QUERY	40  40  40  40  40  40  40  40  40  40
UniRef90_P11025 UniRef90_G3WEX2 UniRef90_UPI0003AFE419 UniRef90_UPI0003331BBB	N WT A E E K Q A I S T I WA K I D V E E V G A G A L S R L L V V Y P W T Q R H F T A E E K A A I T G L WG K V N V E E A G G E A L G R L L V I Y P W T Q R H F T A F F K A A I T N I WK K V N V F F I G A F T L G R I L I V Y P W T Q R
UniRef90_I3N129 UniRef90_P86391 UniRef90_C5HYH6	H F T A E D K A A I T S M W R K V N V E E A G G E T L G R L L V V Y P W T Q R H W T A E E K Q L I T C L W G K V D V A T I G G E S L A G M F V M Y P W T Q R H L T A G E K S L V A S T W S K V N V D E V G G E V L G R L L V V Y P W T Q R H L T S E E K N C I T T I W S K V Q V D Q T G G E A L G R M L V V Y P W T T R N L T A A E K T Q V T N L W G K V N V K E L G G E A L S R L L V V Y P W T R R H L S D G E K N A I S T A W G K V N A A D L G A E A L G R L L V V Y P W T Q R H W S A E E K Q L I T G L W G K V N V E E C G A E A L A R L L I V Y P W T Q R H W T A E E K A A V A S L W G K V N V E E D G G E L G R L L V V P W T X R H W T A E E K A A V A S L W G K V N V E E D G G E L G R L L V V P W T X R
UniRef90_P02109 UniRef90_Q45XJ0 UniRef90_T1WI68	H
UniRef90_P14261 UniRef90_W5MMA8 UniRef90_UPI00046B3AEC	H WS A E E K QIL I T GIL WG K V N V E E C G A E A L A R L L I V Y P W T Q R H W T A A E R Q A I A S V W E K I S L E S V G S Q A L A R L L I V Y P W T Q R Q F T A _ E K A A V A S L WG K V N V E E L G G E L L G R L L V V F P W T X R
UniRef90_P41332 UniRef90_P41332	WS A S E R S T I A N V WG Q I N I D E I G P Q A L A R V L I V V P W T Q R H WS A E E K Q L I T G L WG K V D V A E V G G F A L G R L L V V P W T Q R
UniRef90_UPI0003C16005 UniRef90_E3TCM4 UniRef90_P02007	WT A E E R K A I TSV WS KVN PEEV GHE A L TRL FI VYPWT QR WS QS E R S A I VD L WD K I NVD E I G P Q A L A R V L I VYP WT QR LT QA E K A A V T T I WA K V A I E S I G L E S L E R L F A S Y P Q T K T
UniRef90_F09907 UniRef90_UPI0003C16005 UniRef90_E3TCM4 UniRef90_P02007 UniRef90_C0H824 UniRef90_Q6S9E2 UniRef90_P02136	WT DAEKSTI SAVWGKVDI NEVGPLALARVLI VYPWT QR HWT DAERHI I ADLWGKI NHDELGGQALARLLI VYPWT QR HWT AEEKAVI NSVWQKVDVE QDGHEALT RLFI VYPWT QR
UniRef90_UPI00035A227A UniRef90_UPI000334155E UniRef90_Q10733	HLTDAEKALVTGLWGKVDVPVIGAESLARMLIVYPWTQR LTKTERTIVESMWSKVSVDSIGTETLERLFNSYPQTKT HWTAEERHYITSMWDKINVAEIGGESLARMLIVYPWTQK
UniRef90_I3IZ27 UniRef90_C3KJ57 UniRef90_UPI0001775CC5 UniRef90_P02076	WSDNERSAITSEWGKI DVGEI GPQALTRELT VYPWAQR WSDNERATI NSI FSGLDYEEVGPSALGR <mark>CLVV</mark> YPWTKR LTKSERTLI MSLWDKVSSEAI GTEALERLFSSYPQTKT
UniRef90_F6VE37 UniRef90_Q14473 UniRef90_U5KNU7	Q L S G E E K T A I L A L W G K V N E E E I G G E A L S R L L I V Y P W T Q R H L T P E E K S A V T A L W G K V N V D E V G G E A L G R L L V V Y P W T Q R H L S A E E K A A V T A L W G K V N V D E V G G E T L G R L L V V Y P W T Q R
UniRef90_P80271 UniRef90_I1Y926 UniRef90_P02001	WT D F E R A T I Q D L F S K M D Y E T V G P A T L T R T V I V Y P W T L R L T A E D K K L I Q Q T W G K L G G E E L G A E S L W R M F H S Y P P T K T L T A E D K K L I Q Q A W E K A H Q E E F G A E A L T R M F T T Y P Q T K T
UniRef90_P07433 UniRef90_P02139 UniRef90_F6YMJ4 UniRef90_W5LAM7	WT DAERSAII JAL WGKL NPDEL GPEAL ARCLI VYPWT QR LTKSDKASII ANI WSKLAAEAL GREETLER LELTFPQTKT
UniRef90_C3KJ57 UniRef90_UPl0001775CC5 UniRef90_P02076 UniRef90_P02076 UniRef90_G14473 UniRef90_U5KNU7 UniRef90_P80271 UniRef90_P80271 UniRef90_P02001 UniRef90_P02001 UniRef90_P07433 UniRef90_P02139 UniRef90_F6YMJ4 UniRef90_W5LAM7 UniRef90_U5W5LAM7 UniRef90_U5W5LAM7 UniRef90_U5W5LAM7 UniRef90_U5W5LAM7 UniRef90_U5W5LAM7 UniRef90_U5M5W5W5U5W5W5W5W5W5W5W5W5W5W5W5W5W5W5W5	H WT A E E K Q L I A N C W S K V D I G Q I G G D A L A C L L C V Y P W T Q R L T K T D K A A V K A L W N K L S V D V I G A E A F G R M L L V Y P Q T K I W T D Q E R A Y I Q D I F S K L N Y E E A C P K A L Q R T L I V Y P W T Q R
UniRef90_UPI00022B72AA	WT D X E R A A I T S L WG K I DVG E I G P Q A L A R L L I V Y P WT Q R L S D K D K A A V K A I WN K I S A DV I G A D A M G R M L V V Y P Q T K T L T K S E K A L I M S I WD K M S A D A I G T E T L E R L F S S Y L P T K T
UniRef90_P84610 UniRef90_Q6T497 UniRef90_UPI0004442C09 UniRef90_P19789	WTAAERRHVEAVWSKI DII DIVCGPLAL QRCLI VYPWI QR LTKRDKATVKAFWDKVKVEDI GVQAL SRLL V VYPQTKT LTKSERAL I LAMWAKMKMEELGTETLHRLFCSFPQTKT LSAADKTNVKGLFAKIHGDDYGAETLDRMFTVYPQTKT
UniRef90_P07429 UniRef90_UPI0003B553FE UniRef90_A9UM89	L S D K D K S R V K A L W A K A K A G E L G G E A L G R M L V A Y P Q T K T WT D F E K A T I Q D I F A K A D Y D V I G P Q A L A R C L I V Y P W T Q R
UniRef90_P11748 UniRef90_P02092 UniRef90_A4ZQG8	L S D K D K S T V K A L WG K I S A D A L G A D A L G R M L A V Y P Q T K T H L T D A E K A A I S G L WG K V B A B A A G A Z A L G R L L V V Y P W T Z R L S A E D K A N V K T V WS K I G G H E Y G A E A L G R M F E S H P T T K T L S S G D K A N V K S V WS K V H L E D Y G A E T L D R M F T V F P Q T K T
UniRef90_Q10732 UniRef90_UPI0002034AF2 UniRef90_Q4RHD1 UniRef90_C0HJE0	LSSGDKANVKSVWSKVHLEDYGAETLDRMFTVFPQTKT  KSTWRNVVPKPWPG LLIVYPWTQR  LSTKDKETVRAFWAKVNREEIGASALCRLLSVYPQTKT  LSEADKSNVKGIWSKAHLEDYGAETLERLFFVYPQTKI
UniRef90_F7GY95 UniRef90_UPI0003944CCA UniRef90_UPI00044436D5	LTKTERTI I VISMWAKI SADTI GTETILERMFLISFPTTKT LSAKDKETVKAF WAKVSAGDI GSDAVARMI TVVYPQTKT
UniRef90_W5LAT4 UniRef90_P09904 UniRef90_K7N5M5	L T A K D M A T V K T L WG K I K S D E I G A E A L G R L L T V Y P Q T K T L S P A D K T N V K A A WA K V H A A D F G A E A L E R M F M S F P S T K T L S D K D K A A V K L W S K I S K D A I G N D A L S R M I V V Y P Q T K T W T N F E R A T I K D I F S K L E Y D V V G P A T L A R C L V V Y P W T Q R L N A G D K A N V K A V WN K V H V E E Y G A E T L E R M F T V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K E A V R A F W G K V K S G A I G T D A A L S R M L V V Y P Q T K T L T A K D K T A V T A
UniRef90_P23018 UniRef90_P13273 UniRef90_C3KID2 UniRef90_I3IZ10	
UniRef90_131210 UniRef90_C1BW51 UniRef90_P80946 UniRef90_UP100045D5A6F	USAKDKANVKSLWTKI KSDDI GEQAFSRML VVYPQTKT
UniRef90_G5CUP5 UniRef90_P85081 UniRef90_P85083	LSSADKANVKAAWGKVKAGDYGAEALERTFLAFPSTKT QWSDAERAAITSWWEKIDVNEIGPQALTRLLIVYPWTQR LSTKDKETVKDLWGHISADAIGADALGRLLVVYPQTKI LSTKDKDTVTAFWGKVKAGDIGTDALSRMLVVYPQTKT
UniRef90_P29625 UniRef90_I3IZ43 UniRef90_P80270	LSTKDKDTVTAFWGKVKAGDIGTDALSRMLVVYPQTKT NWTKTEKATITDIFSHLDYDDIGPKALSRCLIVYPWTQR LSSKDKTVVKTFWGKVDSKEIGGEALGRMLVAYPQTKT LSDKDKNTVRALWAKISADVIGAEALARMLTVYPPQTKT LSAKDKAAVRGFWAKIAPEQIGNEAFSRLLVYPQTKT LTDAEKKEVTSLWGKAHAEEYGAEALERLFLSFPTTKT
UniRef90_F1Q6I6 UniRef90_P01977 UniRef90_C8YNR8 UniRef90_UPI0003ABC90C	WIFFERDINKDIESKINDYDIVVIGPAAILIR <mark>C</mark> IVVIYPWIRR
UniRef90_P86879 UniRef90_Q9PVL9 UniRef90_C1BY22	RLLVVYPWTQR WTDKERAVILGIFSGLDYEDIGPKALVRCLIVYPWTQR LTAADKALIVSLWGKIHTEALGAEALERMFESFPQSKT WTTAERNAIVGLWGKIGVDEIGHQAFARCLIVFPWTQR
UniRef90_P11896 UniRef90_M3ZD78 UniRef90_P56250	L
UniRef90_UPI0001D37DC1 UniRef90_V5N6P1	L T K T E R T L I V S M W A K I S A D T I G T E T L E R L F T V Y P S T K G L S E N D K Q M V K T L W A K I S A D Q L G C E A L C R M F L V F P Q T K T

QUERY UniRef90_P11025	50 60 70 80 FFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDAIKHLDD FFDSFGNLSSASAVMGNPKVKAHGKKVLTSFGEGVKNMDN
UniRef90_G3WEX2 UniRef90_UPI0003AFE419 UniRef90_UPI0003331BBB UniRef90_I3N129	80 DDDN DDN DDN DDN DDN DDN DDN DDN DDN D
UniRef90_P86391 UniRef90_C5HYH6 UniRef90_P02109	LFSEFGNLSSPTAIL GNPKVKAHGKKVLTAFGDAIRNLDNFFTSFGDLSSASAIMGNAKVQAHGKKVLKSFAEGLNHLDDFFGSFGDLSSPGAVMSNSKVQAHGAKVLTSFGEAVKHLDN
UniRef90_Q45XJ0 UniRef90_T1WI68 UniRef90_P14261 UniRef90_W5MMA8	FFTSFGDLSTAEAVLHNAKVLAHGEKVLTSFGEGLKHLDN FFTSFGDLSSASAVMSNDKVKAHGKKVLDSFSNGLKHLDN FFSSFGNLSSPTAI I GNPKVPPHGRKFFTSFGEPVKNLDN YFSSFGNLSSAAAI LGNPKVKHHGKTVLTALGQAVKNMDN
UniRef90_UPI00046B3AEC UniRef90_B0JZZ3 UniRef90_D6R731	FFDSFGNLSSDSAIMGNPRVKAHGKKVLTFFGKVVMHMDE YFSSFGNLSNVTAVSGNAKVRAHGNKVLSAVGNAIAHLDN YFGTFGNLSSAAAIQGNPKVAQHGKTVLNALGKAVQNMDD
UniRef90_P41332 UniRef90_P09907 UniRef90_UPI0003C16005 UniRef90_E3TCM4	FFDSFGDLSSANAII LON V KAHGKKVLI SFGEAI KHLDS FFDSFGDLSTPAAV LGNAKVKAHGKKVLI SFGDGV HNLDN YFSTFGSLSSSTVI ARNFKVQQHAAKVI NALTEAI RNI DN YFGKFGNLNSVAAI LGNPKVTAQGKVVLNALDNAVKNLDN
UniRef90_P02007 UniRef90_C0H824 UniRef90_Q6S9E2 UniRef90_P02136	Y F P H F D V S Q G S V Q L R G H G S K V L N A I G E A V K N I D D Y F G S F G D V S T P A A I M G N P K V A A H G K V V C G A L D K A V K N M G N Y F S S F G N L S N A A A I I G N P K V A A H G K V V L G A L D N A V L N L D N Y F S T F G N L S S P A A I I A G N P K V A A H G K V V L G A L D N A V L N L D N D N Y F S T F G N L S S P A A I A G N P K V A A H G K V V L G A L D N A V L N N L D N D N Y F S T F G N L S S P A A I A G N P K V A A H G K V V L G A L D N A V L N N L D N D N Y F S T F G N L S S P A A I A G N P K V A A H G K V V L G A L D N A V L N N L D N D N Y F S T F G N L S S P A A I A G N P K V A A H G K V V L G A L D N A V L N N L D N D N Y F S T F G N L S S P A A I A G N P K V A A H G K V V L G A L D N A V L N N L D N D N T T T T T T T T T T T T T T T T
UniRef90_UPI00035A227A UniRef90_UPI000334155E UniRef90_Q10733	FFEHFGDLSSASAVMSNAQVKAHGKKVIHSFADGLKHLDN YFPHF DLHPGSAQLRAHGSKVVAAVGEAVKHMDD FFSDFGNLTSSSAIMHNVKIQEHGKKVLNSFGSAVKNMDH
UniRef90_I3IZ27 UniRef90_C3KJ57 UniRef90_UPI0001775CC5 UniRef90_P02076	HFTNFGNLSINAAI MGNPKVAQHGRIVMGGLENAVKNLDN HFTNFGNLSNAAAI QGNPKVAAHGIKVLHGLDMALKNMDN YFPHF DLHPGSAQLRAHGAKVAAAVGEAVRNVDN FFEHFGDLSSADAVMNNAKVKAHGKKVLBSFSNGMKHLDD
UniRef90_F6VE37 UniRef90_Q14473 UniRef90_U5KNU7 UniRef90_P80271	FFDSFGHLTTSAAVTGNPRVKAHGKKVLHSFGEGVHHLDN FFESFGDLSTPDAVMGNPKVKAHGKKVLGAFSDGLAHLDN FFETFGDLSSASAVMGHAEVKTHGKKVMNAFSDGLHHDDY
UniRef90_F80271 UniRef90_I1Y926 UniRef90_P02001 UniRef90_P07433	YFPHF DLGKGSAQVKAHGKKVAAALVEAANHIDD YFPHF DLSPGSDQVRGHGKKVLGALGNAVKNVDN YFSSFGNLGSAEALFHNEAVAAHGEKVVTSVGEALKHMDD
UniRef90_P02139 UniRef90_F6YMJ4 UniRef90_W5LAM7 UniRef90_L7MZW5	FFASYGNLSSPAAI MGNPKVAAHGRTVEGGLMRAI KDMDN YFPHF DLSPGSDQLKAHGSKVMGAI GDAVKNIDN YFGNFGNLYNAAALIGNPKVAAHGRTVEGGLMRAI KDMDN AHGKKVLHAGLDKAVKNMDN FFPDFGNLSNA
UniRef90_Q4S4F1 UniRef90_Q8UW94 UniRef90_O13164 UniRef90_P86882	Y F P H F
UniRef90_UPI00022B72AA UniRef90_P84610 UniRef90_Q6T497	YFPHF DLHPGSPQLRTHGSKVVAALGDAVKHIDN YFGEFGDLSTDAAIVGNPKVAAHGVVALTGLRTALDHMDE YFAHWKDLSPGSEP VRKHGKTIMTGVGSAVSMLDD
UniRef90_UPI0004442C09 UniRef90_P19789 UniRef90_P07429 UniRef90_UPI0003B553FE	YFPHF DVSHGSAQIKAHGKKVVAALVEAVNHIDD YESSEGNUSSUEAUFHNAAVATHGEKVLTSUGFAUKHMDD
UniRef90_A9UM89 UniRef90_P11748 UniRef90_P02092	YFSHWGDLSP QSPKVKKHGATIMGALGKAVKGIDD YFAKFGNLYNAAALLGNPMVAAHGKTVLKGLELAVKNMDN YFSHWPDMSP GSGPVKAHGKKVMGGVALAVTKIDD FFZHFGBLSSASAVMGNAQVKAHGKKVLHAFADGLKHLDB
UniRef90_A4ZQG8 UniRef90_Q10732 UniRef90_UPI0002034AF2 UniRef90_Q4RHD1	FFZHFGBLSSASAVMGNAQVKAHGKKVIHAFADGLKHLDBYFLHF DVSHGSAQVKTQGAKVTDALATAADNLDD YFSHF DVHHGSTQIRSHGKKVMLALGDAVNHIDD FFASFGNLSSPTALMGNPRVRAHGKKVLSSFGEAVKNLDN YFSHWKDQSP NSASAKKHGLTIMNAVGDAVSKIDD YFPHF DLTHNSAQIRGHGKKVFLALHDAVNHIDD
UniRef90_C0HJE0 UniRef90_F7GY95 UniRef90_UPI0003944CCA UniRef90_UPI00044436D5	Y F S H WK DLS P G S A P VR K H G G L V L A S L T D A V N K L D D Y F S H WP D M S A G S G P V T K H G G K K L M G G V A K M D D
UniRef90_W5LAT4 UniRef90_P09904 UniRef90_K7N5M5 UniRef90_P23018	Y F S H F D L G H N S T Q V K G H G K K V A D A L T K A V G H L D T
UniRef90_P13273 UniRef90_C3KID2 UniRef90_I3IZ10	Y F A H W
UniRef90_C1BW51 UniRef90_P80946 UniRef90_UPI00045D5A6F UniRef90_G5CUP5	Y F S H W A DL K P G S A Q V I K H G D T I MN K I D E C V N H M E D H F A N F G N L S T A A A I MN N D K V A K H G T T V M G G L D R A I Q N M D D Y F P H L D L S P G S A Q V K A H G R K V A D A L T H A V G H L D D H F A T F G N L S T N A A I L G N P L V A E H G K T V M G G L D R A V K N M D D
	YFLHW PDLSPNSPSVKNHGKNIMSGIALAVTKIDD YFSHWK ELGPGSPPVQKHGMTVMKGVGEAVAKIDD YFSGFGNLYNAAAIIGNAKVAEHGIKVLHGDLGLKKMDN YFSGFGNLYNAAAIIGNAKVAEHGIKVLHGDLGLKKMDN
UniRef90_P80270 UniRef90_F1Q616 UniRef90_P01977	YFILHW         PDLSPNSPSVKNHGKNI MSGI ALAVTKI DD           YFSHWK         ELGPGSPPVQKHGMTVMKGVGEAVAKI DD           YFSGFGNLYNAAAI I GNAKVAEHGI KVLHGL DLGL KKMDN           YFSHWGD         LTPSCPQVKKHGAVI MAAVGKAVKNI DD           YFTHWTDLSPSSTSVKN         HGKNI MVGVSLAVSKMDD           YFSHW         NDLAPGSPSVKKQGKKI VGGLGLAVDKI DD           YFSHM         DLSKGSAQVKAHGKRVADALTTAAGHFND           YFGNFGALYNAEAI MGNEMVANHGKKVLHGLDRAVKNMDH           FFESFGDLSSPDAVMGNPKVKAHGKKVLGAFSDGLNHLDN           YFGTFGNLSTPAAISGNPKI AAHGVKVLHGLDMALQHMDN           YFSHF
UniRef90_C8YNR8 UniRef90_UPI0003ABC90C UniRef90_P86879 UniRef90_Q9PVL9	Y F G N F G A L   Y N A E A I   M G N E M V A N H G K K V L H G L D R A V K N M D H F F E S F G D L S S P D A V M G N P K V K A H G K K V L G A F S D G L N H L D N Y F G T F G N L S T P A A L S G N P K I A A H G V K V L H G L D M A L Q H M D N Y F S H F D L H H G S A D V K S H G A K V I N A I G I A A O H V D D
UniRef90_C1BY22 UniRef90_P11896 UniRef90_M3ZD78	Y F S F G N L S T P A A I M G N P N V A K H G R T V I H G L D K A I Q N L D D Y F S H F D L S P G S A D V K R H G G K V L S A L G F A A K H L D S
UniRef90_P56250 UniRef90_UPI0001D37DC1 UniRef90_V5N6P1	Y F S H W K D L S P G S A P V V K H G A T V M A G V G D A V A K I D D Y F S E W G Q D L G P Q T P Q V R N H G A V L M A A V G K A V K S L D N S A C Q D A T Q L L S H G Q R M L A A V G A A V Q H M D D Y F A H W P D L S L G S D S V K K H G K K V M D S V G E A V N N I D N

QUERY	100  100  100  100  100  100  100  100
UniRef90_P11025 UniRef90_G3WEX2	LKGTFAKLSELHCDKLHVDPENFRLLGNVLIIVLASRFGK VKATFDKLSELHSDKLHVDPQNFRLLGDNLIIVLAATMGK LKDAFAKLSELHCDKLHMDPENFRLLGDVIVIVLATHSGR
UniRef90_UPI0003AFE419 UniRef90_UPI0003331BBB UniRef90_I3N129	L K G T F A K L S E L H C D K L H V D P E N F R L L G N V L I I V L A S R F G K V K A T F D K L S E L H S D K L H V D P Q N F R L L G D N L I I V L A A T M G K L K D A F A K L S E L H C D K L H M D P E N F R L L G N M L V I V L A G H Y G K L K G A F S Q L S E L H C D K L H V D P E N F R L L G N M L V I I M A K H F G K L K G A F S Q L S E L H C D K L H V D P E N F R L L G N M L V I I M A K H F G K L K G A F A Q L S E L H C D K L H V D P E N F R L L G N V L M C V M A R H L R A L K G A F A Q L S E L H C D K L H V D P E N F R L L G N V L M C V M A R H L R A L K G A F A Q L S E L H C D K L H V D P E N F R L L G N V L V I V L A E H F G K L K G T F A D L S E L H C D K L H V D P E N F R L L G N M I V I V L A R H F G K L K G T F A S L S E L H C D K L H V D P E N F K L L G N M I V I V L A A R H F G K L K G T F A S L S E L H C D K L H V D P E N F K L L G N M I V I V L A S H F A R I K N T Y A K L S E L H C D K L H V D P E N F R L L G D L L I I V L A A E L G A L K A T F S K L S E L H S E K L Q V E P E N F R L L G D V L V I V L A S H F A R L K A T F S K L S E L H S E K L H V D P E N F R L L G N V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T L H D L S E T H A F K L H V D P E N F K R L G G L V L V I V L A S K L G T L T L T T T T T T T T T T T T T T
UniRef90_P86391 UniRef90_C5HYH6	I K D T F A K L S E L H C D K L H V D P E N F K L L G K V L L I V L A G H Y G K L K G A F A Q L S E L H C D K L H V D P E N F R L L G N V L M C V M A R H L R A
UniRef90_P02109 UniRef90_Q45XJ0 UniRef90_T1WI68	L K G A F A Q L S E L H C D K L H V D P E N F R L L G N V L M C V M A R H L R A L K G T Y A K L S E L H C D K L H V D P E N F K M L G N I I V I C L A E H F G K L K G T F A D L S E L H C D K L H V D P E N F R L L G N V L V I V L A R H F G K L K G T F A S L S E L H C D K L H V D P E N F K L L G N M I V I V L A H H L G K
UniRef90_P14261 UniRef90_W5MMA8	LKGTFASLSELHCDKLHVDPENFKLLGNMIVIVLAHHLGKIKNTYAKLSELHCEKLQVEPENFRLLGDLLIIVLASHFARIKATFSKLSELHSEKLHVDPGNFRMLGETLIIVLAAELGA
UniRef90_UPI00046B3AEC UniRef90_B0JZZ3 UniRef90_D6R731	I K D T F A K L S E L H C D K L H V D P E N F K L L G K V L L I V L A G H Y G K L K G A F A Q L S E L H C D K L H V D P E N F R L L G N V L M C V M A R H L R A L K G T Y A K L S E L H C D K L H V D P E N F R L L G N V L V I V L A E H F G K L K G T F A D L S E L H C D K L H V D P E N F R L L G N V L V I V L A R H F G K L K G T F A S L S E L H C D K L H V D P E N F K L L G N M I V I V L A H H L G K I K N T Y A K L S E L H C E K L Q V E P E N F R L L G D L L I I V L A S H F A R I K A T F S K L S E L H S E K L H V D P G N F R M L G D T L I I V L A A E L G A L K D T F A K L S E L H C N K L H V D S E N F R L L G N V I L I V L A T H F S K V K G T L H D L S E T H A F K L H V D P E N F K R L G E V L V I V L A S K L G T Y S Q L S Q L H C E K L N V D P D N F R L L A D C L T I V L A G H H G K L K G T Y A A L S E L H C E K L H V D P E N F R L L G N I L I I V L A G H H G K L K G T Y A A L S E L H C E K L H V D P E N F R L L G N L I I T L S E K L G S L K G T Y S Q L S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K G T Y S Q L S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K G T Y S Q L S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K G T Y S Q L S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K G T Y S X K L S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K C S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K C S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K C S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K C S C L H C E K L H V D P E N F R L L G N L L I T L S E K L G S L K C S C L H C E K L H V D P E N F K L L G N L L I T L S E K L G S L K C S C L H C E K L H V D P E N F K L L G N L L I T L V L A N K F G A L S C L H C E K L H V D P E N F K L L G N T L I T L V L A N K F G A L S C L H C E K L H V D P E N F K L L G N T L T L T L X L A N K F G A L S C L H C E K L H V D P E N F K L L G N T L T L T L X L A N K F G A L S C L H C C N T L T L T L T L T L T L T L T L T L T
UniRef90_P41332 UniRef90_P09907	I KETFAKLSELHCEKLHVDPENFRLLGNTLII VLAGHHGK LKGTYAALSELHCDKLHVDPENFRLLGNVLVVVLAQHFGQ LKASFSDLSKLHFQKLHVDPENFKLLGKTLIITLSEKLGS
UniRef90_UPI0003C16005 UniRef90_E3TCM4 UniRef90_P02007	L K A S F S D L S K L H F Q K L H V D P E N F K L L G K T L I I T L S E K L G S I K E T Y S K L S Q L H C E I L S V D P D N F R L F A D C L T I V I A N K F G A I R G A L A K L S E L H A Y I L R V D P V N F K L L S H C I L C S V A A R Y P S I L A T Y K S L S E T H A N T L F V D P D N F R V L A D V L T I V I A A K F G A
UniRef90_C0H824 UniRef90_Q6S9E2	I LATYKSLSETHANTLEVDPDNFRVLADVLTIVI AAKFGA I KGLYTQLSTLHSEKLHVDPSNFTLLGDTETVTLAAN <u>F</u> GP
UniRef90_P02136 UniRef90_UPI00035A227A UniRef90_UPI000334155E	
UniRef90_Q10733 UniRef90_I3IZ27	L P G A L S K L S D L H A Y K L R V D P V N F K L L S H C L L V T L A C H L G G I K E T F A D L S K L H C E T L H V D P E N F K L L G S I L I I V L A M H F G K I K N T Y A N L S H M H S E K L H V D P D N F R V L A E C I S L C V A A K F G P
UniRef90_C3KJ57 UniRef90_UPl0001775CC5 UniRef90_P02076	L K A S F S D L S K L H F Q K L H V D P E N F K L L G K T L I I T L S E K L G S I K E T Y S K L S Q L H C E I L S V D P D N F R L F A D C L T I V I A N K F G A I R G A L A K L S E L H A Y I L R V D P D N F R V L A D V L T I V I A A K F G A I K G I Y T Q L S T L H S E K L H V D P S N F T L L G D T F T V T L A A N F G P V K G T L H D L S E E H A N E L H V D P E N F R R L G E V L I V V L G A K L G K L K G T F S T L S E L H C D K L H V D P E N F R L L G N M I I A L S H H L G K L P G A L S K L S D L H A Y K L R V D P D N F R V L A B C L L V T L A C H L G G I K E T F A D L S K L H C E T L H V D P E N F K L L G S I L I I V L A M H F G K I K N T Y A N L S H M H S E K L H V D P D N F R V L A E C I S L C V A A K F G P I K A T Y A D L S V L H S E K L H V D P D N F R V L S H C L L I S L A V R L P A L K G T F A Q L S E L H C D K L H V D P D N F R V L S H C L L I S L A V R L P A L K G T F A Q L S E L H C D K L H V D P D N F R V L S H C L L I S L A V R L P A L K G T F A Q L S E L H C D K L H V D P D N F R V L S H C L L I S L A V R L P A L K G T F A Q L S E L H C D K L H V D P D N F R V L S H C L L I S L A V R L P A L K G T F A Q L S E L H C D K L H V D P D N F R V L I G N V L D V V L A Y H F G K
UniRef90_F6VE37 UniRef90_Q14473	L P S A L S K L S E L H A Y V L R V D P V N F K L L S H C L L I S L A V R L P A L K G T F A Q L S E L H C D K L H V B P Z B F R X X X X X X X X X X X X X H H G S L K D T F A Q L S E L H C D K L H L D P E N F R L L G N V L D V V L A Y H F G K L K G T F A T L S E L H C D K L H V D P E N F K L L G N V L V V V V L S H H F G G I K N T Y A E L S K L H S E K L H V D P D N F R L L S D C L T I V V A A K M G K I A G A L S K L S D L H A Q K L R V D P V N F K L L G Q C F L V V V A S H H P A L S Q A M A E L S N L H A Y N L R V D P V N F K L L S Q C I Q V V L A V H M G K
UniRef90_U5KNU7 UniRef90_P80271	L MGT F A K L S E L H C D K L H V D P E N F K L L G N V L V V V L S H H F G G I K N T Y A E L S K L H S E K L H V D P D N F R L L S D C L T I V V A A K M G K
UniRef90_I1Y926 UniRef90_P02001 UniRef90_P07433	I KNTYAELSKLHSEKLHVDPDNFRLLSDCLTIVVAAAKMGKIAGALSKLSDLHAQKLRVDPVNFKLLGQCFLVVVAASHHPALSQAMAELSNLHAYNLRVDPVNFKLLSQCIQVVLAVHMGKIKGYYAELSKYHSETLHVDPNNFKRFGGCLSITLGHHFGE
UniRef90_P02139 UniRef90_F6YMJ4	I K G Y Y A E L S K Y H S E T L H V D P N N F K R F G G C L S I T L G H H F G E I K A T Y A P L S V M H S E K L H V D P D N F R L L A D C I T V C A A M K F G P V G S A L S K L S E L H A Y N L R V D P V N F K F L N H C M L V T L A V H F P N
UniRef90_W5LAM7 UniRef90_L7MZW5 UniRef90_Q4S4F1	I KETYAELSVLHSEKLHVDPDNFRTLIQICICIVTNHFVT I KDTFAKLSELHCDKLHVDPVNFNLLGDVLIVCLAAHFGK LTSGLQKLSEVHAFDLKVDPANFKILGQCVVVVTAMLFPK I KKTYAELSVLHSEKLHVDPDNFRLLADCLTIVIAATMGT I KGAYANLSKMHSEKIHVDPDNFRLLAEITTICLAAKFGP MTTGLKALSEKHAFQLRVDPSNFKILSHCILVVIAMMYPK
UniRef90_Q8UW94 UniRef90_O13164	I KKTYAELSVLHSEKLHVDPDNFRLLAD <mark>C</mark> LTIVIAATMGT IKGAYANLSKMHSEKIHVDPDNFRLLAEITTI <b>C</b> LAAKFGP MTTGLKALSE <u>K</u> HAFQLRVDP <u>S</u> NFKILSH <mark>C</mark> ILVVIAMMYPK
UniRef90_P86882 UniRef90_UPI00022B72AA UniRef90_P84610	MTTGLKALSEKHAFQLRVDPSNFKILSHCILVVIAMMYPK MEVALTKLSELHAYILRVDPVNFKLLSHCLLVTLAARFPA IKSTYAALSVLHSEKLHVDPDNFRLLCECLTIVVAGKMGK LKGGLLPLSELHAFTLRVDPANFKIFTHCILVVFANMFPL
UniRef90_Q6T497 UniRef90_UPI0004442C09	LKGGLLPLSELHAFTLRVDPANFKIETHCILVVFANMFPL VSGALARLSEMHAYLLRVDPVNFKLLSHCLLVTLATHFPA
UniRef90_P19789 UniRef90_P07429 UniRef90_UP10003B553FE	I   K G Y Y A QL   S K Y H S E T L H V D P Y N F K R F C S C T I I S M A Q T L Q E   L P G T L A A L S E L H A F K L R V D P A N F K I L G H S I V V V L A M Y F P G
UniRef90_A9UM89 UniRef90_P11748	I KATYADL SVL H SEKLH V D P D N F R L L A D C L TI V V A A Q M G A L T T G L G D L S E L H A F K M R V D P S N F K I L S H C I L V V V A K M F P K
UniRef90_P02092 UniRef90_A4ZQG8 UniRef90_Q10732	QPGALSDLBALLPS IIATALSALSDKHAHKLRVDPVNFKLLBHCLLVTLAAHLPS IIATALSALSDKHAHILRVDPVNFKLLBHCLLVVVARHHPT
UniRef90_UPI0002034AF2 UniRef90_Q4RHD1	I KNTYAKLSELHCDKLHVDPENFRLLGDLLIIVLASHFAR LKTGLFNLSELHAFTLRVDPANFKLLAQCMMVVLAIMYPA
UniRef90_C0HJE0 UniRef90_F7GY95 UniRef90_UPI0003944CCA	MPNALSALSDLHAHKLRVDPVNFKLLSGC LVTLAAHHPA LAESLLTLSELHAFTLRVDPANFKLLSGC LVTLAAHHPA
UniRef90_UPI00044436D5 UniRef90_W5LAT4 UniRef90_P09904	L S G G L L E L S E L H A F Q L R V D P A N F K I L A Q C L Q V V I A I M F P N L P G A L S Q L S E L H A Y K L R V D P A N F K L L A H N I I V V V G M M F P G
UniRef90_K7N5M5 UniRef90_P23018	LRAGLIDLSEQHAYKLRVDPANFKILSHCILVVISAMFPK IKNTYAELSVLHCDKLHVDPDNFQLLAECLTIVLAAQLGK
UniRef90_P13273 UniRef90_C3KID2 UniRef90_I3IZ10	L N A GLET L S BLI H A GT L R V D P V N F K F L N H C F L V V V A I H Q P S L N A GLET L S E L H A F T L R V D P A N F K T L A H N I L V V M A I M F P K
UniRef90_C1BW51 UniRef90_P80946	L VP F LS S L S E L H A T K L R V D P A N F K F L A H C L L V A V A A Y L P N I K N A Y R Q L S V M H S E K L H V D P D N F R L L A E H I T L C M A A K F G P
UniRef90_UPI00045D5A6F UniRef90_G5CUP5 UniRef90_P85081	IL P G A L IS E L IS N L H A R K L IR V ID P V IN F Q L L C H C L L V T L A R H Y P G I K N V Y T K L S V K H S E K I H V D P D N L R I F A Q L I S V C V A A K F G R I K S G I N A I S F O H A F Q I R V D P A N F K I I S H C I I V V I A I R F P H
UniRef90_P85083 UniRef90_P29625	LTAGLUNLSELHAFTLRVDPANFKILSHNILVVFALMFPH IEAAYADLSSLHSEKLHVDPDNFKLLSDCITIVLAAKLGS
UniRef90_l3lZ43 UniRef90_P80270 UniRef90_F1Q6l6	LIGHLSKLSELHATQLRVDPANFKILAHSIILVLGMYFPG LTAGLLELSEKHAFQLRVDPANFKLLSHCLLVVISIMFPK IFNGIINISELHAFQIRVDPANFKIISHCIIVVFAMIEPD
UniRef90_P01977 UniRef90_C8YNR8	MDSALSALSDLHAHKLRVDPVNFKLLAHCFLVVLARHHPA KESYCELSQLHSDQFHVDPDNFRLLADCLALALATQWGS
UniRef90_UPI0003ABC90C UniRef90_P86879 UniRef90_Q9PVL9	ME W
UniRef90_C1BY22 UniRef90_P11896	I KNTYAALSVKHSEKLHVDPDNFRLLAECI TVCVAAKLGP MDQALSKLSDLHAYNLRVDPGNFQLLSHCI QAVLAAHFPA
UniRef90_M3ZD78 UniRef90_P56250 UniRef90_UPI0001D37DC1	LTSGLLSLSELHAFTLRVDPSNFKILSHNILVVLALMFPTLVGGLSQLSELHAFKLRVDPANFKILAHNILVVSMYFPG
UniRef90_V5N6P1	L F G G L S S L S E L H A F Q L R I D P T N F K I L S H N I L V V I A N R F P D

QUERY	130 140 EFTPEVQASWQKMVTGVASALSSRYH
UniRef90 P11025	E E T P E V O A S WO K T V S G V S S A L G H K Y H
UniRef90_G3WEX2	DFTPEAQAAWQKILVIGIVVIASAILISRKYH
UniRef90_UPI0003AFE419 UniRef90_UPI0003331BBB	ECTPDMHAAWQKLLSGVATALAHKYH EFTPDVQAAWQKLVAGVAVALGNKYH
UniRef90_I3N129	EFTPEMQASWQKMVAGVASALAHKYH
UniRef90_I3N129 UniRef90_P86391 UniRef90_C5HYH6 UniRef90_P02109 UniRef90_Q45XJ0	D F T P A <mark>C</mark> H A A Y Q K L V N V V A H A L A R R Y H D F T P E A Q A A <mark>C</mark> Q K V V A G V A T A L A H K Y H
UniRef90_P02109	DFTPECQVAWQKLVAGVAHALAHKYH
UniRef90_Q45XJ0 UniRef90_T1WI68	
UniRef90_T1WI68 UniRef90_P14261 UniRef90_W5MMA8 UniRef90_UPI00046B3AFC	DFTPA <mark>C</mark> QFPWQK LV S VV AHA L PRKYH
UniRef90_W5MMA8	E F T P E L Q A A W Q K L L S V V S S A L S R Q Y Y E F T P Q M Q A S W Q K L T T A V A N S L A H K Y H
UniRef90_B0JZZ3	A F T P Q I  Q G A WE K <u>F  </u> V  A  V L V  D A  L  S Q G Y
UniRef90_D6R731 UniRef90_P41332	A F N P A V Q A T W Q K L L S L V V S A L T S R Y E F T P S T H A A F Q K L V R A V A H S L A R V Y H
UniRef90_P09907	E F T P E L Q A A Y Q K V V A G V A N A L A H K Y H
UniRef90_UPI0003C16005 UniRef90_E3TCM4	EFSPQIQAAWEKFMALVIDSLSRQY AFTPEIQATWQKFLAVV <u>V</u> A <u>AM</u> SSRY
UniRef90_E3TCM4 UniRef90_P02007 UniRef90_C0H824 UniRef90_Q6S9E2 UniRef90_P02136	DFTPEVHAAWDKFLSSISSVLTEKYR SFTPEIQATWQKFMKVVVAAMGSRY
UniRef90_C0H824 UniRef90_O6S9E2	S F T P E     Q A T W Q K F M K   V V V   A A M G S R Y S F T P E   V   H E T W Q K F   L   N   V V V   A A L   G K Q Y H
UniRef90_P02136	AFSPQVQHVWEKFIAVLVDALSHSYHEFTPCAQAAFQKVVAGVANSMLSRAH
UniRef90_UPI00035A227A UniRef90_UPI000334155E	DFTPAAHASLDKFLSSVSTVLTSKYR
UniRef90_Q10733	EPTPTWQAAWQKLVSAVAHALTLQYH
UniRef90_I3IZ27 UniRef90_C3KJ57	A F T P F T O A A F O K F II IAIV V V IS A II IG K O Y H
UniRef90_UPI0001775CC5	DFTAETHAAWDKFLCQVSAVLTEKYR
UniRef90_P02076 UniRef90_F6VE37	EFTPVLQAZFQKVVAGVANALAHRYH EFTPELQASYQKAVSGGAHALAHEYH
UniRef90_Q14473	EFTPPVQ
UniRef90_UPl0001775CC5 UniRef90_P02076 UniRef90_F6VE37 UniRef90_Q14473 UniRef90_U5KNU7 UniRef90_P80271 UniRef90_P80271 UniRef90_P14926 UniRef90_P02001 UniRef90_P07433	E F T P Q V Q A A W Q K V V S G L D N S M A H K Y H D F T G E V Q A A F Q K F L S V V V N S L G R Q Y H
UniRef90_I1Y926	L T P E V H A S L D K F L C A V G T V L T A K Y R D Y T P E V H A A F D K F L S A V S A V L A E K Y R
UniRef90_P02001 UniRef90_P07433	D Y T P E V H A A F D K F L S A V S A V L A E K Y R E Y T P E L H A A Y E H L F D A I A D A L G K G Y H
UniRet90_P02139	S F S P N V Q E A W Q K F L S V V V N A L K R Q Y H D L T A E T H A A W D K F L A L V T A V L T E K Y R
UniRef90_F6YMJ4 UniRef90_W5LAM7	G F I A DIVIQ A A F Q K F IL I
UniRef90_W5LAM7 UniRef90_L7MZW5 UniRef90_Q4S4F1	D F T P A C H A A Y Q K   L V   N S   V   A H G   L   S R R Y H
UniRef90_Q8UW94	SFTADIVIQAAWQKFILIAIVVVISAILI <mark>C</mark> RQYH
UniRef90_O13164 UniRef90_P86882	S F T P D F Q E A W Q K F E N A V V S A L G R Q Y H D F T P E A H V S M D K F F C G L S L A L A E K Y R
UniRef90_UPI00022B72AA	DETAFIVI <mark>H</mark> AAWDKEMSII VISSII I ITEKYR
UniRef90_P84610 UniRef90_Q6T497	KLSPEMQAAWQKYLCAVVSALGRQYH DFTPEVHVAMDKFLAAVSLSLAEKYR
UniRef90_UPI0004442C09	DFTAEAHEAWDKFMSLVSSVLTEKYR
UniRef90_P19789 UniRef90_P07429	DFTAEAHEAWDKFMSLVSSVLTEKYRALTPEVHASLDKFLCAVSTVLTAKYRDFTPELQAAFEKLFAALADALGKGYH
UniRef90_UPI0003B553FE	DFIPEIVI <mark>H</mark> LISIVEKFILIQ <u>NIVIAIL</u> IAILISEKYR
UniRef90_A9UM89 UniRef90_P11748	G F T P E V Q A A F Q K F I A V A V S A L G R Q Y H E F T P D A H V S L D K F L A S V A L A L A E R Y R
UniRef90_P02092	
UniRef90_A4ZQG8 UniRef90 Q10732	DFTPAVHASLDKFLASVSTVLTSKYR LFTPDVHVSLDKFMGTVSTVLTSKYR
UniRef90_UPI0002034AF2	D F T P A C Q F A W Q K   L V   N   V V   A H A   L   A R K Y H
UniRef90_Q4RHD1 UniRef90_C0HJE0	DFTPEVHVAMDKFLASLALALSEKYR ALTPEVHASLDKFL <mark>C</mark> AVSTVLTSKYR
UniRef90_F7GY95	E F T P A V H A S L D K F L A S V S T V L T S K Y R
UniRef90_UPI0003944CCA UniRef90_UPI00044436D5	D F T P E A H V A L D K F L S N V A L A L S E K Y R
UniRef90_W5LAT4 UniRef90_P09904	DESPEIVIHIVISII IDKEII IONII IA W <mark>C</mark> II IA ERVR
UniRef90_K7N5M5	E F T P E <u>A H V S L D K F L S G V S L A L S E R Y R</u>
UniRef90_P23018 UniRef90_P13273	E E T G E IVIO A A E O K E M A IV V V IS S II IG K O V H
UniRef90_C3KID2	E F T P E V H V A M D K F F C G V S L A L S E K Y R
UniRef90_I3IZ10 UniRef90_C1BW51	N F T A E IV I <mark>H</mark> A A F Q K F IL IA IV V V IS S IL IR R Q Y Y
UniRef90_P80946	DFTPDIHLSVDKFLQLVALALAEKYREFTADVQEAWQKFLMAVTSALARQYH
UniRef90_UPI00045D5A6F UniRef90_G5CUP5	DFSPAMQASLDKFLHHVTSALVSQYR
UniRef90_P85081	E F T P E <u>A H</u>  V A M D K F <u>F C</u> G V S L A L A E K Y R
UniRef90_P85083 UniRef90_P29625	D F T P E V H V S M D K F L A A L A R A L S E K Y R A F T A E T Q A T F Q K F L G A V M S A L G K Q Y H
UniRef90_I3IZ43	DFTPEVHVSVDKFFNNLAWALSERYR
UniRef90_P80270 UniRef90_F1Q6I6	F F G P F IV I <mark>H</mark> IV IS IV ID K F F A N II IA II IA II IS F R Y R
UniRef90_P01977	E F T P S A H A A M D K F L S R V A T V L T S K Y R
UniRef90_C8YNR8 UniRef90_UPI0003ABC90C	AFTPDTQAAFQKFLSVVVFSLGSQYH EFTPQVQAAYQKVVAGVANALAHKYH
UniRef90_P86879	C F T P D T QII  A F H K F  L  A  V V V  S A  L  G K Q Y
UniRef90_Q9PVL9 UniRef90_C1BY22	EFTPEAHAAFDKFLAAVSTVLTSKYR EFNADAHEAFHKFLAVVVSALGRQYH
UniRef90_P11896	D F T P Q C Q A A W D K F L A A V S A V L T S K Y R
UniRef90_M3ZD78 UniRef90_P56250	DFTPENHLSVDKFLAVVVASLRKQYH DFTPEVHLSVDKFLACLALALSEKYR
UniRef90_UPI0001D37DC1	E F T   V   E M Q <u>A</u> A <u>W</u> D K F   L   T G   V   A   V <u>V L  </u> T E K Y R
UniRef90_V5N6P1	DFSVEAHLSLEKFFARVALAMSDKYR

UniRef90_Q9I977 UniRef90_W5KLY8 UniRef90_UPI00042BEF40 UniRef90_P08422 UniRef90_H4QA68 UniRef90_P42QA68 UniRef90_P41331 UniRef90_P01947 UniRef90_P02010 UniRef90_P10062 UniRef90_Q802A3 UniRef90_Q802A3 UniRef90_Q802A3 UniRef90_Q802A3 UniRef90_P84205 UniRef90_Q9PVM4 UniRef90_Q8DP12 UniRef90_A4ZQ34 UniRef90_P1976 UniRef90_P1976 UniRef90_E2JF88 UniRef90_J9P710	1	
UniRef90_P02017 UniRef90_P02134 UniRef90_UP100045DBDB7 UniRef90_G2135 UniRef90_G3IA41 UniRef90_H3D5V2 UniRef90_G3PGV5 UniRef90_G5DZM8 UniRef90_H0WAL2 UniRef90_P02138 UniRef90_W5MM67 UniRef90_V5N6Q4 UniRef90_V5M6Q4 UniRef90_UP10003503817 UniRef90_UP10003503817 UniRef90_UP10003503817 UniRef90_UP1000395C367 UniRef90_UP1000395C367 UniRef90_UP10003853E4CD UniRef90_UP1000395C367 UniRef90_UP1000395C367 UniRef90_UP100038C3EF8	D V S G F W G K V D A H K L G G E A L A R L L V V Y P W T Q R R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L F L S Y P Q T K T R L S A D D K N N I K G A W G K I G G H E Y G A E A L E R M F I V T Y P T T K T R W T D Q E R A I I D N I F S N L D Y E D V G S K A L I R C L I V Y P W T Q R R L S P A E Q E M V R A L W K K M N V C D Y V T E A L E R T F L A F P S T K T R W E D A E K Q Y I V S V F S K I D V D H V G A N T L E R V L I V F P W T K R R L S D K D K Q H V Q A L W A K A S A D T I G H E A L S R M L I V Y P Q T K T P L S G V E R T I V Q D T W A R V S C E D V G V A V L V R F F V N F P S A K Q L S K K E K K L I K E M W E R L T A E D I G S E A L G R L L V V Y P W T Q K L S D R D Q A M V R A L W N K M D L E R C G P F F S C R T F L A F P S T K T L S A A D K N N V K G I F T K I H A E E Y G A E T L E R M F T T Y P P T K T H W T A E E K A L I N A Y W G K V D V G S V G G A E A L A R L L I V Y P W T Q R L T A E D R R L L Q A S V G K L G C E D I G A D A L N R L L I V F P Q S K T L N A E D C K L L H A T W A K V A C D E A C S I F L F K V F P Q S T K V	!
UniRef90_Q3KQ67 UniRef90_L5KGV2 UniRef90_Q1AGS5 UniRef90_Q1AGS5 UniRef90_Q6DEW1 UniRef90_Q6DEW1 UniRef90_G5E0T9 UniRef90_A3KP86 UniRef90_H0W3F0 UniRef90_H2LKV1 UniRef90_UPl000441DE38 UniRef90_UPl0003D0DAE4 UniRef90_G3QIW6 UniRef90_Q3QIW6 UniRef90_P02197 UniRef90_V5N4L8 UniRef90_V5N4L8 UniRef90_UPl00039460B9 UniRef90_UPl0002655C3E UniRef90_UPl0002655C3E	A ML NA QE RA HI E QVWDLI A GH E A GA E L L LRLFIVY P P WT QR H L S D GE K N A II S T A WG K V N A A E V G A E S L G R L L V V Y P WT QR L T E S E K A A V I A L F E K I S Y S S I G A E A L E R L F L S Y P Q T N T L I K S E R T V I M S M W G K I S A D A I G T E A L E R L F T S Y P Q T K T L S S K D K A T V K E F F G K M S S D D I G A E A L S R L V A V Y P Q T K S L S K E E K E L I A Q I WE K M I A S E I G S E S L H R M M T T F P G T K T L S A E E R D L L R A L W K K L N V G V Y V T E A L E R T F L A F P G T R V T E S E R G V I K E T W A R V N C E D V G V S I L I R F F V N F P S A K Q L S K T D K A L L S S S V G K I Q A Q A T G S D V L A R M F A S F P Q T K T L S S A E K T A I L L S L W S K A N V N A L G A E A L E R L F L S Y P Q T K T L S S A E K E L I A E I W D K M T A E E I G S E A L L R M F T T F P K T K T L S S A E K E L I A E I W D K M T A E D V G V S I L L R F F V N F P S A K Q W T E E E R K V I Q E T W N R V N C E D V G V S I L L R F F V N F P S A K Q W T E E E R K Q L I K E A W G L L H I P N A G G E A L A R M F S C Y P G T K S H L T D A E K A T V N G L W G K V N P V E I G A E S L A S L L I V Y P W T Q R G H F T E E D K A T I T S L W G K V N V E D A G G E T L G R L L V V Y P W T Q R C H F T E D K A A A V K K A F F S K V K A A E L G G E A L G R L L V V Y P W T Q R L S G K D K A V V K N F W G K V N A E E L G G E A L G R L L V V Y P W T Q R L S G K D K A V V K N F W G K V K A A E L L G S L L I V V Y P W T Q R L S G K D K A V V K N F W G K V K A A E L G G E A L G R L L I V Y P W T Q R L S G K D K A V V K N F W G K V K A A E L G G E A L G R L L I V Y P W T Q R L T A A D E R A A A T S L W K V D D A D G A E A L G R L L I V Y P W T Q R L T E Q E W Q K V M D I W D K V E P D L H G Q E V I I R M F Q N T P S T Q E T T C T T T T T T T T T T T T T T T T	!
UniRef90_V8PDX6 UniRef90_UPl000328AF02 UniRef90_K7FMT4 UniRef90_W5MLZ3 UniRef90_K4FYN9 UniRef90_Q7LZM7 UniRef90_P07408 UniRef90_S9YCX3 UniRef90_W5LJG5 UniRef90_UPl00039409C2 UniRef90_UPl00039409C2 UniRef90_L5KH54 UniRef90_L5KH54 UniRef90_L5KH54 UniRef90_L9RW14 UniRef90_L9RW14 UniRef90_L9RW14 UniRef90_UPl0003D0F472 UniRef90_UPl0003D0F472 UniRef90_UPl0003C1633B UniRef90_UPl0003C1633B UniRef90_UPL0003C1633B	LSDNEWQHVLGIWAKVESDAHGQEVMIRLFQVHPETQS TASEKALVSSIWKKAATEEWGEDALLRLLTVFPQTKT QWSQAELDVIQGKWAALDPEKFGGKALARMFVVYPWTKR LTEDDKTHVKTLWGHVHAEEIAADALTRMFLAHPTSKT LSAADKTAIKHLTGSLNAEAWGAESLARMFATTPSTKT LSAADKTAIIKHLTGSLNAEAWGAESLARMFATTPSTKT LAAEDRAAVRALWRKLNVHVYTTEALERTFLALPSTKT LTGGEQAIIQNTWTKVNKDAAGVAVLMRLFTSFPSSKQ PLSGGQRALIRESWRRLSPEQHGLVLFSRLFDLDPDLLP HWTQEERDEISKTFQGTDMKTVVTQALDRMFKVYPWTNR LSASDTAAVRALWKKLNVGVYTTEALERTFLAFPSTKT GALSGAEKAAIADSWKAVNYEEAGKAILIKFTSNPGVQD LSEPQKELIQESWRLLHQDRLGIIMFIRLFETHPECKD PLSAGDKANVKAVWDHVKGHEFGADALHRCFKIDCQTQT QTDHRTFLAFPSTKT	
UniRef90_M3WAU4 UniRef90_Q5QRU6 UniRef90_A2V8C2 UniRef90_A0A059AMU3 UniRef90_S4RN97 UniRef90_P20244 UniRef90_G1KTL1 UniRef90_Q92025 UniRef90_W4YI83 UniRef90_W4YI83	RTFLAFPTTKT FSEAEVQSARGAWEKVDAEDNGTAVLVMFFFVDNPSAQD TEEQEALVLKSWNKKNAAELGLKVFLRVFEIAPSAKK LSGDEKSAVRDTWKVVHAEDHGTTILIKFLTENADAKK LSEGNKKAIKNLQKIHSEVLGAEALARLFECHPQTKS GALSSAQQLIRASWQKVSANEHGMVLFSRLFDLNPDLLP MTKKQRELVESTWEMMAPDKHGAVMFAKLVSDNPKVGR	

UniRef90_Q9I977 UniRef90_W5KLY8 UniRef90_UPI00042BEF40	50  HFSGFGDISTNAAIVANDTVAAHGKTVMGGLDRAVKNLDD YFSHWPDMSAGSTPVKN HGKKIMGGLAEAVAKIDD YFPHF DLRPGSAHLRTHGAKVAAALGDAVKSIDN
UniRef90_P08422 UniRef90_M4AD09 UniRef90_H2QA68 UniRef90_P84203 UniRef90_P41331	YFSHWPDMSAGSTPVKN HGKKIMGGLAEAVAKIDD YFPHF DLRPGSAHLRTHGAKVAAALGDAVKSIDN YFSHF DVSHGSADLQNHGGKVVNALGEAAKHLND YFSHF DLHNGSARLRTHGYKVMASELNTVKSIDN YFSRF DLHNGSARLRTHGYKVMASELNTVKSIDN YFSHW PDLAPGSPSVKKHGKIIMKAVSDSVGKMDN YFPHF DLSPGSNDLKVHGKKVIDALTEAVNNLDD YFHHI DVSPGSGDIKAHGKKVIDALTEAVNNLDD
UniRef90_P01947 UniRef90_P02010 UniRef90_P10062 UniRef90_Q802A3	YFPHF  DLSPGSNDLKVHGKKVIDALTEAVNNLDD  YFPHF  DLSSGSPNLKAHGKKVIDALTTAVGHLDD  YFPHF  DLHHGSEQIRNHGRKVVNALGEAVKNMDH  YFAGFGNLYNAEALKNNPNIAKHGVTVLHGLDRAVKNMDN  YFSHW  PETTPGSAPVKKHGARILGAINDAVNRIDD
UniRef90_P84205 UniRef90_Q9PVM4 UniRef90_G8DP12 UniRef90_A4ZQ34	Y F S H WA D L S P S S A P VR K H G A T I MA A V G D A V G H M D D Y F P H M
UniRef90_P01976 UniRef90_E2JF88 UniRef90_J9P710 UniRef90_P02017	Y F P N Y  O F S A G S A Q I K T Q G Q K I A D A V G L A V A H L D D  Y S T H F K D F T Y  N S P Q V K E H G K L V M K G I K Q A Y E N I D D
UniRef90_P02134 UniRef90_UPI00045DBDB7 UniRef90_P02135 UniRef90_G3IA41	Y F A H WA D L S P G S G P V K H G K K V M G A I G D A V T K F D D Y F T T F G N L G S A D A I C H N A K V L A H G E K V L A A I G E G L K H P E N Y F P H F D L H P G S A Q L Q A H G S K V V A A V G D A A K N I D N Y F S T F G N L G S A D A I S H N S K V L A H G Q R V L D S I E E G L K H P Z B Y F P H F D V S H G S A Q V K A H G A K V A D A L A K A A S H L D D C S F C S C S C S C S C S C S C S C S C
UniRef90_H3D5V2 UniRef90_G3PGV5 UniRef90_G5DZM8 UniRef90_H0WAL2	FFSQFKDIEEPEELESSGQLRKHARRVMNTLVESLGSADK YFSSFGNLSNVTAISGNAKVQGHGKKVLSAIGDTISHIDD YFPHW
UniRef90_W5MM67 UniRef90_V5M6Q4 UniRef90_M4ASG7 UniRef90_Q95183	Y F A H WS D L S A G S A Q V R A H G K V I M T A V G D A V G H L G D Y F S Q F R E M D D P E E M E R S S Q L R K H A C R V M N A I N T V V E N L H D Y F S H L D I S P G S A H L S S H G K K I V L A L A E G A K D I S Q F F D N F G N L S S S A I M G N P Q V K A H G K K V L T S F G D A V K N M D N
UniRef90_UPI00038EE4CD UniRef90_UPI0003503817 UniRef90_P18991 UniRef90_UPI000395C367	Y F P H W Y F P H F D L S T G S A Q V K A H G Q K V A D A L T L A V N Q M Y D D L S H G S A Q L K G H G K K V V A A L L E A A N H L D D F F E D F G N L S T P S A L L N N P K X X X X X X X V L T S F G D A L K N L D N F F S D F G N L S P T A L G N P K V R A H G K K V L T S F G E A L K N L D N
UniRef90_P0C0U7 UniRef90_Q7LZM6 UniRef90_L5KK46 UniRef90_UP100038C3EF8	Y F P H F
UniRef90_L5KGV2 UniRef90_Q1AGS5 UniRef90_C1BYA0 UniRef90_UP100032B0336	YFPHF DLHPGSAQLRLHGSKVVAAVGDAVKSIDN YFSHWKDASPGSAP VRKHGITIMGGVYDAVTKIDD YFSHL DIRPRSRQMLSHGKKIVLAIAECSKDISS YFSHM DLRPGSAQIRTHGQKVAAALTLAADHLDD
OHINEIBO_ASKF00	HFSQFKHMEDPLEMEGSVQLRKHARRVMGAVNSVVENLGD YFVGFSDYTA KGPRVQKHGLTVMTKI IEGIQYLDS YF SRVMVSKDIQSHGGKVLAAIGFATKHIDN
UniRef90_H0W3F0 UniRef90_H2LKV1 UniRef90_UPI000441DE38 UniRef90_P02020 UniRef90_M3ZCQ3	YFSHL NISANSEHLRSHGKKI VEALAEGAKNISTYFSQFRHMEEPLEMERSPQLRKHACRVMGALNTVVENLHDYFGTFGDIFTNTSILNNPKVAHHGKVVLRSIDKAVRIMDRYFSQFKHMEDPLEMERSLQLRKHARRVMGAINSVVENIYDYFPHFGH DFSANNEKVKHARRVMGAINSVVENIYDYFSKFGDLSSVSAIMGNPQVKAHGKKVINAFDDGLKHLDN
UniRef90_UPI0003D0DAE4 UniRef90_G3QIW6 UniRef90_P02197 UniRef90_V5N4L8	FFSNFGNLSSPTAIISGEPILLE KGYGSKQREKPRK <mark>C</mark> PA FFDSFGNLSSASAIMGNPKVKA FFDKFKGLKTPDOMKGSFDLKKHGATVUTOUGKIUKOKGN
UniRef90_UPI00039460B9 UniRef90_Q575S4 UniRef90_UPI0002655C3E UniRef90_13N507	Y F S H WN D L S P G S V Q V R K H G L T V I Q G V L D A V E R I D D Y C S H WA D L S P D C A Q V K M H G A N I M X V G N M D D Y F K N L K N I A T L E E M Q V N P G I R A H G K R V M G A L N Q V I Q N L N D Y F E S F G N L G S D C N S K V K A H X K K V L I S F R K A V R L M D D F F D S F G D L S S A S A V M G N A K V K A H G K K V I D S F S N G L K H L D N R F V K F K N F K T L E E M K N S E E L K K H G T T V L S A L G K I L K Q K G S
UniRef90_V8PDX6 UniRef90_UPI000328AF02 UniRef90_K7FMT4 UniRef90_W5MLZ3 UniRef90_K4FYN9	LFAKFKNLKTADEMKSSDELKKHGITVLTALGRILKQKNN YFTNV VEGKEGGREKAS
UniRef90_Q7LZM7 UniRef90_P07408 UniRef90_S9YCX3 UniRef90_W5LJG5	YFAHF DFSPNSANIKAHGKKVANALNQAVNHLDD YFSKFTDFSA NGKRVKAHGGKVLNAVADATDHLDN HFHHL DLRPRSAQVRAHGEKVAFALTVALDHLDD FFSQFRDTEDPEELKSSVQLKKHALRVMSALNTLVENVND LFQYCKQFASPQECLSAPEFLDHLRKVMLVIDSAVSHLEN
UniRef90_UPI00039409C2 UniRef90_Q9YGW1 UniRef90_L5KH54 UniRef90_S4RW14 UniRef90 H3ARB7	Y F C K R T D F R S S I H A G I V V G A L Q D A V K H M D D Y F L H L D L S P G S T Q V K A H G Q K V A D A L T L A V D H L D D
UniRef90_H3ARB7 UniRef90_Q6F3D2 UniRef90_UPl0003D0F472 UniRef90_UPl00042AB6DB UniRef90_UPl0003C1633B	VFFLFRDLDSADQLSKSAAVRWHAERI INAVNDAVVALDD  VFFLFRDLDSADQLSKSAAVRWHAERI INAVNDAVVALDD  VFFLFRDLDDFHQLKMSKELQAHGLRVMSFIEKSVEQKDK  YFP GKDLNEGSAFLHSHGKKVMSALTNAVAHIDD  YFPHL DLKPGSSQVKAHAQKVADALTLAAHHLDD  KFDKFKNLKTADEMKGSEDLKKHGCTVLTALGGILKKKGQ  YFRHLGDHPDEV QLLSHGQRMLQAVGVAVRYLDN  KAHGKKVLTSFGDAVKNIDN
UniRef90_Q45XH4 UniRef90_M3WAU4 UniRef90_Q5QRU6 UniRef90_A2V8C2	Y F T H F K G M D S A E E M K Q S D Q V R G H G K R V F T A I N D M V Q H L D N F F P K F K D L D S E E K L K G S T A V R W H A E R I I N A V N D A I W L D E
UniRef90_A0A059AMU3 UniRef90_S4RN97 UniRef90_P20244 UniRef90_G1KTL1	FFPKFQALKTADEMKSSPVLRDHAKRIMNSINDMVVALDD YFPKFSGFSANDK RVKHHGAIVIKAIVDTNKHIDD
UniRef90_Q92025 UniRef90_W4YI83 UniRef90_W4YI83	LFQYCKKFSTPQECLSSPEFLEHIRKVMSVIDAAVTHMENHFSTFGNLSTPAAIMGNPAVAKHGKVVMHGLDRAVQNLDDLFPFGKKKYPYKKLLNENEVISHGERFMTTLGQVVGGLDDLFPFGKKKYPYKKLLNENEVISHGERFMTTLGQVVGGLDD

UniRef90_Q9I977	90 100 110 120     K D A Y T K   L   S Q K H S E Q   L H   V   D P D N F R   L L   A E C   S V C V   G A K F G P
UniRef90_W5KLY8	I VIGGILITIES EIL <mark>H</mark> A E OMRIVID PANEKILLIS HNILL VVLAVIN V PN
UniRef90_UPI00042BEF40 UniRef90_P08422	I Å G A L S K L S E M H A Y V L R V X X X X X X X X X X X X X L L V T V A S H F P A L D A A L S T L S D L H A Y N L R V D P G N F K L L S H T I Q V T L A V H F Q K
UniRef90_M4AD09	SESVLKLVGKAHALKHKVDPVYFKILSGVIVEVLGEEYPE INGAQSLLRGLRSYLLLADRVNFKLLSHCLLVTLAARFPA
UniRef90_H2QA68	INGAQSLLRGLRSYILLADRVNFKLLSHCLLVTLAARFPA LVGGLSALSDLHATRLHIDPSNFKLLSHNILVTLAAHFPS
UniRef90_P84203 UniRef90_P41331	L VG GL S AL S D L H A T R L H I D P S N F K L L S H N I L V T L A A H F P S V A G A L S K L S D L H A Q K L R V D P D N F Q F L G L E V T I A A H S G G
UniRef90_P01947	<u>L   P  </u> T A   L   S T   L   S D   V   H A H K   L   R   V   D P   <u>V  </u> N F K <u>F  </u> L   N H <mark>C  </mark> L L <u>V  </u> T   L   A A H   L   G A
UniRef90_P02010 UniRef90_P10062	MSTASGELSNIHAYNIRVIDFANTRI LSG <u>CESVIAVIRI</u> ND
UniRef90_Q802A3	LPTALISTLSDVHAHKLRVDPVNFKFLNHCLLVTLAAHUGA AVATLSKLSDLHAQKLRVDPANFKILSQCLLSTLANHRNP MSTASGELSNLHAYNLRVDPVNFKLLSECFEVVLAVHUKD UKETYKELSELHSEKLHVDPDNFKLLSDCLTLVVATKMGS
UniRef90_P84205 UniRef90_Q9PVM4	A   V   A   T   L   S   K   L   S   D   L   H   A   Q   K   L   R   V   D   P   A   N   F   K   L   S   C   C   L   S   T   L   A   N   H   R   N   P   M   S   T   A   S   G   C   C   T   L   V   A   T   K   M   G   S   M   A   G   A   C   C   C   T   T   T   T   T   T   T
UniRef90_G8DP12	LQGFLSKYSELHAFKLRVDPTNFKILAHNMILVMAMYFPK
UniRef90_A4ZQ34 UniRef90_P01976	LPGSLSALSDLHAHKLRVEPANFQFFNH <mark>C</mark> LLVTLARHYPG M <u>P</u> TAL <u>S</u> SLSDLHAHELKVDP <u>V</u> NFK <u>FL<mark>C</mark>HNVL</u> VT <u>M</u> AAH <u>L</u> GK
UniRef90_E2JF88	MPTALSSLSDLHAHELKVDPVNFKFLCHNVLVTMAAHLGK MVTGLLDLSEKHAFTLRVDPSNFKLLSSCFHVVLSKRYPN
UniRef90_J9P710 UniRef90_P02017	VAGALSRLSELHAYILRVDPVNFQLLSH <mark>C</mark> LLVTLASHFPA LLGGLASLSELHASKLRVDPSNFKILAN <mark>C</mark> LTVVIMFYLPG
UniRef90_P02134	L K A H Y A K L S E Y H S N K L H V D P A N F R L L G N V F I T V L A R H F Q H
UniRef90_UPI00045DBDB7 UniRef90_P02135	
UniRef90_G3IA41	LPGTLSSLSDLHAHELRVDPVNFKLLSHCLLVTLANHHPA
UniRef90_H3D5V2 UniRef90_G3PGV5	V A G A L S E L H A Y I L R V D P V N F Q L L S H C L L V I L A S H F P A L L G G L A S L S E L H A S K L R V D P S N F K I L A N C I T V V I M F Y L P G L K A H Y A K L S E Y H S N K L H V D P A N F R L L G N V F I T V L A R H F Q H I S A A L S K L S E L H A Y I L R V D P V N F K L L S H C L L V T L A A R F P A L K A Y Y A K L S E R H S G E L H V D P A N F Y R L G N V L I T V M A R H F H E L P G T L S S L S D L H A H E L R V D P V N F K L L S H C L L V T L A N H P P A N M D N I K E E Y K K H S E K L H V D P D N F K L L S D C L T V V I A G K L G S V A S V L R L V G K S H A L R H K V D P V Y F K L L S G V I L E V L G E E F S S V K H F L A P L S K K H A Q E L H V D P E N F K R F A D V L V I V L A A K L G S L T G A L S A L S D L H A H K F C V N P F N F R Y G O C L R I F L A A A A G G K
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UniRef90_H0WAL2 UniRef90_P02138	LTGALSALSDLHAHKF <mark>C</mark> VNPLNFQLLGH <mark>C</mark> LLVTLARHYPG IKGHLANLSHLHSEKLHVDPHNFRVLGQCLRIELAAALGK
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UniRef90_V5N6Q4 UniRef90_M4ASG7	PESVLEVVGKAHAVKHKVEPMYFKILSGVILEVLSEDLGN LTVTLAPLQTLHAYQLRIDPTNFKLLSHCMLVTLACYLGS
UniRef90_Q95183	LTVTLAPLQTLHAYQLRIDPTNFKLLSHCMLVTLACYLGS LKAAFAKLSELHCEKLHVDPENFRL
UniRef90_UPI00038EE4CD UniRef90_UPI0003503817	L T V T L A P L Q T L H A Y Q L R I D P T N F K L L S H C M L V T L A C Y L G S L K A A F A K L S E L H C E K L H V D P E N F R L L P N A L S A L S D L H A H K L R V D P T N F Q F L V H C L L V T L A R H Y P G I A G T L S K L S D L H A H K L R V D P V N F Q L L G Q C F L V V V A I H H P A V X X X X X K L S E Y H C N K L H V D P V N F R L L G D V L I T L S A A N F G K L K G T Y S K L S E L H C D K L H V D P E N F L R G T Y S K L S E L H C D K L H V D P E N F
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UniRef90_UPI000395C367 UniRef90_P0C0U7	L K G T Y S K L S E L H C D K L H V D P E N F I R G T L S Q L S D L H A Y N L R V D P V N F Q L L S K C L H V S L A T H L R N I H G V L A D L S D L H A Y N L R V D P V N F N L L G K C F L V E L A T H L Q G
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UniRef90_L5KK46 UniRef90_UPI00038C3EF8	LRÁALSPLÁDLHAHVLRVDPTNFPLLÍQ <mark>C</mark> FQVVLASHLQD EVGLFSVHAQTLHLHTSSFFPQLLGNMI <u>VIVM</u> AHHLGK
UniRef90_Q3KQ67	EVGIFSVHAQTLHIHTS SFFPQLLGNMIVIVMAHHLGK LDAALSALSDLHAFNLRVDPGNFKLLSHTIQETLAIHYSS IAGALFKLSELHAYVVRVDPVNFQLLSYCLLVTVALHFPA
UniRef90_L5KGV2 UniRef90_Q1AGS5	II IA GAIL IE KII IS EIL IN A YIV VIKIVID PIVIN E GIL I IS Y CIL I VII IVIAIL IN E P A
UniRef90_C1BYA0	LKGGLLSLSELHAFMLRVDPVNFKLLAHCMLVCMSMVFPEMMVTLAPLQTLHAYKLKIDPYNLKYLSHCLIVTLAAHMGSLPRTLSALGDLHTTRLRVDPVHFRLLGHCLLVTLVRHFPG
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UniRef90_H0W3F0	L  D S  V L  A  L V  G K A H A  L  K H K  V  E P  V  Y F K  I L  S G  V I V  E  V I  A E E <mark>C</mark> A S
UniRef90_H2LKV1 UniRef90_UPI000441DE38	LQETHAALSRLH YECVDPDNFKLLGD <mark>CITIS</mark> IA <mark>C</mark> KLKE SESVLALVGKAHAVKHKVDPVYFKILTGVMLEVLKEEYAN LSS <mark>CL</mark> HTLSE <u>KHA</u> RELMVDP <mark>C</mark> NFQYLIEALMTTLAAHYGE
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UniRef90_UPI00039460B9 UniRef90_Q575S4	L VIG GIL IA NIL IS XIL H P F KIL R VID P A N F R II L IA H N II I L C M A M F F P E WE S A II T H II A O R H O D IVIH K VIG IVIN N E O II I E II VI I I T I E K E A II C A
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UniRef90_UPI000328AF02	EP GVLS ALS DEHAHKERVDPVNEK FLEHCLLVTLACHEPD
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UniRef90_W5LJG5 UniRef90_UPI00039409C2	R P G V S W G F G  H E S E L K P L A Q T H A T K H K P P V K Y L E F I S E V I I K V L A E K H A A A L R T G L L N L S E L H A F M L R V D P A N F K I I S H N M L V V F A L L F P N E W E S A L T H L A Q R H Q D V H K V D P A N F K I I S H N M L V V F A L L F P N E W E S A L T H L A Q R H Q D V H K V D P A N F K I I S H N M L V V F A L L F P N E W E S A L T H L A Q R H Q D V H K V D P A N F K I I S H N M L V V F A L L F P N E W E S A L T H L A Q R H Q D V H K V D P A N F K I I S H N M L V V F A L L F P N E W E S A L T H L A Q R H Q D V H K V D P P N F E F L L L G N V I L M V L A T H F S K W E S A L X D L H A A K H K I P V K Y L E F I S E V I I G V I A E K H P P A I K F A S A S E L H A C D K L H V D P P F R R V L R V V D P V N F K F L L A G C H L P P A I S S V L S S L S A L X D L H A A K K H K I P V K Y L E F I G E I L V V L A N R R L P A I K H K L R V D P V N F K K L L A H C L L V V L A N R R L P A I K H K L R V D P V N F K K L L A G C L L V V L A A A N R L P A I K H K L R V D P V N F K K L L A G C L L V T L A A G H L P P A I S A C L K P L S A L S D L H A A Y L L R V D P P N F F F L L L G C L L V T L L A A H L H T G C L L V T L L A A H L H T G C L L V T L L A A H L H T G C L L V T L L A A H L L T C C L L V T L L A A H L L T C C L L V T L L A A H L L T C C L L V T L L A A H L L T C C L L V T L L A A H L L T C C L L V T L L A C C H L V S C L A S D L L H A G T L H V D P P N F F F L L L T G C L L V T L L A A H L L T C C L L V T L L A C C L L V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L L A C C T L C V T L A C C T L C V T L L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C V T L A C C T L C C T C T C T C T C T C T C T C
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UniRef90_Q9NG75 UniRef90_Q9NG75 UniRef90_L2FZX3 UniRef90_W7QB62	L F V E F R N I P A S E L A N S D R L L Y H G S R V L T S V N E V I S S I D S L F V E F R N I P A S E L A N S D R L L Y H G S R V L T S V N E V I S S I D S V F S L R N Q A N G E Q P R A L A N S V L A Y A T Y I D A L P F L F N D A H Q A D G G Q P R A L A G A V L A Y V Q L R Q I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N Q S Q G R Q Q T A L A N M V L A A A K N I D C I F N H A N G I F N H A N H A N G I F N H A N G I F N H A N G I F N H A N G I F N H A N G I F N H A N G I F N H A N G I F N H A N G I F N H A N G I F N H	S K D
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UniRef90_F1PQB5 UniRef90_Q65M00 UniRef90_J5JNA3 UniRef90_V4HJT2	L F Q Y C R Q F S S P E D C L S S P E F L D H I R K V M L V I D I A V I N V E I L F N M S R Q Q T G G Q P K A L A F T V L Q A A E N L D R L E I Y F S L R N Q A T G A Q Q A A L G A S V L A Y A S Y I I	D D
UniRef90_Q2SM91 UniRef90_UPI000255EBC8 UniRef90_S6F2N4 UniRef90_A6YH87	LFKNSM LFNSSHQHSGGQQVALFNALAAYAKHIETPEALLA NTFNRGNQRSGE NMDRQNSGEQPKALAASVATFAAMLVDSSAF LFSFIKDSNVPVE QNPKLKPHAAAVFVLIGESATQLGF VF NKTNQKLGRQQTALAQTVIAAAKHIDF	Α
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UniRef90_UPI00047BCAEB UniRef90_S4RRY3 UniRef90_G7KGN2 UniRef90_A1ZE02	N M A H QILT G H Q P K A L A D A V Y G A A A N I I E D F S C  W F Y Q F R D C E D L Q K L K M N K Q L Q A H G L R V M S F I E K S V A R L E  M F S F L K D S A G V Q D S P K L Q A H A E K V F G M V R D A V Q L R V I  V F N M T H Q A K G S Q P K A L A T A I F Q Y A R Y I E Q P E I	Q E K V
UniRef90_G9MRT6 UniRef90_Q07S70 UniRef90_E9GAC8 UniRef90_UPI0003819E82	GDI A E Q G K K L M G I L G V V V S G L I L M F P A F A E V D H M K L P T N E D F L A Q A Q N C V S G L N S Y V E H L G L G I F N R A N Q A N G D O R K A L A A S L A G F A T A L L F N P D F	D
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UniRef90_H2U9M3 UniRef90_O97382 UniRef90_O97382 UniRef90_Q9XTM2	V F FILF R DIVE DILERIL R S S R EL R A H GIL R V M S FI E K S V A R Q Q I L F R Q F R D V D L D K L G E S N S F V A H V F R V V F D G I I H E L D N N Q F L F R Q F R D V D L D K L G E S N S F V A H V F R V V F D G I I H E L D N N Q F K F S K F A D V P O S FI I T N G N F L A Q A Y T I L A G I N V V L Q S I S S	D F F S
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UniRef90\_UPI000373082E A S A P M L A A E K L A R H F Y Q R M F R R H I A R H F Y Q R M F R R H I A R S W A A M E A D A L G R H F Y A T L F H L A R S W A A M E A D A L G R H F Y A T L F H L A R S W A A M E A D A L G F Y K R F F E L A R S W A A M E A D A L G F Y K R F F E L A R S W S Y L F Y B R M L L T E H I A R S Y A R V K A E Y A A Q L F Y K R F F E L A R I S T V P V L H G E D L T K H F Y A T M L K A H I T T T F Y R N M L G A H I T T T T F Y R N M L G A H I T T T T F Y R N M L G A H I T T T T F Y R N M L G A H I T T T T F Y R N M L T E N I T T T T F Y R N M L T E N I T T T T F Y R N M L T C R Y I T A P V V G A H E L T D Y F Y P L M F E R Y I A P V V G A H E L T D Y F Y P L M F E R Y I A P V V G A H E L T D Y F Y P L M F E R Y I A P V V G A H E L T D Y F Y P M R M L E R Y I A P V V G A H E L T D Y F Y P M R M L E R Y I A P V V G A H E L T D Y F Y P M R M L E R Y I A P V V G A H E L T D Y F Y P M R M L E R Y I A P V V G A H E L T D Y F Y P M R M L E R Y I A P V V G A H E L T D Y F Y P M R M L E R Y I A P V V G A H E L T D Y F Y P M R L E R Y I A P V V G A H E L T D Y F Y P M R L E R Y I A P V V G A G T L F Y G M L F T L A R T A A K M N P V K N A L Q V L L R L F A E Y I A R T A A K M N P V K N A L Q V L L R L F A A H I T A P V L A Q H D L L K H F Y A R M L S K N L F T L P A L H G E T L T S L F Y A R M L S K N L F T W K E V S K K E L G V S V Y K R F L N M H I T S W A K V V A S V A A D L F Y T K L F E L D I T S W A K V V A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S V A A D L F Y T K L F E L D I T S W A K V A A S KDNSNPPDNRDNRGNNNT DNNRTR DPAPNTPREEDEDEDESQEQEEESAAEEQPEEELQSEGE QDEP AEQPDADTAPEA **EQKDQDARQRRHKQRS** P L T T N S T T L N S T T N K K UniRef90\_Q5B7F8 UniRef90\_UPI000373082F UniRef90\_I3CJ89 UniRef90\_UPI0002627209 L D E K L T Q K L T E R UniRef90\_M1KHB2 UniRef90\_UPI0002E7AAEF UniRef90\_M1KHB2
UniRef90\_UPI0002E7AAEF
UniRef90\_UPI0002E7AAEF
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UniRef90\_UPI0002557E95
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UniRef90\_UTEBY4
UniRef90\_UPI0002557E95
UniRef90\_UTIN418 HAEV QSQL EILL QRAI QVEL QIEL QKYL DLSL V K A V K G V Q K V K S V Q S V K A I R E V Q T AKAESHEE EQIT LIQQS F A KVA P Q A A SVL F Y D R L F E VA P K S F A V V E A E H A V K Y F Y S H L F W H N P K E E I H A V Q K S W A P V N A N A T G S E L L R R L F N T Y P Y C R E I H A V Q K S W A P V N A N A T G S E L L R R L F N T Y P Y C R E I H A V Q K S W A P V N A N A T G S E L L R R L F N T Y P Y C R D L I K A T I P V L E G T T I T Q T F Y H N M F T A H P Y C R T I K A T I P V L E G T T I T Q T F Y H N M F T A H P Y C R T I K A T V P V L E G T T I T Q T F Y H N M F T A H P Y C R T I K A T V P V L E G T T I T Q T F Y D R M F A A H P I C R T I T V K Q S W E K K D A Q R N G I N F F R K V F E I A P C E I E L L R S S W N E M K M K E L G L L I F H R L F S D V P I C E I E L L R S S W N E M K M K E L G L L I F H R L F S D V P I C E I E L L R S S W D E M K M K E L G L L I F H R L F S D V P I C E I E L L R S S W D E M K M K E L G L L I F H R L F S D V P I C E I E L L R S S W D E M K M K E L G L L I F H R L F S D V P I C E I E L L R S S W D E M K M K E L G L L I F H R L F S D V P I C E I S I V K A T V P L L E G E A L T T H F Y R I M L G E Y P I C E I S I V K A T V P L L E G E A L T T H F Y R I M L G E Y P I C E I S I V K A T V P L L E G E A L T T H F Y R I M L G E Y P I C E I S I I K D T V P K E E G Q T I T D L F Y S H L F L S H P I C E I S I I K D T V P K E E G Q T I T S K F Y K R L F E T T A P I C E I S I I K D T V P K E E G Q T I T S K F Y K R L F E T T A P I C E I S I I K D T V P K E E G Q T I T S K F Y K R L F E T T A P I C E I S I I K D T V P K E E G Q T I T S K F Y K R L F E T T A P I C E I S I I V K S T A P V L K D H A I T S V F Y K R L L S N H P I C Q C K A I V K S T A P V L H G V A I T S V F Y K R L L S N H P I C Q C K A I V K S T A P V L H G V A I T S V F Y K R L L S N H P I C Q C K A I V K S T A P V L H G V A I T S V F Y K R L L S N H P I C Q C K A I V K S T A P V L H G V A I T S V F Y K R L L S N H P I C Q C K A I V K S T A P V L H G V A I T S V F Y K R L L S N H P I C Q C K A I V K S T A P V L H G V A I T S V F Y K R L L S N H P I C C T T T T W A K L C S A I T E H F Y A R M F L H N P I C T T T T W A K L C S A SVRA ELRE DAKP ELLN GAKA RIRK ELLR  $\mathsf{M}\,\mathsf{T}\,\overset{\mathsf{P}}{\mathsf{P}}\,\mathsf{E}$ MTTT LTRR LDQH PLDEK D S T Q E K T P EQSAALQQ LLLVT LLVT VLA LVVV UniRef90\_H6RLL7 UniRef90\_U1N4I8 L D Q L T A L S E L T S D L T T UniRef90\_UPI00031999E4 UniRef90\_UPI000344B12C UniRef90\_W9VZS9 UniRef90\_E1V3U8 UniRef90\_L8LTA2 UniRef90\_L8LTA2 UniRef90\_H2YFM6 E Q S T D E T E Q T L L

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	50 60 70 80
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UniRef90_L7KGY0 UniRef90_F0RQV1	DLFNRTHQRTGE QPMALAGSIAAFAHLQLEPDLR IF NPANQATGRQARSLAASVLAYAEH IDAAG
UniRef90_F0RQV1	I F N P A N Q A T G R Q A R S L A A S V L A Y A E H I D A A G V F N R G N Q A S G E Q R K A L A G S V V A Y A A H L V G Q G Q E
UniRef90_C1AE78	II IF TSTDMPAQGEKII IAQTII IAIVVVVIR GII IDHII IDQ
UniRef90_V5GLC7 UniRef90_F3HEE7	TFP FRDISDEDLP TNKRFHAHANSVI YAFSSVVDAIDD LFNQANQANGAQPRALANAVLMYARNIDRLE
UniRef90_UPI0003F05CC0	F F G L  S G G S   I V L  E D P A   V I  Q K   I   R E H G L  R F M T T A R K   L V   M N   L   D D
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UniRef90_097381	L   F   V   E F R N   I   P
UniRef90_097381	L F V E F R N I P A S E L A N S E R L L Y H G G R V L A S I D E V I S E L D S
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UniRef90_UPI000349CB92	G L  F N R G N Q A S G Q R Q A  L  A G S  V  A A F A T S  L L  D H P G E
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UniRef90_C7YZV6 UniRef90_R4V4K7	H F K S F K DVP L K D L P R N S K F Q A H C T S V M Y A L T S I V D N L D D
UniRef90_L7LC87	D L  F N R T N Q K
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UniRef90_M5DQW7	II IF NOTHOOKGTOROAII IANAII VIAYATNII ID
UniRef90_D0MR65 UniRef90_Q5B7F8	L F N M S H H R V A G A T K G G A P P G V S R Q A T A L A N A V I G F A A N C D I F N S S H Q A T G V Q P A A L A H A V W A Y A S N L D H P E A
UniRef90_UPI000373082F	I I F N H A N Q H R G R Q P E A L A G A V Y A A A A H I D N
UniRef90_I3CJ89 UniRef90_UPI0002627209	LFK GDLTEQSI HFMHIMDTIVNAIDKVDD FPLNMEV QRNRMVRALVHVVQMVDQPDD
UniRef90_M1KHB2	N Q T N Q K K K T Q R T A L S N A V I A A A S N I D R
UniRef90_UPI0002E7AAEF UniRef90_U6PGL3	V F N M R H Q E R G E Q Q A L A R A V Y A Y A A N I E D P Q S L W P Q F R G L Q D S S L I N A L E L R R H A S V Y M C G L T A L I H N R E D
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UniRef90_UPI00037EC7DA	
UniRef90_UPI0002556D92	L F N Q T H Q A S G D Q Q R A L A N G V L M Y A K H J D H L D
UniRef90_D8G1W5 UniRef90_R5Q9R1	L F K G E M K E Q E R K L M A T L A L A V E G L R R P D R I I L A V Q D V F N Q A H Q A R G A Q Q Q A L A A A V L A Y A Q N I E H P E N Y F S E F K H L K L D N L N G S H G H P R R L L M A I D N A V T A L G D S D S
UniRef90_A7RWR6	YFSEFKHIKIDNINGSHGHPRRL LMAIDNAVTALGDSDS LFPS DLADQKKKLMAMISVAVDGLTD
UniRef90_B8C6B7 UniRef90_K7EIM9	M E D PIL IE M E R S P QIL IR K H A C RIV IM G A IL IN T IV V IE N IL IH D
UniRef90_UPI0003731866	M F P F D M T F O R K K I I M G M I I A A I V V I S G I I S N
UniRef90_D9VZ36 UniRef90_G8X712	LFPS SAEDMERQRDRLFAALTHVVTHLESG T LF NLGNQASG KQQTALAMAVLAYA EHIENPSV
UniRef90_B6ZIV8	Y F K MIVIR KII IP
UniRef90_U5D7L0 UniRef90_K0Y464	L F A N A D L K A Q S K K L L A S L V F V V E N L K K V F N K T N Q K Q G R Q P M A L A S T V L A A A K H I D N V F N Q T H Q K V G E Q P K A L A N A V Y M A A A H L D E L E T
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UniRef90_Q9M630 UniRef90_F7A367	MYSFLRDSTLP FEENPKVKNHARYVFMMTGDAAVQYQV MFYNLELPDDEEAMRSNQKMSRHATRIJATSIJSTYVDQPEE
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UniRef90_UPI0004433CBE UniRef90_UPI00036EED99	LIF Q Y CR Q F S S P Q D CL S S P E F L D H I R K V M L V I D A A V T H V E N
UniRef90_U1KRK6	IFNUSNORSGKQQFALFNALAAYATYL DQPE
UniRef90_Q9KZ38 UniRef90_H2AQS4	DLFNRANQASGV QREALAGAVAAFATALVKHPDE IFNKI NQKKGAQPTALATTVIAAAKNIDD
UniRef90_S9QZE0	IL IF N Q A H Q A S G A Q P R A IL IA N A IV L IR Y A R H II ID E IL IE
UniRef90_T1F484	II I F P F K T I V I W G D K II I I K H P II I F II I T H S K R F I V I K I V I I G C I V V I D R Q F F
UniRef90_C9Q9U2 UniRef90_U1EBY4	I F N M T H Q K T G R Q S V A L F E A L A A Y A K H I L A A L T S A V E R I V F N Q T N Q K K G L Q S S A L A M A V L A A A D N L D D
UniRef90_UPI0002557E95	A G A D M Q K Q G G K L M Q M L N A V V K G L N D
UniRef90_H6RLL7 UniRef90_U1N4I8	A G A D M Q K Q G G K L M Q M L N A V V K G L N D M F P V S M A H Q R D R F F A A L G D V V T R V D D L D A T N Q K R G R Q P E A L A N A V Y A A A V H I D R
UniRef90_UPI00031999E4	ILIFK GDMKQQGRKILIMAII LI <mark>H</mark> AAIVISSILINA
UniRef90_UPI000344B12C UniRef90_W9VZS9	L F E H T D M A S Q K K K L L D S L V L V V D N L R S P D M L D N T A H Q E T G A Q P A A L A H A V WA Y A N N I D N L G A
UniRef90_E1V3U8	LF NQTHQATGGQPRALLASSVLAYVQ LRKNPA
UniRef90_L8LTA2	M F K G E P H Q R Q Q L L Y V L Q S A V K G L  S N L   E E
UniRef90_H2YFM6 UniRef90_K7RW75	F F G S M S E L S D M D S L K S N P K V V D H A S R V A L S I N N L I Q L L E N I F N M T H Q K T Q P A A L F N A L A A Y A A N L D Q L E L L T D A V M R L
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100	STVLGGELADDDGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
UniRef90_UPI00040BC6A2	
UniRef90_B9CTU8 UniRef90_R7WQA6 UniRef90_N1USI6 UniRef90_Q0CVY7	
UniRef90_N1USI6  VP E QIV L S RII A H K H A S L GII T E D Q Y QII V Y K Y L F E A II A UniRef90_Q0CVY7  G P A V E L I C N K H A S L Y II Q P E Q Y K II V G K F L L E A M G	E E L A D D C E V L G D C E V L G D C A V L G D C A C L G D C C E V L G D C C E V L G D C C E V L G S S
UniRef90_Q0CVY7         GPAVELIC         CNKHASLYI         QPEQYKI VGKFLLEAMG           UniRef90_I4X1Z4         LEELPTVVQHKHVSVGVLPEHYPI VGEYLLKAMK           UniRef90_L7KGY0         RQRFIIDRIAHKHVSVGVTADQYAVVHEHLFGAIV           UniRef90_F0RQV1         QLGGMVERIAHKHVSLGVTADQYAVVHEHLGAIR           UniRef90_C6WD65         IPDAVISRIAHKHVSLGITPEQYTIVGRYLMGAVK	GEVLGD GEVLGD GEVLGD GEVLGD GEVLGD
UniRef90_L7KGY0       R Q R F L I D R I A H K H V S V G V L P E H Y P I V G E Y L L K A M K         UniRef90_L7KGY0       R Q R F L I D R I A H K H A S L G V T A D Q Y A V V H E H L F G A I V         UniRef90_F0RQV1       Q L G G M V E R I A H K H V S L E V L P E H Y P I V G E H L E G A I A         UniRef90_C6WD65       I P D A V L S R I A H K H V S L G I T P E Q Y T I V G R Y L M G A V K	DILGD ELFSS
UniRef90_F0RQV1  QLGGMVERIAHKHVSLEVLPEHYPIVGEHLLGAIA  UniRef90_C6WD65  IPDAVISRIAHKHVSLGITPEQYTIVGRYLMGAVK	DILGD ELFSS
UniRef90_C6WD65   I   P D A   V I   S R I   A H K H   V   S IL   G   I   T P E Q Y T   I V   G R Y   L   M G A   V   K	DILGD ELFSS
UniRef90 C1AE78  L  M P A  V  Q A  L  G R R H A T Y G    V  Q D A H Y D  L V  G A A  L L  D T F A	ELĒŠŠ
UniRef90_V5GLC7 PDMLVTLLSRVGESHG PRKITEKSFFDLKDTLI	
	CULGE
UniRef90_D5EQP6  L  D E  I V  P A  V  Q A K R H A G Y G  V  K D E H Y D T  V  A A A  L L  WT  L  G	Q G <u>L G</u> D
UniRef90_O97381	( Q R G V A ( Q R G V A
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UniRef90_M7XWG2 PEALVSAVTDLRHRGYGTHEAHYEAVGAALLWTLE	QGLGA
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UniRef90_M5QHT2 QLGDLVARIINKHVALQILPEHYPIVGSCLLRAIE UniRef90_P08054	
UniRef90_I9CP50 PETVAPAIQELKHVAYGTQAAHYAPVGAALLWTLE	Q G L G P
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UniRef90_R7BX74	CEVLGD SVRMS
UniRef90_M5DQW7  HLGVLSHLIAHKHCSLNILPEHYPIVGECLMEAIS	ELLGD
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UniRef90_UPI000373082F LEAFLPAVRQHKHRSLGIRPEQYPIVGENLLAAIK	È V L G D
UniRef90_13CJ89   L   S D   V V   A R   L   G   V   R H   V   G Y G   V   Q E A D Y A   V   F G K A   L L   M T   L   E UniRef90 UPI0002627209   L V   P F   L   R Q   L   G R D H R K F G   V V   P G H Y E A   V   G T A   L L   A A M K	QTLAD TQLGP
UniRef90_M1KHB2 LENEVPKQISHKHRSIGVKPEHYPIVGKYLLIAIK	DVLKD
UniRef90_UPI0002E7AAEF   L   E A   V L   K N   L   A N K	(AVLGD (E <mark>C</mark> ND
UniRef90_K7EFP3 LD S TL S A L S D L H A H K L R V D P L N F K L L A H C L L V V V A	R
UniRef90_UPI00036530AA	YEVLGA
UniRef90_UPI00037EC7DA EI EEDKTVAAKRHIAYGVKEQDFEI FGKVLVETIG	ĒĒĻĞĘ
UniRef90_UPI0002556D92	G G G L G V
UniRef90_R5Q9R1 LLGAVKQIAQRHCSLGLRAEQYQLVGHHLIESIK	EVLGA
UniRef90_A7RWR6	KGLGE
UniRef90_K7EIM9  PDSVLALVGKAHAIKHKVEPVYFKILSGVLLEVVA	EEFÁS
UniRef90_UPI0003731866   L E T   L   P A A S A L   R H   V   A Y G A T A E H Y P   V V   G A S   L   W T   L   E UniRef90_D9VZ36   L V   P Y   L R D   L G R D H R K F L V   G P E H Y A A V   G T S   L   A A L   A	Q <u>TS</u> GD
UniRef90 G8X712 LINTLKSIGNK HVSLNITKEQYELVGNHLIASIKUniRef90 B6ZIV8 PEAMMTKLGES HRRRQIKEKNFHELKEVIVKLFI	
UniRef90_U5D7L0  PDAALKGLGARHVEYGTL PEHYPLVGNTLLKTFA	QYLGE
UniRef90_K0Y464	EVLGD
UniRef90_Q9M630 LESKLQKLAATHVNAGVTDDQFELVKEALLYAIE	MGVPD
UniRef90_F7A367 LKTFLNGLGELHAG HNVEPEDFEYLAPVMLAVIGUniRef90 UPI000262A1FA SPREMLGRIGHKHASLGITEDQYGIVHEHLMAAIV	G Q L N L
UniRef90_UPI0004433CBE LEEYLTNLGKK HKAVGVKLSSFSTVGESLLYMLE	
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UniRef90_Q9KZ38 RPDAVLGRIANKHASLGITSDQYTLVGRHLLAAVA	EVLGD
UniRef90_H2AQS4	E V L G D
UniRef90_T1F484 CAQPLIELGKKHVSLEGFLPDYYDVYIRAIISLWK	QELKD
UniRef90_C9Q9U2	RELAPE FVTG
UniRef90_UPI0002557E95   PALLPVAADLRHVEYGVQPAHYEAVGASLLRTLE	ĀĞĻĢĒ
UniRef90_H6RLL7	EHFDP DVIGE
UniRef90_UPI00031999E4 PEQLLPVLQQLRHEGYGVKKAHFTPVGNALLHTLK	V G L G D
UniRef90_UPI000344B12C KA   L   R G   L   G A R   H   V   K Y G A   L   P E H Y P   L V   G G A   L L   T T F Q UniRef90_W9VZS9   L   E T A   V   S R   L   G N K H A   S   L   D   L   Q P D Q Y P   L V   G E E   L L T S   L   K	QYLGE QVIGE
UniRef90_E1V3U8 QARHALETVVNKHVSLDIQPDQYPLVGECLMAAIG	D V L G E
UniRef90_L8LTA2	QKILIGQ
UniRef90_K7RW75  A H K H T S F N I Q P E Q Y A I V G H H L I E T L R	RELAPD

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UniRef90_B9CTU8 UniRef90_R7WQA6	DDDHEIIKTWKKAYQDIADVFIS DVTPEIAAVWDHVYWLMAADLIRAYR
UniRef90_N1USI6 UniRef90_Q0CVY7	VITAEIAEAWTEVYWLMADALIK ALTPEIHDAWATAYWMLANLMIQR
UniRef90_I4X1Z4	A A T D E I LE A WA E A Y GVI A D A AVT P E VAN A WD E LLY WE MA DV L VR
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UniRef90_DFIUU04UBC6A2 UniRef90_B9CTU8 UniRef90_R7WQA6 UniRef90_N1USI6 UniRef90_Q0CVY7 UniRef90_L7KGY0 UniRef90_L7KGY0 UniRef90_F0RQV1 UniRef90_C6WD65 UniRef90_C1AE78 UniRef90_V5GLC7 UniRef90_V5GLC7 UniRef90_F3HEE7	LFTKEEMEAWKKALDVAIDLTAKSFR ELTDEVINAWAAAYQQLADILINAER
UniRef90_UPI0003F05CC0	N W N P A V G E A W E Q L F K C V S S R M K D G F F F T A D C F A A W V K T Y T L L A T T M K D A
UniRef90_097381	S A D L A A WRK G WD SI VDI L E A G
UniRef90_O97381	SAD LAAWRKGWDSI VDI LEAG
UniRef90_A0A033V6X9	EILTDEVINAWAAAYQQLADILINAERNWNPAVGEAWEQLFKCVSSRMKDGFEFTADCEAAWVKTYTLLATTMKDASADLAAWRKGWDSIVDILEAGSADLAAWRKGWDSIVDILEAGSADLAAWRKGWDSIVDILEAGKLDYETKEAWTTLYNVIADLIEIYRAATDDIMNAWEEAYGEIAGVDFTPEIREAWAETYGVVAGLMRSAAATPEILAAWDEAYWLLACELVAR
UniRef90_M7XWG2 UniRef90_UPI00037A7EB7	D F T P E    R E A WA E T Y G   V V   A G   L   M R S A A <u>A</u> T P E    L   A A W D E A Y W L L   A <mark>C E L V</mark>   A R
UniRef90_B6H132 UniRef90_UPI000349CB92	A L T P E I H D A WA T A Y W Q L A D I M I A A T P D V V A A W D F V Y W I M A G S I I A
UniRef90_M5QHT2 UniRef90_P08054 UniRef90_I9CP50 UniRef90_L7EYU3 UniRef90_C5AB71	DIT A QV LA A WG A A Y N QL A DI L I N WS D E M G O A WT E A Y N O L V A T L K A
UniRef90_I9CP50	N WS D E MG Q A WT E A Y N Q L VA T I K A D F T P E V R E A WT E T Y T L V A G L M K
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UniRef90_Q7M455	EFMVEMQAAWDKFLTGVAVLEEKYRTCTDQHIQAWWKLIDVVCAVLEEKGWTPEVEKAWTDAYTLAGQAMSQADENHPIIQAWWKLIDVVCAVLEEKGWTPEVEKAWTDAYTLAGQAMSQADENHPIIQAWTEAYGVIADATFISAAFTPELREAWTATYGLVAGLMSGAAREITGEVLAAWGAAYGVLADTFISAAFTPELREAWTATYGLVAGLMSGAAREITGEVLAAWGAAYGQLADILIAKRFTTEDEAAWKAAYWQLADLFIKRKFTTEDEAAWKAAYWQLADLFIKRKFTTEDEAAWKAYGQLADIFIKRKFTTEDEAAWKAYGQLADLFIKRKFTTEDEAAWKAYGQLADLFIKRKFTTEDEAAWKAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASDELIEAWGAAYGQLADLLIAASTATDEIIDAWKEAYWFLADLLIQAAYTPEIIDAWKEAYWFLADLLIQAAATDEIIDAWKEAYWFLADLLIQAAATDEIIDAWKEAYWFLADLLIQAAATDEIIDAWKEAYWFLADLLIQAAATDEIIDAWKEAYWFLADLLIQAAATDEIIDAWKEAYWFLADLLIQAAATDEIIDAWKEAYWFLADLIFIS
UniRef90_F4CV93 UniRef90_E8SF45	G W I P E IV E K A WT D A Y T L A G Q A M S Q A D E N H P I I Q T W A K A Y G V A D A
UniRef90_F8ELZ1 UniRef90_I3FA62	DFTPEIQQAWTDVFRVMSDTMIEAAH AATDELLQAWTEAYGVLADTELS
UniRef90_B0UPW9	A F T P E L R E A WT A T Y G L V A G L M S G A A R
UniRef90_B8MAY8	ALTPEN HDAWAAAYWQLADLEN AK
UniRef90_R4V4K7	K E T T E D E A A WK
UniRef90_L7LC87 UniRef90_R7BX74	A UT P E V A A A W D E L Y W E M A R V L I A A S D E L I E A W G A A Y G Q L A D L L I
UniRef90_I2G907 UniRef90_M5DQW7	M S Q D E V A S A W T K M M E G V A S N L S K G V V T E E V A D A W G A A Y Q Q L A S L L I
UniRef90_D0MR65 UniRef90_Q5B7F8	AAT DEI TDAWKEAYWFLADLLIQA AVTPPVADAWTAAYQQLADIFIS
UniRef90_UPI000373082F UniRef90_I3CJ89	AATDELTQAWAESYGVIADVFIS AFTPELKQAWENTYNTLAELMKKG
UniRef90_UPI0002627209	D WT D E  V  E R A WA E A F T   I I   A R Q M Q E A
	GAAPEVTQAWEKAYGVIADA AATDDLLSAWAQAYGNLADIL
UniRef90_U6PGL3 UniRef90_K7EFP3	DFDEEAKQAWSTLYDLIAEVI ELYR
UniRef90_UPI00036530AA UniRef90_H1V620	D V T A E V A E A WT A V Y W S M A D M L I G R E R A M T P E I R E A W T K A Y W L L A K M L I
UniRef90_UPI00037EC7DA UniRef90_UPI0002556D92	H WN P E L E VA WG K A Y Q Y L S K L MI R A R H E L T D Q V L E A WA Q A Y G Q L S D I L I A A
UniRef90_D8G1W5 UniRef90_R5Q9R1	EFTIPVRKAWEEAYTFLSEIMKEA AATPELIDAWTAAYGMLADILIKA
UniRef90_A7RWR6	A WD F Q V E E A WN R T F D S I T A M L R G G WD E E H K E A WT L V Y G V L S K T M I D A D F P P E T Q R A WA K L R G L I Y S H V T A A Y
UniRef90_B8C6B7 UniRef90_K7EIM9	DFPPETQRAWAKLRGLIYSHVTAAY
UniRef90_UPI0003731866 UniRef90_D9VZ36	A WT P E LA K A WT D A Y G V L S G M M S E A Y A WT P A V E K A WY E A Y Q V I A D A M T A G
UniRef90_G8X712 UniRef90_B6ZIV8	SATADL LSAWTKAY GQLAQLMI D DATLSAWGKT VEF
UniRef90_U5D7L0 UniRef90_K0Y464	G W T P E T E K A W A E A Y G V I T E V M A A T P E I I D A W G K A Y G V I A D V
UniRef90_L5N6T1 UniRef90_Q9M630	GATEEVLGAWERAYGVIASV LWSPELKSAWGDAYDMLAEQVKAEMH
UniRef90_F7A367	NSNSAI LQAWUKAYGULRNGIVRG DVT TDVAAAWDAVYWHMARTLIE
UniRef90_UPI000262A1FA UniRef90_UPI0004433CBE	T F T I V I T M K E A W T Q I L I Y G A I V V I Q A M S R G W
UniRef90_UPI00036EED99 UniRef90_U1KRK6	A A T P D I M E A W K E A Y W F L A D V L I E R Q F T A E V E Q A W A E A Y A F L A D
UniRef90_Q9KZ38 UniRef90_H2AQS4	A V T P A V A A A W D E V Y W L M A N A L L A A A T P E I L Q A W A E A Y E E I A N V
UniRef90_S9QZE0 UniRef90_T1F484	Q A T D E V I A A WA A A Y Q Q L A D L L I S
UniRef90_C9Q9U2 UniRef90_U1EBY4	VYTNELSEAWHKVLVYIVSKLKEGY AFTEQVEEAWTAAYFFLAQVFIDR TDDSEVIQTWGKAYQAIADA
UniRef90_UPI0002557E95 UniRef90_H6RLL7	DFTPEVKAAWVTAYTTLSGAMI EWTPELAKSWAEAYDVVATVMIQG
UniRef90_U1N4I8	A A T P D        D A W A K A Y G V    A D V  F     S
UniRef90_UPI00031999E4 UniRef90_UPI000344B12C	D F T R E T R D A WVE L I H F V A D T M K A K W T P E V K Q A W T D A Y G A I T E I M
UniRef90_W9VZS9 UniRef90_E1V3U8	AVT E EVÎDA WKAAY G QL A DI L AVT E EVADA WGALY QEL A DL LIS QRYR
UniRef90_L8LTA2 UniRef90_H2YFM6	A V T E E V A D A WG A L Y Q E L A D L L S Q R Y R D F T P E V Q K A WA A V Y N L L S G V L S R D L E G V V M Q T WA K A Y G A L E A G L T K
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UniRef90_W4QGW9	LISTKTLKLIKSTAPILKGVDITSHFYESMFNDHPELLH
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UniRef90_A3YCM6	LSEQTVALVKATVPALNAHDIVNEMYSRLF QNPEIRD LSDQQISTVKSTIPLLEGPSLTQHFYKRMFEHNPELKD PLTPSTIALIKATVPALEAHDITKRMYERLFKNA EIRD
UniRef90_C7CFI4	LSDQQISTVKSTIPELEGPSLTQHFYKRMFEHNPELKDPLTPSTIALIKATVPALEAHDITKRMYERLFKNA EIRD
UniRef90_W7TW85 UniRef90_M7TXL9	ILISPHILVISIVVIKS LAPIVI IAAQRII ILQAFYPILLIES RYPAIVIQE
UniRef90_A0YNP8	SPQTIELIKSTAPLLKKQEITKRMYEIMFENHPEVKE
UniRef90_F2JVC0	ILIT O T HILID TIVIK A TILIPIL LIA S A AILIT T H F Y N R M F T H N P FILIK H
UniRef90_UPI00046ED6C9 UniRef90_M3V3X6	LSKQTRDIVKSTAPVLHGTAITSVFYQNLFAAHPELLN LSDTQRATIAATLPAVEGPQITPRFYEGLFTAHPDLLD
UniRef90_V5G252	MT P F O I N I I K A T V P V I G F H T V T T V F Y K N I T S A H P F I N S
UniRef90_UPI000464E2AB	MNEQQKALVRAIVPVLSGVALISHFYNRMFIHNPELKN
UniRef90_F1YMN1 UniRef90_B7QHN5	S S D T K L V L E A T L P V V E S P E L T P R F Y D R M F T A R P E L L R L S K R D T K L I R N S W S M L C K Q H P K A D L F K A L F T K H P D F M A
UniRef90_D5QHT9	A PILID D Q I R SII I LIA I IVIP AILIK A H AII II I E M Y K R IL LIE I
UniRef90_T0HDG2 UniRef90_UPI00035A19D6	P L S S Q T  L A L V  K A T  V  P A  L  E A  H D  L V  H  E M Y S R M F   Q N P D  L  R D   P  L  T T R E A Y K  L  K Q S W K A  L  N M E S T G  V  E M F  L  R  L  F K T S S  H  L  Q T
UniRef90_0F100033A19D0	L L K E S WS L V H Q D K V A G Y F Y A R M F L S H P D L R D
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UniRef90_A0A034WB94 UniRef90_UPI000371B894	L   N A E D       A E         K K T W A   V   A T P T D S G A A     L L     R F F T K Y P S N L   E   L E A R T     E     V K S T   V   P L L E S A A L T E H F Y Q R M F R D N P E L K D
UniRef90_F0YDX2	
UniRef90_UPI0003453855	I IS K K NILIEIL LIK S TIVIPIV LIE K K DILIT A R F Y QIL LIE D S H P FILLIN
UniRef90_UPI0003AAB814 UniRef90_K1PSK3	LT E E EVI AVE D S WS ML H R K E N GVKLF M N L Y S L H P A T I E
UniRef90_M2XD60	ILISESARPILLIEATAPIVILAILIPDILIAPKEYOSMEEAEPOILLIE
UniRef90_V6Z8I1 UniRef90_UPI00047C30DC	LSAESUGVIRETUPAVALDEITPUFYSKMFAAYPELLR _TTAQUELVETSFEKIKPRAVKASFYENUFETYPETQH
UniRef90_C5DS97	
UniRef90_I3KUU5	LSEQDRNII KATVPVLEQHTI TSLFYKNMLNEHEELRN LSKREKDLIKELWERLTAAEI GADALLRMFASYPGTKT LNEKTLALIKSTVPVLEVHAITKRFYQLLFTSHPELMN
UniRef90_C6D3F7 UniRef90_UPI00036F3778	F HII IR R I WARRHEADII IARDEY III I IF I II IAPEI RD
UniRef90_A6GNY6	
UniRef90_V4C2N0 UniRef90_UPI0003723B40	LT A A E K S L V A E A W K N I S P K D Y G V E L F M S L F T A H P D A L D  E A K R Q L I K E T V P V L H G T E L T T V F Y K R M F E A H P E L L D
UniRef90_B7QI99	LTTSD <u>K</u> CAI  KDT <u>W</u> T <u>MF</u> RRET <u>R</u> TNALFVALFSRYPE <u>YQ</u> K
UniRef90_W4Q2J8 UniRef90_T0HX42	L D S R T   E         K S T   V   V   L   H G T A     T T   H F Y K T   L F N N   H P E   L   H P   L S D Q T     A   L V K A T   V   P A   L E A   H D   L V   H E M Y A R M F   Q N P E   R D
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UniRef90_F5UFD7	LTEADVEI I KRT WPSANPHDSAAL I FST FLEKYPHNQQ ELLEQSFEKIKADEFAASFYEKLFTYHPELKP LSEQTRSL VKATVPVLQQHGVTSHFYRRMFEHNPELKN
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UniRef90_D5WFA2	LISAEHRAILITATVPLLLEGEALITTHFYRVMLSEHPEVRP
UniRef90_UPI000318168E UniRef90_P31331	HAEELT KVFYPDMFEAHPELLN LSAEQKTALKDSWKLLAANKNSAAMFGLLF <u>E</u> KYPD <u>T</u> KK
UniRef90_W9GC32	D T D R  L  K S T W G E  V   H G D D  V   A  L  Y F Y S H  L  F  V   T H P E  L  R D
UniRef90_UPI000273DCC4	LT KTERT I VS MWA KI S A D TI GTETLERLEFS HPQTKT
UniRef90_F6ZKU9 UniRef90_D3E6G0	PFT DEELKL LÄNSWKKL GMKEVGLHIFT GL LNAAPSLRT LSQRTIEVVKSTVPVLETHAITSAFYQKLFHHHPEL LN LCAEQRDLIKATVPLLEGEALTTHFYNLMLGEHPEVRP LTTQQKELVKSTLPALHGVTITTLFYKRLLEAHPELKN
UniRef90_W9SYY0	L CAEQRDL I KATVPLLEGEALTTHFYNLMLGEHPEVRP
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UniRef90_H5XB25	THI KQT WAQPYLPEI SQSFYNML FTLAPTARD
UniRef90_Q70PH6 UniRef90_C1C1M6	DI I NI QDS WN TILIK Y E TIVIG MIL V LIH RILIF N DA P QT R Y
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UniRef90_UPI000472B50F	LS AT VRELVKSTAPKTHGE ALT RHFY ARMFQHNPELKQ
UniRef90_L0G369 UniRef90_K1PM52	S K S T     E     V   K S T A P   V     K G E Q     T K   V   F Y K K   L   F E T H P D   L   R N   L   S E A E   L   D     L   E S S W G K   K K D R V   G   V V M F M N   L   F Q T H P E V   Q D
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UniRef90_E4NEA9 UniRef90_C3WD76	LS Q K T D L V K A T V P A L K G V E I T Q V F Y K N M L G E N P D I R A
UniRef90_UPI000466FF13	E HI E T S WA R P Y A D D L A Q H F Y R L L F T L A P S A R E
UniRef90_A1V0D2 UniRef90_M7P1D5	Q M I A E Q M A KIV K A I A P (V L I <mark>H</mark> G A I II   I K H F Y Q K M F G K H P E L   K N A L I E Q N F A A L E G E A L   A A R F Y F R   I F T N Y P K I   K P
UniRef90_G2KQM6	L S E A E L D I L E S S W G K L K K D R V G V V M F M N L F Q T H P E V Q D P L T P D Q I S V I K A T I P V L K E G G V T T K F Y E N M L N E K P E V R P L T P E Q V E I V R S T A P V L H G N A V T T L F Y N T V L E E H P E M H N D P T L I K S S F A A V E P H A V T A Y F Y T H L E E H N P D V R K L S Q K T I D L V K A T V P A L K G V E I T Q V F Y K N M L G E N P D L R A E H I E T S WA R P Y A D D L A Q H F Y R L L F T L A P S A R E Q M T A E Q M A R V K A T A P V L H G A T I T K H F Y Q R M F G R H P E L K N A L I E Q N F A A L E G E A L A A R F Y E R L F T N Y P K L K P L D Q K T I D L V K S T A P V L H G E T L T R H F Y Q R M F T H N P E V A P A S V A K L G C E D L G A D A L N R L F L V F P Q S K T L T Q K Q I L L V Q H S F S Q V E A E Q A A D I F Y G A L F E I D P S L K P D V S R L K R S W S A V H G D Q V P L Y F Y S T L F L T H P Q T R Q L T R E Q A H I I T T S T V P V H G A Q I T T V F Y A N M I R D V P E L K N
UniRef90_Q800M1 UniRef90_A8FPP7	A SIVIA KILIG <mark>O</mark> E DILIGA DALIN RILIFII VIFPQS KT
UniRef90_F4F1M8	ĎVŠŖĽŘŘŠWŠĂV <mark>H</mark> ĠĎŎVPĽYFYŠŤĽ <u>FĽT<mark>H</mark>PQT</u> RQ
UniRef90_V9D8T9	LTREQAHIITTSTVPVHGAQIITTVFYANMIRDVPELKN
UniRef90_D7HWU5 UniRef90_UPI000361A298	LISQQTMTII I QSTAPVLIH GIVAII T DRFYHL LIFSAH PALKH
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UniRef90_E9EIN2 UniRef90_UPI00037C46BB	APPTAEQILAI VKSTAPI I HGRAI TDAFYTNIL ISVHPELKN
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UniRef90_K6WGP8	DKQLLEESLTLVDLPDSGLTFYDLLFERYPAVKP
UniRef90_F2Q9W6 UniRef90_A0A014MS30	LIT DRQRAIL VIKSTVPLLIEGEALITTHFYOLMILSESDFVOP
UniRef90_B5WH75	L T S N Q R Y L I K A T V P L L E G E A L T R Y F Y K L M L D G Y P Q V R P
UniRef90_R7X262 UniRef90_K9VX73	DKQLLEESSLTLVDLPDSGLTFYDILFERYPAVKPLTPTQSRLVKESWKMFKKRENGFVIFRVLETDYPVTRKLTDRQRAIVKSTVPLLEGEALTTHFYQLMLSESDEVQPLTSNQRYIIKATVPLLEGEALTRYFYKLMLDGYPQVRPLSAASRPYIDASVPVLHGLAITRHFYASMFEAHPELRN
UniRef90_V9B7I3	
UniRef90_UPI00046F00C3	A PLÍD D A TRAI VKA CV PALE Á HTILT Q E M Y K R LLÁ Ť PEI R D Q D S L S L V L D D E H M L A F Y D R L F D E H P E V R P
UniRef90_J9SPJ1	Q D S L  S L V   D D E H M L A F Y D R L  F D E H P E  V  R P

A N Q S Q S Q T A L A N T V Y A A Q Y L D Q D A D M N M M Q A E T O S Q S Q T A L A N T V Y A A Q Y L D Q D A D M N M M Q A E T O S Q S Q T A R L A N A V X A A Q N L D Q D M N M M Q A E T O S Q S Q T A R L A N A V X A R N A D Q N L D Q D M N M M Q A E T O S Q S Q T A R L A N A V X A R N A D M D M D M M M Q A E T O S Q S Q T A R L A N A V X A R N A D M D M D M D M M M Q A E T O S Q S Q T A R L A N A V X A R N A D M D M D M D M M M Q A E T O S Q S Q T A R L A N A V X A R N A D M D M D M D M M M Q A E T O S Q S Q T A R L A N A V X A R N A D M D M D M D M D M M M Q A E T O S Q S Q T A R L A N A V X A R N A D M D M D M D M D M M M Q A E T O S Q T A R L A N A V X A R N A D M D M D M D M D M D M D M D M D M D		50 60 70 80
JAMESSON WINGOWS	UniRef90_R4XTP3	
Immeted   Deprocessor   Depr	UniRef90_W4QGW9	I F N H A N Q K K G R Q Q T A L A N T V Y A A A Q N L D Q
Interest		MF NQSHQGLTDAQPR ALIAESVLGAAENLDNATYLI
James   Jame	UniRef90_A3YCM6	VFNMAHQAEGTQSLALFNALAAYAKYILPMLTSAVQRI
SIMPLE   S	UniRef90_C7CF14 UniRef90_W7TW85	L F N K R N Q A P E P D G T P A R Q P Q A L A N A V WAY A A N L D N L S
J. RINGERO P. C. L. C. C. L. C. C. L. C.	UniRef90_M7TXL9	YF NSVNMQNGSQPRALTSLILAFASN ISHISE
	UniRef90_F2JVC0	V   F N M S N Q H T T R Q P T A   L   F N A   I   A A Y A T Y   I   D N   L   D
Jimpresson J. 1900004612AB   Jimpresson J. 1900004612AB   Jimpresson J. 190000461AB   Jimpresson J. 1900004661AB   Jimpresson J. 1900004666AB   Jimpresson J. 190000466AB   Jimpresson J. 19000046AB   Jimpresson	UniRef90_UPI00046ED6C9	A N Q A Q G R Q Q A A L A N A VY A A A VH I D N
Jinkengo Fiymmi	UniRef90_V5G252	V F   N T T S Q E T G H Q S K A L  S A A L  Y A Y A A N I  D
Jinkergo D B 70HN5		V F N Q G H Q N S G R Q Q E A L A G A V L A Y A E N L D L F N R T N Q A T G G Q P Q V L A G A V A A F A R L Q L F P D A F
Jimere   Dimor   Dim	UniRef90_B7QHN5	LFQH <u>F</u> KD <u>K</u> D <u>LIG VVLI</u> SDPQFA <u>LIH</u> S <u>S</u> A   I   QAFGT <u>I</u>
Jamesego UP10003A51950  Jamesego UP1000340808A51  JEF N H  P F R D V P VA EL N N S A R C R R Q D T A L L M N T V Y A A A L S D E L R S N E A L D R P D T S K M D T S C D T S C D	UniRef90_D5QH19 UniRef90_T0HDG2	LIFNQSHHGDAGSQPRA  LITGAIL LIAYANNI D
Junkergo Jupico04688451  Junkergo Jupico03478894  Junkergo Jupico03478894  Junkergo Jupico03478894  Junkergo Jupico03478894  Junkergo Jupico03489854  Junkergo Jupico03489855  Junkergo Jupico03489855  Junkergo Jupico03489856  Junkergo Jupico0348986  Junkergo Jupico0348986  Junkergo Jupico0348868  Junkergo Jupico0348886  Junkergo Jupico0348868  Junkergo Jupico0348868  Junkergo Jupico0348868  Junkergo Jupico048868  Junkergo Jupico048868  Junkergo Jupico048868  Junkergo Jupico048868  Junkergo Jupico048886  Junkerg	UniRef90_UPI00035A19D6	MFQGFKDIRSDDELRSNEALEYHATLVMTTLDDAITHIDN
Junkergo (Jungo) 40003478934  Junkergo (Jungo) 40003489384  Junkergo (Jungo) 40003489385  Junkergo (Jungo) 4000348385  Junkergo (Jungo) 40003489385  Junkergo (Jungo) 4000348385  Junkergo (Jungo) 400034885  Ju	UniRef90_UPI0004688A51	II IF N H A H Q K Q G R Q Q T A IL IA N S IV IY A A A K H II ID E
Jinkergo   POYDX2   Jinkergo   POYDX2   Jinkergo   POYDX3   Jink	UniRef90_A0A034WB94	K F P F R D V P V A E L N N S A R F R A H C G R I I K T F D Q S I S Q L Q K
Jankergo UP10003AABB14   F P I IT M D IV   N J M J M J M J M J M J M J M J M J M J	UniRef90_F0YDX2	L F
JAIRGERO MYSKS JAIRGERO WESSEL JAIRGERO WESSEL JAIRGERO WESSEL JAIRGERO WESSEL JAIRGERO JAIRGERO WESSEL JAIRGERO JAIRGER	UniRef90_UPI0003453855 UniRef90_UPI0003AAB814	L F P T T M D V Q R S R L L Q A T V H A V Q T V D D
Junker90   Vezzett   Junker90	UniRef90_K1PSK3	KFPILIFKGKT LEELISKHPKLPAHAMSIVMYALASYII DNILIHD
Junkergo   UP100047C300	UniRef90_V6Z8I1	DILIFN R G N Q A A G E Q P K A IL IA A S II IA A F A G MIV L IE G N G A
Jinkergo Jankuus Jinkergo Jopio03737878 Jinkergo Jopio03737878 Jinkergo Jopio0373878 Jinkergo Jopio0373878 Jinkergo Jopio0373878 Jinkergo Jopio0373880 Jinkergo Jopio0374880 Jin	UniRef90_UPI00047C30DC	ILIF GKTDMDKQGKKILLINSILI LLVEGILIRT
Jinkergo UP10003F3778 Jinkergo V4C2N0 Jinkergo V4C2N0 Jinkergo B7G1993 JIN	UniRef90_I3KUU5	YFSHL DISPNSSHLLAHGKKI VLAI AEGAQDI SQ
JAIRGERO JORGONYO JAIRGERO JOR	UniRef90_C6D3F7 UniRef90_UPI00036F3778	V   F N H A N Q R Q G K Q Q T A   L   A N T   V   Y A A A   L   Y   L   D K A F O G R   V V I V   H   I I I H   I V   D R P D D
Jinker90   UP10003723840	UniRef90_A6GNY6	FF N <u>P</u> AHQEKGTQPRALJANAV <u>L</u> JAY <u>A</u> KH <u>I</u> JD <u>N</u> PA
JAIRGE90_B70199 JAIRGE90_L701402_J8 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX42 JAIRGE90_T0HX50 JAIRGE90_T	UniRef90_V4C2N0 UniRef90_UPI0003723B40	I F NKTNQKVGDQPKALAMTVLAAARHIED
JAIRGE90 SYM54 JAIRGE90 CAYMS28 JAIRGE90 CAYMS28 JAIRGE90 DSWFA2 JAIRGE90 DSWFA2 JAIRGE90 DSWFA2 JAIRGE90 P31331 JAIRGE90 P313	UniRef90_B7QI99	M F P N F A D V A L K D M M Q C P S  L  T A H A  L  T  V    Y A  L  A S         E S     D D
Jinkel90	UniRef90_T0HX42	LFNQSHHGDAGS QPRALTGAI LAYASN TDNLAA
Jinker90 - OrNSD8	UniRef90_V5YM54	K F P A F K D K P L S D   L K N T V E F R A H A S R   F N V F S S V I D G L D R
Jinker90_UP1000318168E	UniRef90_Q7NSD8	IVIF NQGHQHSGQQQQAILIAMAIVLIAY ARHII IDD
Jinker90_UP1000318168E	UniRef90_H0JB43 UniRef90_D5WFA2	I F N G A H Q A S G A Q A R A L A R A V L M Y A R Y I D R L D  N Q S H Q A S G S Q A R A L A N G V V M Y A R H I D Q L E Q
JAIRGE90_VISIGC322 JAIRGE90_VISIGC322 JAIRGE90_VISIGC322 JAIRGE90_	UniRef90_UPI000318168E	<u>V</u> F N <u>V</u> A N Q A <u>V</u> G E Q P K A <u>L</u> A A S V <u>V</u> A F <u>A V</u> QL L  D P <u>D</u> A P
Jirikef90	UniRef90_W9GC32	M F P IL IT M D A Q R D R IL V IG A IL IG R IV V IS N IV ID Q IL IG E
JIRIRE190 D3E6G0 JIRIRE190 W9SYY0 JIRIRE190 W9SYX0 JIRIRE190 W9SYX0 JIRIRE190 W9SYX3 JIRIRE190 W9SYX3		Y F P H F G
Jirikef90	UniRef90_D3E6G0	F N H A N Q R E G K Q P F A   L   A N A   V   Y A A A A H   I   D R   L   E A   I V   P   V V   K
JniRef90	UniRef90_W9SYY0 UniRef90_Q4WC12	I F NTAHQATGEQPAALAHAVWAYASN I DQPEA
JniRef90_C10TH66	UniRef90_C7FFV8	V   F N   L   G A D P
Jinkef90	UniRef90_Q70PH6	LF S QLS LS S N E S QMR N N S R V YY H A N R V A G R L YD L I E L P T N
Jnikef90	UniRef90_C1C1M6 UniRef90_UPI0002DA83D1	K F F P E L H Q D E R K I L Q R H G A I L V L IK S V G K I L V A F L E A  G G A D M K A Q G Q K I M A A I G E V V G G I R K
Jnikef90	UniRef90_A8XTN6	LWPQFRALPDSSLM NAVELRRRHASVYLKGLGKI I ESMRD
JniRef90_UPl000472B50F	UniRef90_H5UA97	M F D G D T RIVIQ A R RIL IR S AII VISIV VIE HIVID D
JniRef90_K1PM52	UniRef90_UPI000472B50F UniRef90_L0G369	V F N Q G H Q Q S G Q Q Q A L A M A V A A Y A E H I D D D P S N M T N O V K G T O P K V I A N A T L O V A T V I E T
JAIREF90	UniRef90_K1PM52	ĀF MP F Q K LA Q E D MEHS ĂLLRS HALRV MGT V D K CLA R L RT
JAIREF90	UniRef90_A0A024JHJ2 UniRef90_N1PSX1	VF N Q T N Q V N N H Q A R A L I A G S T L Y A T Y I D D L I G K
JniRef90	UniRef90_E4NEA9	<u>L</u>   F A E H   L   N
JniRef90_A1V0D2	UniRef90_UPI000466FF13	IL IF PIVIS M Q A D N G RIVI VIR AIL L IR AIL IR IL VI <mark>H</mark> R P D D
JniRef90_G2KQM6	UniRef90_A1V0D2 UniRef90_M7P1D5	V F N Q T H Q K T G S Q P E T L A K A V Y A Y A A N I D N L G
JniRef90_F471M8	UniRef90_G2KQM6	F F N P A H Q K S G S Q Q R A L A A A I C A Y A A N I D N L E
JniRef90_F471M8	UniRef90_Q800M1 UniRef90_A8FPP7	Y F S H F NILIN P G S K DII I H Q G E K V G K A L D S A X K H L D D  L F R S NI K M Q G R K I M S MI K A A V D G I N D
JniRef90_D7HWU5	UniRef90_F4F1M8	IL IF P T N M A G Q R D R IL V A A IL IG H I V IS Q IV ID Q IV ID R
Drikef90	UniRef90_V9D819 UniRef90_D7HWU5	L F N Q A N Q A S G A Q P R A L   A N A V L   M Y A R N   I D R L   E
Drikef90	UniRef90_UPI000361A298	N M S N Q S E G T Q K K A L A Q A V Y S Y A Q H
Drikef90	UniRef90_E9EIN2	Y F S L R N Q Q T G A Q Q L A L A N A V F A Y A A Y I D D L G K
JniRef90_K6WGP8	UniRef90_UPI00037C46BB UniRef90_P02233	IL F N Q S N Q G E G G R Q T K A L A Q A IL LA Y A Q N L D N L T V IL E S E IL K D T A G V E D S P K IL Q A H A E O V E G IL V R D S A A O IL R T
JniRef90_A0A014MS30	UniRef90_K6WGP8	M F Q R D T R V Q A E M L  R I  A  V V S  V L  D H L  E D
JniRef90_B5WH75         L F N Q T H Q A S G S         Q Q R A L A N A V L T Y A R N L D H L E A           JniRef90_R7X262         L F N Q T H Q A S G S N M G N Q A S G A Q Q Q S L A S A V F A Y A A N I D N           JniRef90 K9VX73         L F N Q T H Q A S G S N M G N Q A S G A Q Q Q S L A S A V F A Y A A N I D N	UniRef90_F2Q9W6 UniRef90_A0A014MS30	ILE NSVHOOTGAOPRALIARSVIMYAKH IIDDIIS
N   M   G   N   Q   A   S   G   A   Q   Q   G   C   C   C   C   C   C   C   C   C	UniRef90_B5WH75	L F N Q T H Q A S G S Q Q R A L A N A V L T Y A R N L D H L E A
JniRef90_V9B7I3       L F N Q G H Q Q S G Q Q Q A L A A A V A A Y A E H I       D         JniRef90_UPI00046F00C3       L F N M S H Q K D G E Q P R A L A L A V L A Y A R H I       D         JniRef90_J9SPJ1       G A D L R P Q A T M L Q Q A L A V L D H L D D A E W L G R	UniRef90 K9VX73	L F N M G N Q A S G A Q Q Q S L A S A V F A Y A A N I D N L F A N T E M A K Q Q K K L L N A L V L V V E N L R S
JniRef90_J9SPJ1 LF GADLRPQATMLQQAIDAAV LDHLDDAE WLGR	UniRef90_V9B7I3	L F N Q G H Q Q S G Q Q Q A L A A A V A A Y A E H I D
	UniRef90_J9SPJ1	GADERPQATMEQQAIAAV LDHEDDAE WEGR

	90 100 110 120
UniRef90_R4XTP3	DPSVIAPVVTRIVHKHVIRPEHYPIIVIGKHIIIASIIREIVIGE
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UniRef90_F8I6Y7	RDAL QTIAHKHRSLEVKPDHYPLVGRVLLQTLAESLGP
UniRef90_UPI000465C560 UniRef90_A3YCM6	NEGALA PAVERIA QKHQI LPEHYPHVA EALL GAI KAVLGD AHKHTSLDI RPAHYDLVGLHLI ETLRELAGD
UniRef90_C7CFI4	LIS GAIVIERII IA QK HIVIAILINII LIPEHYPYIVIA DAILLIA AII IGDIVLIGE
UniRef90_W7TW85 UniRef90 M7TXL9	ALSAAVSLIAHKHASLHVLPEHYPMVGECLLAAIAQVLGP LIPMMERVAQK HTSLNIQAEDYDLVGKFLLRAFAAVLGP
UniRef90_A0YNP8	LEAUKSMIVÄHRHVQTHVQPEQYSMVGESLLQAMKDILGE
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UniRef90_M3V3X6	
UniRef90_V5G252 UniRef90 UPI000464E2AB	NEGALSA AVELTONKHHI QPDHYKI VGKYL TEAMQEVLGA DPSVL LPVVERIAHKHNI RAEHYAI VGKHL LASIQEVLGD
UniRef90_F1YMN1	RMRFVIDRIAHKHASLGIVPEQYPIVHEHLFAAIVDVLGD
UniRef90_B7QHN5 UniRef90_D5QHT9	P A G V V A K N A T D H T T R K G V Q P S H F E A M L N V V L E V L Q D K L G S L G G M V E R L A E K H V G L N I L P E H Y P Y V A T A L L G A I G H V L G D
UniRef90_T0HDG2	NLGALAPAVERIAQKHQLLPEHYPHVAQALLGAIKAVLGD
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UniRef90_UPI0004688A51	LEKILPVVKQHKHRSLGVKAEHYPLVGEHLLMAIKDVLGD
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UniRef90_V6I8G9 UniRef90_D0FZZ1 UniRef90_M3D9H8	A D F D MV L K C WG PV E A D K H G G L V L S R L F A E H P D T L K
UniRef90_G9ZW14 UniRef90_F1Z383 UniRef90_UPI0003624766 UniRef90_E9EFU4	PLISDQIII ALVKAIVPALEAHAIIRRMYERME QNEAIRD LTPEQSAIIKATVPLLEGEALTTHFYKIMLGEYAEVRP PLTPATII ALIKATVPALEAHTIITKRMYERLE QDPAMRD
UniRef90_A3LXI9 UniRef90_UPI0003C168BE UniRef90_A4C946	MT P H QVE I VIQA S WE K V VIA K D A A DI F Y G K II E FI N P ALI R P
UniRef90_J2K0H0 UniRef90_R7QRC5 UniRef90_T1FAW0 UniRef90_UPl0004732267	LIRRTMAEIEADKVTSYFYALLFVQYPDLRA TPETIAIVKSTVPILNLTEVITRFYENLFSTYPELKK APLTDPQKRKLNETWALIEIEKKGTRMFKLLFHKNPFIKN MNQHEIDIVKSTAPVLAGEQITTCFYRNLFEAHPELLN CLGRFFTGHPESKQ
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L L S GV
V D N L D
A Q H D
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A K Y I D
C A N N L
I D Q L E UniRef90\_W7S8R2 UniRef90\_P41262 UniRef90\_UPI0004025F08 UniRef90\_W7ZSA4 UniRef90\_A0A023DD74 UniRef90\_Q6C8Y1 UniRef90 UPI00034D8457 UniRef90\_U6BCV3 UniRef90\_UPI00036E5B2D UniRef90\_V6I8G9 UniRef90\_D0FZZ1 UniRef90\_M3D9H8 UniRef90\_M3D9H8
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Unimergio   DofZZ1	UniRef90_W7S8R2	VD PV VR RI A H K H A SLGI R P E Q Y T L VG R H L LS A V A R V L G P
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LE N A L K GL G T R	UniRef90_B3SGL5 UniRef90_N2IVI4	I   Q G A   V   D K   I   <mark>C</mark> A R   H   V   A T H   I   K P E H Y P A   V   A N A   L L   P A   I   R D   V L   G D
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UniRef90_Q1QCV6 UniRef90_UPI0003611FF6	A   V   K A T   V   P   V   L   H   G T   A     T T   V   F Y   K N   M   F   H   P   E   L   D    T S E D A A L I V R S M E A V A A D K V V S Y F Y A T   L F   L H N P H   L R E    A P   L P E S Q   L A   V   K S T   A P   V   L H   G   V   L T   T   V   F Y   E N   M   L R E   H   P E   L N N
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