				
znt2_[Ciona_intestinalis]	AEASY			
znt8_[Danio_rerio]	RKELR			
znt2_[Danio_rerio]				
znt3_isoformX1_[Danio_rerio]				
znt2_human				
znt2_isoform1_[Mus_musculus]				
znt2_isoform2_[Mus_musculus]				
znt2_isoform1_[Rattus_norvegicus]				
znt2_isoform2_[Rattus_norvegicus]				
znt9-like_[Hydra_vulgaris]				
znt9_[Drosophila_melanogaster]	ADQCY		L	KLDVEKRAL
znt9-like_[Ciona_intestinalis]	PMTVY		W	RRDVEAKAV
znt9_[Danio_rerio]	PIHVV		L	ERDVEKKAI
znt9_human	AFTVF		L	RSDVEAKAL
znt9_[Rattus_norvegicus]	SFTVF		L	RSDVEAKSL
isoform1_znt9_[Mus_musculus]	SFTVF		L	RSDVEAKAL
isoform2_znt9_[Mus_musculus]	SFTVF		L	RSDVEAKAL
znt9like_[E.Coli_partial]	SFTVF		L	RSDVEAKAL
znt9like_[Rhodanobacter_glycinis]				
znt9like_[Dyella_ginsengisoli]				
znt9like2_[Actinobacteria_bacterium]				
znt9like_[Firmicutes_bacterium]				
znt9-like3_[Candidatus_Micrarchaeota_archaeon]				
znt9like_[Mesorhizobium_sp._L2C054A000]				
znt9like_[Geopsychrobacter_electrodiphilus]				
znt9like_[Sneathiella_limimaris]				
znt9like_[Sneathiella_sp]				
znt9like_[Sneathiella_chungangensis]				
znt9like_[Leptolyngbya_foveolarum]				
znt9like_[Massilia_sp._LC238]				
znt9like1_[Variovorax_paradoxus]				
znt9like2_[Variovorax_paradoxus]				
znt9like_[Nitrosospira_sp._Nsp11]				
znt9like_[Sorangium_cellulosum]				
znt9like1_[Actinobacteria_bacterium]				
znt9like_[Phormidesmis_priestleyi]				
znt9like1_[Nosdoc_punctiforme]				
znt9like2_[Nosdoc_punctiforme]				
znt9like_[Nostoc_calcicola]				
znt9like_[Nostoc_commune]				
znt9like_[Nostoc_piscinale]				

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----		
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----		
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----		
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----		
znt33D_[Drosophila_melanogaster]	SNQNYSAANKN	SEN	-----	ALD	AKPQ	T
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	GTAMF	-----	-----	-----	LG	F
znt5_[Danio_rerio]	LNGLL	-----	-----	-----	LA	N
znt5_human	ISALL	-----	-----	-----	FG	N
znt5_[Mus_musculus]	ISALL	-----	-----	-----	FG	N
znt5_[Rattus_norvegicus]	ISALL	-----	-----	-----	FG	N
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	FQPGAPEIPI	VENSAVDSDR	KAVEIMPEN	V
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-like1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	ISGGVIV	S	MVFFILASD	I LSWPQPK
znt5_[Danio_rerio]	LSGGVLV	S	ACFFIMADS	I LSAPSSK
znt5_human	LSGGVVV	S	AIFFILSAN	I LSSPSKR
znt5_[Mus_musculus]	LSGGVVV	S	AVFFILSAN	I LSSPSKR
znt5_[Rattus_norvegicus]	LSGGVVV	S	AVFFILSAN	I LSSPSKR
znt6_[Ciona_intestinalis]	-----	-----	FDFD	LS
znt6_[Danio_rerio]	-----	-----	SDAP	VY
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	FDSE	LQEEESPRF
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

znt9like_[Nostoc_cycadae]	-----	MA	-----	SDSSK	KTIFAAMGAN	LAIATIKFIA
znt9like_[Myxosarcina_sp._GI1]	-----	MS	-----	STSAK	KTIYAAITAN	FGIAIIKFIA
znt9like_[Chondrocystis_sp._NIES-4102]	-----	M	-----	SGSTK	ETIYAAMAAN	FAIAITKFVA
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	M	-----	SGSAK	KTIYAAMAAN	FAIAIIFKFA
znt33D_[Drosophila_melanogaster]	TA	KWD	GHCHFKE	RETGVDKAAR	RVLIIACILC	TIFLILEVIG
transporter_[Pleurocapsa_sp._PCC_7319]	-----	MSD	FQVQFDE	RLAQRNSIQ	NVLYITLGLN	LLVLETKFSL
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	MR	IVVVVLKAGV
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	MQDNRSQVR	KVLWITLLL	LFVMALKATI
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	MQDNRSQVR	RVLWLTLLL	LFVMGLKFSL
transporter_[Phormidesmis_priestleyi]	-----	M	-----	IVDNRSTVR	RVLIIITLLL	LFVLGLKAFV
transporter_[Nostoc_piscinale]	-----	M	-----	TYDNRGTVR	KVLIITLLL	LLVMGLKAVV
transporter_[Nosdoc_punctiforme]	-----	M	-----	LYDNRAEVR	KVLIITLLL	LFVMGLKALV
transporter_[Nostoc_callicola]	-----	M	-----	ISDNRAEVR	KVLIITLVLN	LFVMGLKVLV
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	MEKRFRRIR	TVLWIILFAN	FLSALVKIVV
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	MQVR	RVLWIILFAN	LGVALLKIVV
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	MKKNYRKVK	QVLWITLFIN	LLVAALKIIV
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	MTENYNKVK	KILWIVLFVN	LAVAANKILV
cationtransporter1_[Actinobacteria_bacterium]	-----	MGY	KROQVG	POGSRADVR	RVLWIILGLN	LLVAFAKLGY
cationtransporter2_[Actinobacteria_bacterium]	-----	MGY	TKASEYS	AGASRARRR	RVLWITLVLN	LVALAKLTY
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	MSTLTK	VLNKREAETT	RITVGLLLIN	IALVIAKLS
transporter_[E.Coli]	-----	MQVN	KFTDDIDI	SSHERFIAAR	KSTWVSVLVN	CFLTSGQVIT
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	MKEEKE	RIALISVLVN	ILLALGKLAI
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	MKE	KIALISVLN	LILAVGKVL
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	MKE	KIALISFVN	LLAVAGKILI
znt9-likel_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	MDKL	RAASFSILVN	LVLASAKLAV
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	MGKKL	GAASMSIAVN	TALLISKIAA
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	MSTKL	GAAALSLFVN	IALTASKLVL
znt7_[Drosophila_melanogaster]	RE	KLNS	WKR LIF	SDRNS	RNLFLFLLL	LSFAFVELFY
znt7_[Danio_rerio]	VV	KLSG	WFR SIL	ADKTS	RNLFFFCLN	LSFAFVELLY
znt7_human	FG	KISG	WFR SIL	SDKTS	RNLFFFCLN	LSFAFVELLY
znt7_[Mus_musculus]	FG	KISG	WFR SIL	SDKTS	RNLFFFCLN	LSFAFVELLY
znt7_[Rattus_norvegicus]	FG	KISG	WFR SIL	SDKTS	RNLFFFCLN	LSFAFVELLY
znt5-like_[Ciona_intestinalis]	GT	LVNG	FLR RVL	EKDS	RHIFYFLCIN	LSFAFVELAW
znt5_[Danio_rerio]	PR	FIKD	SLK QIL	EEYDS	RQIFYFLCIN	LAFTFVELFY
znt5_human	PR	FIKE	SLK QIL	EESDS	RQIFYFLCIN	LLFTFVELFY
znt5_[Mus_musculus]	PR	FIKD	SLK QVL	EESDS	RQIFYFLCIN	LLFTFVELFY
znt5_[Rattus_norvegicus]	PR	FIKD	SLK QIL	EESDS	RQIFYFLCIN	LLFTFVELFY
znt6_[Ciona_intestinalis]	YG	QLKH	TVQ PLLSL	RSA	RRTLAFIIFN	LLIIFILLSW
znt6_[Danio_rerio]	LG	KLAQ	EFR LVTSD	RRS	WKILLFGVLN	VVCTGCLLMW
znt6_human	FG	KLLR	EFR LVAAD	RRS	WKILLFGVIN	LICTGFLLMW
znt6_[Rattus_norvegicus]	FG	KLLQ	EFR LVAAD	RRS	WKILLFGAIN	VLCTGFLLMW
znt6_isoform1_[Mus_musculus]	FG	KLLQ	EFR LVAAD	RRS	WKILLFGAIN	VLCTGFLLMW
znt6_isoform2_[Mus_musculus]	FG	KLLQ	EFR LVAAD	RRS	WKILLFGAIN	VLCTGFLLMW
znt4_[Danio_rerio]	LGASTGSTGP	EAC	DGCORN	REQORRRVM	RKLGGAALVLY	FLFMVLELIG
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	MDGE	I	KQLRIAFVLT	FLVLVIQLAG
transporter_[Geopsychrobacter_electrodiphilus]	-----	MSGH	HHH DQDENI	S	ARLLATMLLN	FAITVIEIIG
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	MHKHNL	N	KRIGLVLLFN	ILITLAEYVG
znt10_[Danio_rerio]	-----	-----	MGRYSG	K	CRLILMLVIT	VIFFVAEIVA
znt10_human	-----	-----	MGRYSG	K	CRLLFMLVLT	VAFFVAELVS
znt10_[Mus_musculus]	-----	-----	MGRYSG	K	CRLLFMLVLT	AAFFVAELVS
znt10_[Rattus_norvegicus]	-----	-----	MGRYSG	K	CRLLFMLVLT	AAFFVAELVS
znt1-likel_[Hydra_vulgaris]	-----	YDK	KKFTNR	W	LKFIAMILCT	AFLFILKIVV
znt1_[Ciona_intestinalis]	-----	QENH	GFC GKIVRT	K	SRLSSMLGLI	VVYFLAEVVV
znt1a_[Danio_rerio]	-----	-----	MAC AP	N	VRLLCMLSLT	FGFFIVEVVV
znt1_human	-----	-----	MGCWGR	N	GRLLCMLALT	FMFVLEVVV

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

```
-----  ---MGCWGR  N-----R  GRLLCMLLLT  FMFMVLEVVV  
-----  ---MGCWGR  N-----R  GRLLCMLLLT  FMFMVLEVVV  
-----  ---MAKYSG  K-----K  CRLLSMMWLT  AFFFFVEIIV  
-----  ---MAKYSG  K-----K  CRLLSMMWLT  AFFFFVEIIV  
-----  M  GKM  RCCQLS  Q-----K  VSFVSMMLT  TTFFIVEIVV
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znt4_human	GYIANSLAIM	TDALHMLTDL	S	----	AAIL	TLLALWLSS	---	KSP	---
znt4_[Rattus_norvegicus]	GYMANSLAIM	TDALHMLTDL	S	----	AAIL	TLLALWLSS	---	KSP	---
znt4_isoforma_[Mus_musculus]	GYMANSLAIM	TDALHMLTDL	S	----	AAIL	TLLALWLSS	---	KSP	---
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----	-----	-----	-----	-----
znt8_human	GHIAGSLAVV	TDAAHLLIDL	T	----	SFLL	SLFSLWLSS	---	KPP	---
znt8_[Mus_musculus]	GHVAGSLAIL	TDAAHLLIDL	T	----	SFLL	SLFSLWLSS	---	RPP	---
znt8_[Rattus_norvegicus]	GHVAGSLAVL	TDAAHLLIDL	T	----	SFLL	SLFSLWLSS	---	RPP	---
znt3_human	GYLAHSLAIM	TDAAHLLADV	G	----	SMMG	SLFSLWLST	---	RPA	---
znt3_[Rattus_norvegicus]	GYLAHSLAIM	TDAAHLLADI	G	----	SMMA	SLFSLWLST	---	RPA	---
znt3_isoform1_[Mus_musculus]	GYLAHSLAIM	TDAAHLLADI	G	----	SMLA	SLFSLWLST	---	RPA	---
znt3_isoform2_[Mus_musculus]	GYLAHSLAIM	TDAAHLLADI	G	----	SMLA	SLFSLWLST	---	RPA	---
znt2-like_[Hydra_vulgaris]	GYFSNSLAIM	TDAAHLLSDF	G	----	SFMI	SLFALWLTG	---	KKP	---
znt35C_[Drosophila_melanogaster]	GVLSNSLAIA	TDAAHLLTDF	A	----	SFMI	SLFAIWIAG	---	RPS	---
znt2_[Ciona_intestinalis]	GFLANSLAIM	TDASHLLTDV	S	----	SFLI	SIIALKMAA	---	RPI	---
znt8_[Danio_rerio]	GYFAGSLAVM	TDAAHLLVDL	T	----	SFII	SLCSLWLSS	---	RPA	---
znt2_[Danio_rerio]	GYLAHSLAIM	TDAAHLLTDF	G	----	SMMV	SLFSLWISS	---	RPP	---
znt3_isoformX1_[Danio_rerio]	GYLAHSLAIM	TDAAHLLTDF	G	----	SMMV	SLFSLWISS	---	RPP	---
znt2_human	-----	-----	-----	-----	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	GYLAQSLAIM	TDAAHLLTDF	A	----	SMLI	SLFALWVSS	---	RPA	---
znt2_isoform2_[Mus_musculus]	GYLAQSLAIM	TDAAHLLTDF	A	----	SMLI	SLFALWVSS	---	RPA	---
znt2_isoform1_[Rattus_norvegicus]	GYLAQSLAIM	TDAAHLLTDF	A	----	SMLI	SLFSLWVSS	---	RPA	---
znt2_isoform2_[Rattus_norvegicus]	GYLAQSLAIM	TDAAHLLTDF	A	----	SMLI	SLFSLWVSS	---	RPA	---
znt9-like_[Hydra_vulgaris]	YIYTGASML	SEAIHSLADA	A	----	NQML	LYIGIWHSI	---	KK	P
znt9_[Drosophila_melanogaster]	WLYSGSHSMF	AEVIHSLADL	I	----	NQLI	LAFGIYKSS	---	QS	P
znt9-like_[Ciona_intestinalis]	FLSTGASMF	SETLHSLADT	C	----	NQLL	LLWGINESL	---	KK	A
znt9_[Danio_rerio]	WVYTGASMF	SEAIHSLADT	C	----	NQAL	LALGISQSV	---	RN	P
znt9_human	WIYTGASMF	SEAIHSLSDT	C	----	NQGL	LALGISKSV	---	QT	P
znt9_[Rattus_norvegicus]	WIYTGASMF	SEAIHSLSDT	C	----	NQGL	LALGISKSV	---	QT	P
isoform1_znt9_[Mus_musculus]	WIYTGASMF	SEAIHSLSDT	C	----	NQGL	LALGISKSV	---	QT	P
isoform2_znt9_[Mus_musculus]	WIYTGASMF	SEAIHSLSDT	C	----	NQGL	LALGISKSV	---	QT	P
znt9like_[E.Coli_partial]	----GSAAML	NESIHSLVDC	G	----	NQVL	LLFGDKRAK	---	RA	Q
znt9like_[Rhodanobacter_glycinis]	AFITGSGAML	AEAIHSLADC	G	----	NQGL	LLLGMROAK	---	RP	P
znt9like_[Dyella_ginsengisoli]	ALVTGSGAML	AEAVHSLADC	G	----	NQGL	LLLGVRQAK	---	RP	P
znt9like2_[Actinobacteria_bacterium]	FLLTGSAALL	AEAGHSVADT	G	----	NQGL	LMFGSKRGK	---	RP	A
znt9like_[Firmicutes_bacterium]	AVLTGSAALF	AETLHSFADT	G	----	NQVL	LLHGLRRSG	---	RP	A
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	AVLTGSTALL	AEGFHSLADT	A	----	NQLF	LLIGLRLSS	---	RP	P
znt9like_[Mesorhizobium_sp._L2C054A000]	AFFTGSSAML	SEGVHSLVDT	G	----	NGGL	LLYGMHRAA	---	RP	P
znt9like_[Geopsychrobacter_electrodiphilus]	AALTGSSAML	SEGIHSSVDT	G	----	NQLL	LLLGLHKAK	---	QP	A
znt9like_[Sneathiella_limimaris]	ATVTGSSAML	SEGVHSLVDT	G	----	NQGL	MLLGLKRAQ	---	KG	P
znt9like_[Sneathiella_sp]	AFFTGSSAML	SEGVHSLVDT	G	----	NQIL	MLHGLKRAE	---	KR	A
znt9like_[Sneathiella_chungangensis]	AFFTGSSAML	SEGVHSLVDT	G	----	NQIL	MLHGLKRAA	---	KR	A
znt9like_[Leptolyngbya_foveolarum]	AYVSGSSAML	SEGIHSSVDS	V	----	NEVL	LLYGLKQSE	---	AM	P
znt9like_[Massilia_sp._LC238]	AGVTGSAAMV	AEGIHSVADT	G	----	NEFL	LLYGERRSS	---	RP	A
znt9like1_[Variovorax_paradoxus]	AGITGSSAML	SEGIHSSVDT	F	----	NGVL	LLVGLRLSK	---	RP	P
znt9like2_[Variovorax_paradoxus]	AGITGSSAML	SEGIHSAVDT	F	----	NGVL	LLVGLKLSK	---	RP	A
znt9like_[Nitrospira_sp._Nsp11]	AAHTGSSAML	SEGIHSMVDT	G	----	NQLL	LLLGVNRSQ	---	QP	A
znt9like_[Sorangium_cellulosum]	AAVTGSSAML	SEGVHSLVDT	A	----	DGLL	LLL GKHRSA	---	RP	P
znt9like1_[Actinobacteria_bacterium]	ASLTGSSAML	SEGIHSSVDT	G	----	NGAL	LFLGIRQSQ	---	KP	A
znt9like_[Phormidismis_priestleyi]	ASITGSSAML	SEGIHSSVDT	T	----	NELL	LLLGIHLSN	---	RP	P
znt9like1_[Nosdoc_punctiforme]	ASITGSSAMI	SEGIHSSVDT	G	----	DQLV	LLLGLHRSQ	---	KP	A
znt9like2_[Nosdoc_punctiforme]	AAITGSSAMI	SEGIHSIGDT	S	----	DQLL	LLLGLSRSQ	---	KP	A
znt9like_[Nostoc_calcicola]	ASITGSSAMI	SEGIHSSVDT	G	----	DQLL	LLLGISRSQ	---	KP	A
znt9like_[Nostoc_commune]	ASITGSSAMI	SEGIHSIVDT	S	----	DQLL	LLLGISRSQ	---	KP	A
znt9like_[Nostoc_piscinale]	AFITNSSAMI	SEGIHSLVDT	A	----	DQLL	LLLGIHRSQ	---	KP	A

znt9like_[Nostoc_cycadae]	AFMTNSSAMI	SEGIHSLVDT	A	----	DQLL	LLL	GIRMSQ	---	KP	A	---
znt9like_[Myxosarcina_sp._GI1]	AFITGSSAML	SEGIHSIVDT	G	----	NELL	LLL	GLRLSK	---	KP	P	---
znt9like_[Chondrocystis_sp._NIES-4102]	AYITGSSAML	SEGIHSVVDT	G	----	NELL	LLL	GIRLSK	---	KP	A	---
znt9like_[Pleurocapsa_sp._PCC_7319]	ASITGSSAML	SEGIHSVVDT	G	----	NELL	LLL	GIRLSK	---	KP	A	---
znt33D_[Drosophila_melanogaster]	GILSNLSLAI	TDAAHLLTDL	A	----	SFLI	SIS	ALHLAG	---	RPS		---
transporter_[Pleurocapsa_sp._PCC_7319]	GLAMGSLSDS	ADALHSLSDS	A	----	SNVL	GLIAM	RLAN	---	PK	P	---
transporter_[Leptolyngbya_foveolarum]	GYWTGSLSLM	ADALHSVTD	A	----	NNVL	GLVTN	QLAS	---	PE	P	---
transporter_[Myxosarcina_sp._GI1]	GFATGSLSLQ	ADALHSITDS	A	----	NNIL	GLIAN	RFSS	---	PL	P	---
transporter_[Chondrocystis_sp._NIES-4102]	GIATGSLSLQ	ADALHSVTD	A	----	NNIL	GLVTN	RFSS	---	PQ	P	---
transporter_[Phormidesmis_priestleyi]	GLTTGSLSLL	ADALHSLTDS	A	----	SNVL	GLVAS	RFSS	---	PM	P	---
transporter_[Nostoc_piscinale]	GYWTGSLSLL	ADALHSVTD	A	----	NNVL	GLFAS	KFSS	---	PH	P	---
transporter_[Nosdoc_punctiforme]	GYWTGSLSLL	ADALHSVTD	A	----	NNVL	GLIAS	KFSS	---	PQ	P	---
transporter_[Nostoc_caldicola]	GYWTGSLSLL	ADALHSVTD	A	----	NNVL	GLIAS	KFSS	---	PQ	P	---
cationtransporter3_[Firmicutes_bacterium]	GSMIKSVSLT	ADGYHSLTDG	S	----	SNIV	GLIAT	YLGA	---	KP	V	---
c.e.p_[Firmicutes_bacterium]	GTTIGSVSMI	ADGYHSLSDG	S	----	SNVV	GLIGI	RFAS	---	QP	V	---
cationtransporter1_[Firmicutes_bacterium]	GVMIKSASMT	ADGFHSITDG	S	----	SNIV	GLIGI	HFAS	---	QP	V	---
cationtransporter2_[Firmicutes_bacterium]	GTIIKSASMT	ADGFHSLTDG	S	----	GNVV	GLIGV	YFAA	---	KP	V	---
cationtransporter1_[Actinobacteria_bacterium]	GIFTDSVAMT	ADGFHSMFDG	T	----	SNVI	GLLAM	AIAS	---	RP	A	---
cationtransporter2_[Actinobacteria_bacterium]	GTITNSAAMQ	ADGFHSLFDG	T	----	SNVV	GLVGM	YLAA	---	RP	A	---
c.e.p_[Candidatus_Woeseearchaeota_archaeon CG08_land_8_20_14_0_20_43_7]	GFLGNSRALI	ADAMHSFSDL	G	----	TDII	TLIGV	KWGS	---	KP	A	---
transporter_[E.Coli]	GIFSGSQGLI	ADGIHSLSDL	V	----	SDFV	VLIAN	HKSK	---	KN	P	---
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	GVLGTGSASVV	AEGIHSGMDV	L	----	SSAI	SLG	IKASK	---	KP	I	---
znt9-like_[Candidatus_Pacearchaeota_archaeon]	GILAKSASVL	AEGIHSSMDV	L	----	SSTI	SLIGI	KIAK	---	KP	V	---
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	GILSNNSASIL	AEGIHSGIDV	L	----	SSLI	SLIGI	KIAK	---	KP	V	---
znt9-likel_[Candidatus_Micrarchaeota_archaeon]	GLLTNSLGLI	AEFLHSLFDL	L	----	ASVF	AFLG	IRKAO	---	EP	A	---
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	AFITGSIGLY	AE SAHSLFDL	L	----	ASFL	AYL	GIRKAE	---	EP	E	---
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	AAITGSIGLL	AEAAHSFFDL	L	----	ASAF	AYL	GIRKAE	---	QP	D	---
znt7_[Drosophila_melanogaster]	GIVTNSLGLI	SDSFHMFFDC	T	----	GLLA	GLAAS	VITK	---	WK		---
znt7_[Danio_rerio]	GIWSNSLGLI	SDSFHMFFDC	T	----	ALLA	GLAAS	VISR	---	WR		---
znt7_human	GIWSNCLGLI	SDSFHMFFDS	T	----	AILA	GLAAS	VISK	---	WR		---
znt7_[Mus_musculus]	GIWSNCLGLI	SDSFHMFFDS	T	----	AILA	GLAAS	VISK	---	WR		---
znt7_[Rattus_norvegicus]	GIWSNCLGLI	SDSFHMFFDS	T	----	AILA	GLAAS	VISK	---	WR		---
znt5-like_[Ciona_intestinalis]	GAWSNSLGLI	SDSFHMLFDC	T	----	ALVL	GLVA	AVMAK	---	WK		---
znt5_[Danio_rerio]	GVWTNSLGLI	SDGFHMLFDC	S	----	ALVL	GLFA	ALMTR	---	WK		---
znt5_human	GVLTNLGLI	SDGFHMLFDC	S	----	ALVM	GLFA	ALMSR	---	WK		---
znt5_[Mus_musculus]	GVLTNLGLI	SDGFHMLFDC	S	----	ALVM	GLFA	ALMSR	---	WK		---
znt5_[Rattus_norvegicus]	GVLTNLGLI	SDGFHMLFDC	S	----	ALVM	GLFA	ALMSR	---	WK		---
znt6_[Ciona_intestinalis]	CKSTNSLALR	SFAYLTVDF	F	----	TLIT	CMIS	IWSTA	---	NQISQS		---
znt6_[Danio_rerio]	CSSTNSMALT	AYTYLTI FDL	F	----	SLIT	CLLS	SLWVTM	---	KKPS		---
znt6_human	CSSTNSIALT	AYTYLTI FDL	F	----	SLMT	CLIS	YVWTL	---	RKPS		---
znt6_[Rattus_norvegicus]	CSSTNSIALT	AYTYLTI FDL	F	----	SLIT	CLIS	YVWMM	---	RRPS		---
znt6_isoform1_[Mus_musculus]	CSSTNSIALT	AYTYLTI FDL	F	SLFFF	SLIT	CLIS	YVWMM	---	RKPS		---
znt6_isoform2_[Mus_musculus]	CSSTNSIALT	AYTYLTI FDL	F	----	SLIT	CLIS	YVWMM	---	RKPS		---
znt4_[Danio_rerio]	GYVANSLAIM	TDALHMLTDL	I	----	GIIV	SLLA	LWLSA	---	KPP		---
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	WYYSNSLALL	GDIGHVFS DM	L	----	SLGV	SMA	AVLAL	---	RAP		---
transporter_[Geopsychrobacter_electrodiphilus]	GLLSGSLSLI	SDALHNFS DG	I	----	AIII	SYIA	LHLSM	---	KPR		---
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	GILSGSLALI	SDAGHNFS DV	L	----	ALLL	GYI	GERFSS	---	KKA		---
znt10_[Danio_rerio]	GYMGNSVALV	SDSFNMLS DI	L	----	SLCV	GLTA	ARVSR	---	RAGS		---
znt10_human	GYLGNLIALL	SDSFNMLS DL	I	----	SLCV	GLS	AGYIAR	---	RPTR		---
znt10_[Mus_musculus]	GYLGNLIALL	SDSFNMLS DL	I	----	SLCV	GLG	SGYIAR	---	RGPR		---
znt10_[Rattus_norvegicus]	GYLGNLIALL	SDSFNMLS DL	I	----	SLCV	GLG	SGYIAR	---	RGPR		---
znt1-likel_[Hydra_vulgaris]	GYLNSMALV	ADSFHMIT DF	A	----	ALII	GFIA	LRIAN	---	KENND		---
znt1_[Ciona_intestinalis]	GHLTSSLTLI	ADSFHMLS DA	L	----	SLIV	ALIA	VRMSK	---	RDAQQS		---
znt1a_[Danio_rerio]	SRITSSLAML	SDSFHMLS DV	I	----	ALVV	ALVA	VRFAE	---	QTQS		---
znt1_human	SRVTSSLAML	SDSFHMLS DV	L	----	ALVV	ALVA	ERFAR	---	RTHA		---

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

SRVTASLAML	SDSFHMLSDV	L----	ALVV	ALVAERFAR	---	RTHA	---
SRVTASLAML	SDSFHMLSDV	L----	ALVV	ALVAERFAR	---	RTHA	---
GYVTNSMALV	ADSFHMLGDI	A----	ALVI	SFLSVKMSP	---	K--K	---
GYVTNSMALV	ADSFHMLGDI	A----	ALVI	SFLSVKMSP	---	K--K	---
GyltNSMALV	ADSFHMLSDV	V----	SLLV	GYVALRYSK	---	RGQT	---

znt4_human	-----	TKR	FTFGF	HRLE	VLSAMISVLL	VYILMGF	LL	YEAVQRTIHM
znt4_[Rattus_norvegicus]	-----	TRR	FTFGF	HRLE	VLSAMISVML	VYVLMGF	LL	YEAMQRTIHM
znt4_isoforma_[Mus_musculus]	-----	TRR	FTFGF	HRLE	VLSAMISVML	VYVLMGF	LL	YEAVQRTIHM
znt4_isoformb_[Mus_musculus]	-----				VLSAMISVML	VYVLMGF	LL	YEAVQRTIHM
znt8_human	-----	SKR	LTFGW	HRAE	ILGALLSILC	IWVVTGV	LV	YLACERLLYP
znt8_[Mus_musculus]	-----	SKR	LTFGW	YRAE	ILGALLSVLC	IWVVTGV	LL	YLACERLLYP
znt8_[Rattus_norvegicus]	-----	SKR	LTFGW	YRAE	ILGALLSVLC	IWVVTGV	LV	YLACERLLYP
znt3_human	-----	TRT	MTFGW	HRSE	TLGALASVVS	LWMVTGI	LL	YLAFLRLLHS
znt3_[Rattus_norvegicus]	-----	TRT	MTFGW	HRSE	TLGALASVVS	LWIVTGI	LL	YLAFLRLLHS
znt3_isoform1_[Mus_musculus]	-----	TRT	MTFGW	HRSE	TLGALASVVS	LWIVTGI	LL	YLAFLRLLHS
znt3_isoform2_[Mus_musculus]	-----	TRT	MTFGW	HRSE	TLGALASVVS	LWIVTGI	LL	YLAFLRLLHS
znt2-like_[Hydra_vulgaris]	-----	SKK	LSFGW	HRAE	VMGAFLSVLI	IWVLTGV	LV	FEAIKRVMNH
znt35C_[Drosophila_melanogaster]	-----	TQR	MSFGW	YRAE	VIGAMASVFM	IWVITGI	LV	WLAIGRLISG
znt2_[Ciona_intestinalis]	-----	SKK	MTFGW	HRAE	VIGALISVLA	IWIVTGV	LV	YLAVMRLIHN
znt8_[Danio_rerio]	-----	TRT	LNFGW	HRAE	ILGALLSIFT	IWLVTGV	LV	YLAVERIIND
znt2_[Danio_rerio]	-----	TKI	MNFGW	HRSE	ILGALISVMS	IWIVTGV	LV	YLAIERIVKN
znt3_isoformX1_[Danio_rerio]	-----	TKI	MNFGW	HRSE	ILGALISVMS	IWIVTGV	LV	YLAIERIVKN
znt2_human	-----				ILGALVSVLS	IWVVTGV	LV	YLAVERLLSG
znt2_isoform1_[Mus_musculus]	-----	TKT	MNFGW	HRAE	ILGALLSVLS	IWVVTGV	LV	YLAVQRLISG
znt2_isoform2_[Mus_musculus]	-----	TKT	MNFGW	HRAE	ILGALLSVLS	IWVVTGV	LV	YLAVQRLISG
znt2_isoform1_[Rattus_norvegicus]	-----	TKT	MNFGW	QRAE	ILGALLSVLS	IWVVTGV	LV	YLAVQRLISG
znt2_isoform2_[Rattus_norvegicus]	-----	TKT	MNFGW	QRAE	ILGALLSVLS	IWVVTGV	LV	YLAVQRLISG
znt9-like_[Hydra_vulgaris]	-----	SPD	HPYGW	VRSR	YIYSLVSGCG	IFFLGVGFTV		YHGFSELMAP
znt9_[Drosophila_melanogaster]	-----	DID	HPYGY	MNMR	YVSSLSIGVG	IFCVGCGLSI		YHGIDGILHP
znt9-like_[Ciona_intestinalis]	-----	DEE	HPYGF	GNMR	HIMSLISGVG	IFCIGCGASI		YHGIQVLLHP
znt9_[Danio_rerio]	-----	DAI	HPYGF	SNMR	YIASLISGVG	IFMMGAGLSW		YHGIMGLLHP
znt9_human	-----	DPS	HPYGF	SNMR	YISSLSIGVG	IFMMGAGLSW		YHGVMLLHP
znt9_[Rattus_norvegicus]	-----	DPS	HPYGF	SNMR	YISSLSIGVG	IFMMGAGLSW		YHGIMGLLHP
isoform1_znt9_[Mus_musculus]	-----	DPS	HPYGF	SNMR	YISSLSIGVG	IFMMGAGLSW		YHGIMGLLHP
isoform2_znt9_[Mus_musculus]	-----	DPS	HPYGF	SNMR	YISSLSIGVG	IFMMGAGLSW		YHGIMGLLHP
znt9like_[E.Coli_partial]	-----	SQV	HPFGE	ARAK	YFFSMLVATF	LFVGGGVIGV		MEAYDKLVHP
znt9like_[Rhodanobacter_glycinis]	-----	SDD	YPLGW	GRAL	YFWSFLVALL	LFVSGGLFSI		YEGVHKLHP
znt9like_[Dyella_ginsengisoli]	-----	SDE	FPLGW	GRAM	YFWSFLVAIL	LFVSGGMFSV		YEGVHKLHP
znt9like2_[Actinobacteria_bacterium]	-----	DSA	HPFGY	GPER	YFWSFIVALV	LFVSMGGLFAL		YEGISKVQHP
znt9like_[Firmicutes_bacterium]	-----	DAA	HPFGY	GKEQ	YFWAFVVAIV	LFALGAVFSL		VEGVEKVLAP
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	DLK	HPFGY	GKEG	YFWAFVVSIS	ILVVGATFSI		HEGVQKVLQP
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	DRT	HPLGH	GREL	YFWSFIVALL	VFALGAGVSF		YEGVVHIMAP
znt9like_[Geopsychrobacter_electrodiphilus]	-----	DER	FPPGH	AKEV	YFWSFVVALL	IFAVGAGVSL		YEGIHHLAHP
znt9like_[Sneathiella_limimaris]	-----	DOK	HPFGY	GMEI	YFWSFMVAIL	IFALGAGISI		YEGFHAIQDP
znt9like_[Sneathiella_sp]	-----	DAI	HPFGY	GMEI	YFWAFVVAIV	IFALGAGISL		YEGIKHIAHP
znt9like_[Sneathiella_chungangensis]	-----	DKD	HPFGY	GMEI	YFWAFVVAIV	IFALGAGISL		YEGIKHIRHP
znt9like_[Leptolyngbya_foveolarum]	-----	DEQ	HPLGR	SOEL	YFWSLMVAVL	IFALGGGVSF		LOGIRSFONP
znt9like_[Massilia_sp._LC238]	-----	DRK	HPFGY	GKSL	YFWALIVAL	VFSLGGGLSI		YHGLDALENP
znt9like1_[Variovorax_paradoxus]	-----	SVE	HPFGH	GKEL	YFWSLIVAVL	IFGLGGGVSF		YEGIEHIRHP
znt9like2_[Variovorax_paradoxus]	-----	TPE	HPFGH	GKEL	YFWSLIVGVL	IFGLGGGVSF		YEGIQHMRAP
znt9like_[Nitrosospira_sp._Nsp11]	-----	DSG	HPYGY	GKEL	YFWSLIVAMV	LFVGGGGMAI		YEGTIIHIAHP
znt9like_[Sorangium_cellulosum]	-----	DAE	HPFGH	GKEL	YFWTLIVAIM	IFAAGGGVSI		YEGILHLLHP
znt9like1_[Actinobacteria_bacterium]	-----	DEA	HPFGH	GKEL	YFWSLIVAIS	IFGVGGGMSI		YEGILHLLNP
znt9like_[Phormidismis_priestleyi]	-----	DDR	HPFGH	GOEL	YFWTLIVAIL	IFAIGGGMSI		YEGISHLTRP
znt9like1_[Nosdoc_punctiforme]	-----	DDS	HPFGY	GOEL	YFWTFIVAIL	IFAIGGGMSI		YEGITHLINP
znt9like2_[Nosdoc_punctiforme]	-----	DDS	HPFGY	GOEL	YFWTLIVAIL	IFAIGGGMSI		YEGITHLINP
znt9like_[Nostoc_calcicola]	-----	NDS	HPFGY	GOEL	YFWTFIVAIL	IFAIGGGMSI		YEGITHLINP
znt9like_[Nostoc_commune]	-----	DDS	HPFGY	GOEL	YFWTFIVAIL	IFAIGGGMSI		YEGITHLINP
znt9like_[Nostoc_piscinale]	-----	DDS	HPFGY	GOEL	YFWTFIVAI	IFAIGGGMSI		YEGITHLINP

znt9like_[Nostoc_cycadae]	-----	DDS	HPFGY	GOEL	YFWTLIVAIF	IFAIAGGMSI	YEGITHLINP
znt9like_[Myxosarcina_sp._GI1]	-----	DDT	HPFGY	GOEL	YFWTLVVALF	IFAVGGGMSI	YEGVNHLLAP
znt9like_[Chondrocystis_sp._NIES-4102]	-----	DES	HPFGY	GHEL	YFWTLIVALL	IFGIGGGMSI	YEGIRHVRNP
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	DDS	HPFGY	GOEL	YFWTLIVALF	IFAIAGGMSI	YEGINHVRHP
znt33D_[Drosophila_melanogaster]	-----	SER	LNYGW	HRAE	VIGAMVSIF	IWVVTE	--RHPRVHGH
transporter_[Pleurocapsa_sp._PCC_7319]	-----	DWD	HPYGH	SKFE	SLGALGVAGF	LIVAGTE	IFGSALKRFLVFP
transporter_[Leptolyngbya_foveolarum]	-----	DRD	HPYGH	OKYE	AVGTLGIAAF	LGIACFE	ILKGAGERIVLFG
transporter_[Myxosarcina_sp._GI1]	-----	DRE	HPYGH	QKFE	ALGALGIAAF	LGIACFE	ILKGAVERIAFG
transporter_[Chondrocystis_sp._NIES-4102]	-----	DRE	HPYGH	QKFE	AIGALGIAAF	LGIACFE	ILRGAVEKVVFFA
transporter_[Phormidesmis_priestleyi]	-----	DRD	HPYGH	QKFE	AVSALGIAAF	LGIACFE	ILQGAIERLM-G
transporter_[Nostoc_piscinale]	-----	DRE	HPYGH	QKFE	AVGALGIAAF	LGIACFE	ILQGAIERIIKG
transporter_[Nosdoc_punctiforme]	-----	DRE	HPYGH	SKFE	AVGALGIAAF	LGIACFE	ILQGAIERIIKG
transporter_[Nostoc_calicicola]	-----	DRE	HPYGH	SKFE	AVGALGIAAF	LGIACFE	ILQGAIERIIKG
cationtransporter3_[Firmicutes_bacterium]	-----	DED	HPYGH	KKFE	TLAALLIAIM	LGFLGCK	ILFGAALRLANP
c.e.p_[Firmicutes_bacterium]	-----	DED	HPYGH	RKFE	TLAGLFIAGM	LFFVGGK	IFFSaidRfMNP
cationtransporter1_[Firmicutes_bacterium]	-----	DED	HPYGH	SKFE	MLAGLVIAGM	LFVLGGK	IVIDAVSRFINP
cationtransporter2_[Firmicutes_bacterium]	-----	DRD	HPYGH	GKCE	MFAGLLIAGM	LFLGGK	IIIDAVNRFMSP
cationtransporter1_[Actinobacteria_bacterium]	-----	DDD	HPYGH	AKYE	TFASAIIGAM	LLLAAWR	VGSSAIERLINF
cationtransporter2_[Actinobacteria_bacterium]	-----	DHD	HPYGH	GKYE	TYASAGIAAM	LLFAAYR	IGSSAVTQLFGE
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	DED	HYYGH	QKIE	SLAQFLMGLF	LVATAIG	IGFSAGKAIYFH
transporter_[E.Coli]	-----	DDD	HYYGH	HRYE	NGASLILGTI	LFIVGIG	MLWSAVNKMKQP
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	DEM	HPYGH	YKFE	VLSGLLITFI	LFITGIG	IIYDAYLGFVNP
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	DKK	HPYGY	YKFE	VLSGFFITFI	LFATGIG	IIYEAYKSFLDP
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	DKK	HPYGY	YKFE	VLAGLIITIM	LFTTGAG	IIYNAINGFLSH
znt9-likel_[Candidatus_Micrarchaeota_archaeon]	-----	DRT	HPYGH	EKFE	NLSSLLQIL	IFVTAIW	VA YEAIMRLYHP
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	DRT	HFFGH	EKFE	NLSSMLQALL	ITGTASV	VLFEAYQKFSEP
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	DPS	HYYGH	ERFE	TLSSFLQALL	IMGTAFV	ILWESYRRFLNP
znt7_[Drosophila_melanogaster]	-A-	NDK	FSYGY	VRAE	VLAGFVNSLF	LLFIAFF	ILSEGVERLIEP
znt7_[Danio_rerio]	-S-	NDS	FSYGY	VRAE	VLAGFVNGLF	LIFTAFF	IFSEGVERALEP
znt7_human	-D-	NDA	FSYGY	VRAE	VLAGFVNGLF	LIFTAFF	IFSEGVERALAP
znt7_[Mus_musculus]	-D-	NDA	FSYGY	VRAE	VLAGFVNGLF	LIFTAFF	IFSEGVERALAP
znt7_[Rattus_norvegicus]	-D-	NDA	FSYGY	VRAE	VLAGFVNGLF	LIFTAFF	IFSEGVERALAP
znt5-like_[Ciona_intestinalis]	-S-	TRI	FPYGY	GRVE	VLSGFVNGLF	LLVVAFF	LFYEAFQRLIDP
znt5_[Danio_rerio]	-A-	TRI	YSYGY	GRVE	ILSGFINGLF	LMVIAFF	VFVESVTRLVDP
znt5_human	-A-	TRI	FSYGY	GRIE	ILSGFINGLF	LIVIAFF	VFMESVARLIDP
znt5_[Mus_musculus]	-A-	TRI	FSYGY	GRIE	ILSGFINGLF	LIVIAFF	VFMESVARLIDP
znt5_[Rattus_norvegicus]	-A-	TRI	FSYGY	GRIE	ILSGFINGLF	LIVIAFF	VFMESVARLIDP
znt6_[Ciona_intestinalis]	-----	EEGT	IVFNY	ERIE	VVSVFSSVVL	ASLGSIF	ILKECIIRIIDQ
znt6_[Danio_rerio]	-----	QI	YSFGF	ORFE	VLAVFSSTVL	VQLGSLF	ILKESVERFVEQ
znt6_human	-----	PV	YSFGF	ERLE	VLAVFASTVL	AQLGALF	ILKESAERFLEQ
znt6_[Rattus_norvegicus]	-----	AA	YSFGF	ERLE	VLAVFASTVL	AQLGALF	ILKESAERFLEQ
znt6_isoform1_[Mus_musculus]	-----	PV	YSFGF	ERLE	VLAVFASTVL	AQLGALF	ILKESAERFLEQ
znt6_isoform2_[Mus_musculus]	-----	PV	YSFGF	ERLE	VLAVFASTVL	AQLGALF	ILKESAERFLEQ
znt4_[Danio_rerio]	-----	TYR	FTFGL	HRLE	VLSAGISVLL	IYILTG	LLNEAAQRTIHQ
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	SSR	YTFGL	HRAE	VFSAFFNGVL	LVLMA	LLIA YEALLRIGTG
transporter_[Geopsychrobacter_electrodiphilus]	-----	TSQ	YTFGL	KRAQ	ILAAVINS	AVLLAV	CIY LL REAFDKLLHP
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	TKR	HSFGL	KRFE	VFTALINALA	LWAI	GAY II FESVKRFYLP
znt10_[Danio_rerio]	-----	G-R	FSFGL	GRAE	VVGALANAVF	LIALCFS	ISMESLKRRLAMP
znt10_human	-----	GFS	ATYGY	ARAE	VVGALSNAVF	LTALCFT	IFVEAVLRLARP
znt10_[Mus_musculus]	-----	GSS	ATYGY	VRAE	VVGALSNAVF	LTALCFT	IFVEAVLRLARP
znt10_[Rattus_norvegicus]	-----	GSS	ATYGY	VRAE	VVGALSNAVF	LTALCFT	IFVEAVLRLARP
znt1-likel_[Hydra_vulgaris]	-----	FRFSE	FTFGW	VRVE	VLGGMINTVF	LLALCFS	IFITSLKRFVQP
znt1_[Ciona_intestinalis]	-----	TPWPSKQAYF	NTFGW	VRFE	VVGALINATF	LLALCIS	IMMEAIKFFYDP
znt1a_[Danio_rerio]	-----	TNK	NTFGW	IRAE	VMGALVNAVF	LTALCFT	IILEAIERFTEP
znt1_human	-----	TQK	NTFGW	IRAE	VMGALVNAIF	LTGLCFA	ILLEAIERFIEP

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

-----TQK NTFGW-IRAE VMGALVNAIF LTGLCFA-IL LEAVERFIEP
-----TQK NTFGW-IRAE VMGALVNAIF LTGLCFA-IL LEAVERFIEP
-----WSK NTFGW-ARAE VLGALVNAVF LVALCFS-IT IEACKRFIEE
-----WSK NTFGW-ARAE VLGALVNAVF LVALCFS-IT IEACKRFIEE
-----TSR YTFGW-VRAE VLGALVNAVF LVALCFS-IL VESFKRIVIS

znt4_human	N	----	----	YEIN	----	GDIMLITAA	VGVA	NVIMG	FL	LNQSGHR
znt4_[Rattus_norvegicus]	N	----	----	YEIN	----	GDVMLITAA	VGVA	NVIMG	FL	LNQSGHH
znt4_isoforma_[Mus_musculus]	N	----	----	YEIN	----	GDVMLITAA	VGVA	NVIMG	FL	LNQSGHH
znt4_isoformb_[Mus_musculus]	N	----	----	YEIN	----	GDVMLITAA	VGVA	NVIMG	FL	LNQSGHH
znt8_human	D	----	----	YQIQ	----	ATVMIIVSS	CAVA	ANIVLT	VV	LHQRCGLG
znt8_[Mus_musculus]	D	----	----	YQIQ	----	AGIMITVSG	CAVA	ANIVLT	MI	LHQRFNG
znt8_[Rattus_norvegicus]	D	----	----	YQIQ	----	AGIMITVSG	CAVA	ANIVLT	LI	LHQRHLLG
znt3_human	D	----	----	YHIE	----	GGAMLLTAS	IAVCAN	LLMA	FV	LHQAGPP
znt3_[Rattus_norvegicus]	D	----	----	YHIE	----	AGAMLLTAS	IAVCAN	MIMA	FV	LHOTGAP
znt3_isoform1_[Mus_musculus]	D	----	----	YHIE	----	AGAMLLTAS	IAVCAN	LLMA	FV	LHOTGAP
znt3_isoform2_[Mus_musculus]	D	----	----	YHIE	----	AGAMLLTAS	IAVCAN	LLMA	FV	LHOTGAP
znt2-like_[Hydra_vulgaris]	N	----	----	YELD	----	PVVMLITSG	VGVV	VNIVLG	II	LAKTGHG
znt35C_[Drosophila_melanogaster]	D	----	----	YEVN	----	AKIMLITSG	LAIL	VNVIMG	VQ	LQH-GHS
znt2_[Ciona_intestinalis]	N	----	----	YEVN	----	GKTMLITAS	LAVGF	NILMG	LV	LHEHSHT
znt8_[Danio_rerio]	N	----	----	FTIE	----	GTVMLITSG	CAVLAN	IIMA	LT	LHQSGHG
znt2_[Danio_rerio]	D	----	----	YEIE	----	GRVMLLTSG	CAVV	VNII	---	----
znt3_isoformX1_[Danio_rerio]	D	----	----	YEIE	----	GRVMLLTSG	CAVV	VNII	YI	LHHSTTF
znt2_human	D	----	----	YEID	----	GGTMLITSG	CAVAVN	IIMG	LT	LHQSGHG
znt2_isoform1_[Mus_musculus]	D	----	----	YEIK	----	GDTMLITSG	CAVAVN	LIMG	LA	LHQSGHG
znt2_isoform2_[Mus_musculus]	D	----	----	YEIK	----	GDTMLITSG	CAVAVN	LIMG	LA	LHQSGHG
znt2_isoform1_[Rattus_norvegicus]	D	----	----	YEIK	----	GDTMLITSG	CAVAVN	IIMG	LA	LHQSGHG
znt2_isoform2_[Rattus_norvegicus]	D	----	----	YEIK	----	GDTMLITSG	CAVAVN	IIMG	LA	LHQSGHG
znt9-like_[Hydra_vulgaris]	T	----	----	M-LEY	----	LNVA	YFVAA	LSLII	ESSM	VLAFOQVRKS
znt9_[Drosophila_melanogaster]	E	----	----	P-ITD	----	LFWV	YCILM	GSLV	SEGATL	VVAINELKRS
znt9-like_[Ciona_intestinalis]	A	----	----	S-GL	GL	GNMMS	SFVLL	GAAV	MESASL	ALAVNETRRN
znt9_[Danio_rerio]	Q	----	----	P-IES	----	LLWAY	CILA	GSLV	SEGATL	LVAINELKRS
znt9_human	Q	----	----	P-IES	----	LLWAY	CILA	GSLV	SEGATL	LVAVNELRRN
znt9_[Rattus_norvegicus]	Q	----	----	P-MES	----	LLWAY	CILA	GSLV	SEGATL	LVAINELRRS
isoform1_znt9_[Mus_musculus]	Q	----	----	P-MES	----	LLWAY	CILA	GSLV	SEGATL	LVAINELRRS
isoform2_znt9_[Mus_musculus]	Q	----	----	P-MES	----	LLWAY	CILA	GSLV	SEGATL	LVAINELRRS
znt9like_[E.Coli_partial]	A	----	----	HEVNN	----	PLLL	IAILL	FGMI	IEGSSL	RVAFKEIKEL
znt9like_[Rhodanobacter_glycinis]	E	----	----	P-LKW	----	PWLAL	GVLA	FGIV	AESFSM	HGCLQEVNKA
znt9like_[Dyella_ginsengisoli]	E	----	----	P-LKW	----	PWVAL	GVLV	FGVVA	EGLSM	RGCLQEVNKA
znt9like2_[Actinobacteria_bacterium]	H	----	----	E-VES	----	ATIA	FVILG	IAILLE	SYSL	RTAVKEANH-
znt9like_[Firmicutes_bacterium]	H	----	----	P-VEN	----	PLLS	FIVLG	LALV	FEGSSF	RVAWIEFNR
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	T	----	----	P-LAH	----	EGWAY	LVL	LSGS	FEFYAW	RAALKELRP
znt9like_[Mesorhizobium_sp._L2C054A000]	E	----	----	P-VAN	----	PKINY	IVLG	LSML	FEGSSW	YVALKEFRQ
znt9like_[Geopsychrobacter_electrodiphilus]	A	----	----	P-ITD	----	PYINY	LVLG	LAVL	FEGLSL	YFALSEFSR
znt9like_[Sneathiella_limimaris]	H	----	----	P-LNN	----	VVWNY	SILG	LGIV	FEGWAW	SVAYREFKK
znt9like_[Sneathiella_sp]	E	----	----	P-ITD	----	PTWNY	VVLG	LAI	FEGWAW	TVAWLEFKR
znt9like_[Sneathiella_chungangensis]	E	----	----	I-ITD	----	PTWNY	VVLG	LAIL	FEGWAW	YVAFSEFQR
znt9like_[Leptolyngbya_foveolarum]	E	----	----	I-ASD	----	PLVSY	GLV	AAAV	FEGAAL	FVSIREFKKR
znt9like_[Massilia_sp._LC238]	P	----	----	P-LED	----	PLWNY	VVLG	VAAF	FEGYSW	NVSRKALNAV
znt9like1_[Variovorax_paradoxus]	E	----	----	P-LGD	----	PTWNY	VVLA	AAAV	FEGTSF	LIALRQFRA
znt9like2_[Variovorax_paradoxus]	E	----	----	P-MRD	----	PTWNY	VVLA	AAFV	FEGASF	LIALKQFRA
znt9like_[Nitrosospira_sp._Nsp11]	K	----	----	P-LEE	----	PFWAY	AILG	ISVLL	EGISW	SFALRALLA
znt9like_[Sorangium_cellulosum]	R	----	----	P-IED	----	PTWNY	VVLG	AAAV	FEGTSL	AISIEHFKK
znt9like1_[Actinobacteria_bacterium]	S	----	----	P-LEN	----	PAVNY	IVLA	VAVV	VEGASF	VVAYRQFAR
znt9like_[Phormidismis_priestleyi]	N	----	----	P-IED	----	PTWNY	VVLG	IAMV	FEGFSW	SVALKELLP
znt9like1_[Nosdoc_punctiforme]	S	----	----	P-LED	----	PIWNY	IVLS	IAI	ILEGFSW	TVALKEFLP
znt9like2_[Nosdoc_punctiforme]	S	----	----	P-LED	----	PMWNY	IVLG	VAI	ILEGSSW	TVALREFLP
znt9like_[Nostoc_calcicola]	S	----	----	P-LED	----	PKWNY	IVLG	VAIL	LEGYSW	TVALKEFLP
znt9like_[Nostoc_commune]	S	----	----	P-LED	----	PMWNY	IVLG	VAIL	LEGYSW	TVALKEFLP
znt9like_[Nostoc_piscinale]	S	----	----	P-LED	----	PMWNY	IVLV	VAIF	FEGYSW	TVALKEFLP

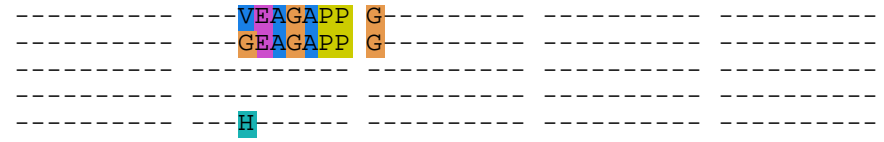
znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

H	-----	---	E	MQQ	-	PLVVL	SVG	V	AGLLV	NVL	GL	CL	FHH	S	GE
H	-----	---	E	MQQ	-	PLVVL	SVG	V	AGLLV	NVL	GL	CL	FHH	S	GE
E	-----	---	P	IHE	-	PELLV	I	VGA	LGLLV	N	VIGL	CL	LYE	H	---
E	-----	---	P	IHE	-	PELLV	I	VGA	LGLLV	N	VIGL	CL	LYE	H	---
E	-----	---	P	IEN	-	PKLVLL	V	GG	LGLVV	N	LVGL	ML	FHQ	H	---

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	G-----HS	HGGHGHSHGG	G-----HGHG	HS	-----
znt7_[Danio_rerio]	G-----HS	HGGDDHGHSH	SLFNLSAAHG	HS	-----
znt7_human	G-----HS	HG-SGHGHSH	SLFNALDQA	HG	-----
znt7_[Mus_musculus]	G-----HS	HG-SGHGHSH	SLFNALDHS	HG	-----
znt7_[Rattus_norvegicus]	G-----HS	HG-SGHGHSH	SLFNALDHS	HG	-----
znt5-like_[Ciona_intestinalis]	-----HN	HG-HSHGHN	-----	-----	-----
znt5_[Danio_rerio]	-----	HG-ASKGSCS	G-----HDHG	HS	-----
znt5_human	-----HA	HG-ASQGSCH	S-----SDHS	HS	-----
znt5_[Mus_musculus]	-----HG	HG-ASQGNCH	S-----DHG	HS	-----
znt5_[Rattus_norvegicus]	-----HG	HG-PSQGHCH	S-----DHG	HS	-----
znt6_[Ciona_intestinalis]	C-----	-----	-----IT	N	-----
znt6_[Danio_rerio]	F-----	-----	-----VS	E	-----
znt6_human	Y-----	-----	-----VS	E	-----
znt6_[Rattus_norvegicus]	Y-----	-----	-----VS	E	-----
znt6_isoform1_[Mus_musculus]	Y-----	-----	-----VS	E	-----
znt6_isoform2_[Mus_musculus]	Y-----	-----	-----VS	E	-----
znt4_[Danio_rerio]	HSHGHGHHS	HGSAGHSSD	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	C-GRR--GKE	KK-----REE	HREDREQ	-----	-----
znt10_human	F-ACCLRGRS	RR-----LOQ	ROQLAEG	-----CVP	-----
znt10_[Mus_musculus]	F-SRCTRGRR	TR-----PSQ	Q--PSQG	-----DPR	-----
znt10_[Rattus_norvegicus]	F-SRCTRGRH	TR-----PSQ	P--PRQG	-----DTG	-----
znt1-likel1_[Hydra_vulgaris]	I-FRKFF	-----	AKKKRTK	-D	SLEN
znt1_[Ciona_intestinalis]	G-HDHGHGHN	HG-HDHSHG	EHE--NG	-N	HHTH
znt1a_[Danio_rerio]	--GGGHGHS	HGGHGHSHGG	AKKHKNG	-K	VRRS
znt1_human	S-QDSGHGHS	HGGHGHGHGL	PKGPRVK	-S	TRPG

znt4_human				
znt4_[Rattus_norvegicus]				
znt4_isoforma_[Mus_musculus]				
znt4_isoformb_[Mus_musculus]				
znt8_human				
znt8_[Mus_musculus]				
znt8_[Rattus_norvegicus]				
znt3_human				
znt3_[Rattus_norvegicus]				
znt3_isoform1_[Mus_musculus]				
znt3_isoform2_[Mus_musculus]				
znt2-like_[Hydra_vulgaris]				
znt35C_[Drosophila_melanogaster]				
znt2_[Ciona_intestinalis]				
znt8_[Danio_rerio]				
znt2_[Danio_rerio]				
znt3_isoformX1_[Danio_rerio]				
znt2_human				
znt2_isoform1_[Mus_musculus]				
znt2_isoform2_[Mus_musculus]				
znt2_isoform1_[Rattus_norvegicus]				
znt2_isoform2_[Rattus_norvegicus]				
znt9-like_[Hydra_vulgaris]				
znt9_[Drosophila_melanogaster]				
znt9-like_[Ciona_intestinalis]				
znt9_[Danio_rerio]				
znt9_human				
znt9_[Rattus_norvegicus]				
isoform1_znt9_[Mus_musculus]				
isoform2_znt9_[Mus_musculus]				
znt9like_[E.Coli_partial]				
znt9like_[Rhodanobacter_glycinis]				
znt9like_[Dyella_ginsengisoli]				
znt9like2_[Actinobacteria_bacterium]				
znt9like_[Firmicutes_bacterium]				
znt9-like3_[Candidatus_Micrarchaeota_archaeon]				
znt9like_[Mesorhizobium_sp._L2C054A000]				
znt9like_[Geopsychrobacter_electrodiphilus]				
znt9like_[Sneathiella_limimaris]				
znt9like_[Sneathiella_sp]				
znt9like_[Sneathiella_chungangensis]				
znt9like_[Leptolyngbya_foveolarum]				
znt9like_[Massilia_sp._LC238]				
znt9like1_[Variovorax_paradoxus]				
znt9like2_[Variovorax_paradoxus]				
znt9like_[Nitrosospira_sp._Nsp11]				
znt9like_[Sorangium_cellulosum]				
znt9like1_[Actinobacteria_bacterium]				
znt9like_[Phormidesmis_priestleyi]				
znt9like1_[Nosdoc_punctiforme]				
znt9like2_[Nosdoc_punctiforme]				
znt9like_[Nostoc_calcicola]				
znt9like_[Nostoc_commune]				
znt9like_[Nostoc_piscinale]				

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]



znt4_human	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	GVAYAPEDAE	LPGGGLPTF	SY	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	AQETGVTFR	-----	-----
znt9_[Drosophila_melanogaster]	-----	AKENNMSFK	-----	-----
znt9-like_[Ciona_intestinalis]	-----	AKKYELSFW	-----	-----
znt9_[Danio_rerio]	-----	ARTQGLSFY	-----	-----
znt9_human	-----	ARAKGMSFY	-----	-----
znt9_[Rattus_norvegicus]	-----	AQANGTSFY	-----	-----
isoform1_znt9_[Mus_musculus]	-----	AQAKGTFY	-----	-----
isoform2_znt9_[Mus_musculus]	-----	AQAKGTFY	-----	-----
znt9like_[E.Coli_partial]	-----	N-TEKLPLF	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	R-GERSLW	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	R-GGQPLW	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	V-RNGRTWW	-----	-----
znt9like_[Firmicutes_bacterium]	-----	S-RRGKGVL	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	S-IRKQVVL	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	Q-KGKQGWL	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	T-KGTRSYF	-----	-----
znt9like_[Sneathiella_limimaris]	-----	V-IGDQSIW	-----	-----
znt9like_[Sneathiella_sp]	-----	G-IGKRGIW	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	G-RGKRFSW	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	DSNADLGLW	-----	-----
znt9like_[Massilia_sp._LC238]	-----	R-KPGTTLW	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	Q-AGGTPFW	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	Q-ANGTPFW	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	E-KGKHTLW	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-KDGQGYV	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	A-RGGMPSW	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	S-VGNQTIW	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	T-KGKQNFW	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	T-KGKQNFW	-----	-----
znt9like_[Nostoc_calcicola]	-----	T-KRKQNFW	-----	-----
znt9like_[Nostoc_commune]	-----	T-KGKQNFW	-----	-----
znt9like_[Nostoc_piscinale]	-----	T-KGNQSFW	-----	-----

znt9like_[Nostoc_cycadae]	-----	T	KGNQTFW	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	K	KGDEDIW	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	S	KNEANFW	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	S	KNEDSFW	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	ESLT	VS-N-LNLMM	MIGVLIINII	VALY	-----
transporter_[Leptolyngbya_foveolarum]	-----	EPVR	ME-A-MALWI	MLAVLGINIF	VAFY	-----
transporter_[Myxosarcina_sp._GI1]	-----	KPVE	VA-P-SELWL	LSIVLIVNIF	VAFY	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	TSVE	VS-P-GELWL	LLVVLGVNIF	VAFY	-----
transporter_[Phormidesmis_priestleyi]	-----	KPIQ	IS-A-GELWL	LLIVLGINIF	VTYY	-----
transporter_[Nostoc_piscinale]	-----	EPVR	IL-P-PELWL	LLIVLGVNIF	VAFY	-----
transporter_[Nosdoc_punctiforme]	-----	EPVK	IS-P-PELWL	LLIVLGVNIF	VAFY	-----
transporter_[Nostoc_caldicola]	-----	EPVK	IS-P-PELWL	LLIVLGVNIF	VAFY	-----
cationtransporter3_[Firmicutes_bacterium]	-----	VLPE	VS-V-ESLLA	LSATLGMNIF	IARY	-----
c.e.p_[Firmicutes_bacterium]	-----	VVPN	IT-L-SSLIV	LLATLCTNIF	VCVY	-----
cationtransporter1_[Firmicutes_bacterium]	-----	ITPE	VT-L-ESILI	LLLTLCVNVF	VSRY	-----
cationtransporter2_[Firmicutes_bacterium]	-----	LWPE	IT-P-ESLIF	LLSTLCINIF	VSMF	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	EIAR	VG-A-MSFVV	MFVTLGINIF	VARY	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	QPID	VT-P-LSFAI	MLGTLAVNVF	ITTW	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	EV-N	HP-GLIAIFA	AALS VVSKEV	LYRY	-----
transporter_[E.Coli]	-----	DDIP	QV-HIVAMWV	ALAALVIKEL	LFYR	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	SQIK	AE-Y-LAIAI	MLISAVANEI	MARV	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	NKLV	LT-Y-FALGI	MIFSAIINEV	MARL	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	PESK	LS-Y-FAFGI	MIFSAIINEF	MARL	-----
znt9-likel_[Candidatus_Micrarchaeota_archaeon]	-----	QPIE	ST-Q-LGLAV	MLAALAI DWF	FSKF	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	GKVD	FS-E-AGILL	MLISIPVITYF	TSRY	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	SPVE	HS-E-WGILL	MAVSI PVAYF	TARY	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----	-----
znt6_[Danio_rerio]	-----	-----	MSQTLCSII	-----	-----	-----
znt6_human	-----	-----	LSRSLCGLI	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	LSRSLCGII	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	LSRSLCGII	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	LSRSLCGLI	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	LSRSLCGLI	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	AADPTAP	GSDSAVTLR	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	AATATAP	GSGTAVTLR	-----	-----	-----
znt1-likel_[Hydra_vulgaris]	-----	AATATDP	GSDSAVTLR	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	VSLM	-----	-----	-----
znt1a_[Danio_rerio]	-----	TLED SRS	AGEETNNLV	-----	-----	-----
znt1_human	-----	APGEQGP	DQEETNTLV	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

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---RAPD--- -QEETNTLV-----  
---RAPDQEP---DQEETNTLV-----  
-----EDEQNDFA-----  
-----EDEQNDFA-----  
-----ESPEKNLL-----
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znt4_human				
znt4_[Rattus_norvegicus]				
znt4_isoforma_[Mus_musculus]				
znt4_isoformb_[Mus_musculus]				
znt8_human				
znt8_[Mus_musculus]				
znt8_[Rattus_norvegicus]				
znt3_human				
znt3_[Rattus_norvegicus]				
znt3_isoform1_[Mus_musculus]				
znt3_isoform2_[Mus_musculus]				
znt2-like_[Hydra_vulgaris]				
znt35C_[Drosophila_melanogaster]				
znt2_[Ciona_intestinalis]				
znt8_[Danio_rerio]				
znt2_[Danio_rerio]				
znt3_isoformX1_[Danio_rerio]				
znt2_human				
znt2_isoform1_[Mus_musculus]				
znt2_isoform2_[Mus_musculus]				
znt2_isoform1_[Rattus_norvegicus]				
znt2_isoform2_[Rattus_norvegicus]				
znt9-like_[Hydra_vulgaris]				
znt9_[Drosophila_melanogaster]				
znt9-like_[Ciona_intestinalis]				
znt9_[Danio_rerio]				
znt9_human				
znt9_[Rattus_norvegicus]				
isoform1_znt9_[Mus_musculus]				
isoform2_znt9_[Mus_musculus]				
znt9like_[E.Coli_partial]				
znt9like_[Rhodanobacter_glycinis]				
znt9like_[Dyella_ginsengisoli]				
znt9like2_[Actinobacteria_bacterium]				
znt9like_[Firmicutes_bacterium]				
znt9-like3_[Candidatus_Micrarchaeota_archaeon]				
znt9like_[Mesorhizobium_sp._L2C054A000]				
znt9like_[Geopsychrobacter_electrodiphilus]				
znt9like_[Sneathiella_limimaris]				
znt9like_[Sneathiella_sp]				
znt9like_[Sneathiella_chungangensis]				
znt9like_[Leptolyngbya_foveolarum]				
znt9like_[Massilia_sp._LC238]				
znt9like1_[Variovorax_paradoxus]				
znt9like2_[Variovorax_paradoxus]				
znt9like_[Nitrosospira_sp._Nsp11]				
znt9like_[Sorangium_cellulosum]				
znt9like1_[Actinobacteria_bacterium]				
znt9like_[Phormidesmis_priestleyi]				
znt9like1_[Nosdoc_punctiforme]				
znt9like2_[Nosdoc_punctiforme]				
znt9like_[Nostoc_calcicola]				
znt9like_[Nostoc_commune]				
znt9like_[Nostoc_piscinale]				

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-----EL-----SINN-----ENV-----
QNTKLVDPTL DLEIAA V LA ETAPGSHH
EAGSNA
SDGSHH
S
S

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znt9like_[Nostoc_cycadae]	-----	-----	-----	-----	-----				
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----				
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----				
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----				
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----	-----				
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----	-----				
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----				
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----	-----				
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----	-----				
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----				
transporter_[Nostoc_piscinale]	-----	-----	-----	-----	-----				
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----				
transporter_[Nostoc_caldicola]	-----	-----	-----	-----	-----				
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----	-----				
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----	-----				
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----	-----				
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----	-----				
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----				
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----				
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----	-----				
transporter_[E.Coli]	-----	-----	-----	-----	-----				
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----				
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----	-----				
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----	-----				
znt9-like1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----				
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----				
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----	-----				
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----	-----				
znt7_[Danio_rerio]	-----	-----	-----	DQHCHD	D				
znt7_human	-----	-----	-----	HFHSHD	G				
znt7_[Mus_musculus]	-----	-----	-----	HLHSHD	G				
znt7_[Rattus_norvegicus]	-----	-----	-----	HLHSHD	G				
znt5-like_[Ciona_intestinalis]	-----	-----	-----	HENCHS	-----				
znt5_[Danio_rerio]	-----	-----	-----	HGHSHS	-----				
znt5_human	-----	-----	-----	HSHGSA	-----				
znt5_[Mus_musculus]	-----	-----	-----	HSHGFT	-----				
znt5_[Rattus_norvegicus]	-----	-----	-----	HSHGFT	-----				
znt6_[Ciona_intestinalis]	-----	-----	-----	-----	-----				
znt6_[Danio_rerio]	-----	-----	-----	-----	-----				
znt6_human	-----	-----	-----	-----	-----				
znt6_[Rattus_norvegicus]	-----	-----	-----	-----	-----				
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----				
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----				
znt4_[Danio_rerio]	-----	-----	-----	-----	-----				
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----				
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----				
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----				
znt10_[Danio_rerio]	-----	-----	-----	-----	-----				
znt10_human	-----	GTSV	ERKREK	GA	TV	-----	FANV	AGD	-----
znt10_[Mus_musculus]	-----	GSSA	GRKQQE	GA	TV	-----	FSNV	AGD	-----
znt10_[Rattus_norvegicus]	-----	GASA	GRKQQE	GA	TV	-----	FSNV	AGD	-----
znt1-likel1_[Hydra_vulgaris]	-----	KKNK	TDEKIK	-----	-----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----	-----	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	ANHN	SPNGVNAERK	AA	-----	-----	D-MC	HSDSLDL	-----
znt1_human	-----	ANTS	NSNGLKLDPA	DP	-----	-----	ENPR	SGDTVEV	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

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-----ANTS NSNGLKADQA EP-----EKLRSDDPVDV---  
-----ANTS NSNGLKADQA EP-----EKLRSDDPVDV---  
-----YEK--QKEKAPV-----  
-----YEK--QKEKAPV-----  
-----NNKV NENFSDIPLI DL-----KNGITADTEVV---
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znt4_human	-----	SGCERN	HGQDSLAVRA	AFVHALGDLV	QSVGVLIAAY
znt4_[Rattus_norvegicus]	-----	S-SGHS	HGQDSLAVRA	AFVHALGDLV	QSVGVLIAAY
znt4_isoforma_[Mus_musculus]	-----	S-SGHN	HGQDSLAVRA	AFVHALGDLV	QSVGVLIAAY
znt4_isoformb_[Mus_musculus]	-----	S-SGHN	HGQDSLAVRA	AFVHALGDLV	QSVGVLIAAY
znt8_human	-----		EVQANASVRA	AFVHALGDLF	QSIISVLISAL
znt8_[Mus_musculus]	-----		DVQANASVRA	AFVHALGDVF	QSIISVLISAL
znt8_[Rattus_norvegicus]	-----		DAQANASVRA	AFVHALGDVF	QSTSVLISAL
znt3_human	-----	EGPEEP	LPLGNTSVRA	AFVHVLGDLL	QSFVGLAASI
znt3_[Rattus_norvegicus]	-----	EGHGHP	LSLGNTSVRA	AFVHVLGDLL	QSLGVLAAAI
znt3_isoform1_[Mus_musculus]	-----	EGHGYP	MSLGNTSVRA	AFVHVLGDLL	QSFVGLAASI
znt3_isoform2_[Mus_musculus]	-----	EGHGYP	MSLGNTSVRA	AFVHVLGDLL	QSFVGLAASI
znt2-like_[Hydra_vulgaris]	-----	LLIQKTKS	KVRKDLNVRA	AFIHALGDLV	QSIGVFFAAL
znt35C_[Drosophila_melanogaster]	-----	HGGPVG	REAVNMNVRA	ALIHVIGDVI	QSVGVFVAAG
znt2_[Ciona_intestinalis]	-----	S---SHD	EESGNVNVRA	AFIHVIGDLL	QSLGVLTAAF
znt8_[Danio_rerio]	-----	DVEEQRPG	KTQANASVRA	AFVHVLGDLL	QSIISVLVSAL
znt2_[Danio_rerio]	-----		GNHGNTSVRA	AFIHVLGDLL	QSFVGMVAAI
znt3_isoformX1_[Danio_rerio]	-----		GNHGNTSVRA	AFIHVLGDLL	QSFVGMVAAI
znt2_human	-----		QQEENPSVRA	AFIHVIGDFM	QSMGVLVAAY
znt2_isoform1_[Mus_musculus]	-----		-QQQNPSVRA	AFIHVIGDLL	QSVGVLVAAAY
znt2_isoform2_[Mus_musculus]	-----		-QQQNPSVRA	AFIHVIGDLL	QSVGVLVAAAY
znt2_isoform1_[Rattus_norvegicus]	-----		QQQQNPSVRA	AFIHVIGDLL	QSVGVLVAAAY
znt2_isoform2_[Rattus_norvegicus]	-----		QQQQNPSVRA	AFIHVIGDLL	QSVGVLVAAAY
znt9-like_[Hydra_vulgaris]	-----		EYISRGDPN	AVAVLLEDGA	AVLGVLIATA
znt9_[Drosophila_melanogaster]	-----		DYVISGKDPC	VNVVLCEDAA	AVTGVMVAAA
znt9-like_[Ciona_intestinalis]	-----		EYVKESRDPS	TNVVLEDASA	AVMGVGIAGS
znt9_[Danio_rerio]	-----		EYVMQSRDPS	TNVVLEDAAA	AVLGVVLAAG
znt9_human	-----		KYVMESRDPS	TNVILLEDTA	AVLGVIIAAT
znt9_[Rattus_norvegicus]	-----		KYVMESRDPS	TNVILLEDTA	AVLGVMI AAT
isoform1_znt9_[Mus_musculus]	-----		KYVMESRDPS	TNVILLEDTA	AVLGVIIAAT
isoform2_znt9_[Mus_musculus]	-----		KYVMESRDPS	TNVILLEDTA	AVLGVIIAAT
znt9like_[E.Coli_partial]	-----		RFLHESRHSE	ILVIFAEDFC	AIIGLMLALG
znt9like_[Rhodanobacter_glycinis]	-----		RWFRETRSSE	LLVIFGEDFA	ALIGLCLATL
znt9like_[Dyella_ginsengisoli]	-----		TWFRETRSSE	LLVIFGEDLA	ALIGLCLAAL
znt9like2_[Actinobacteria_bacterium]	-----		NFIRTAKAPE	LPVVILLEDVG	AETGLVFALF
znt9like_[Firmicutes_bacterium]	-----		RALAEITDDPV	TMTVILLEDTA	AMIGLVLAAL
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----		GAIRESKAPA	IFIVFLEDTS	AMIGLFI AFW
znt9like_[Mesorhizobium_sp._L2C054A000]	-----		QAVQSSKDPS	VYTIILFEDSA	ALLGLFVAFA
znt9like_[Geopsychrobacter_electrodiphilus]	-----		DAIHRGKDPT	IFVVLFEDAA	AMLGLLVAFC
znt9like_[Sneathiella_limimaris]	-----		SAIQRSKDPT	IFTVILLEDTA	ALTGLVVAML
znt9like_[Sneathiella_sp]	-----		QSVRQSKDPT	VFTIILFEDTA	AMLGLIAALI
znt9like_[Sneathiella_chungangensis]	-----		QEVRRHSDPT	IFTIILFEDTA	AMLGLFAALI
znt9like_[Leptolyngbya_foveolarum]	-----		KAIGKSKDPS	SFIVIVEDTA	ALVGLAIAFA
znt9like_[Massilia_sp._LC238]	-----		QAVRASKDAS	VFTVFIEDSA	ALLGLAIAVL
znt9like1_[Variovorax_paradoxus]	-----		QALDRSKDPT	TYTVLAEDSA	ALAGLAVAAL
znt9like2_[Variovorax_paradoxus]	-----		QALDRSKDPT	TYTVLAEDSA	ALVGLLVAAAL
znt9like_[Nitrosospira_sp._Nsp11]	-----		QTLRRSYDPS	VLTVILLEDTA	ALIGLITVAFV
znt9like_[Sorangium_cellulosum]	-----		AAMRSSKDPT	TFTIVLEDASA	ALAGLAI AFL
znt9like1_[Actinobacteria_bacterium]	-----		QAVRAAKDPS	LFTVLFEDGA	AMLGLLVAFA
znt9like_[Phormidismis_priestleyi]	-----		QAVKASKDPT	IFTVLFEDSA	ALLGLLVAFI
znt9like1_[Nosdoc_punctiforme]	-----		QAIKNSKDPT	VFTVLFEDTA	AAILGLVVALI
znt9like2_[Nosdoc_punctiforme]	-----		QAIKNSKDPT	VFTVLFEDTA	AAILGLLVALI
znt9like_[Nostoc_calcicola]	-----		QAIKNSKDPT	VITILFEDTA	AAILGLFVALI
znt9like_[Nostoc_commune]	-----		QAIKNSKDPT	VITILFEDTA	AAILGLIVALI
znt9like_[Nostoc_piscinale]	-----		QAIKTSKDPT	VFTVLFEDSA	AAILGLLVALL

znt9like_[Nostoc_cycadae]				QAIKNSKDPT	VFTILFEDSA	AALGLIVALI		
znt9like_[Myxosarcina_sp._GI1]				TAVRASKDPT	IFTILFEDSA	ALVGLIVAFI		
znt9like_[Chondrocystis_sp._NIES-4102]				KAIRTSKDPI	VFTILFEDTA	ALIGLFFAFI		
znt9like_[Pleurocapsa_sp._PCC_7319]				EAIRASKDPT	IFTILFEDTA	ALVGLIVAFI		
znt33D_[Drosophila_melanogaster]								
transporter_[Pleurocapsa_sp._PCC_7319]			EAKRGG	DLD-SRLLOA	DAKHTLSDVW	ITVVLLIGML		
transporter_[Leptolyngbya_foveolarum]			ERRVGN	RLG-SNILVA	DAQHTMSDIW	ITIAVMGGGLI		
transporter_[Myxosarcina_sp._GI1]			ERNVGG	KID-SPILIA	DAKHTTSDIW	VTVVVIAGLI		
transporter_[Chondrocystis_sp._NIES-4102]			ERHIGR	KVN-SPILIA	DAKHTMSDIW	VTIIVLAGLI		
transporter_[Phormidesmis_priestleyi]			ERAEGQ	RVG-SPILIA	DAQHTMSDVW	VTISVLAGLV		
transporter_[Nostoc_piscinale]			ERRVGG	RVG-SPILIA	DAMHTMSDIW	VTISVIGGLI		
transporter_[Nosdoc_punctiforme]			ERAVGK	RVG-SSILIA	DATHTMSDIW	VTISVIGGLI		
transporter_[Nostoc_calicicola]			ERGVGK	RVG-SPILIA	DATHTMSDIW	VTISVIGGLI		
cationtransporter3_[Firmicutes_bacterium]			ERRIGK	LLH-SEILVA	DAVHTQSDIY	ISIGVLVTLT		
c.e.p_[Firmicutes_bacterium]			EYNKGG	ALG-SQILVS	DSLHTKSDIY	VSIGVLGALL		
cationtransporter1_[Firmicutes_bacterium]			EHNKGE	ALN-SQILIS	DSLHTKSDIY	ISLGVLTLV		
cationtransporter2_[Firmicutes_bacterium]			EHKGGK	ELN-SQILVS	DSMHTSDIY	ISVGLVTLI		
cationtransporter1_[Actinobacteria_bacterium]			ERGVGK	RLG-SEILVA	DASHTGSDIL	VSIGVIGLV		
cationtransporter2_[Actinobacteria_bacterium]			ERREGK	KLK-SEILIA	DASHTGSDIL	VSLGVIASLA		
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]			TIKVGD	RWK-SQTIIA	NAWHHRSDSF	SSIAVLLGVG		
transporter_[E.Coli]			MLAVAT	RVK-STMLVA	NAWHARSDAA	SSLVVAIGII		
znt9-like2_[Candidatus_Micrarchaeota_archaeon]			KIYYGK	KEN-SISLLS	DGVHSRVDVY	ISIAVMIGLI		
znt9-like_[Candidatus_Pacearchaeota_archaeon]			KIYYGK	KEG-SISLLS	DGIHSRVDVW	TSIAVLAGLI		
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]			KIRYGG	KEN-SISLVS	DGIHSRIDVY	MSVAVLFGLY		
znt9-likel_[Candidatus_Micrarchaeota_archaeon]			LHDVSK	KEG-SVALEA	DAYHFTSDLW	STGAVIAGLV		
znt9-like4_[Candidatus_Micrarchaeota_archaeon]			LGDVAK	KEG-SSALEA	DSAHFTTDVV	SSAAVLLGLI		
znt9-like_[Candidatus_Woeseearchaeota_archaeon]			LSSTAR	KEGGSHALEA	DSAHFTTDVVL	GSAVAVLVGLI		
znt7_[Drosophila_melanogaster]	H	S		HGDM	SGSNSQIMRG	VFLHILADTL	GSVGVIIISAV	
znt7_[Danio_rerio]	H	T		LTPG	KGSSKQILQG	VFLHIVADTL	GSVGVIIISAI	
znt7_human	P	S		LKET	TGPSRQILQG	VFLHILADTL	GSIGVIASAI	
znt7_[Mus_musculus]	P	S		FKAT	AGPSRQILQG	VFLHILADTL	GSIGVIASAI	
znt7_[Rattus_norvegicus]	P	S		FKET	AGPSRQILQG	VFLHILADTL	GSIGVIASAI	
znt5-like_[Ciona_intestinalis]					HSHSNANIKG	VYLHVLADLL	GSIGVIISSL	
znt5_[Danio_rerio]					SGGMNANMRG	VFLHVLADTL	GSVGVIIISTI	
znt5_human					GGGMNANMRG	VFLHVLADTL	GSIGVIVSTV	
znt5_[Mus_musculus]					GGGMNANMRG	VFLHVLADTL	GSIGVIVSTV	
znt5_[Rattus_norvegicus]					GGGMNANMRG	VFLHVLADTL	GSIGVIVSTV	
znt6_[Ciona_intestinalis]					PALSKILLPR	INPFLLTSFI	GASLIFLTNL	
znt6_[Danio_rerio]					PALSSFLLPR	MNPFVLINLA	GAFALGITYM	
znt6_human					PGLSSIFLPR	MNPFVLIDLA	GAFALCITYM	
znt6_[Rattus_norvegicus]					PGLSSIFLPR	MNPFVLIDLA	GALALCITYM	
znt6_isoform1_[Mus_musculus]					PGLSSIFLPR	MNPFVLIDLA	GAFALCITYM	
znt6_isoform2_[Mus_musculus]					PGLSSIFLPR	MNPFVLIDLA	GAFALCITYM	
znt4_[Danio_rerio]				QGSSGQGO	RGHGSLAVRA	AFIHALGDLV	QSVGVLIAAY	
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]					-HEENLNIQS	AFPHAAGDAL	SSVGVILAAV	
transporter_[Geopsychrobacter_electrodiphilus]					GSKNNLNIRS	AYLHLLSDAV	SSIAVILGAL	
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]					YKKKNLNMKA	AYVHMFYDTI	SSVFVIIISGM	
znt10_[Danio_rerio]			ELE	QV	ETGLQEEKTE	KDGAPLNIRG	VLLHVLNDAL	GSVVVVVASA
znt10_human			SFN	TQ	NEPEDMMKKE	KKSEALNIRG	VLLHVMGDAL	GSVVVVITAI
znt10_[Mus_musculus]			SLN	TE	NEPEETTKKE	KKSEALNIRG	VLLHVMGDAL	GSVVVVITAI
znt10_[Rattus_norvegicus]			SLN	TQ	NEPEETTKKE	KKSEALNIRG	VLLHVMGDAL	GSVIVVVTAI
znt1-likel_[Hydra_vulgaris]			NES	VQ	GKEPTWAAEY	QSPHTLNIRG	VYLHILEHFL	SSLIVIIISAI
znt1_[Ciona_intestinalis]					--HHAETTNS	SAEEHMNMKA	VFLHVLGDAL	GSVIVMISAT
znt1a_[Danio_rerio]			QINGS	A	-PYDELENGH	DAASQLNMRG	VFLHVLGDAL	GSVIVVINAI
znt1_human			QVNGN	LV	REPDMHELEE	DRAGQLNMRG	VFLHVLGDAL	GSVIVVNNAL

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

-QVNGN-	-LI	QESDNLEAED	NRAGQLNMRG	VFLHVLGDAL	GSVIVVNNAL
-QVNGN-	-LI	QESDSLESED	NRAGQLNMRG	VFLHVLGDAL	GSVIVVNNAL
-----		--KKSSHGHS	HDPGQMNMRG	AFLHVLSDAL	GSIIIVVISAV
-----		--KKSSHGHS	HDPGQMNMRG	AFLHVLSDAL	GSIIIVVISAV
-QMF-	-----	-QTVSAEKKL	TGASQLNMRG	VYLHVLGDAL	GSVIVMVSAL

znt4_human	IIRFKP	---	---	---	---	---
znt4_[Rattus_norvegicus]	IIRFKP	---	---	---	---	---
znt4_isoforma_[Mus_musculus]	IIRFKP	---	---	---	---	---
znt4_isoformb_[Mus_musculus]	IIRFKP	---	---	---	---	---
znt8_human	IIYFKP	---	---	---	---	---
znt8_[Mus_musculus]	IIYFKP	---	---	---	---	---
znt8_[Rattus_norvegicus]	IIYFKP	---	---	---	---	---
znt3_human	LIYFKP	---	---	---	---	---
znt3_[Rattus_norvegicus]	LIYFKP	---	---	---	---	---
znt3_isoform1_[Mus_musculus]	LIYFKP	---	---	---	---	---
znt3_isoform2_[Mus_musculus]	LIYFKP	---	---	---	---	---
znt2-like_[Hydra_vulgaris]	IIYFKP	---	---	---	---	---
znt35C_[Drosophila_melanogaster]	VIYFWP	---	---	---	---	---
znt2_[Ciona_intestinalis]	VIYFKP	---	---	---	---	---
znt8_[Danio_rerio]	IIFFKP	---	---	---	---	---
znt2_[Danio_rerio]	IIYFRP	---	---	---	---	---
znt3_isoformX1_[Danio_rerio]	IIYFRP	---	---	---	---	---
znt2_human	IIYFKP	---	---	---	---	---
znt2_isoform1_[Mus_musculus]	IIYFKP	---	---	---	---	---
znt2_isoform2_[Mus_musculus]	IIYFKP	---	---	---	---	---
znt2_isoform1_[Rattus_norvegicus]	IIYFKP	---	---	---	---	---
znt2_isoform2_[Rattus_norvegicus]	IIYFKP	---	---	---	---	---
znt9-like_[Hydra_vulgaris]	SIGLT	---	---	---	---	---
znt9_[Drosophila_melanogaster]	CMGLS	---	---	---	---	---
znt9-like_[Ciona_intestinalis]	AIALT	---	---	---	---	---
znt9_[Danio_rerio]	CMGLT	---	---	---	---	---
znt9_human	CMGLT	---	---	---	---	---
znt9_[Rattus_norvegicus]	CMGLT	---	---	---	---	---
isoform1_znt9_[Mus_musculus]	CMGLT	---	---	---	---	---
isoform2_znt9_[Mus_musculus]	CMGLT	---	---	---	---	---
znt9like_[E.Coli_partial]	GTVLT	---	---	---	---	---
znt9like_[Rhodanobacter_glycinis]	AVGAT	---	---	---	---	---
znt9like_[Dyella_ginsengisoli]	AVGAT	---	---	---	---	---
znt9like2_[Actinobacteria_bacterium]	GLTMS	---	---	---	---	---
znt9like_[Firmicutes_bacterium]	LLALA	---	---	---	---	---
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	GILLS	---	---	---	---	---
znt9like_[Mesorhizobium_sp._L2C054A000]	GILAA	---	---	---	---	---
znt9like_[Geopsychrobacter_electrodiphilus]	GVVFS	---	---	---	---	---
znt9like_[Sneathiella_limimaris]	GIYLS	---	---	---	---	---
znt9like_[Sneathiella_sp]	GIFLA	---	---	---	---	---
znt9like_[Sneathiella_chungangensis]	GIFFA	---	---	---	---	---
znt9like_[Leptolyngbya_foveolarum]	GIWLS	---	---	---	---	---
znt9like_[Massilia_sp._LC238]	GIALG	---	---	---	---	---
znt9like1_[Variovorax_paradoxus]	GIYLG	---	---	---	---	---
znt9like2_[Variovorax_paradoxus]	GIYLG	---	---	---	---	---
znt9like_[Nitrosospira_sp._Nsp11]	GVYLA	---	---	---	---	---
znt9like_[Sorangium_cellulosum]	GVWLG	---	---	---	---	---
znt9like1_[Actinobacteria_bacterium]	GVVFG	---	---	---	---	---
znt9like_[Phormidesmis_priestleyi]	GVFLG	---	---	---	---	---
znt9like1_[Nosdoc_punctiforme]	GIFLG	---	---	---	---	---
znt9like2_[Nosdoc_punctiforme]	GIFLG	---	---	---	---	---
znt9like_[Nostoc_calcicola]	GIFLG	---	---	---	---	---
znt9like_[Nostoc_commune]	GIFLG	---	---	---	---	---
znt9like_[Nostoc_piscinale]	GIFLG	---	---	---	---	---

znt9like_[Nostoc_cycadae]	GIFLG	----	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	GVLSG	----	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	GVLSG	----	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	GVFSG	----	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	----	----	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	GVRL	----	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	GVVV	----	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	GVWQASA	----	-----	-----	L	-----
transporter_[Chondrocystis_sp._NIES-4102]	GVWQAEI	----	-----	-----	L	-----
transporter_[Phormidesmis_priestleyi]	GVWAF	----	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	GVWL	----	-----	-----	-----	-----
transporter_[Nostoc_punctiforme]	GVWL	----	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	GVWL	----	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	GIKL	----	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	GIKL	----	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	GVKM	----	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	CIKL	----	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	FVKL	----	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	LVRM	----	-----	-----	-----	-----
c.e.p_[Candidatus_Woesearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	AAYF	----	-----	-----	-----	-----
transporter_[E.Coli]	GNLS	----	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	LSSY	----	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	LTKF	----	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	LSKY	----	-----	-----	-----	-----
znt9-like1_[Candidatus_Micrarchaeota_archaeon]	FASI	----	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	AVKL	----	-----	-----	-----	-----
znt9-like_[Candidatus_Woesearchaeota_archaeon]	LVEL	----	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	LMHMF	----	-----	-----	-----	-----
znt7_[Danio_rerio]	LMQKY	----	-----	-----	-----	-----
znt7_human	MMQNF	----	-----	-----	-----	-----
znt7_[Mus_musculus]	MMQNF	----	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	MMQNF	----	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	MVSKW	----	-----	-----	-----	-----
znt5_[Danio_rerio]	LIRQF	----	-----	-----	-----	-----
znt5_human	LIEQF	----	-----	-----	-----	-----
znt5_[Mus_musculus]	LIEQF	----	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	LIEQF	----	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	LIQMN	----	-----	-----	-----	-----
znt6_[Danio_rerio]	LIEIN	----	-----	-----	-----	-----
znt6_human	LIEIN	----	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	LIEIN	----	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	LIEIN	----	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	LIEIN	----	-----	-----	-----	-----
znt4_[Danio_rerio]	IVRFKHIPDH	QRHRHHPAGG	CTASHGRVGH	OSRAAEAAAC	GVCGGAEAVG	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	LIFFT	----	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	AIKLF	----	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	LIIFT	----	-----	-----	-----	-----
znt10_[Danio_rerio]	LFYVWPLEP	----	-----	-----	-----	D
znt10_human	IFYVLPLKS	----	-----	-----	-----	E
znt10_[Mus_musculus]	IFYVQPLRR	----	-----	-----	-----	E
znt10_[Rattus_norvegicus]	IFYVRPLRH	----	-----	-----	-----	E
znt1-likel_[Hydra_vulgaris]	FVIYF	----	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	LIYLVP	----	-----	YEE	KIMVAT	GNATAANVVT
znt1a_[Danio_rerio]	IFVFWKPC	PGTI	CENP	CSGQHCAD	HALNIS	SPLTNGTLIK
znt1_human	VFYFSWKGCS	EGDF	CVNP	CFPDCKA	FVEIIN	S--THASVYE

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

VFYFNWKGCT	EDDF--CTNP	CFDPCKS--	---	SVEIIN	S--	TQAPMRD
VFYFSWKGCT	EDDF--CVNP	CFDPCKS--	---	SVELMN	S--	TQAPMHE
VVWKT-----	-----	-----	-----	-----	-----	-----
VVWKT-----	-----	-----	-----	-----	-----	-----
IIIV-----	-----	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-HLFNNV	-YF	DGIASIIIIGI	ILAVVAVLLA	RESKGLLVGE	SAN	-----
znt9like_[Myxosarcina_sp._GI1]	-HLLNNV	-YL	DGVASIAIGI	ILAGVAILLA	YESKGLLIGE	GAD	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-HLLGNI	-YL	DGVASIVIGV	ILCGVALLLA	AESKGLLIGE	GAD	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-HLLGNV	-YL	DGVASIIIIGI	ILCGVALLLA	AESKGLLIGE	GAN	-----
znt33D_[Drosophila_melanogaster]							-----
transporter_[Pleurocapsa_sp._PCC_7319]	----	GLL	-WL	DVVLAFMVG	LIFWSAWEVI	SENIPFLSDR	--V
transporter_[Leptolyngbya_foveolarum]	----	GQD	-WL	DVALAFPVAL	LVI R SGWTVL	SANLPWL V DE	--M
transporter_[Myxosarcina_sp._GI1]	----	NIPQLR	-SL	DVILAFPVAF	MVFYSGWEVI	RDNLPWL V DE	--M
transporter_[Chondrocystis_sp._NIES-4102]	----	NFPQLL	-WL	DVILAFPVAL	LVFQSGWEVI	NENLPWL V DQ	--M
transporter_[Phormidesmis_priestleyi]	----	NWQ	-WL	DLAL S FVAL	MVFSSGWSVL	KQNL P SLVDE	--M
transporter_[Nostoc_piscinale]	----	GYQ	-WL	DIVLAFPVGL	LVFWSGWSVL	QANLPWL V DQ	--M
transporter_[Nosdoc_punctiforme]	----	GYQ	-WM	DLVLAFPVAL	LVFWSGWSVL	KENLPWL V DQ	--M
transporter_[Nostoc_calvicola]	----	GYQ	-WM	DIVLAFPVAL	LVFWSGWSVL	KENLPWL V DQ	--M
cationtransporter3_[Firmicutes_bacterium]	----	GLPAVI		DPLISIAVAG	FIFRAALEIF	LPTCEILADR	--A
c.e.p_[Firmicutes_bacterium]	----	GMPPVI		DPIASLIVSG	FIIYAAYGIF	KDTSGVLVDR	--A
cationtransporter1_[Firmicutes_bacterium]	----	GLPPII		DPLVSLVVAG	FILFAAYQIL	CDNGDILLDR	--A
cationtransporter2_[Firmicutes_bacterium]	----	GLPPVI		DPVVSLLVAG	FIIYAACEII	RDNGGVLLDQ	--A
cationtransporter1_[Actinobacteria_bacterium]	----	GFP	-IA	DPLIGLMVAG	FIVFAAWSVF	KSANETLADR	--A
cationtransporter2_[Actinobacteria_bacterium]	----	GFE	-KA	DPVVALLVAG	AIVYTAWGVF	KQASATLSDS	--A
c.e.p_[Candidatus_Woeseearchaeota_archaeon CG08_land_8_20_14_0_20_43_7]	----	IPSLG	-IL	DAYASILVSF	LILKIGMNTM	ISGFKETVDT	APS
transporter_[E.Coli]	----	GFK	-LL	DPVAAMVVG	IVTRMGYSFM	SDSLHDLMDR	SVD
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	----	WV	-YF	DSLAAALLIGL	FIIKESVSLG	KEATDSL L LDV	SAG
znt9-like_[Candidatus_Pacearchaeota_archaeon]	----	WV	-YA	DSL L AFLIGL	YILKESFSLG	KEATDSL L LDV	SAG
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	----	WI	-YV	DSLIALLIGI	YIIKESISLG	KQATDSL L LDV	SAG
znt9-likel_[Candidatus_Micrarchaeota_archaeon]	----	GMP	-WA	DSVAALLVSL	LMIKLSFSLG	MKALNVL L DK	GAS
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	----	GFP	-QG	DPLAAAVVGL	VMLYISVELL	LHSFFVFMDF	SPD
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	----	GLA	-RG	DALAA F VVGL	LMAYISARLT	LEAF R VFLDH	SPS
znt7_[Drosophila_melanogaster]	----	GWM	-IA	DPICSI F IAL	LIALSVLSLI	KESIMILMQR	QPA
znt7_[Danio_rerio]	----	DLM	-IA	DPICSM L IAL	LIGVSVVPLL	RESIGILMQR	TPP
znt7_human	----	GLM	-IA	DPICSI L IAI	LIVSVIPLL	RESVGI L MQR	TPP
znt7_[Mus_musculus]	----	GLM	-IA	DPICSI L IAI	LIVSVIPLL	RESVGI L MQR	TPP
znt7_[Rattus_norvegicus]	----	GLM	-IA	DPICSI L IAI	LIVSVIPLL	RESIGILMQR	TPP
znt5-like_[Ciona_intestinalis]	----	QLL	-IA	DPICTLAVAS	LILCTVWPLL	RDSARVLALC	APP
znt5_[Danio_rerio]	----	GWL	-IA	DPICSLFIST	LIFLSVIPLL	KDACEV L LLR	MPP
znt5_human	----	GWF	-IA	DPLCSLFIAI	LIFLSV V PLI	KDACQV L LLR	LPP
znt5_[Mus_musculus]	----	GWF	-IA	DPLCSLFIAV	LIFLSVIPLI	KDACQV L LLR	LPP
znt5_[Rattus_norvegicus]	----	GWF	-IA	DPLCSLFIAV	LIFLSVIPLI	KDACQV L LLR	LPP
znt6_[Ciona_intestinalis]	----	LYY	-FA	DTVSAILIST	CTLCTMWPVA	SCSARVLLNT	TPP
znt6_[Danio_rerio]	----	NYN	-AM	DTASAVAIAL	MTFGTMYPMS	VYSGKVLLQT	TPS
znt6_human	----	NYF	-AV	DTASAI A IAL	MTFGTMYPMS	VYSGKVLLQT	TPP
znt6_[Rattus_norvegicus]	----	NYF	-AV	DTASAI A IAL	MTFGTMYPMS	VYSGKVLLQT	TPP
znt6_isoform1_[Mus_musculus]	----	NYF	-AV	DTASAI A IAL	MTFGTMYPMS	VYSGKVLLQT	TPP
znt6_isoform2_[Mus_musculus]	----	NYF	-AV	DTASAI A IAL	MTFGTMYPMS	VYSGKVLLQT	TPP
znt4_[Danio_rerio]		ADGR					-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	----	GQY	-LI	DIAVSLLIAG	IILFSAYTVL	RNSLSILLES	APH
transporter_[Geopsychrobacter_electrodiphilus]	----	GLT	-WI	DPLLSIVIAI	YVGWESW K II	QTAVDVLMLK	VPG
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	----	NVV	-IF	DLIASIVIAL	MIFWSGFDII	RKSVHIFMQG	VPE
znt10_[Danio_rerio]		QPCNWQC	-YV	DPSLTLVMVI	IILSSAAPLL	KETTTILLQM	SPE
znt10_human		DPCNWQC	-YI	DPSLTLVMVI	IILSSAFPLI	KETAAILLQM	VPK
znt10_[Mus_musculus]		DPCNWQC	-YI	DPSLTVVMVI	IILSSAFPLI	KETAVILLQM	VPK
znt10_[Rattus_norvegicus]		DPCNWQC	-YI	DPSLTVVMVI	IILSSAFPLI	KETAAILLQM	VPK
znt1-likel_[Hydra_vulgaris]		KHSFTK	-YI	DPIFTVMLVF	LILHSTIPLF	RETLILFMQS	VPA
znt1_[Ciona_intestinalis]		NVNQWIM	-YI	DPAMSVFLVL	IMITTTYPLF	KQSSVLLLQT	VPK
znt1a_[Danio_rerio]		AGPCWVL	-YL	DPTLCIIMVC	ILLYTTYPLL	KESALILLQT	VPK
znt1_human		AGPCWVL	-YL	DPTLCVVMVC	ILLYTTYPLL	KESALILLQT	VPK

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

AGPCWVL	YL	DPTLCIIMVC	ILLYTTYPLL	KESALILLQT	VPK	-----
AGPCWVL	YL	DPTLCIIMVC	ILLYTTYPLL	KESALILLQT	VPK	-----
-EWKYRY	YM	DPALSIVLVV	LILHSVWPLL	RESALILLQT	VPT	-----
-EWKYRY	YM	DPALSIVLVV	LILHSVWPLL	RESALILLQT	VPT	-----
-NGKWTN	YV	DPGMSIIMVM	IILKTSIPLL	KESSLILMQT	VPT	-----

znt4_human	-----	-----	-----	-----	HL	NVDYIKEAL
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	HL	NVDYIKESL
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	HL	NVDYIKESL
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	HL	NVDYIKESL
znt8_human	-----	-----	-----	-----	SL	NYSGVKELI
znt8_[Mus_musculus]	-----	-----	-----	-----	GL	SYNSVKEII
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	GL	SYNSVKELL
znt3_human	-----	-----	-----	-----	NV	GFEPVRDTL
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	SV	EFEPVRDTL
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	SV	EFEPVRDTL
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	SV	EFEPVRDTL
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	GL	DFKEVFEDL
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	YM	HYAEVLQIF
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	GV	EYSVLKEKL
znt8_[Danio_rerio]	-----	-----	-----	-----	GV	NYNEVRQLL
znt2_[Danio_rerio]	-----	-----	-----	-----	GI	QFNSVKEVL
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	GI	QFNSVKEVL
znt2_human	-----	-----	-----	-----	GV	DFTAVRDLL
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	GV	DFTTVKNLL
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	GV	DFTTVKNLL
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	GV	DFTTVKNLL
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	GV	DFTTVKNLL
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	P	DRLRQIINIL
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	S	ERLEKINSAL
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	P	SRLEELQEML
znt9_[Danio_rerio]	-----	-----	-----	-----	A	EHMQKLTEFL
znt9_human	-----	-----	-----	-----	P	EQVQRLTELL
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	P	EQVQRLTELL
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	P	EQVQRLTELL
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	P	EQVQRLTELL
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	P	ARRAELHAFL
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	P	RRRAEMLTFL
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	D	EDLVAVKVAL
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	P	EETAETIRRV
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	K	EDLQKVRKAI
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	P	EVQAKVLAIA
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	V	EVVAGIRKLV
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	K	ETROSLEEIV
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	P	VVREGVRAIV
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	R	AVTEGITTIM
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	P	ATRASIRNIV
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	R	DOLAALYALF
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	P	ETARAIRELA
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	P	ETARAIRAIA
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	P	EVVASVTTLA
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	R	ELLAAIRALA
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	P	EMLAEIKRIA
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	A	ATVKQLRSLV
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	P	QTIANIRSLS
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	P	QTIANIRSLS
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	P	QTIANIRYLS
znt9like_[Nostoc_commune]	-----	-----	-----	-----	P	QTIANIRSLS
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	P	QTIANIRSLS

znt9like_[Nostoc_cycadae]	-----	-----	-----	P	QTVANIRSLS
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	A	KTVADIRSLT
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	P	EIVANIRKIT
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	A	ETVASIRKIT
znt33D_[Drosophila_melanogaster]	-----	-----	-----		
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	AIPAKE	---IMDIV---
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	AIAPEA	---IHAAV---
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	AIAPEK	---IHRIV---
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	AIAPEA	---IHDLV---
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	AIAPEA	---IYEVA---
transporter_[Nostoc_piscinale]	-----	-----	-----	AIAPEA	---THEIA---
transporter_[Nosdoc_punctiforme]	-----	-----	-----	AIAPEA	---IHAIA---
transporter_[Nostoc_calicicola]	-----	-----	-----	AIAPEA	---IHAIA---
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	ALDHKV	---IADLV---
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	AVDTNK	---IRDIA---
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	VVDPEE	---IGRIV---
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	AVDADE	---IRNIV---
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	RIAPSA	---IKDVA---
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	RIEPAV	---ICDVV---
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	RKVVMH	---LHKIV---
transporter_[E.Coli]	-----	-----	-----	LETENK	---IKTTL---
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	KEVEEK	---IKEIA---
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	EEIEKK	---IKKIA---
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	EEIESK	---IKNIA---
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	AEELER	---IVTLI---
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	KETMAK	---IKGVL---
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	REKTGA	---IERVLHQA
znt7_[Drosophila_melanogaster]	-----	-----	-----	DLI	RSLPQCYQKV
znt7_[Danio_rerio]	-----	-----	-----	SLD	HALPECYQRV
znt7_human	-----	-----	-----	LLE	NSLPQCYQRV
znt7_[Mus_musculus]	-----	-----	-----	SLE	NLPQCYQRV
znt7_[Rattus_norvegicus]	-----	-----	-----	SLE	NVLPQCYQRV
znt5-like_[Ciona_intestinalis]	-----	-----	-----	HLQ	KTLLQALSKV
znt5_[Danio_rerio]	-----	-----	-----	QHE	KELNFALEKI
znt5_human	-----	-----	-----	EYE	KELHIALEKI
znt5_[Mus_musculus]	-----	-----	-----	DHE	KELHIALEKI
znt5_[Rattus_norvegicus]	-----	-----	-----	DYE	KELHIALEKV
znt6_[Ciona_intestinalis]	-----	-----	-----	YLL	GOLDKLLSEA
znt6_[Danio_rerio]	-----	-----	-----	HVI	GOLDKLLREV
znt6_human	-----	-----	-----	HVI	GOLDKLIREV
znt6_[Rattus_norvegicus]	-----	-----	-----	HVI	GOLDKLIREV
znt6_isoform1_[Mus_musculus]	-----	-----	-----	HVI	GOLDKLIREV
znt6_isoform2_[Mus_musculus]	-----	-----	-----	HVI	GOLDKLIREV
znt4_[Danio_rerio]	-----	-----	-----		
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	GA	DIEKIASAV
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	NI	TLEELESKL
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	DI	DFEKVYNAI
znt10_[Danio_rerio]	-----	-----	-----	DL	PVSAILES
znt10_human	-----	-----	-----	GV	NMEELMSKL
znt10_[Mus_musculus]	-----	-----	-----	GV	NMEELMSQL
znt10_[Rattus_norvegicus]	-----	-----	-----	GV	NMEELMSQL
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	NL	KVKDLEERL
znt1_[Ciona_intestinalis]	-----	-----	-----	HI	KLQNMKENI
znt1a_[Danio_rerio]	-----	-----	-----	QI	DMHQLNARL
znt1_human	-----	-----	-----	QI	DIRNLIKEL

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

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QI	-	DIKHLVKEL
QI	-	DIKHLVKEL
HI	-	QVDAIQKRL
HI	-	QVDAIQKRL
HI	-	KIQEIQERI

znt4_human	-MK	IEDV	YSVEDLNIWS	LTSG	-----	-----	KSTAI	VHIQL	-----
znt4_[Rattus_norvegicus]	-MK	IEDV	YSVEDLNIWS	LTSG	-----	-----	KATAI	VHMQL	-----
znt4_isoforma_[Mus_musculus]	-MK	IEDV	YSVEDLNIWS	LTSG	-----	-----	KSTAI	VHMQL	-----
znt4_isoformb_[Mus_musculus]	-MK	IEDV	YSVEDLNIWS	LTSG	-----	-----	KSTAI	VHMQL	-----
znt8_human	-LA	VDGV	LSVHSLHIWS	LTMN	-----	-----	QVILS	AHVAT	-----
znt8_[Mus_musculus]	-LA	VDGV	ISVHSLHIWS	LTVN	-----	-----	QVILS	VHVAT	-----
znt8_[Rattus_norvegicus]	-LT	VDGV	ISVHNLHIWS	LTVN	-----	-----	QVILS	VHVAT	-----
znt3_human	-LS	VPGV	RATHELHLWA	LTLT	-----	-----	YHVAS	AHLAI	-----
znt3_[Rattus_norvegicus]	-LS	VPGV	RATHDLHLWA	LTLT	-----	-----	YHVAS	AHLAI	-----
znt3_isoform1_[Mus_musculus]	-LS	VPGV	RATHDLHLWA	LTLT	-----	-----	YHVAS	AHLAI	-----
znt3_isoform2_[Mus_musculus]	-LS	VPGV	RATHDLHLWA	LTLT	-----	-----	YHVAS	AHLAI	-----
znt2-like_[Hydra_vulgaris]	-QN	IQAV	KMVHNLHLWS	LTMD	-----	-----	TPALS	VHLAI	-----
znt35C_[Drosophila_melanogaster]	-QG	IEGV	ERVHNLRIWA	LSIN	-----	-----	KVALS	AHLAI	-----
znt2_[Ciona_intestinalis]	-LE	IEGV	TAVHDLRIWS	LTLN	-----	-----	QTVMS	AHLAI	-----
znt8_[Danio_rerio]	-LG	VKGV	KAVHNLHIWA	LTMN	-----	-----	QAVLS	AHVAT	-----
znt2_[Danio_rerio]	-LS	LKAV	KAMHSLHLWA	LTLS	-----	-----	QSLLS	VHIAI	-----
znt3_isoformX1_[Danio_rerio]	-LS	LKAV	KAMHSLHLWA	LTLS	-----	-----	QSLLS	VHIAI	-----
znt2_human	-LS	VEGV	EALHSLHIWA	LTVA	-----	-----	QPVLS	VHIAI	-----
znt2_isoform1_[Mus_musculus]	-LS	VDGV	EALHSLHIWA	LTVA	-----	-----	QPVLS	VHIAI	-----
znt2_isoform2_[Mus_musculus]	-LS	VDGV	EALHSLHIWA	LTVA	-----	-----	QPVLS	VHIAI	-----
znt2_isoform1_[Rattus_norvegicus]	-LS	VDGV	EALHSLHIWA	LTVA	-----	-----	QPVLS	VHIAI	-----
znt2_isoform2_[Rattus_norvegicus]	-LS	VDGV	EALHSLHIWA	LTVA	-----	-----	QPVLS	VHIAI	-----
znt9-like_[Hydra_vulgaris]	-EN	DIMV	RSIHDVKATE	MGAD	-----	-----	TVRFK	AELNF	-----
znt9_[Drosophila_melanogaster]	-EA	DVMI	RAIYDVKGID	IGNA	-----	-----	RVRVK	AELDF	-----
znt9-like_[Ciona_intestinalis]	-ED	DAVI	RGVYDVKATQ	LSSE	-----	-----	EKFKK	AEIDF	-----
znt9_[Danio_rerio]	-EN	DPAV	RAIHDVKATD	MGLS	-----	-----	KVRFK	AEVDF	-----
znt9_human	-EN	DPSV	RAIHDVKATD	LGLG	-----	-----	KVRFK	AEVDF	-----
znt9_[Rattus_norvegicus]	-ES	DPSV	RAIHDVKATD	LGLG	-----	-----	KVRFK	AEVDF	-----
isoform1_znt9_[Mus_musculus]	-ES	DPSV	RAIHDVKATD	LGLG	-----	-----	KVRFK	AEVDF	-----
isoform2_znt9_[Mus_musculus]	-ES	DPSV	RAIHDVKATD	LGLG	-----	-----	KVRFK	AEVDF	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-EG	RPEV	AEVLNLTITVQ	MGPD	-----	-----	VMVA	VKARM	-----
znt9like_[Dyella_ginsengisoli]	-KS	RSEV	AEVLNLTITLQ	MGPD	-----	-----	VMVA	VKARM	-----
znt9like2_[Actinobacteria_bacterium]	-ST	TPRV	LGI IHLRTMH	LGPD	-----	-----	QLLVA	AKLEF	-----
znt9like_[Firmicutes_bacterium]	-LA	IPQV	VGIANLATMH	LGAE	-----	-----	VLLC	ADLTF	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-AS	VPEV	QEVMDILTMH	LAPD	-----	-----	DVLVN	LNINF	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-QQ	DPAV	QRANGVLT VH	LGPR	-----	-----	QIVAG	LSIEF	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-AA	YPDV	EHVNQVLT MH	MGPO	-----	-----	HILVN	LSVDF	-----
znt9like_[Sneathiella_limimaris]	-RS	GDGI	LAVNEILTMH	LGPT	-----	-----	DILVT	MSVDF	-----
znt9like_[Sneathiella_sp]	-AR	DPRI	ENLNELLTMH	LGPK	-----	-----	DILVN	LSLDF	-----
znt9like_[Sneathiella_chungangensis]	-CD	DSRI	LRVNELLTMH	LGPK	-----	-----	DILVN	VSLDF	-----
znt9like_[Leptolyngbya_foveolarum]	-KS	DVAV	SAEPPITLH	LGPE	-----	-----	DILLA	LNIEF	-----
znt9like_[Massilia_sp._LC238]	-RR	EPAL	DSVSSLRTMQ	MGPE	-----	-----	EVLLA	ANSQF	-----
znt9like1_[Variovorax_paradoxus]	-MA	QPSV	EEVGRVLSMY	IGPD	-----	-----	QVLAI	VDVNF	-----
znt9like2_[Variovorax_paradoxus]	-ME	QPSV	EDVGHVLSMY	IGAD	-----	-----	EALVI	VDVNF	-----
znt9like_[Nitrosospira_sp._Nsp11]	-LR	DPAV	IAVNQVLT LV	FGPE	-----	-----	EVLLN	IKAQF	-----
znt9like_[Sorangium_cellulosum]	-GA	DPGV	SAVGRPLTMH	FGPH	-----	-----	EVLVV	LRIEF	-----
znt9like1_[Actinobacteria_bacterium]	-AQ	DRSV	RETARALTMY	VGPR	-----	-----	DVLLN	LEIQF	-----
znt9like_[Phormidismis_priestleyi]	-LE	DDAV	DDVLKLLTLY	FGPH	-----	-----	EVLLN	LEIQF	-----
znt9like1_[Nosdoc_punctiforme]	-KT	EPGV	QEVIRVLT MQ	LAPQ	-----	-----	EVLLN	LEIQF	-----
znt9like2_[Nosdoc_punctiforme]	-KT	EPRV	QKVIRILT MQ	LAPQ	-----	-----	EVLLN	LEIQF	-----
znt9like_[Nostoc_calcicola]	-KT	EPGV	KEVIRVLT MQ	LAPK	-----	-----	EVLLN	LEIQF	-----
znt9like_[Nostoc_commune]	-KT	EPGV	KEVIRVLT MQ	LAPK	-----	-----	EVLLN	LEIQF	-----
znt9like_[Nostoc_piscinale]	-KT	EPKV	QEVLRILT MQ	LAPQ	-----	-----	EVLLN	LEIQF	-----

znt9like_[Nostoc_cycadae]
znt9like_[Myxosarcina_sp._GI1]
znt9like_[Chondrocystis_sp._NIES-4102]
znt9like_[Pleurocapsa_sp._PCC_7319]
znt33D_[Drosophila_melanogaster]
transporter_[Pleurocapsa_sp._PCC_7319]
transporter_[Leptolyngbya_foveolarum]
transporter_[Myxosarcina_sp._GI1]
transporter_[Chondrocystis_sp._NIES-4102]
transporter_[Phormidesmis_priestleyi]
transporter_[Nostoc_piscinale]
transporter_[Nostoc_punctiforme]
transporter_[Nostoc_caldicola]
cationtransporter3_[Firmicutes_bacterium]
c.e.p_[Firmicutes_bacterium]
cationtransporter1_[Firmicutes_bacterium]
cationtransporter2_[Firmicutes_bacterium]
cationtransporter1_[Actinobacteria_bacterium]
cationtransporter2_[Actinobacteria_bacterium]
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]
transporter_[E.Coli]
znt9-like2_[Candidatus_Micrarchaeota_archaeon]
znt9-like_[Candidatus_Pacearchaeota_archaeon]
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]
znt9-like4_[Candidatus_Micrarchaeota_archaeon]
znt9-like_[Candidatus_Woeseearchaeota_archaeon]
znt7_[Drosophila_melanogaster]
znt7_[Danio_rerio]
znt7_human
znt7_[Mus_musculus]
znt7_[Rattus_norvegicus]
znt5-like_[Ciona_intestinalis]
znt5_[Danio_rerio]
znt5_human
znt5_[Mus_musculus]
znt5_[Rattus_norvegicus]
znt6_[Ciona_intestinalis]
znt6_[Danio_rerio]
znt6_human
znt6_[Rattus_norvegicus]
znt6_isoform1_[Mus_musculus]
znt6_isoform2_[Mus_musculus]
znt4_[Danio_rerio]
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]
transporter_[Geopsychrobacter_electrodiphilus]
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]
znt10_[Danio_rerio]
znt10_human
znt10_[Mus_musculus]
znt10_[Rattus_norvegicus]
znt1-likel1_[Hydra_vulgaris]
znt1_[Ciona_intestinalis]
znt1a_[Danio_rerio]
znt1_human

-KI	EPGV	QEVIRVLTMQ	LAPQ	----	----	EVLLN	LEIQF	----
-KA	DPAV	RNVLKVLTLLH	FGPE	----	----	EILLN	LEIQF	----
-NA	DPAV	EKVIKVLTLH	FGPO	----	----	EILLN	LEIEF	----
-SE	DPAV	AEVVKVLTLLH	FGPO	----	----	EVLLN	LEIEF	----
----	----	----	----	----	----	----	----	----
-MD	VYGV	LNCHSITS	RGVV	----	----	GOEIFIE	MHLVV	----
-MQ	IPGV	LNCHNIAS	RGLL	----	----	GROVFID	MHLIV	----
-MT	TPGV	VNCHDIAS	RGVV	----	----	GROVFIE	MHLIV	----
-MQ	VPGV	VNCHDIAS	RGML	----	----	GROVFIE	MHLIV	----
-MQ	VPGV	LNCHDIAS	RGVV	----	----	GRQSFIE	MHLIV	----
-TS	VPGV	LNCHDIAS	RGIL	----	----	GROVFIE	MHLIV	----
-TS	APGV	INCHDIAS	RGVL	----	----	GROVFIE	MHLIV	----
-TS	VPGV	INCHAIAS	RGVL	----	----	GROVFIE	MHLIV	----
-YQ	FQEV	KNVHEIRS	RGRD	----	----	D-EVFFID	LHIET	----
-LS	FEQV	KDTHSIRS	RGCE	----	----	P-DLYID	MHIMT	----
-MS	FEKV	KDVHNIRS	RGSK	----	----	H-DMHID	MHIVT	----
-LS	FDKV	KDAHKIRS	RGSN	----	----	N-DLHVD	MHIMT	----
-LG	VEGV	LGVHDIRT	RGPV	----	----	S-EVYVD	LHIQV	----
-LG	CAGV	LGCHHIRT	RGSS	----	----	A-EVYVD	LHVQV	----
-AD	FPGV	TDHNNVKI	RPLG	----	----	S-SLCLT	LHICV	----
-LS	TPGV	EGIHDLKT	RKMG	----	----	D-LVVVD	VHLEI	----
----	KKQS	ITISDLKT	LKKG	----	----	S-AITAN	LKISL	----
----	KENK	LKISELKT	LKKG	----	----	S-AITAN	LEIKI	----
----	KEQN	IKISELKT	QKKA	----	----	F-AITAD	IEIVI	----
-SK	TKEI	KGYHKLRT	RHMG	----	----	S-RLVVD	LHIQV	----
-VA	EKRI	TRFHKLRA	RIAG	----	----	S-RILVD	AHIHL	----
-IR	SGRI	TRYHKLRA	RMAG	----	----	S-KILLE	FHIHV	----
-TG	LAGV	YAVQEPHFWT	LCSD	----	----	VYVGA	LKLEV	----
-QQ	LQGV	YNLQEPHFWT	LCTD	----	----	VYIGT	LKLLV	----
-QQ	LQGV	YSLQEQHFWT	LCSD	----	----	VYVGT	LKLLV	----
-QQ	LQGV	YNLQEQHFWT	LCSD	----	----	VYVGT	LKLVV	----
-QQ	LQGV	YNLQEQHFWT	LCSD	----	----	VYVGT	LKLVV	----
-NA	VEGI	TTHRTCVRVQ	HTEK	----	----	EAAAV	VSVHV	----
-QK	IEGV	LSYRDPHFWR	HSAS	----	----	VIAGT	IHLQL	----
-QK	IEGL	ISYRDPHFWR	HSAS	----	----	IVAGT	IHIQV	----
-QK	IEGL	ISYRDPHFWR	HSAS	----	----	IVAGT	IHIQV	----
-QK	LEGL	ISYRDPHFWR	HSAS	----	----	IVAGT	IHIQV	----
-QT	LDGV	LEIRNERFYT	VSLSVNNKKR	YHNG	LTMVG	S	INVRV	----
-ST	LDGV	LEVRNEHFWT	IGFG	----	----	SLAGS	VHVRI	----
-ST	LDGV	LEVRNEHFWT	LGFG	----	----	SLAGS	VHVRI	----
-ST	LDGV	LEVRNEHFWT	LGFG	----	----	SLAGS	VHVRI	----
-ST	LDGV	LEVRNEHFWT	LGFG	----	----	SLAGS	VHVRI	----
-ST	LDGV	LEVRNEHFWT	LGFG	----	----	SLAGS	VHVRI	----
----	----	----	----	----	----	----	----	----
-RS	IKGV	RGVHDIHVWR	TCSE	----	----	LCFAM	MHVET	----
-AE	LPGV	CDAHHIHLWQ	VDDR	----	----	DIHFE	AHIAV	----
-NN	AEGV	RSVHNLHIWS	IDSN	----	----	EIFLS	CHICM	----
-CR	LPGV	SSVHEAHVWE	LAKG	----	----	RNVAS	LHVKL	----
-SA	VPGI	SSVHEVHIWE	LVSG	----	----	KIIAT	LHIKY	----
-ST	VPGI	SSVHEVHIWE	LISG	----	----	KIIAT	LHIKH	----
-SM	VPGV	SSVHEVHIWE	LISG	----	----	KVIAT	LHIKH	----
MNK	ICSV	LSIHEFHIWA	LGDG	----	----	QVVAS	AHILF	----
-QT	IEGV	QEIHFHIIWQ	LTGE	----	----	KLvat	VHVQC	----
-RD	LEGV	LAVHELHIWQ	LAGS	----	----	RIIAT	AHIKC	----
-RN	VEGV	EEVHELHVWQ	LAGS	----	----	RIIAT	AHIKC	----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

-RD	--VDGV	EEVHELHVWQ	LAGS	-----	-----	RIIAT	AHIKC	-----
-RD	--VEGV	EEVHELHVWQ	LAGS	-----	-----	RIIAT	AHIKC	-----
LEK	--VDGV	LAVHEFHVWQ	LAGD	-----	-----	RIIAS	AHIRC	-----
LEK	--VDGV	LAVHEFHVWQ	LAGD	-----	-----	RIIAS	AHIRC	-----
VEQ	--VPQV	LSIHEFHIWQ	LAGN	-----	-----	KIIAS	AHVQC	-----

znt4_human
znt4_[Rattus_norvegicus]
znt4_isoforma_[Mus_musculus]
znt4_isoformb_[Mus_musculus]
znt8_human
znt8_[Mus_musculus]
znt8_[Rattus_norvegicus]
znt3_human
znt3_[Rattus_norvegicus]
znt3_isoform1_[Mus_musculus]
znt3_isoform2_[Mus_musculus]
znt2-like_[Hydra_vulgaris]
znt35C_[Drosophila_melanogaster]
znt2_[Ciona_intestinalis]
znt8_[Danio_rerio]
znt2_[Danio_rerio]
znt3_isoformX1_[Danio_rerio]
znt2_human
znt2_isoform1_[Mus_musculus]
znt2_isoform2_[Mus_musculus]
znt2_isoform1_[Rattus_norvegicus]
znt2_isoform2_[Rattus_norvegicus]
znt9-like_[Hydra_vulgaris]
znt9_[Drosophila_melanogaster]
znt9-like_[Ciona_intestinalis]
znt9_[Danio_rerio]
znt9_human
znt9_[Rattus_norvegicus]
isoform1_znt9_[Mus_musculus]
isoform2_znt9_[Mus_musculus]
znt9like_[E.Coli_partial]
znt9like_[Rhodanobacter_glycinis]
znt9like_[Dyella_ginsengisoli]
znt9like2_[Actinobacteria_bacterium]
znt9like_[Firmicutes_bacterium]
znt9-like3_[Candidatus_Micrarchaeota_archaeon]
znt9like_[Mesorhizobium_sp._L2C054A000]
znt9like_[Geopsychrobacter_electrodiphilus]
znt9like_[Sneathiella_limimaris]
znt9like_[Sneathiella_sp]
znt9like_[Sneathiella_chungangensis]
znt9like_[Leptolyngbya_foveolarum]
znt9like_[Massilia_sp._LC238]
znt9like1_[Variovorax_paradoxus]
znt9like2_[Variovorax_paradoxus]
znt9like_[Nitrosospira_sp._Nsp11]
znt9like_[Sorangium_cellulosum]
znt9like1_[Actinobacteria_bacterium]
znt9like_[Phormidesmis_priestleyi]
znt9like1_[Nosdoc_punctiforme]
znt9like2_[Nosdoc_punctiforme]
znt9like_[Nostoc_calcicola]
znt9like_[Nostoc_commune]
znt9like_[Nostoc_piscinale]

1601

IPGSSSKW	---	---	---	---	E
IPGSSSKW	---	---	---	---	E
IPGSSSKW	---	---	---	---	E
IPGSSSKW	---	---	---	---	E
AASR--DS	---	---	---	---	Q
AASQ--DS	---	---	---	---	Q
GQ	---	---	---	---	---
DSTA--DP	---	---	---	---	E
DSTA--DP	---	---	---	---	E
DSTA--DP	---	---	---	---	E
DSTA--DP	---	---	---	---	E
DDSR--ST	---	---	---	---	H
AENA--NP	---	---	---	---	K
DKGT--DP	---	---	---	---	N
DETV--DP	---	---	---	---	Q
---	---	---	---	---	Q
---	---	---	---	---	Q
EENA--DP	---	---	---	---	Q
AQNT--DA	---	---	---	---	Q
AQNA--DA	---	---	---	---	Q
AQNA--DA	---	---	---	---	Q
AQNV--DA	---	---	---	---	Q
AQNV--DA	---	---	---	---	Q
DGREITRV	---	---	HLNQLDM	---	NLVLSVM
DGRELTRS	---	---	YLDKQDL	---	AKLLTTVR
DGREITRA	---	---	YLASVDM	---	ENMLQEIH
DGRVVTRS	---	---	YLEKQDI	---	EQILNEIQ
DGRVVTRS	---	---	YLEKQDF	---	DOMLQEIQ
DGRVVTRS	---	---	YLEKQDF	---	QMMQEIIE
DGRVVTRS	---	---	YLEKQDF	---	QMMQEIQ
DGRVVTRS	---	---	YLEKQDF	---	QMMQEIQ
---	---	---	---	---	---
QPAASD	---	---	---	---	---
EPASSD	---	---	---	---	---
DHSLTV	---	---	---	---	---
AHG TSA	---	---	---	---	---
ADGLTT	---	---	---	---	---
EDHLTA	---	---	---	---	---
SDQTTA	---	---	---	---	---
QDGLTT	---	---	---	---	---
ADPLTA	---	---	---	---	---
ADDLTS	---	---	---	---	---
ENLSA	---	---	---	---	---
RRGMRI	---	---	---	---	---
KDDTDT	---	---	---	---	---
KDDIST	---	---	---	---	---
VPSLSV	---	---	---	---	---
DAALTA	---	---	---	---	---
EKGITE	---	---	---	---	---
DRTL SA	---	---	---	---	---
SKNLTG	---	---	---	---	---
SNNLTG	---	---	---	---	---
SHNLTG	---	---	---	---	---
SHNLTG	---	---	---	---	---
SRNLTG	---	---	---	---	---

znt9like_[Nostoc_cycadae]	AKNLTG	----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	TKKLST	----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	IEDLET	----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	KEDLET	----	-----	-----	-----
znt33D_[Drosophila_melanogaster]					
transporter_[Pleurocapsa_sp._PCC_7319]	APR_EI	----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	EPK_DV	----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	DTS_DV	----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	DTD_DL	----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	EPR_DV	----	-----	-----	-----
transporter_[Nostoc_piscinale]	DAP_DV	----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	DAP_DV	----	-----	-----	-----
transporter_[Nostoc_caldicola]	DAP_DV	----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	NPAMSV	----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	EPMSV	----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	EHDLSV	----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	EPDLNV	----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	DPTITV	----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	DESRTV	----	-----	-----	-----
c.e.p_[Candidatus_Woesearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	KDKLTV	----	-----	-----	-----
transporter_[E.Coli]	NGNLSV	----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	PSKLTII	----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	PSKLSV	----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	SNKLN	----	-----	-----	-----
znt9-likel_[Candidatus_Micrarchaeota_archaeon]	EGKMTI	----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	PHGMPV	----	-----	-----	-----
znt9-like_[Candidatus_Woesearchaeota_archaeon]	PRKMSV	----	-----	-----	-----
znt7_[Drosophila_melanogaster]	SKNVD	----	-----	-----	-----
znt7_[Danio_rerio]	APDAD	----	-----	-----	-----
znt7_human	APDAD	----	-----	-----	-----
znt7_[Mus_musculus]	APDAD	----	-----	-----	-----
znt7_[Rattus_norvegicus]	APDAD	----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	EPHVI	----	-----	-----	-----
znt5_[Danio_rerio]	MSDVV	----	-----	-----	-----
znt5_human	TSDVL	----	-----	-----	-----
znt5_[Mus_musculus]	TSEVL	----	-----	-----	-----
znt5_[Rattus_norvegicus]	TSDVL	----	-----	-----	-----
znt6_[Ciona_intestinalis]	RRDAEQMVL	AHVTHRL	----	-----	-----
znt6_[Danio_rerio]	RRDAEQMVL	AHVWNRL	----	-----	-----
znt6_human	RRDANEQMVL	AHVTNRL	----	-----	-----
znt6_[Rattus_norvegicus]	RRDANEQMVL	AHVTNRL	----	-----	-----
znt6_isoform1_[Mus_musculus]	RRDANEQMVL	AHVSNRL	----	-----	-----
znt6_isoform2_[Mus_musculus]	RRDANEQMVL	AHVSNRL	----	-----	-----
znt4_[Danio_rerio]					
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	NNISLLE	----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	DDALLSA	----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	ERERKSN	----	-----	-----	-----
znt10_[Danio_rerio]	QAPAG	----	-----	-----	-----
znt10_human	PKDRG	----	-----	-----	-----
znt10_[Mus_musculus]	QKGTE	----	-----	-----	-----
znt10_[Rattus_norvegicus]	QEGTE	----	-----	-----	-----
znt1-likel_[Hydra_vulgaris]	ETPEE	----	-----	-----	-----
znt1_[Ciona_intestinalis]	SDAET	----	-----	-----	-----
znt1a_[Danio_rerio]	HDPTS	----	-----	-----	-----
znt1_human	EDPTS	----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

EDPAS	-----	-----	-----	-----	-----
EDPAS	-----	-----	-----	-----	-----
RNLSE	-----	-----	-----	-----	-----
RNLSE	-----	-----	-----	-----	-----
NTLDD	-----	-----	-----	-----	-----

znt4_human	-----	-----	---	EVQSKA	NHLLL	NTFG	MYRCTIQLOS
znt4_[Rattus_norvegicus]	-----	-----	---	EVQSKA	KHLLL	NTFG	MYKCTVQLQS
znt4_isoforma_[Mus_musculus]	-----	-----	---	EVQSKA	KHLLL	NTFG	MYKCTIQLOS
znt4_isoformb_[Mus_musculus]	-----	-----	---	EVQSKA	KHLLL	NTFG	MYKCTIQLOS
znt8_human	-----	-----	---	VVRREI	AKALS	KSFT	MHSLTIQMES
znt8_[Mus_musculus]	-----	-----	---	SVRTGI	AQALS	SFD	LHSLTIQIES
znt8_[Rattus_norvegicus]	-----	-----	---	-----	-----	-----	-----
znt3_human	-----	-----	---	AVLAEA	SSRLY	SRFG	FSSCTLQVEQ
znt3_[Rattus_norvegicus]	-----	-----	---	AILAEA	SSRLY	SRFG	FSSCTLQVEK
znt3_isoform1_[Mus_musculus]	-----	-----	---	AVLAEA	SSRLY	SRFG	FSSCTLQVEQ
znt3_isoform2_[Mus_musculus]	-----	-----	---	AVLAEA	SSRLY	SRFG	FSSCTLQVEQ
znt2-like_[Hydra_vulgaris]	-----	-----	---	SVLREA	QTLVS	RKYD	IHHSTIQVEK
znt35C_[Drosophila_melanogaster]	-----	-----	---	RILDAA	TSAVH	LRYN	FFETTIQIED
znt2_[Ciona_intestinalis]	-----	-----	---	LVLKRA	TRRLK	SLYD	FHSLTIQVEY
znt8_[Danio_rerio]	-----	-----	---	EVLREM	TQVCF	TKYS	FHSVTIQLEP
znt2_[Danio_rerio]	-----	-----	---	SVLKEA	TELLQ	TKFG	FYSTTIQVEP
znt3_isoformX1_[Danio_rerio]	-----	-----	---	SVLKEA	TELLQ	TKFG	FYSTTIQVEP
znt2_human	-----	-----	---	AVLKTA	SSRLQ	GKFH	FHTVTIQIED
znt2_isoform1_[Mus_musculus]	-----	-----	---	AVLKVA	RDRLO	GKFN	FHTMTIQIEK
znt2_isoform2_[Mus_musculus]	-----	-----	---	AVLKVA	RDRLO	GKFN	FHTMTIQIEK
znt2_isoform1_[Rattus_norvegicus]	-----	-----	---	AVLKVA	RDRLO	GKFN	FHTMTIQIES
znt2_isoform2_[Rattus_norvegicus]	-----	-----	---	AVLKVA	RDRLO	GKFN	FHTMTIQIES
znt9-like_[Hydra_vulgaris]	KIKTPEELEQ	FLLEHGEOII	DVLGAQVDRL	ERNIKKNHPE	VRHVDLEIL	-----	-----
znt9_[Drosophila_melanogaster]	GFQKVEDLES	FLLDQGENIV	DLMGGEIDRI	EMNLRTQFPE	IRHVDLEIL	-----	-----
znt9-like_[Ciona_intestinalis]	AVQTLLEELEI	LISRYGEHVI	DTLGVHVDRI	ESELKKNPD	LRHIDLEVL	-----	-----
znt9_[Danio_rerio]	QVKTPEELEN	FMLKHGENII	DTLGAEVDRL	EKELKQRNPE	VRHVDLEIL	-----	-----
znt9_human	EVKTPEELET	FMLKHGENII	DTLGAEVDRL	EKELKQRNPE	VRHVDLEIL	-----	-----
znt9_[Rattus_norvegicus]	EVKTPEOLEA	FMLKHGENII	DTLGAEVDRL	EKELKQRNPE	VRHVDLEIL	-----	-----
isoform1_znt9_[Mus_musculus]	EVKTPEOLEA	FMLKHGENII	DTLGAEVDRL	EKELKQRNPE	VRHVDLEIL	-----	-----
isoform2_znt9_[Mus_musculus]	EVKTPEOLEA	FMLKHGENII	DTLGAEVDRL	EKELKQRNPE	VRHVDLEIL	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	RTLIDAINTV	ERAMKAIEFGD	VRWSFFEPDV	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	RGLIDAINTV	EAAMKAIEFGE	IRWSFFEPDV	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	AQLAQAIIDDA	EQQLRAAVPI	ARTIYIEPDI	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	GEIIQAVDRV	EKALREALPR	VTRIYLEADG	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	DQVEEAIKVV	ERAVQALPS	VKRIFVEAES	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	PEIEACVERI	EALLKKEPME	IARLFVKPQT	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	LELEKTIGVI	DLEIKRTWPN	VKQVFIEAEA	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	ERAEOTISDL	EKEIKSKHPF	VKRLFIEVQS	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	AEVEQTIISDL	ERRIKTEFPD	IRRVFIEAQS	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	TEVEAAISAL	EIRVKETYPD	VRVVFIEAQS	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	DEIELAVRRI	EKTIRANHTD	VKRIFIEAAS	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	DEVEQAIARI	EAAVASHPV	IRQIYFEASA	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	GEAAEAIAAI	ERQVRARFPM	IKRLFIEASE	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	GQAADAVAAI	ESQVRARFPT	IKRIFIEATD	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	NELAEIVSRL	ELAIQRYHPS	IKRIFIEVAP	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	SGVAEAIERI	ETRIRSERPD	VKHIYVEARS	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	HEVHEAVHRV	EDSIRQRFPE	VTRIFIEVES	-----
znt9like_[Phormidismis_priestleyi]	-----	-----	-----	EAVTQAIERL	ESTIRSHYPD	IRNIFVEAKS	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	EEIALTVERL	EIKIRQKHPE	IKQIFIEAKS	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	EEIALTVD	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	EEIALTVESL	EANIRQKHPE	IKQIFIEAKS	-----
znt9like_[Nostoc_commune]	-----	-----	-----	EEIALTVESL	EANIRQKHPE	IKQIFIEAKS	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	EEIASTVDSL	ESKIRKKHPE	IKQIFIEAKS	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

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----- YM----- QVAKTI KDVFH--NHG IHATTIQPEF  
----- YM----- QVAKTI KDVFH--NHG IHATTIQPEF  
----- YM----- KIAEKV KEFFH--NEG IHSTTIQPEF  
----- YM----- KIAEKV KEFFH--NEG IHSTTIQPEF  
----- YM----- TIANQL KEFFH--NEG IHSTTIQPEF
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znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

AS	VGS	KS	-----	-----	-----	-----
AS	VGS	KS	-----	-----	-----	-----
SE	IEG	CNM	SDGTS	-----	-----	-----
SE	IEG	CNM	SDGTS	-----	-----	-----
LH	GPN	IN	-----	-----	-----	-----

znt4_human	-----	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]				
znt9like_[Myxosarcina_sp._GI1]		NSLNKT		
znt9like_[Chondrocystis_sp._NIES-4102]				
znt9like_[Pleurocapsa_sp._PCC_7319]				
znt33D_[Drosophila_melanogaster]				
transporter_[Pleurocapsa_sp._PCC_7319]				
transporter_[Leptolyngbya_foveolarum]				
transporter_[Myxosarcina_sp._GI1]				
transporter_[Chondrocystis_sp._NIES-4102]				
transporter_[Phormidesmis_priestleyi]				
transporter_[Nostoc_piscinale]				
transporter_[Nostoc_punctiforme]				
transporter_[Nostoc_caldicola]				
cationtransporter3_[Firmicutes_bacterium]				
c.e.p_[Firmicutes_bacterium]				
cationtransporter1_[Firmicutes_bacterium]				
cationtransporter2_[Firmicutes_bacterium]				
cationtransporter1_[Actinobacteria_bacterium]				
cationtransporter2_[Actinobacteria_bacterium]				
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]				
transporter_[E.Coli]				
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	GPE		G	MCICP--KC
znt9-like_[Candidatus_Pacearchaeota_archaeon]	GPE		G	YCVCP--KC
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	GPE		G	YCVCP--KC
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]				
znt9-like4_[Candidatus_Micrarchaeota_archaeon]				
znt9-like_[Candidatus_Woeseearchaeota_archaeon]				
znt7_[Drosophila_melanogaster]				
znt7_[Danio_rerio]				
znt7_human				
znt7_[Mus_musculus]				
znt7_[Rattus_norvegicus]				
znt5-like_[Ciona_intestinalis]				
znt5_[Danio_rerio]	GIS			
znt5_human	QME			
znt5_[Mus_musculus]	QME			
znt5_[Rattus_norvegicus]	QME			
znt6_[Ciona_intestinalis]	QME			
znt6_[Danio_rerio]	GSK	PS S A SSS		I
znt6_human	GSE	PT PATSTPAKPS SPP		P
znt6_[Rattus_norvegicus]	TDD	LN PVTSTPAKPS SPP		P
znt6_isoform1_[Mus_musculus]	NDE	RT PVTSTPAKPS SPP		P
znt6_isoform2_[Mus_musculus]	VDE	RT PVTSTPAKPS SPP		P
znt4_[Danio_rerio]	VDE	RT PVTSTPAKPS SPP		P
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]				
transporter_[Geopsychrobacter_electrodiphilus]				
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]				
znt10_[Danio_rerio]				DADSSC
znt10_human				DLLLLC
znt10_[Mus_musculus]				DFLLTC
znt10_[Rattus_norvegicus]				DFLPTC
znt1-likel1_[Hydra_vulgaris]				ILKQC
znt1_[Ciona_intestinalis]				C
znt1a_[Danio_rerio]				RASLC
znt1_human				SVVPC

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	G Y E Q P H E R	G V P C P E V K C P	K	C
znt9-like_[Candidatus_Pacearchaeota_archaeon]	G Y K Q K H E K	G I P C S K I K C P	K	C
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	K H R Q K H K K	G I P C S T I K C P	L	C
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	L N Q S S D S E G E F	T K L I	-----
znt5_[Danio_rerio]	-----	S M K Y Y K D G T C	I M	-----
znt5_human	-----	S M K Y C K D G T Y	I M	-----
znt5_[Mus_musculus]	-----	S L K Y C K D G T Y	I M	-----
znt5_[Rattus_norvegicus]	-----	S M K Y C K D G T Y	I M	-----
znt6_[Ciona_intestinalis]	I Y G F N	K P A A A V A	P M P H N P	S K Y T T T I A E K K S A D D F S F A
znt6_[Danio_rerio]	E F S F H	T P G R H V Q	P V V F Q T A H P	H R P L Y G
znt6_human	E F S F N	T P G K N V N	P V I L L N T Q T	R P Y G F G L N H G H T P Y S S M L N
znt6_[Rattus_norvegicus]	E F A F N	T P G K N V S	P V I L L N T Q T	R P Y G L G L N R G H T P Y S S M F S
znt6_isoform1_[Mus_musculus]	E F S F N	T P G K N V S	P V I L L N T Q T	R P Y S L G L N R G H T P Y S S V F S
znt6_isoform2_[Mus_musculus]	E F S F N	T P G K N V S	P V I L L N T Q T	R P Y S L G L N R G H T P Y S S V F S
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	S A P C L	S S S C Q K L S C C	P A G P V C V C A P	P R D S S T E K H T P Q A C T H S
znt10_human	N S P C I	T K G C A K Q L C C	P P G A L P L A H V	N G C A E H N G G P S L D T Y G S
znt10_[Mus_musculus]	S A P C I	S Q S C A K K L C C	P P G T L P L A L V	N G C A E H N G R S S R E S Y R S
znt10_[Rattus_norvegicus]	S A P C I	S Q S C A K K L C C	P P G T L P L A L V	N G C A E H N G G P N L E S Y R S
znt1-likel1_[Hydra_vulgaris]	F N K C N	K E N C L E S M C C	D T M N N A N P N C	S N V L S K T I E T D S Q
znt1_[Ciona_intestinalis]	V M V C N	T N S C K T K R C C	S V N D V P T L A K	N P S K S P C T S P
znt1a_[Danio_rerio]	E L S C	R T Q C A P K L C C	G A V D T A K P L E	G S L E S K K S C E S K T
znt1_human	E L A C	R T Q C A L K Q C C	G T L P Q A P S G K	D A E K T

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

ELAC	-----	RTQCALKQCC	GTRPQVHSGK	DAE	-----	-----	KA
ELAC	-----	RTQCALKQCC	GTRPQVHSGK	EAE	-----	-----	KA
ALDCP	--TT	EEGCVKATCC	QNNNKLNQLP	SPTN	-----	SPYLCRQRN	
ALDCP	--TT	EEGCVKATCC	QNNNKLNQLP	SPTN	-----	SPYLCRQRN	
ILEC	-----	KEDCAERTCC	GEKDGNES-P	NQ	-----	LVKANQ	

znt4_human	-----	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nosdoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	GTAMIR	K	KE
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	KIPLER	K	
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	GKNLKR	E	
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	PTKSKPQIKS	L--APPSAGS	-----	--NIARMYKA
znt6_[Danio_rerio]	-----G	L--QGPGVRL	GLG-----P	RGPTLQAYRT
znt6_human	-----QG	L--GVPGIGA	TQG-----L	-----RTG
znt6_[Rattus_norvegicus]	-----QG	L--AFPGVGA	GQG-----L	-----RPT
znt6_isoform1_[Mus_musculus]	-----QG	L--AFPGVGA	GQG-----L	-----RPT
znt6_isoform2_[Mus_musculus]	-----QG	L--AFPGVGA	GQG-----L	-----RPT
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	SKL	-----	-----	-----
znt10_human	DGLS	-----R	-----R	DAREVAIEVS
znt10_[Mus_musculus]	-----	-----	-----I	EAEVAID--
znt10_[Rattus_norvegicus]	-----	-----	-----I	EAEVVIDVA
znt1-likel1_[Hydra_vulgaris]	-----GNDIS	VRIAS-SSSK	T-D-----L	HLPNENN
znt1_[Ciona_intestinalis]	TVTEVDETN	LALIPRSPST	TS-----	NVFT
znt1a_[Danio_rerio]	PTLPSASVTS	LEIISSEVED	T-S-----	RPESVVII
znt1_human	PAVSISC	LELSN-NLEK	K-PRRTKAE	NIPAVVIEIK
	-----	-----	-----	--NMP

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

---	PTVSISC	LELSE-NLEK	K-ARRTKAEG	SLPAVVIEIK	--NVP----
---	PTVSISC	LELSE-NLEK	K-PRRTKAEG	SVPAVVIEIK	--NVP----
AARQAGDVEA	GSLLEATSSG	NQGATGGAST	GAPVAAIGAT	--STPK--SD	
AARQAGDVEA	GSLLEATSSG	NQGATGGAST	GAPVAAIGAT	--STPK--SD	
AAL-AT----	-----	-----	-----	-----	

znt4_human	-----	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

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---NKQ---PE---SSL-----  
---NKQ---PE---SSL-----  
L-V-----  
L-VXRQ---PH---QAQQHVHFAT---TKTETATATT---KAATTAAATS---IRDIMYEPRA---  
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znt4_human	-----	-----	-----	-----	-----
znt4_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt4_isoforma_[Mus_musculus]	-----	-----	-----	-----	-----
znt4_isoformb_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_human	-----	-----	-----	-----	-----
znt8_[Mus_musculus]	-----	-----	-----	-----	-----
znt8_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_human	-----	-----	-----	-----	-----
znt3_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt3_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt3_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt35C_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt2_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt8_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_[Danio_rerio]	-----	-----	-----	-----	-----
znt3_isoformX1_[Danio_rerio]	-----	-----	-----	-----	-----
znt2_human	-----	-----	-----	-----	-----
znt2_isoform1_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform2_[Mus_musculus]	-----	-----	-----	-----	-----
znt2_isoform1_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt2_isoform2_[Rattus_norvegicus]	-----	-----	-----	-----	-----
znt9-like_[Hydra_vulgaris]	-----	-----	-----	-----	-----
znt9_[Drosophila_melanogaster]	-----	-----	-----	-----	-----
znt9-like_[Ciona_intestinalis]	-----	-----	-----	-----	-----
znt9_[Danio_rerio]	-----	-----	-----	-----	-----
znt9_human	-----	-----	-----	-----	-----
znt9_[Rattus_norvegicus]	-----	-----	-----	-----	-----
isoform1_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
isoform2_znt9_[Mus_musculus]	-----	-----	-----	-----	-----
znt9like_[E.Coli_partial]	-----	-----	-----	-----	-----
znt9like_[Rhodanobacter_glycinis]	-----	-----	-----	-----	-----
znt9like_[Dyella_ginsengisoli]	-----	-----	-----	-----	-----
znt9like2_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Firmicutes_bacterium]	-----	-----	-----	-----	-----
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----	-----
znt9like_[Mesorhizobium_sp._L2C054A000]	-----	-----	-----	-----	-----
znt9like_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_limimaris]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_sp]	-----	-----	-----	-----	-----
znt9like_[Sneathiella_chungangensis]	-----	-----	-----	-----	-----
znt9like_[Leptolyngbya_foveolarum]	-----	-----	-----	-----	-----
znt9like_[Massilia_sp._LC238]	-----	-----	-----	-----	-----
znt9like1_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like2_[Variovorax_paradoxus]	-----	-----	-----	-----	-----
znt9like_[Nitrosospira_sp._Nsp11]	-----	-----	-----	-----	-----
znt9like_[Sorangium_cellulosum]	-----	-----	-----	-----	-----
znt9like1_[Actinobacteria_bacterium]	-----	-----	-----	-----	-----
znt9like_[Phormidesmis_priestleyi]	-----	-----	-----	-----	-----
znt9like1_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like2_[Nosdoc_punctiforme]	-----	-----	-----	-----	-----
znt9like_[Nostoc_calcicola]	-----	-----	-----	-----	-----
znt9like_[Nostoc_commune]	-----	-----	-----	-----	-----
znt9like_[Nostoc_piscinale]	-----	-----	-----	-----	-----

znt9like_[Nostoc_cycadae]	-----	-----	-----	-----
znt9like_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
znt9like_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
znt9like_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
znt33D_[Drosophila_melanogaster]	-----	-----	-----	-----
transporter_[Pleurocapsa_sp._PCC_7319]	-----	-----	-----	-----
transporter_[Leptolyngbya_foveolarum]	-----	-----	-----	-----
transporter_[Myxosarcina_sp._GI1]	-----	-----	-----	-----
transporter_[Chondrocystis_sp._NIES-4102]	-----	-----	-----	-----
transporter_[Phormidesmis_priestleyi]	-----	-----	-----	-----
transporter_[Nostoc_piscinale]	-----	-----	-----	-----
transporter_[Nostoc_punctiforme]	-----	-----	-----	-----
transporter_[Nostoc_caldicola]	-----	-----	-----	-----
cationtransporter3_[Firmicutes_bacterium]	-----	-----	-----	-----
c.e.p_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter2_[Firmicutes_bacterium]	-----	-----	-----	-----
cationtransporter1_[Actinobacteria_bacterium]	-----	-----	-----	-----
cationtransporter2_[Actinobacteria_bacterium]	-----	-----	-----	-----
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7]	-----	-----	-----	-----
transporter_[E.Coli]	-----	-----	-----	-----
znt9-like2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Pacearchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52]	-----	-----	-----	-----
znt9-likel1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like4_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt9-like_[Candidatus_Woeseearchaeota_archaeon]	-----	-----	-----	-----
znt7_[Drosophila_melanogaster]	-----	-----	-----	-----
znt7_[Danio_rerio]	-----	-----	-----	-----
znt7_human	-----	-----	-----	-----
znt7_[Mus_musculus]	-----	-----	-----	-----
znt7_[Rattus_norvegicus]	-----	-----	-----	-----
znt5-like_[Ciona_intestinalis]	-----	-----	-----	-----
znt5_[Danio_rerio]	-----	-----	-----	-----
znt5_human	-----	-----	-----	-----
znt5_[Mus_musculus]	-----	-----	-----	-----
znt5_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_[Ciona_intestinalis]	TGILSSA	NLKLTKS	-----	-----
znt6_[Danio_rerio]	-----	-----	-----	-----
znt6_human	-----	-----	-----	-----
znt6_[Rattus_norvegicus]	-----	-----	-----	-----
znt6_isoform1_[Mus_musculus]	-----	-----	-----	-----
znt6_isoform2_[Mus_musculus]	-----	-----	-----	-----
znt4_[Danio_rerio]	-----	-----	-----	-----
cationtransporter1_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
transporter_[Geopsychrobacter_electrodiphilus]	-----	-----	-----	-----
cationtransporter2_[Candidatus_Micrarchaeota_archaeon]	-----	-----	-----	-----
znt10_[Danio_rerio]	-----	-----	-----	-----
znt10_human	-----	-----	-----	-----
znt10_[Mus_musculus]	-----	-----	-----	-----
znt10_[Rattus_norvegicus]	-----	-----	-----	-----
znt1-likel1_[Hydra_vulgaris]	-----	-----	-----	-----
znt1_[Ciona_intestinalis]	-----	-----	-----	-----
znt1a_[Danio_rerio]	-----	-----	-----	-----
znt1_human	-----	-----	-----	-----

znt4_human	-
znt4_[Rattus_norvegicus]	-
znt4_isoforma_[Mus_musculus]	-
znt4_isoformb_[Mus_musculus]	-
znt8_human	-
znt8_[Mus_musculus]	-
znt8_[Rattus_norvegicus]	-
znt3_human	-
znt3_[Rattus_norvegicus]	-
znt3_isoform1_[Mus_musculus]	-
znt3_isoform2_[Mus_musculus]	-
znt2-like_[Hydra_vulgaris]	-
znt35C_[Drosophila_melanogaster]	-
znt2_[Ciona_intestinalis]	-
znt8_[Danio_rerio]	-
znt2_[Danio_rerio]	-
znt3_isoformX1_[Danio_rerio]	-
znt2_human	-
znt2_isoform1_[Mus_musculus]	-
znt2_isoform2_[Mus_musculus]	-
znt2_isoform1_[Rattus_norvegicus]	-
znt2_isoform2_[Rattus_norvegicus]	-
znt9-like_[Hydra_vulgaris]	-
znt9_[Drosophila_melanogaster]	-
znt9-like_[Ciona_intestinalis]	-
znt9_[Danio_rerio]	-
znt9_human	-
znt9_[Rattus_norvegicus]	-
isoform1_znt9_[Mus_musculus]	-
isoform2_znt9_[Mus_musculus]	-
znt9like_[E.Coli_partial]	-
znt9like_[Rhodanobacter_glycinis]	-
znt9like_[Dyella_ginsengisoli]	-
znt9like2_[Actinobacteria_bacterium]	-
znt9like_[Firmicutes_bacterium]	-
znt9-like3_[Candidatus_Micrarchaeota_archaeon]	-
znt9like_[Mesorhizobium_sp._L2C054A000]	-
znt9like_[Geopsychrobacter_electrodiphilus]	-
znt9like_[Sneathiella_limimaris]	-
znt9like_[Sneathiella_sp]	-
znt9like_[Sneathiella_chungangensis]	-
znt9like_[Leptolyngbya_foveolarum]	-
znt9like_[Massilia_sp._LC238]	-
znt9like1_[Variovorax_paradoxus]	-
znt9like2_[Variovorax_paradoxus]	-
znt9like_[Nitrosospira_sp._Nsp11]	-
znt9like_[Sorangium_cellulosum]	-
znt9like1_[Actinobacteria_bacterium]	-
znt9like_[Phormidesmis_priestleyi]	-
znt9like1_[Nosdoc_punctiforme]	-
znt9like2_[Nosdoc_punctiforme]	-
znt9like_[Nostoc_calcicola]	-
znt9like_[Nostoc_commune]	-
znt9like_[Nostoc_piscinale]	-

znt9like_[Nostoc_cycadae] -
znt9like_[Myxosarcina_sp._GI1] -
znt9like_[Chondrocystis_sp._NIES-4102] -
znt9like_[Pleurocapsa_sp._PCC_7319] -
znt33D_[Drosophila_melanogaster] -
transporter_[Pleurocapsa_sp._PCC_7319] -
transporter_[Leptolyngbya_foveolarum] -
transporter_[Myxosarcina_sp._GI1] -
transporter_[Chondrocystis_sp._NIES-4102] -
transporter_[Phormidesmis_priestleyi] -
transporter_[Nostoc_piscinale] -
transporter_[Nostoc_punctiforme] -
transporter_[Nostoc_caldicola] -
cationtransporter3_[Firmicutes_bacterium] -
c.e.p_[Firmicutes_bacterium] -
cationtransporter1_[Firmicutes_bacterium] -
cationtransporter2_[Firmicutes_bacterium] -
cationtransporter1_[Actinobacteria_bacterium] -
cationtransporter2_[Actinobacteria_bacterium] -
c.e.p_[Candidatus_Woeseearchaeota_archaeon_CG08_land_8_20_14_0_20_43_7] -
transporter_[E.Coli] -
znt9-like2_[Candidatus_Micrarchaeota_archaeon] -
znt9-like_[Candidatus_Pacearchaeota_archaeon] -
znt9-like_[Candidatus_Aenigmarchaeota_archaeon_ex4484_52] -
znt9-likel1_[Candidatus_Micrarchaeota_archaeon] -
znt9-like4_[Candidatus_Micrarchaeota_archaeon] -
znt9-like_[Candidatus_Woeseearchaeota_archaeon] -
znt7_[Drosophila_melanogaster] -
znt7_[Danio_rerio] -
znt7_human -
znt7_[Mus_musculus] -
znt7_[Rattus_norvegicus] -
znt5-like_[Ciona_intestinalis] -
znt5_[Danio_rerio] -
znt5_human -
znt5_[Mus_musculus] -
znt5_[Rattus_norvegicus] -
znt6_[Ciona_intestinalis] -
znt6_[Danio_rerio] -
znt6_human -
znt6_[Rattus_norvegicus] -
znt6_isoform1_[Mus_musculus] -
znt6_isoform2_[Mus_musculus] -
znt4_[Danio_rerio] -
cationtransporter1_[Candidatus_Micrarchaeota_archaeon] -
transporter_[Geopsychrobacter_electrodiphilus] -
cationtransporter2_[Candidatus_Micrarchaeota_archaeon] -
znt10_[Danio_rerio] -
znt10_human -
znt10_[Mus_musculus] -
znt10_[Rattus_norvegicus] -
znt1-likel1_[Hydra_vulgaris] -
znt1_[Ciona_intestinalis] -
znt1a_[Danio_rerio] -
znt1_human -

znt1_[Mus_musculus]
znt1_[Rattus_norvegicus]
znt1_isoformG_[Drosophila_melanogaster]
znt1_isoformF_[Drosophila_melanogaster]
znt1-like2_[Hydra_vulgaris]

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