

Deinococcus L-LFLDKPNARMVEKEDKVVRAKGLSADRYALLGLPAEPFRDVQLLAPPRAGAAGTAIVP
Ocep L-FYLDKPNRELNEKERE-----RYRRLGLEPEPFSSVAFFAPPRLA-QGQGHV
Tsc0 L-LFLDKPNRLRLEEAKE-----EYRRLGLPPTPFQSVRFLAPPKKGEEGI--LP
JL18 L-FFLDKPNARLTEEARK-----AYARLGLPATPFQSVAFVAPPKKAGY---LP
HB27 L-FFLDKPNARLTEEARK-----AYARLGLPATPFQSVAFVAPPKKAGY---LP
HB8 L-FFLDKPNARLTEEARK-----AYARLGLPATPFQSVAFVAPPKKAGY---LP
SG0.5 L-FFLDKPNARLTEEARK-----AYARLGLPATPFQSVAFVAPPKKAGY---LP
Sulfolobus Y----ESEIKNLNIEP-----KINPLNLTDEFAT-----LL
Archaeoglobus VGYTFEDGSEKGNVPA-----GIRPERLEPWEFAS-----LV
Methanocaldococcus V-----KMRNTHILPA-----KLNPIVPEEHLAK-----LL

Deinococcus QTDQRSEGVTPFVFTIREFCARRMLPYVFSASASLNLGFVIGNIEEKLFRLLAAQQTGKG
Ocep AASSRAEGVRPYHWSIVDFCQDGLLPFLFTDRGAMSNLGFVLDHVTARLAALARGQ--EG
Tsc0 DVETRLEGVKAYHWDLVQFAQKGLLPFLFTDKGALTNLGFVLAHVTEKLRRLAEGQ--KG
JL18 DVDTRLEGVEAYHWDLVQFCQRGLLPFLFADRAAMTNLGFVLAHVTEKLRRLAEGQ--KG
HB27 DVDTRLEGVEAYHWDLVQFCQRGLLPFLFADRAAMTNLGFVLAHVTEKLRRLAEGQ--KG
HB8 DVDTRLEGVEAYHWDLVQFCQRGLLPFLFADRAAMTNLGFVLAHVTEKLRRLAEGQ--KG
SG0.5 DVDTRLEGVEAYHWDLVQFCQRGLLPFLFADRAAMTNLGFVLAHVTEKLRRLAEGQ--KG
Sulfolobus EI-RENATIQ----YRILRRAFKSFLEETK-----
Archaeoglobus GVDREKAAVQ----RMHLERIFTTVRHEGKAG-----REFVERVLDIA---
Methanocaldococcus GIG-ENSSVQ----KSFLVYAALTVKYECKENKKQISGL-EYLKKEEKLVECA---

Deinococcus TGLIVHDWQFEDSETPPENLDFSELGGVNLQTFEQLISYLEYKLLEREAGE----GDPK
Ocep PELYVDDWPEGPTGEA--GAFDSLGRVKIGSFGQLVDYLEFQLLGAES-EGEAASGNHH
Tsc0 PHLLVADWPGGELPED--ITFDDLGRVRLKSFADLVRYLEYKLLGPETGEGE--GDRT
JL18 PHLQVEDWPGGEASEG--MSFDQLGKARLKSFSDLVRYLEYKLLGPETGEGE--GDRG
HB27 PHLQVEDWPGGEASEG--MSFDQLGKARLKSFSDLVRYLEYKLLGPETGEGE--GDRG
HB8 PHLQVEDWPGGEASEG--MSFDQLGKARLKSFSDLVRYLEYKLLGPETGEGE--GDRG
SG0.5 PHLQVEDWPGGEASEG--MSFDQLGKARLKSFSDLVRYLEYKLLGPETGEGE--GDRG
Sulfolobus ----EKLKNGNVNYNELNFRNLILKKVDEVSKN-----EKRK
Archaeoglobus ----EEWINIAAGKGEA-EYYDFNGIKRVATLD-----RQDL
Methanocaldococcus ----DKIANSEDKKRIYIEYD-GTRCRXKTVK-----KDDE

Deinococcus WVLRKQSPGTLRAFTRRLRGVQKYLSPILRGDLTPEQAEGRYPDPLRRGIQLTVVDIHALS
Ocep WTARQHTGTLQAFVRRRLRAASRSVGHVLRGD----APSNAPDPLGSPAQVNVVDIHNLS
Tsc0 WVARQARGTLEAFVRRRLRSSVENVAHLVRGD----RKGNDPPLGGEQVHVVDLAKLS
JL18 WTARQAKGTLEAFVRRRLKASVENVAHLVRGD----RPGNDPPLSGE-QVHVVDLAKLS
HB27 WTARQAKGTLEAFVRRRLRSSVENVAHLVRGD----RPGSPPDPLSGKAQVHVVDLAKLS
HB8 WTARQAKGTLEAFVRRRLRSSVENVAHLVRGD----RPGSPPDPLSGKAQVHVVDLAKLS
SG0.5 WTARQAKGTLEAFVRRRLRSSVENVAHLVRGD----RPGSPPDPLSGKAQVHVVDLAKLS
Sulfolobus DSKDEVINKIEDFLDRY----SEIIDFTAGDVVDKIKIG-----KVVINLSSLD
Archaeoglobus NALARIKEVSSFMRRY---EDL--LSQNDMLANIKPS-----YLNVVNLSGFD
Methanocaldococcus MSINRVIEKLRWFINKN---KNI--LGENEGMFDIKSD-----KINVLPLQKIE

Deinococcus AHAQMFVVGVLVREVFYKE--RVGRQDT-----VFVVLDELNKYAPREGDSPIK
Ocep PQAQMFVVGALLRRVFAAKE--SGSHRGK-----VFVVLDELNKYAPREGESPIK
Tsc0 PQQQMFVVGSLSDLFAKKE--RGQYRGR-----VFVVLDELNKYAPRDEESPIK

