

HsEXOSC2 -----MALEMRLPARK--PL-SERLGR--DTKKHLVV¹DTITTD-----TGFMRGHGCTYMGEEK-----LTASVAGSVERVNL-----TCVKAL
MmRrp4 -----MALEMRLPARK--PL-SESLGR--DSKKHLVFGCDITTD-----TGFMRGHGCTYMGEEK-----LTASVAGSVERVNL-----TCVKAL
DrRrp4 -----MALEMRLPAVHK--HV-SLRTQSSREDKHLVV¹PGDVTSD-----TGFMRGHGCTYMGEEK-----LTASVAGQVERVNL-----TCVKPL
DmRrp4 -----MSTNAIDLALD--RVDVMDLAAQTQEPQRYVT¹PGEVLME-----AGFMRGHGCTYFVEDN-----IKSSVAGVIQKVNL-----TSVKPL
CeRrp4 -----MSFEVTGFP-----LVSPMMLMSGEARNIDETKIVI¹PGHSCVADP-----TGFMRGHGCTYVRDGE-----IVSSLGGVQQLNRL-----LMVKTI
ScRrp4 MSEVITITKRNAGFQNSNLNNTNGIS--DDENDEEIVT--MHQVNSAKSESQDVI¹VTGSLVDN-----PQWFRMGHGTIVFLDNM-----TYSVAGTISVRVNL-----LSVPTI
SpRrp4 -----MVTLLKPEEFVYSSEADIVNDVSMTEMEDIME¹DEMQGLVGDEGVLEEFQDIIHQNLVT¹PGCVLTD-----PQFMRGHGCTYTFEEN-----IYASVAGSQRVNL-----ISVKPL
CnRrp4 -----MFSYKAV--APSIQAFTEIVPSTHRK--HQELDA¹NMLDDEDFGGAGPSKRSIVS¹PGEVISS-----KEYMRMGHGTIVFEESN-----VYSSVAGTISVRNL-----TSVRLT
AtRrp4 -----MVMRKLQPLSLQTC--KVRFERAIE--ELQ¹SLSS--SANDASVIVTDSIV¹VNHD-----DAFLKMGCTSEVDGE-----LLATVCGVERVNL-----VYVRTL
OsRrp4 -----MRDLQLSLNQTC-----RFLEREAALH--ELQ¹TVAP--AAAVTADTIV¹NDE-----DNILKHGCTSDQGE-----VVATLGVVERVNL-----VYVRTL
HsEXOSC3 -----MAEPASVAESLGSARRAARTVLGQVVL¹GEELL¹PEQEDABEGPGGAVERPLSLNARACSRVRVCG¹GLRRRCGR-----LVLTCKGRLRHKEPGSGSGGVVYVDS
MmRrp4 -----MAEVL¹SAGPESVAGCARAVHKVNLQVVL¹GEELL¹VPDHEVDGLGAGEQLRLNAGARPLRVCG¹GLRRRCGR-----LVLTCKGRLRHKEPS--GGGGGVVYVDS
DrRrp4 -----MDSSVHTSLLERIGDVLV¹PGDLL¹FSFSPPE-----AGDANPKADRLK¹GLPRLRRGAE-----TRVCRAQGLKHKQPN-----MYMVCN
MmRrp4 -----MSATSI¹VMGRIEAP-----TEELAKSIRL¹CGRLRLDDT-----VVASKAGLRHKEEP-----TFWIND
CeRrp4 -----MTVVL¹PGRIINAP-----SDSIIGVIGSVRQT-----RIATQCPAH-----NIDDKQWLWAL
ScRrp4 -----MSTFI¹PGDGSFVDP-----TTPVKL¹GLPGICYKDNTEQ-----RFPVNT¹GLHVSAGK--KSGVQTATYDI
SpRrp4 -----MAEVEEKGLLSY¹FCERI¹PDISIIS-----QDGSIRL¹GLPGIVCFQPE-----ELIIVSAGKRLH--TGKNAMLIS
CnRrp4 -----MPTLL¹GLPGTIVPIS-----TSKAVVL¹GLPGISQSTPTLQASSSTASGSSAQGYIATRL¹GLH--SGKG--KERSQRLWIEG
AtRrp4 -----MAAKVSVSP¹TSLNIVV¹PGDILNLM-----NNQTIK¹LSGGLIQNDNA-----ISAMRAKLSYKFN-----KYWLES
OsRrp4 -----MESKRPPSALVDNHV¹PGDVL¹DLAEM-----TNQTIK¹LAGLRQDCDT-----IQATSA¹GLRLSKFPS-----KYWLES
ScRrp4 -----MNMSSQSKVIL¹QPRSI¹VV¹PGDL¹LAEGE-----FQIPWSFYILKINSK-----YYSTV¹GLFDVKDTQ-----FEVIFL
consensus -----pg 1-----g g-----G 1-----

HsEXOSC2 KT--RYIEVGVDIV¹VGRI¹TEVQQRN¹KWVET¹NSR--LDSVLL¹SSNNL¹PGGL¹RRRSAEDELAMRG¹QLQGL¹LSIAE¹QAVQVS¹DGAVS¹-----HTRSLKY¹GYKL--GQGVLVQ--VSPSLVK-----RQKTHF¹HDLP-----CGASVIL¹NGNGFI¹WYI
MmRrp4 KT--RYNIEVGVDIV¹VGRI¹TEVQQRN¹KWVET¹NSR--LDSVLL¹SSNNL¹PGGL¹RRRSAEDELAMRG¹QLQGL¹LSIAE¹QAVQVS¹DGAVS¹-----HTRSLKY¹GYKL--GQGVLVQ--VSPSLVK-----RQKTHF¹HDLP-----CGASVIL¹NGNGFI¹WYI
DrRrp4 KT--RYNIEVGVDIV¹VGRI¹TEVQQRN¹KWVET¹NSR--LDSVLL¹SSNNL¹PGGL¹RRRSAEQDELAMRG¹QLQGL¹LSIAE¹QVSI¹FDGALS¹-----HTRSLKY¹GYKL--GQGVLVQ--VSPSLVK-----RQKTHF¹HDLP-----CGASILNGNGY¹WLS
DmRrp4 KS--RYGIEIGDVV¹ARVEVQQRN¹KWVET¹NSR--LDSILL¹SSVNL¹PGGL¹RRRSAEDEMRRY¹LDGL¹LSIAE¹VQNI¹FEEGSL¹-----YTRSLKY¹GYKL--SQGLIVK--VFPALVK-----RRKHMF¹HDLP-----CGASVILNGNGY¹WIS
CeRrp4 KS--RYAGEYIGDVV¹ARVEVQQRN¹KWCVASR--LHANL¹GLS¹VNL¹PGGL¹FRKRDVEDEKMFSE¹FLKNGEL¹LSIAE¹QVQVQ¹QHGD¹TML-----HTRNNKY¹GYKL--GQGLIKL--VPSHLIK-----RKKHMF¹HDLP-----YGMVA¹ILGNGSY¹WIS
ScRrp4 KS--RYAEFESGIV¹ARVEVQQRN¹KWVET¹CGK--QHAVL¹GLS¹VNL¹PGGL¹FRKRDVEDEKMFSE¹FLKNGEL¹LSIAE¹QVQVQ¹FDG¹SAL¹-----HTRSLKY¹GYKL--RNMFCQ--VPSHLIK-----GNITV¹LVNGSY¹WIR
SpRrp4 KS--RYVPEIGDIL¹GVIAE¹VQQRN¹KWVET¹CGK--QHAVL¹GLS¹VNL¹PGGL¹FRKRDVEDEKMFSE¹FLKNGEL¹LSIAE¹QVQVQ¹FDG¹SAL¹-----HTRSLKY¹GYKL--RNMFCQ--VPSHLIK-----GNITV¹LVNGSY¹WIR
CnRrp4 RS--RYTFEIGDIL¹GVIAE¹VQQRN¹WDANGR--QDAV¹MLSS¹VNL¹PGQV¹QRRI¹ESDAL¹KREFLAG¹GLDIL¹VAE¹QVQ¹FDG¹SAL¹-----HTRSLKY¹GYKL--RNGFLIT--VPQLIR-----RLKSHFYI¹PPPGCTG¹VDV¹GLNGY¹WYV
AtRrp4 RA--RYKPEVIGDV¹GVIAE¹VQQRN¹VELNIN--QDVL¹MLSS¹MNMP¹QGI¹QRRT¹SVDEL¹NMNI¹VE¹HDV¹CVCAE¹VRN¹FG¹HGSL¹-----QARSQ¹YGYKL--EQGQLV--VDPLYVK-----RSKHMF¹HDLP-----SLGID¹ILGNGFI¹WVG
OsRrp4 RA--RYKPEVIGDV¹GVIAE¹IPAKRNL¹INFS--QDAV¹MLSS¹MNMP¹QGI¹QRRT¹AVDEL¹NMNI¹FE¹ENDV¹CVCAE¹VRN¹FG¹HGSL¹-----QARSQ¹YGYKL--ERKQLV--VPALYVK-----RQKHMF¹HDLP-----QYVDL¹ILGNGFI¹WVG
HsEXOSC3 QQR¹RVYVPVKG¹DVIG¹IVTAKSGD¹IFKVDVGG¹S-EPA--SLSLY¹SFEGATKRN-----RNPVQ¹GDILY¹GCQV¹VANKMEPE¹MVCIDS--CGRANGM¹GVIGQD¹GLLFL--VTGLIR¹KLRLA--PDCET¹IQEVG¹KLPL¹IEV¹FGMNGR¹IWK
MmRrp4 QQR¹RVYVPVKG¹DVIG¹IVTAKSGD¹IFKVDVGG¹S-EPA--SLSLY¹SFEGATKRN-----RNPVQ¹GDILY¹GCQV¹VANKMEPE¹MVCIDS--CGRANGM¹GVIGQD¹GLLFL--VTGLIR¹KLRLA--PDCET¹IQEVG¹KLPL¹IEV¹FGMNGR¹IWK
DrRrp4 QQR¹RVYVPVKG¹DVIG¹IVTAKSGD¹IFKVDVGG¹S-EQA--SLSLY¹AFEGATKRN-----RNPVQ¹