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gi|56118250|ref|NP_033558.2|-----MPEISLRHVVS***CS*****SD*STHCAENLLKAGTYR***KWRAAKAGEKTI*****SVVLQLEKEBQIHSVDIGNDGSAFVEVLVGSAGGATAGEODVEVLLVTSSFMSPSESRSGSNP*****SRVRI*****FGPDKLVRAAAEK 125
gi|16758176|ref|NP_445887.1|-----MPEISLRHVVS*****STHRAENLLKADTYR*****KWRAAKAGEKTI*****SVVLQLEKEBQIHSVDIGNDGSAFVEVLVGSAGGATAGEODVEVLLVTSSFMSPSESRSGSNP*****NRVRI*****FGPDKLVRAAAEK 125
gi|190684675|ref|NP_006288.2|-----MPEISLRHVVS*****CS*****SD*STHCAENLLKADTYR*****KWRAAKAGEKTI*****SVVLQLEKEBQIHSVDIGNDGSAFVEVLVGSAGGATAGEODVEVLLVTSSFMSPSESRSGSNP*****NRVRI*****FGPDKLVRAAAEK 123
gi|114677628|ref|XP_512717.2|-----MPEISLRHVVS*****CS*****SD*STHCAENLLKADTYR*****KWRAAKAGEKTI*****SVVLQLEKEBQIHSVDIGNDGSAFVEVLVGSAGGATAGEODVEVLLVTSSFMSPSESRSGSNP*****NRVRI*****FGPDKLVRAAAEK 86
gi|73948237|ref|XP_533653.2|-----MGAEKAE*****ERHREAGLERGEARDVMP*****EIRLRHVVS*****CS*****SD*STHCAENLLKADTYR*****KWRAAKAGEKTI*****SVVLQLEKEBQIHSVDIGNDGSAFVEVLVGSAGGATAGEODVEVLLVTSSFMSPSESRSGSNP*****NRVRI*****FGPDKLVRAAAEK 148
gi|51571935|ref|NP_001003988.1|-----MPELKLK*****HVVV*****CS*****EDN*****THKAD*****LLS*****SD*****TYR*****KWAAR*****PGEKQV*****SVILQLEKEBQIHSVDIGNDGSAFIEVLVGH*****SVK*****DD*****DFEVLVLTSSFMSPSESRNG*****NT*****NRVRF*****FGPGLVKAQ*****QSE 122
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150

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gi|56118250|ref|NP_033558.2|RWDRVKIVCSQ*****PYSKDS*****PYGLSFVKFHSPPDKDEA*****EAT*****SQK*****VT*****VTKLGFQFRVKEEDSANS*****-LRPGALFFSRV*****N-KTSSASTSDPAG*****--PSYAAATLQASSAASSA*****SPV*****PKVVGSSSKLQ*****EP*****PKGRRKLDL*****SL*****EDR*****KPPSKPSAG*****--PS 268
gi|16758176|ref|NP_445887.1|RWDRVKIVCSQ*****PYSKDS*****PYGLSFVKFHSPPDKDEA*****EAP*****SQK*****VT*****VTKLGFQFRVKEEDSANS*****-LRPGALFFNRIN*****--KAASASASDPAG*****--PSYAAATLQASSAASSA*****SPV*****PKVVGSSSKLQ*****EP*****PKGRRKLDL*****GL*****EDSKPPSKPSAG*****--PA 268
gi|190684675|ref|NP_006288.2|RWDRVKIVCSQ*****PYSKDS*****PFGLSFVRFHSPDPKDEA*****EAP*****SQK*****VT*****VTKLGFQFRVKEEDSANS*****-LRPGALFFSRIN*****--KTSPTV*****ASDPAG*****--PSYAAATLQASSAASSA*****SPV*****SRAIG*****STSKPQ*****EP*****PKGRRKLDL*****NO*****EKK*****TPSKPPAQLSPS 268
gi|114677628|ref|XP_512717.2|RWDRVKIVCSQ*****PYSKDS*****PFGLSFVRFHSPDPKDEA*****EAP*****SQK*****VT*****VTKLGFQFRVKEEDSANS*****-LRPGALFFSRIN*****--KTSPTV*****ASDPAG*****--PSYAAATLQASSAASSA*****SPV*****SRAIG*****STSKPQ*****EP*****PKGRRKLDL*****NO*****EKK*****TPSKPPAQLSPS 231
gi|73948237|ref|XP_533653.2|RWDRVKIVCSQ*****PYSKDS*****PYGLSFIRFHSAPDKEEVEAS*****PQK*****--VT*****KLGFQFRVKEEDSANS*****-LRPGALFFSRIN*****--KTSPTV*****ASDPAG*****--PSYAAATLQASSAASSA*****SPV*****SRAIG*****STSKPQ*****EP*****PKGRRKLDL*****NO*****EKK*****TPSKPPAQLSPS 291
gi|51571935|ref|NP_001003988.1|KWDRVKIVCSQ*****PYSKTI*****AYGIS*****FIKLS*****HPD*****GN*****EAP*****VS*****T*****PP-KLTKLGFQFRVKEEDS*****PSAGSN*****VOPGALFFSRDT*****SAK*****SST*****GLK*****VSPQ*****NERLS*****YAAAL*****KE-GS*****STHT*****PSAD*****TQQA*****PV*****KR*****KFE*****FSKERLEA*****GPPAK*****KPS*****SASAET*****TPK 270
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300

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gi|56118250|ref|NP_033558.2|TLKRPKLSVPSRTPAAAPAS*****TPA*****RAV*****PGKPRGEGT*****EP*****RGART*****GP*****QELGKILQ*****GVVVVLSG*****FN*****FRSEL*****RDKALEL*****GAKYR*****PDWTP*****DS*****THL*****ICAFAN*****PKYS*****QV*****LGGLGGR*****IVR*****KEWVLD*****CH*****HMRRL*****LP*****RRY*****LMAGL*****GSSE*****DEGDS*****SHS 418
gi|16758176|ref|NP_445887.1|ALKRPKLPVPSRTPAAAPAS*****TPA*****RAV*****PGKPRGEGT*****EP*****RGARAG*****QELGKILQ*****GVVVVLSG*****FN*****FRSEL*****RDKALEL*****GAKYR*****PDWTP*****DS*****THL*****ICAFAN*****PKYS*****QV*****LGGLGGR*****IVR*****KEWVLD*****CH*****MRRL*****LP*****RRY*****LMAGL*****GSSE*****DEGDS*****SHS 418
gi|190684675|ref|NP_006288.2|VPKRPKLPAPTRTPATAPV*****PARA*****CAV*****TGKPRGEGT*****EP*****RRPRAG*****PEELGKILQ*****GVVVVLSG*****FN*****FRSEL*****RDKALEL*****GAKYR*****PDWTR*****DS*****THL*****ICAFAN*****PKYS*****QV*****LGGLGGR*****IVR*****KEWVLD*****CH*****MRRL*****LP*****RRY*****LMAGP*****GSSE*****EDEA*****SHS 418
gi|114677628|ref|XP_512717.2|VPKRPKLPAPTRTPATAPV*****PARA*****CAV*****TGKPRGEGT*****EP*****RRPRAG*****PEELGKILQ*****GVVVVLSG*****FN*****FRSEL*****RDKALEL*****GAKYR*****PDWTR*****DS*****THL*****ICAFAN*****PKYS*****QV*****LGGLGGR*****IVR*****KEWVLD*****CH*****MRRL*****LP*****RRY*****LMAGP*****GSSE*****EDEA*****SHS 381
gi|73948237|ref|XP_533653.2|AIKRPKPPAPTRTPAT*****PVP*****APARG*****TV*****PGKTR*****-EGAE*****PRGPRAG*****QELGKILQ*****GVVVVLSG*****FN*****FRSEL*****RDKALEL*****GAKYR*****PDWTP*****DS*****THL*****ICAFAN*****PKYS*****QV*****LGGLGGR*****IVR*****KEWVLD*****CH*****MRRL*****LP*****RRY*****LMAGP*****GSSE*****DEGDS*****SHS 439
gi|51571935|ref|NP_001003988.1|AKARSSMG*****TS*****PS*****SRAS*****PAQK*****SD*****KRE*****EP*****TK*****PE*****SK*****KPK*****PK*****SS*****ES*****V*****FN*****IL*****EG*****VV*****FVLSG*****FN*****FR*****AD*****LR*****DKAL*****AL*****GAR*****YR*****PDWTP*****DA*****THL*****ICAFAN*****PKYS*****QV*****KAAG*****GI*****IVR*****KEWVMD*****CH*****NK*****QK*****IS*****CK*****RYL*****MD*****GA*****ESS*****ES*****EA*****QDE 420
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450

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gi|56118250|ref|NP_033558.2|ESGEDEAPKLPQKRPOP*****KAK*****-TQAAG*****PSS*****PPR*****PPT*****PKET*****KA*****PS*****PGP*****DN*****SD*****TEGEE*****SEGRD*****NGAED*****SG-DTEDEL*****RRVAK*****QRE*****Q*****PPAPEEN*****---GED*****PYAG*****ST*****DEN*****ID*****SET*****PSEA*****-DL*****PIPEL*****PDF*****FGK*****HFFLY*****GFF*****PGDERRR*****LIR 562
gi|16758176|ref|NP_445887.1|ESGEDEAPKLPKRPOP*****KAK*****-TQAAG*****PSS*****PPR*****PPT*****PEET*****KA*****PS*****PGP*****DN*****SD*****TEGEE*****SEGRD*****NGAED*****SG-DTEDEL*****RRVAK*****QRE*****Q*****PPAPEEN*****---GED*****PYAG*****ST*****DEN*****ID*****SEAP*****PSEA*****-DL*****PIPEL*****PDF*****FGK*****HFFLY*****GFF*****PGDERRR*****LIR 562
gi|190684675|ref|NP_006288.2|GSGDEAPKLPQKRPOT*****TK*****TP*****TQAAG*****PSS*****PK*****PP*****T*****PEET*****KA*****AS*****PV*****LQED*****ID*****IEGV*****QSE*****GD*****NGAED*****SG-DTEDEL*****RRVAK*****QRE*****Q*****PPAPEEN*****---GED*****PYAG*****ST*****DEN*****ID*****SEEH*****QEP*****DL*****VP*****EL*****PDF*****FGK*****HFFLY*****GFF*****PGDERRR*****LIR 564
gi|114677628|ref|XP_512717.2|GSGDEAPKLPQKRPOT*****TK*****TP*****TQAAG*****PSS*****PK*****PP*****T*****PEET*****KA*****AS*****PV*****LQED*****ID*****IEGV*****QSE*****GD*****NGAED*****SG-DTEDEL*****RRVAK*****QRE*****Q*****PPAPEEN*****---GED*****PYAG*****ST*****DEN*****ID*****SEEH*****QEP*****DL*****VP*****EL*****PDF*****FGK*****HFFLY*****GFF*****PGDERRR*****LIR 527
gi|73948237|ref|XP_533653.2|GSSGDEAPKLPQKR*****POT*****TK*****LQ*****AAG*****PSS*****PK*****PP*****T*****PEE*****TK*****AS*****PSP*****G*****PD*****TE*****SEGE*****SEEG*****NGAED*****SG-DTEDEL*****RRVAK*****QRE*****Q*****PPD*****QEN*****---GED*****PYAG*****ST*****DEN*****ID*****HG*****PP*****ED*****LV*****EL*****PDF*****FGK*****HFFLY*****GFF*****PGDERRR*****LIR 585
gi|51571935|ref|NP_001003988.1|SEET*****PKAK*****TE*****PKK*****VP*****TE*****PK*****---Q*****Q*****VE*****EE*****---EE*****EY*****GG*****S*****DE*****GG*****SD*****GS*****MD*****TE*****DEL*****NR*****VE*****MS*****RR*****KK*****AAE*****SAD*****KG*****NE*****ED*****Y*****GG*****S*****DE*****ND*****AE*****---EED*****K*****PIPEL*****PDF*****FL*****KG*****RF*****LY*****GK*****FP*****DN*****Q*****RLL*****LR 548
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600

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gi|56118250|ref|NP_033558.2|YV*****YAF*****NGELED*****YMS*****ERV*****Q*****F*****AI*****TA*****QEWDP*****PN*****FEEAL*****MEN*****PL*****AFV*****RR*****PR*****WI*****YS*****CNEK*****Q*****KLL*****PH*****QLY*****GVV*****PQA 631
gi|16758176|ref|NP_445887.1|YV*****YAF*****NGELED*****YMS*****DRV*****Q*****F*****VI*****TA*****QEWDP*****PN*****FEEAL*****MEN*****PL*****AFV*****RR*****PR*****WI*****YS*****CNEK*****Q*****KLL*****PH*****QLY*****GVV*****PQA 631
gi|190684675|ref|NP_006288.2|YV*****YAF*****NGELED*****YMS*****DRV*****Q*****F*****VI*****TA*****QEWDP*****PS*****FEEAL*****MEN*****PL*****AFV*****RR*****PR*****WI*****YS*****CNEK*****Q*****KLL*****PH*****QLY*****GVV*****PQA 633
gi|114677628|ref|XP_512717.2|YV*****YAF*****NGELED*****YMS*****DRV*****Q*****F*****VI*****TA*****QEWDP*****PS*****FEEAL*****MEN*****PL*****AFV*****RR*****PR*****WI*****YS*****CNEK*****Q*****KLL*****PH*****QLY*****GVV*****PQA 596
gi|73948237|ref|XP_533653.2|YV*****YAF*****NGELED*****YMS*****DRV*****Q*****F*****VI*****TA*****QEWDP*****PS*****FEEAL*****MEN*****PL*****SV*****FV*****RR*****PR*****WI*****YS*****CNEK*****Q*****KLL*****PH*****QLY*****GVV*****PQA 654
gi|51571935|ref|NP_001003988.1|YI*****YAF*****NGAV*****ED*****YMS*****EKV*****Q*****F*****VI*****TE*****EGWDD*****S*****FEDAL*****MEN*****SL*****SV*****K*****PT*****WIF*****AI*****ND*****RQ*****KML*****PY*****QY*****TV*****VP-- 615
.....610.....620.....630.....640.....650.....660

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