

PTB Domain
Mus_mu1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SS----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Rat_no1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SA----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Mes_aul SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SS----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Mic_oc1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SA----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Per_ma1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SA----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Pro_co1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SA----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Mic_mu1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SA----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Ovi_arm1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SA----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Orc_or1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SS----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Xen_tr1 SD--EFRFRS KSQSS--SCS NPISVPL--R RHHLNPNPPS QVGLTRRSRT E-SITATSPA SMVG--GKGF SFRVRSASDD EGTM--SR-----PAS VDGSVPVSPST NRTHAHRHRG SA----- --RLHP--P LN---HSRSI PMPSSRCSFP --SATSFP--
Mus_mu2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----T SCRVRTASEG DGGG---AGG AGTAGGRPMS VAGSPLSFGF VRAPLRSRHT LSAGCGGRPS KVTLAPAGGA LQ---HSRSM SMPVAHSPFP --AATSFP--
Rat_no2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----T SCRVRTASEG DGGG---AGG AGTAGGRPMS VAGSPLSFGF VRAPLRSRHT LSAGCGGRPS KVALAPAGGA LQ---HSRSM SMPVAHSPFP --AATSFP--
Mes_aul KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----T SCRVRTASEG DGGG---AAG AGAAGGRPMS VAGSPLSFGF VRAPLRSRHT LSGCGGRPS KVTLAPAGGA LQ---HSRSM SMPVAHSPFP --AATSFP--
Mic_oc2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----T SCRVRTASEG DGGG---AAG AGTAGGRPMS VAGSPLSFGF VRAPLRSRHT LSGCGGRPS KVTLAPAGGA LQ---HSRSM SMPVAHSPFP --AATSFP--
Per_ma2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----T SCRVRTASEG DGGG---AAG AGTAGGRPMS VAGSPLSFGF VRAPLRSRHT LSAGCGGRPS KVTLAPAGGA LQ---HSRSM SMPVAHSPFP --AATSFP--
Pro_co2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----T SCRVRTASEG DGGG---AAG TAGAGGRPVS VAGSPLSFGF VRAPLRSRHT LSGCGGRPS KVTLAPAGGA LQ---HSRSM SMPVAHSPFP --TATSFP--
Mic_mu2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----N SCRVRTASEG DGGG---AAG TGAGGGRPS VAGSPLSFGF VRAPLRSRHT LSGCGGRPS KVTLAPAGGA LQ---HSRSM SMPVAHSPFP --TATSFP--
Ovi_arm2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----S ACRVRTASEG DGGG---AAG AAGAAG---A AGSPLSFGF VRAPLRSRHT LS---GRRG KVALAPAGG LQ---HSRSM SMPVAHSPFP --AATSFP--
Orc_or2 KELFEFRFRS KSQSSGSSAT HPISVFGARR HHHLVNLNPPS QTGLVRRSRT D-SLAATPPA AKC-----S SCRVRTASEG DGGV---AAG AGAAGGRPVS VAGSPLSFGF VRAPLRSRHT LSGCGGRPS KVTLAPAGGA LQ---HSRSM SMPVAHSPFP --AATSFP--
Xen_tr2 RELVEFRFRS KSQSSSS---NPISVFG--R RHHLNQLNPPS QTGLTRRTRT D-----FPST SVCV--SANT SSRRTASEG DNLSS---NR---T VTGSPLSFSM LRAPLRSRHT LS---LCGRNT K--LVPFGP LQ---HSRSM SMPVFRSPFP --TAASFP--
Mus_mu3 GS-----NAA----- --GA EPPQGNPKP----- --SVPAA PTPPYEIP--ASAQA-----
Rat_no3 GS-----SAA----- --GA E-APLGDSPK----- --GASAV PAFAPYEIPA LALAQA-----
Mes_aul GS-----GAT----- --DEA E-PLSGDFPD----- --SASAA PAFVYEYETP--ASVTQP-----
Mic_oc3 GS-----SAA----- --GKD E-PPSANPFK----- --SASAA PPRVYEYETP--ASAAQP-----
Per_ma3 GS-----SGS----- --GKD E-PPGEPFK----- --SASAA PAFAPYEYETP--TSAAPQ-----
Pro_co3 GS-----GGG----- --GRA E-PLFRDPT----- --SASRL SVFQYETP--ASAQSS-----
Mic_mu3 GS-----GGV----- --ARA E-PLFRDCT----- --SASRL SVFQYETP--VSAQS-----
Ovi_arm3 GD-----SGAV----- --GRA E-PLFRKPT----- --GAFRP SVFQYETP--DSAAQT-----
Orc_or3 GS-----SGAG----- --GRA E-PLFRKPT----- --SASTP SVFQYETP--ASAQS-----
Xen_tr3 SE--EFRPRT KSQSSLS---TPISVPS--R RHHPNPPPPS QVGLSRRSRA E-T----- --P IENSVP----- --K P--HLSLK DY-----SVQSP-----

Mus_mu4 CA-DEYRARC RSYSI-SIGA HLTLTLLS--T RRLHGLLPIE PGWLRYSRFL E----- --Q FCRLRAIRER -EEMLFTRFR ISPREPPPPF RRGGRHLFRA RR----- --SRRAA SVPPSLFRK-- --SAPSPG-R IPQEDVPND RAR---EASG SSSGNTEE--
Rat_no4 CA-DEYRARC RSYSI-SVGA HLTLTLLS--T RRLHGLLPIE PGWFRFRSFL E----- --Q FCHLRALICR -EDMLFTRFR IAPREPPPPF RRGGRHLFRA RR----- --SRRAV SVPPSFRK-- --SAPSPG-R IQPEDARNH RAC---QAQG SSSGNSEE--
Mes_aul CA-DEYRARC RSYSI-TVGA HLTLTLLS--T RRLHGLLPIE PGWLRYSRFL E----- --Q FCRLRVIGR EEMLFTRFR R-PSELPFP RRGGRHLFRA RR----- --SRRAV SVPPSFRK-- --LAFSPFVR VSHTEVSHN RAC---EASG SSSGNSEE--
Mic_oc4 CA-DEYRARC RSYSI-SIGA HLTLTLLS--T RRLHGLLPIE PGWFRFRSFL E----- --H LSHLRALISD -EEMLFTRFR K-PSELPFP RRGGRHLFRA RR----- --SRRAV SVPPSFRK-- --LAFSPFVR VSHTEVSHN RAC---EASG SSSGNSEE--
Per_ma4 CA-DEYRARC RSYSI-SVGA HLTLTLLS--T RRLHGLLPIE PGWLRYSRFL E----- --Q FCHLRALICR -EEMLFTRFR I-PNEPLFP RRGGRHLFRA RR----- --SRRAV SVPPSFRK-- --VAFSPRNV VSHTEVSHN RAC---EASG SSSGNSEE--
Pro_co4 CA-DEYRARC RSYSI-CIGA HLTLTLLS--T RRLHGLLPIE PGWLRYSRFL E----- --Q FYHRLALDGG EDEMLFSRHL LTPSEVPAS RRGGRHLFRA RR----- --SRRAL SVFACIFRRA-- --LSPF-VR APNTEAEPND GAGQSSA---SGSGNSGEG
Mic_mu4 CA-DEYRARC RSYSI-SIGA HLTLTLLS--T RRLHGLLPIE PGWFRFRSFL E----- --Q FYHRLALDGG EDEMLFSRHL VTRPEVPAS RRGGRHLFRA RR----- --SRRAL SVFACIFRRA-- --LSSST-VR APTAEPND GAGQSSA---SGSGNSGEG
Ovi_arm4 CA-DEYRARC RSYSI-SIGG HLTLTLLS--T RRLHGLLPIE PGWLRYSRFL E----- --Q FCHLRALDGG EDEMLFARY ITPSEVPAS RRGGRHLFRA RR----- --PRRAT SVFASFFRRA-- --TAPSP-VR ILYPAEALHD RDPVSSAEG SGSGNSGEG
Orc_or4 CA-DEYRARC RSYSI-SIGA HLTLTLLS--T RRLHGLLPIE PGWLRYSRFL E----- --Q FCHLRALDGG EDEMLFARY ITPSEVPAS RRGGRHLFRA RR----- --SRRAL SVFASFFRRA-- --VAFSP-VR GHPAEPSE GAGLSEAFSG SGSGNSGEG
Xen_tr4 KAYSEFRFRS KSQSSGT---NPISFIT--T RRYLGNLPPS QTGLQRRSRT E-SVVTGTPPS -----AKNN SFRFRTSSEG EGTM--TRF FR-----S VTGSLSHLNT ARINLKGQEG AG----- --RYRAP FNSGYHSRA SLPVSHFP-- --SATSFP-- GHPAEPSE GAGLSEAFSG SGSGNSGEG

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Mus_mu1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Rat_no1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Mes_aul -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Mic_oc1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Per_ma1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Pro_co1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Mic_mu1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Ovi_arm1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Orc_or1 -----VSL SSSSTSGHGS TSDCLFP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG GKGASTLAP NGHYILSRGG NGHRYIPGAN LGTSPALFGD EAAGAADDN RFRKRTHSAG TS-PT---I
Xen_tr1 -----VSL SSSSTSGHGS TSDCMCP----- --RRS--SA SVSGSPSDGG FISSDEYSS PCDF-RS--S FRSVTPDSLGL HTTPAR--GE EELSNYICMG KPSHQLRSQ QRYQLRSR----- --EHPDFDK VFRKRTHSAG TSPT---V
Mus_mu2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGG GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Rat_no2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGG GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Mes_aul -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGG GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Mic_oc2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGG GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Per_ma2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGG GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Pro_co2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGG GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Mic_mu2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGG GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Ovi_arm2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RVYCC HRNTPESIA ETTPARDGSA GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Orc_or2 -----GSL S--SSSGHGS GSYPPLPGSH PHLPHLPHHP QQRPSGSGA SASGSPSDPG FMSLDEYSS FGDL-RAFSS HRNTPESIA ETTPARDGSA GELYGYMSMD RP---LSHC- GRPYRVS- --DGAQDLD RGLKRTYSLT TP-----
Xen_tr2 -----ISL SSSSGHGS TSDPLIP----- --PMSGFCSA SASGSPSDTG FMSLDEYSS PGEIARVYLS CFSGTPDSAS ATPHH--- --GELNGYMSME RQFPGVCS- --RHLG- --SVA--EK CARKRTYSLT TP-----

Mus_mu3 -----RSP -----SERA KQDYFKP----- --LERMGSTH SY-KGLDLGG----- --NYITMG-----
Rat_no3 -----RSP -----GERA KQDYVNP----- --LERMGSTH SY-RGDLGG----- --DYIIMG-----
Mes_aul -----RSP -----GERA KQDH-KT----- --LERMGSTH SY-KGLDLGG----- --DYIIMG-----
Mic_oc3 -----RSP -----GERA KQDYFKT----- --LERMGSTH SY-KELDLG----- --DYIIMG-----
Per_ma3 -----RSP -----GERA KQDYLKA----- --LERMGSTH SY-KGLDLGG----- --DYIIMG-----
Pro_co3 -----SSL SRRGCLGERI KQTLRT----- --PVRILGAA LYSKRLDPGG----- --GYINMR-----
Mic_mu3 -----SSL SRRGCLGERI KQATLGT----- --PARLGA A LHSKALDQGG----- --SYIIMG-----
Ovi_arm3 -----SEL ---NRNNGRS E-----T----- --LARLGA A SNTARLERGG----- --SYITMG-----
Orc_or3 -----SSL YRPGRLSERS EQATLKT----- --LARFGAA SPEGLELGG----- --VYITMG-----
Xen_tr3 -----EEE -----SRRGCLGERI KQATLGT----- --EERKGVAR ETNESAADYG SASSDEYSS FGVL-EA----- --PVFLP PFPGR----- --ETNYSMA LYG----- --RRSLVME-----PI---S

Mus_mu4 --KDKGEEG NRGDCIPMNN WSGNGRGSS GGRGSSGQGS SS----- --QG-----SGRGQSGSSG Q-----GSG QGQ-AG---- --GNQCSGNGQ GTAGHGSGG-----G-----G GHGSGGQRP GDHGSGGG-----KN-----SGSG NSD-DGDRGK SVKRSYFGK FTQSK---Q
Rat_no4 --KDKGEEG NRGDCIPMNN WSGNGRGSS GGRGSSGQGS SS----- --QG-----SGRGQSGSSG Q-----GSG QGQ-AG---- --GNQCSGNGQ GTAGHGSGG-----G-----G GHGSGGQRP GDHGSGGG-----KNS GSKGSGSGK NSD-DGDRGK SVKRSYFGK FTQSKQOQQO
Mes_aul --KDKSEEA NEGDIYMPNN WSGNGRGSS GGRGSSGQGS SS----- --QSSGNQY SGRGQSGG--GQSGG-RGSG QGQ-AG---- --GNQCSGNGQ G-AGHGSGGQ QGRF-----G GHGSGGQRP GDHGSGGG-----KNS GSKGSGSGK NSD-DGDRGK SLKRSYFGK FTQSK---Q
Mic_oc4 --KDKDAEB NEGDIYMPNN WSGNGRGSS GGRGSSGQGS SS----- --QSSGNQY SGRGQSGG--GQSGG-RGSG QGQ-AG---- --GNQCSGNGQ GTAGHGSGG QGRF-----G GHGSGGQRP GDHGSGGG-----KNS GSKGSGSGK NSD-DGDRGK SLKRSYFGK FTQSK---Q
Per_ma4 --KDKSEEG NEGDIYMPNN WSGNGRGSS GGRGSSGQGS SS----- --QSSGNQY SGRGQSGG--GQSGG-QGSG QGQ-AG---- --GNQCSGNG-----GHGSG QGRF-----G GHGSGGQRP GDHGSGGG-----KNS GSKGSGSGK NSD-DGDRGK SLKRSYFGK FTQSK---Q
Pro_co4 NPOQKEDQEG NEGDIYMPNN WSGNGRGSS GGRGSSGQGS SS----- --QSSGNQY SGRGQSGG--GQSGG-QGSG QGQ-AG---- --GNQCSGNGQ GTAG--GSGG QGQAG---G GHGSGGQRP GDHGSGGG-----KNS GSKGSGSGK GABGDGERG SLKRSYFGK LQSK---Q
Mic_mu4 NPOQKEDQEG NEGDIYMPNN WSGNGRGSS GGRGSSGQGS SS----- --QSSGNQY SGRGQSGG--GQSGG-QGSG QGQ-AG---- --GNQCSGNGQ GTAG--GSGG QGQAG---G GHGSGGQRP GDHGSGGG-----KNS GSKGSGSGK GABGDGERG SLKRSYFGK LQSK---Q
Ovi_arm4 GPOQKEDQEG NEGDIYMPNN WSGNGRGSS GGRGSSGQGS SS----- --QSSGNQY SGRGQSGG--GQSGG-QGSG QGQ-AG---- --GNQCSGNGQ GTAG--GSGG QGQAG---G GHGSGGQRP GDHGSGGG-----KNS GSKGSGSGK GABGDGERG SLKRSYFGK LQSK---Q
Orc_or4 NPOQKEDQEG NEGDIYMPNN WSGNGRGSS GGRGSSGQGS SS----- --QSSGNQY SGRGQSGG--GQSGG-QGSG QGQ-AG---- --GNQCSGNGQ GTAG--GSGG QGQAG---G GHGSGGQRP GDHGSGGG-----RNS GSKGSGSGK GSEGNDRGK SLKRSYFGK LQSK---Q
Xen_tr4 -----RSP----- --SSSGHGS ASETL----- --TRPS--SS SVRGSFGSG FISSDEYSS FGDL-RYF-R VRSNTPDSLGT NPTPIQ--EE NTLSDMSMS THSHFDK----- --DDYMEADK CFRKRTYSLT KPTKS---A

