| QUERY UniRef90_W5NGN6 UniRef90_A7S4V3 UniRef90_Q6F7X1 UniRef90_UPl00039D9733 UniRef90_G6D9M8 UniRef90_A6GNA9 UniRef90_D2Q476 UniRef90_UPl0003B7036F UniRef90_U2E149 UniRef90_UPl000374D8AB UniRef90_UPl000374D8AB UniRef90_H7D6 UniRef90_T2MFV8 UniRef90_T3MFV8 UniRef90_H5NUK0 UniRef90_F8UHY1 UniRef90_H3NUK0 UniRef90_B8R5G8 UniRef90_L0GSY7 UniRef90_E4NCD5 UniRef90_B7GCF6 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_A0A058ZGK3 UniRef90_B4DG5 UniRef90_B4DG5 UniRef90_B5DM37 UniRef90_D8HVG5 UniRef90_D5EQK3 UniRef90_D5EQK3 UniRef90_UPl00037AC21E UniRef90_D5EQK3 UniRef90_UPl0003B3CEF7 UniRef90_UPl0003B3CEF7 UniRef90_UPl0003B3CEF7 UniRef90_UPl0003B3CEF7 UniRef90_UPl0003B3CEF7 UniRef90_UPl0003B3CEF7 UniRef90_UPl0003B3CEF7 UniRef90_UPl0003B46F43 UniRef90_UPl0003B46F43 UniRef90_D7CR939 UniRef90_LASCGB0 UniRef90_LA | VIVVVVITTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | | A Y S L L F S I A K G D V F G K D Q P I I L L L L A Y S L L Y M V A K G D V F G R D Q P I I L L H L L S Y S L L F R I A S G Q M F G S D T P V I E L R L L G Y S L L F R I A S G Q L L G Q D V P V K L R L L G Y S L L F R I A S G Q L L G Q D V P V K L R L L U G Y A L L F R I A S G Q L L G Q D Q P V I L H L V G Y S L L F R L A S G D M F G P D Q P V I L H L L G Y A M L F R L A S G D M F G P D Q P V I L H L L G Y S L L F R L A S G D M F G P D Q P V I L H L L G Y S L L F R L A S G D V F G K D V P V E L A L L L G Y S L L F R I A S G D V F G K D V P V E L A L L L G Y S L L F R I A S G D V F G K D V P V E L A L L L G Y S L L V R I A S G D V F G R D Q P I I L H L L G Y S L L V R I A S G D V F G R D Q P V V L M L L L G Y S L L V R I A S G D V F G R D Q P V V L M L L L G Y S L L F R L A S G D V F G R D Q P V V L M L L L G Y S L L F R I A S G D V F G R D Q P V V L M L N L I S Y S L L F R I A S G A M F G P N Q P V A L N L I S Y S L L F R I A S G E M L G R D Q R V I L Q L L S Y S L L F R I A S G E M L G R D Q P V I L Q L L A Y S L L F R I A S G E M L G R D Q P V I L Q L L A Y S L L F R I A S G E M L G R D Q P V I L Q L L A Y S L L F R I A S G E M L G R D Q P V I L Q L L A Y S L L F R I A S G E M L G R D Q P V I L Q L L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G E M L G R D Q P V I L Q L L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V I L Q L L A Y S L L F R I A S G S M L G P D Q P V |
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| UniRef90_K4G5N6 UniRef90_D5STY3 UniRef90_A0A034W6Y2 UniRef90_R5EG60 UniRef90_K2B930 UniRef90_C1LBX1 UniRef90_C1LBX1 UniRef90_V4JQ14 UniRef90_K8EDN9 UniRef90_K6W9P9 UniRef90_I6WSS7 UniRef90_Q5X2T6 UniRef90_UP1000376E18E UniRef90_UP1000376E18E UniRef90_A0L5T9 UniRef90_L7VYD3 UniRef90_Q9FNR7 UniRef90_UP1000359DDEE | P V R V A V T T O O O O O O O O O O O O O O O O O | G G G G G G G G G G G G G G G G G G G | A Y S L L Y S I A S G E M E G N D Q P L I L L L G Y A T L F R L A S G E I F G A Q Q P V I L H L I L A Y S L L Y M I A R G E V F G K E Q P L V L H L L G Y S L L F R I G A G D M L G T D Q P L I D L M M L G Y S L L F R I G A G D M L G T D Q P V I L L L L G Y S L L F R I A S G E M L G K D Q P V I L L L L G Y S L L F R I A S G E M L G K D Q P V I L L Q M L G Y S L L F R I A S G E M L G K D Q P V I L Q M L S N H L L F K I A S G E M L G P D Q P V R L R L L G Y A A L V F R I A A S G D M F G P N T E V E L N L L G Y A A L V F R I A A S G D L L G D E P V E L R L L G Y A L V F R I A S G E V F G P D Q P I R L Q L I G Y S L L F R L A S G E V F G S D T K I S L H L L G Y S L L F R L A S G E V F G S D T K I S L H L L L A Y S L L F R L A S G E V F G S D Q P I L L L L L A Y S L L F R L A S G E V F G S D Q P I L L L L L A Y S L L F R L A S G E V F G S D Q P I L L L L L A Y S L L F R L A S G E V F G S D Q P I L L L L L L L F R L A S G E V F G S D Q P I L L L L L L L L F R L A S G E V F G S D Q P I L L L L L L L L L F R L A S G E V F G S D Q P I L L L L L L L L L F R L A S G E V F G S D Q P I L L L L L L L L L F R L A S G E V F G S D Q P I L E L L L L L L L L F R L A S G E V F G S D Q P I L E L L L L L L L L F R L A S G E V F G S D Q P I L E L L L L L L L L F R L A S G E V F G S D Q P I L E L L L L L L L L F R L A S G E V F G S D Q P I L E L L L L L L L L F R L A S G E V F G S D Q P I L E L L L L L L L L F R L A S G E V F G S D Q P I L E L L L L L L L L L F R L A A G G M L G P D T S V R L R L L L L L L L L L L F R L A A G G M L G P D T S V R L R L L L L L L L L L L L L L L L L |
| UniRef90_C5C858 UniRef90_I3LBY9 UniRef90_UPI00016C5284 UniRef90_TORJL6 UniRef90_D0WNS0 UniRef90_D0A8Y7 UniRef90_UPI0002193EFC UniRef90_C0XRG9 UniRef90_W5EJL1 UniRef90_I0IFE6 UniRef90_B4RCG7 | T Q P V N V S V T O | G A G R V G A G Q V I G A G Q V I G A G Q Q I G A G Q Q I G A G Q Q I G G A G Q I G G A G Q I G G A G Q I G G A G Q I G G A G Q I G G A G Q I G G A G Q I G G A G Q I G G A G Q I G G A G Q I I G G A G G A G Q I I G G A G G A G Q I I G G A G A G A G A G A G A G A G A G A G A G A G A | GYALLFRIASGALLGSDTPVRLNLL GYALLFRIASGALLGSDTPVRLNLL GYSLLPLIAAGRMLGFDQRVQLQL |

| QUERY UniRef90_W5NGN6 UniRef90_A7S4V3 UniRef90_Q6F7X1 UniRef90_G6F7X1 UniRef90_G6P7X1 UniRef90_G6D9M8 UniRef90_B02Q476 UniRef90_D2Q476 UniRef90_Q21K60 UniRef90_UPl0003B7036F UniRef90_UPl0003B7036F UniRef90_UPl0003B7036F UniRef90_UPl000374D8AB UniRef90_UPl000374D8AB UniRef90_L7MFV8 UniRef90_H3NUK0 UniRef90_F8UHY1 UniRef90_F8UHY1 UniRef90_B8R5G8 UniRef90_B8R5G8 UniRef90_B8R5G8 UniRef90_L0GSY7 UniRef90_E8RCE7 UniRef90_L0GSY7 UniRef90_E9RR1 UniRef90_E9RR1 UniRef90_E9RR1 UniRef90_B4NQQ2 UniRef90_B4NQQ2 UniRef90_Q4PP81 UniRef90_D7GCF6 UniRef90_A0A058ZGK3 UniRef90_A0A058ZGK3 UniRef90_H2TUL9 UniRef90_T6GE6 UniRef90_D8HVG5 UniRef90_D8DA8 UniRef90_D5EQK3 UniRef90_D5EQK3 UniRef90_D5EQK3 UniRef90_D5EQK3 UniRef90_B5JM37 UniRef90_B5DBE UniRef90_UPl000359DDEE UniRef90_UPl000359DDEE UniRef90_UPl000359DDEE UniRef90_UPl000359DDEE | 89 |
|---|--|
| UniRef90_D0WNS0 UniRef90_D0A8Y7 UniRef90_UPI0002193EFC UniRef90_C0XRG9 UniRef90_W5EJL1 UniRef90_I0IFE6 UniRef90_B4RCG7 | EIPQAUKAAEGTAMELNDSAFPLLESVNVYDGIDDAFDGT DISPALKALEGIRAELMDCSFPLLDGVVITDEPKVAFAKA EIPDAVRAAEGVAMELADSAFPLLRSVDVTDDAATAFAGA EIPDAVRAEGVAMELADSAFPLLRSVDVTDDAATAFAGA EIPDAVRVAEGVAMELADSAFPLLSSINVSDSAEQAFDGV GSESSVHALEGVVMELQDSLYPLLREVSLGIDPYVIFEDA EVPKAMHALEGVVMELEDCAFPLLAGTVCTSDATEGFKEV EIPAEQKALKGVAMELEDCAFPLLQDMVLTDDANVAFKDA |

| | 00 400 440 400 |
|---|--|
| QUERY | 90 100 110 120 G <u>V</u> L L <u>A</u> G Q R A K N A A K <u>N</u> L K A N V K I F K <mark>C</mark> Q G A A L N K Y W K K S V <u>I</u> V |
| UniRef90_W5NGN6 | DAI LVGSMPRERKDLLKANVNIFKSQGAALDKYAKKTVKV |
| UniRef90_A7S4V3 | D V |
| UniRef90_Q6F7X1 UniRef90_UPI00039D9733 | Y A IL L V IG A K P R E R K D IL L IE A N A S II IF S A Q G K A IL IN D IV IA S R D IV IR IV |
| UniRef90_G6D9M8 | A A F L V G A M P R E R K D L L S A N V R I F K E Q G Q A L D K V A R K D V K V |
| UniRef90_A6GNA9 | DIVIT VIGARPRERKDII LIEANGAILIETIVIOGKAILINDNAKPTIVIKIV |
| UniRef90_D2Q476 UniRef90_Q21K60 | NVLLVGARPRERGDLLEANGAI FTGQGKALNDHAADDI RV YALLVGARPRERKDLLEANAAI FSVQGKALNDHASRDI KV |
| UniRef90_UPI0003B7036F | Y AIL L VIGAMPRERGDIL LISANGGII IF KPQGEAII IN AIVIA KRDII IKIV |
| UniRef90_U2E149 UniRef90_E0VFB4 | DILLVGAKPRERADLLKANADIFSVQGKAINDHASRDVKV DAFLVGAMPRERKDLLSANVKIFKLQGEALDKFAKKTVKV |
| UniRef90_UPI000374D8AB | CALL V GARPRERROLLS ANAQI FTAQGKALNAVARROVRV |
| UniRef90_K1PU26 | DIVIA MIVIG A MPRERKDIL LIA A NIVIKILIEKS QGQAILID KIVIA K K TILIKIV |
| UniRef90_T2MFV8 UniRef90_I1FND6 | D V L L V G A M P R E R S D L L K A N A K I F E T Q G K A L D T Y A K K T V K V D V I L V G S M P R E R S D L L K A N A K I F E T Q G K A L D Q F A K K T V K V |
| UniRef90_F8UHY1 | D V L V G A R P R E R K D L L E A N G A I IF T V Q G R A L D E G A S R D V K V |
| UniRef90_H3NUK0 UniRef90_G0QR65 | Y A L L V G A R P R E R K D L L E A N A A I F S A Q G K A M N A V A S R G I K V Y A L L V G S K P R E R S D L I K D N G K I F V D T G K A I N D N A N R N I K V |
| UniRef90_B8R5G8 | D V |
| UniRef90_A4BT20 | H F I L I G A K P R E R R D L E A N A A I F S Q Q G K A I D A M A S R S V R V |
| UniRef90_E8RCE7 UniRef90_L0GSY7 | F A L L V G S R P R E R S D L L N A N G A I F T V Q G K A L S D N A K P N V R V Y A L L V G A R P R G R G M L L Q E N A K I F I E Q G R A L D E V A S R D I R V |
| UniRef90_K0C734 | F A F L V G A R P R E R K D L L E A N A A I F S V Q G K A L N K V A K R D V R V |
| UniRef90_E4NCD5 UniRef90_G9PER1 | N V L L V G A R P R E R G D L L S A N G G I F G P Q G K A I N A N A A D D I K V N I F L V G S M P R E R S D L L Q A N G G I F G P Q G A A I N A V A A D D I K V |
| UniRef90_F8GE84 | DILLI VIGARPRERK DILLIA ANG PILIEILIA QGRAILINIVIA AKRNIVIKIV |
| UniRef90_Q4PP81 | S A F L V G A M P R E R K D L L S A N V K I F K V Q G E A L D K F A R K D V K V |
| UniRef90_B4NQQ2 UniRef90_Q47C34 | DIV L L VIG A R P R E R A DIL LIT A N G A II IF T IV IQ G K A II IA E N A K E D IV IK IV |
| UniRef90_D7GCF6 | NAML V GAMPRKRSDLL GANGKI FT GQGKALNKVA ADDVRL |
| UniRef90_A0A058ZGK3 UniRef90_H2TUL9 | NAML V GAMPRKRSDLL GANGKI FT GQGKALNKVAADDV RI QAI FL GAMPRERSDLLKANAKI FREQGEAMNRVASPDI K C DALL V GSMPRERKDLLKANVAI FKSQGSALEKFSKKTVKV |
| UniRef90_V5GL68 | SAFIL VIGSMPRERKDILLISANIVIKII IFKIVIQGEAILIDKYAKKDIVIKIV |
| UniRef90_E4WX88 UniRef90_T0GDL9 | DIV V I VIGAPGMERNDMII IAKNAFII IEKAQGAII I INTIVIAKKTIVIKIV |
| UniRef90_U1H656 | N A F L V G A M P R E R S D L L S K N G A I F T A Q G K A L N E V A A D D V K V |
| UniRef90_D8HVG5 | NILLVGARPRERGDLLEANGGIFKPQGEAINAGAADDIKV |
| UniRef90_A6C4P0 UniRef90_R5PL56 | F V V C V G S T P R E R G D L I R T N G P I F T S T G K A I E A A A A E D V R V D V L L V G A R P R E R A D L L N A N A E I F V A Q G R A L N E A A S R D C K V |
| UniRef90_V5DLA8 | Y A F L V G A R P R E R K D L L V V N A E I F S V Q G K A L N E V A N R N V K V |
| UniRef90_D5EQK3 UniRef90_UPI00037AC21E | WALL VGSVPRERGOLLGINGKVFTGQGKAI AANAADDVRV NAFLVGAKPRERADLLAENGRIFGPQGKAI GEHAASDIKV |
| UniRef90_0F100037AC21E | DIVIFIL VIG S M P R E R K DIL L IA A NIVIKII IF K S Q G H A IL ID Q F A K K S IVIKIV |
| UniRef90_B5JL49 | WAILL VIG SIVIP R F R K DILLISII IN G KILIF T S Q G K AILIQ F N A A S DILIR T |
| UniRef90_W2TAD7 UniRef90 UPI00036E172E | Y A FIL VIG A R P R E R K DIL LIEIVIN A EII IFIV VIQ G K AILIN AIVIA S R DIVIKIV |
| UniRef90_B5JM37 | WA L |
| UniRef90_A4QGA0 UniRef90_UPI000362CD90 | N A F L V G A K P R E R A D L L A N N G K I F G P Q G K A I N D N A A D D I R V S <u>A</u> F L V G A K P R E R G D L L A A N G T I F G P Q G A A I N E <mark>H</mark> A A Q D <u>V</u> R V |
| UniRef90_UPI0003B3CEF7 | DIVIFIL VIGAKPRGRKDIL I AANAGILIFAT QGKAILIN HSAKRDAKIV |
| UniRef90_P61977 UniRef90_UPI0003B31073 | Y A L L V G A A P R E R R D L L Q V N G K I F T E Q G R A L A E V A K K D V K V Y <u>A</u> L <u>L</u> V G A R P R E R K D L <u>L</u> T A N <u>G</u> G I F G P Q G T A L A A K A S K N V K V |
| UniRef90_Q8H0P9 | DV VMV G G P G M E R K E V M G K N V A I Y K G Q A S A L E E H A N P G C K V |
| UniRef90_M4CF15 | NIAFARKEGMERRDVMSKNAVI FKAQASALERYASDD <mark>C</mark> KV |
| UniRef90_UPI00037FD405 UniRef90_R7QQ53 | Y ALL V G A P G M E R K D L L M K N A Q I F Q K Q G S A L A A K A A T G V R I D I V L V G A F P R E R K D L L E K N L P I F E R Q A H A L N E H A S K H V K V |
| UniRef90_S2WNR5 | N A F L V G A R P R E R A D L L E A N G G I F G P Q G K A I N D N A A D D V R V |
| UniRef90_A5C6E2 UniRef90_UPI0003B46F43 | NIVMVGGFPRERKDMMKKNVSIVKAQASALEQHAAPN <mark>C</mark> KV |
| UniRef90_K0F1T3 | NVLLVGARPRERGDLLAANGGI FGPQGAAI NAGAADDI RV NVLLVGARPRERSDLLAANGTI FTEQGAAI NASAADDVKV DAI MLGAPGMERKDLLAKNONI FKEQGRLLNEVASKNVKV |
| UniRef90_L1JY01 UniRef90_C7R939 | DAI MLGAPGMERKOLLAKN <mark>C</mark> NI FKEQGRELNEVASKNVKV |
| UniRef90_K4G5N6 | NI L MV GAKPRERKOLL TONGKI FSALGKVI DQVADKNI RI DVI L I GSMPRERKOLL KANVRI FKSQGLAL DKYAKKEVKV |
| UniRef90_D5STY3 UniRef90_A0A034W6Y2 | WV L CI G S I P R E R S D L I R I N G P I F T N T G K A I N A A A S R D V K V A A F L V G A M P R E R K D L L S A N V K I F K A Q G Q A L D Q H A R K D I K V |
| UniRef90_R5EG60 | E |
| UniRef90_K2B930 | WAV L V G S V P R E R S D L L N I N G K I F T A Q G R A I N E N A A S D V R V D A I M V G A M P R R R K D L L K A N V K I F E V Q G K A I D E V A K K D V R V |
| UniRef90_B3S0L5 UniRef90_C1LBX1 | DAI MV GAMPRRRK DLLK ANVKI FEVQGKAI DEVAKK DVRV DVLMV GAIPRERK DLLSTNVKI FKQQGQALDKYAKK TVKV |
| UniRef90_V4JQI4 | DVLMVGATPRERKDLLSTNVKIFKQQGQALDKYAKKTVKV YAMLVGAKPRERKDLLMDNAKIFLEQGKSLNAVASRDVRV |
| UniRef90_K8EDN9 UniRef90_K6W9P9 | WALLIGAKPRERGDLLEMNGGLFAEQGKALNEVAKKT <mark>C</mark> KV FALLIGAQPRERADLLQANAAIFAEQGAVLNDVAADDIRV NVAMVGASPRERADLLEANAAIFAAQGRALAASAASDVRV |
| UniRef90_I6WSS7 | NVAMVGASPRERADL LEANAAI FAAQGRAL AASAASDVRV |
| UniRef90_Q5X2T6 UniRef90_UPI000376E18E | WAILL VIGSIVIPRERS DILLIQII IN G GII IFI K Q G Q AII IN D Y A S D DIVIRIVI |
| UniRef90_A0L5T9 | Y A L L V G Á K P R S R T D L L K D N Á É I F A K Q G K A L G Q Y A K P T V K V W C L M V G S R P R E R S D L I K L N G P I F V N Q G K A L N R A A Q D V R A V |
| UniRef90_L7VYD3 | WAMLVGSKPRERGDLIRENGPIFVGQGRALNKAANDVRAV |
| UniRef90_Q9FNR7 UniRef90_B7PRH2 | WAML V G S K P R E R G D L I R E N G P I F V G Q G R A L N K A A N D V R A V WALMV G A Q P R E R S D L I Q K N G Q I F Q T Q G R A L N E V A D R N C K V D V F L V G S M P R E R K D L L A A N V K I F K S Q G R A L D Q H A K K S V K V |
| UniRef90_UPI000359DDEE | DA <u>FM</u> VGAMPRERKDLLKAN <u>V</u> KI FKAQGQA <u>M</u> EK <u>L</u> JAKKSVKV |
| UniRef90_C5C858 UniRef90_I3LBY9 | H A L L V G A R P R E R S D L L E A N G G I F G P Q G R A I N D H A A Q D V R V D V I L V G S M P R E R K D L L K A N V K I F K C Q G A A L D K Y A K K S V K V |
| UniRef90_UPI00016C5284 | Y ALL L <u>V</u> G A <u>A</u> P R G R S D L I R <u>K</u> N G A I F <u>V</u> G <u>Q</u> G Q A <u>I</u> A K N A A S D <u>V</u> R I |
| UniRef90_T0RJL6 | N WV L A G A VP R E R A DL L K VN G G I F G P L G K A M A A H G A A D S K L I |
| UniRef90_D0WNS0 UniRef90_D0A8Y7 | NVLLVGARPRERADLLEANGGI FGPQGKAINDRAADDVKV DLLLCGAPGMERRDLLQTNAKI FSEQGRVLGEVASPNCRV |
| UniRef90_UPI0002193EFC | |
| UniRef90_C0XRG9 UniRef90_W5EJL1 | NAEU VIGAKPRSREDII LIEANGRILIELEOGRAII NAGAARDIVIRIV |
| UniRef90_I0IFE6 | WALLIGAKPRGPGMERDINGQIFAEQGKALNAVASRNVKV NWACVGSKPRERADLLKDNGKIFVGQGRAIDEHAAADCRV |
| UniRef90_B4RCG7 | WCLLVGSKPRERADLLKDNGKI FLAQGKAI DAVAADDARV |

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| UPRESENDED (UPPOSSED) 1 | QUERY | T V V G N P A T N N C T T A S K N S A O T N K A K O V N S V K T N H N R A K S M |) |
| UNRESCO DESCRIPTION 1. V. V. G. N. P. A. N. T. N. A. L. I. A. O. S. N. A. B. D. I. D. A. B. G. S. P. A. L. T. R. L. D. D. N. R. A. L. S. O. L. D. R. G. D. C. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. D. R. G. D. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. D. R. G. D. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. R. G. D. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. R. G. D. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. R. G. D. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. R. G. D. T. A. L. T. R. L. D. D. R. A. L. S. O. L. T. R. L. D. D. N. R. A. L. S. O. L. R. G. D. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. T. R. L. D. D. R. G. D. T. A. L. T. R. L. D. D. N. R. A. L. S. O. L. T. R. L. D. D. R. A. L. S. O. L. T. R. L. D. D. N. R. A. L. S. O. L. T. R. L. D. D. R. A. L. S. O. L. T. R. L. D. D. N. R. A. L. S. D. L. R. R. R. S. D. L. T. R. L. D. D. N. R. A. L. S. D. R. S. D. L. R. R. R. S. D. L. T. R. L. D. D. N. R. A. L. T. D. D. R. A. L. T. S. D. R. S. D. R. S. D. P. R. R. T. S. M. T. R. L. D. D. N. R. A. L. T. D. D. R. A. L. T. S. D. R. S. D. P. R. R. T. S. M. T. R. L. D. D. N. R. A. L. T. D. D. R. S. D. D. R. S. D. | UniRef90_A7S4V3 UniRef90_Q6F7X1 | L V V G N P A N T N C L I A S K S A P S I P K E N F S C L T R L D H N R A R S Q L V V G N P A N T N C L I A Q R WA P S I P K E N F S C L T R L D Q N R G G S Q L V V G N P A N T N A Y I A M K S A P D L P A K N F T A M L R L D H N R A L T Q | |
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| UniRef90_C7R939 | UniRef90_S2WNR5 UniRef90_A5C6E2 UniRef90_UPI0003B46F43 | L V V G N P A N T N A L I A S A A A P D V P A S R F T A M M R L D H N R A M S Q L V V A N P A N T N A L I L K E F A P S I P E K N V T C L T R L D H N R A L G Q V V V G N P A N T N A L I A A S H A P D V P A E R F T A L T R L D H N R A L G Q | |
| UniRef90 | UniRef90_K0F1T3 UniRef90_L1JY01 UniRef90_C7R939 | V V V G N P A N T N A L V A Q Q C A P S I P K E N F T A L T R L D H N R A Q S Q L V V G N P A N T N A Y L A K N A P S L N Q R N L S A L T R L D H N R A L Y Q | |
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| UniRef90_B/PRH2 L V V G N P A N T N A L V C S K F A P S I P K E N F S A M T R L D H N R A K G Q UniRef90_UP1000359DDEE V V V G N P A N T N A C I L S K Y A P S I P K E N F S C M T R L D H N R A Q A Q UniRef90_ISLBY9 UniRef90_UP100016C5284 L V V G N P A N T N C L T A S K S A P S I P K E N F S C L T R L D H N R A V A Q UniRef90_UP100016C5284 L V V G N P A N T N C L T A S K S A P S I P K E N F S C L T R L D H N R A V A Q UniRef90_DOWNS0 UniRef90_DOWNS0 L V V G N P A N T N A L I A M E N S G L P K D R F F A M T T L D E N R A K T Q UniRef90_DO0A8Y7 C V G N P A N T N A L I L L R E S G K L N P R F V T A L T R L D H N R A T A Q UniRef90 UP10002193FFC L V V G N P A N T N A L I L L L R E S G K L N P R F V T A M T R L D H N R A T A Q UniRef90 UP10002193FFC L V V G N P A N T N A L I L L L R E S G K L N P R R V T A M T R L D H N R A T A Q UniRef90 UP10002193FFC | UniRef90_A0L5T9 UniRef90_L7VYD3 UniRef90_Q9FNR7 | V V G N P C N I N C MI A A H N S D V P H E R F S A M M R L D Q N R A K Y L V V G N P A N T N A L I A M N N S D V P G N R F S A L T R L D Q N R A Y A Q V V V G N P C C T N A F II A M F N A P N I P R K N F H A I T R I D F N R A K S O | |
| UniRef90_UPI00016C5284 | UniRef90_B7PRH2 UniRef90_UPI000359DDEE UniRef90_C5C858 | L | |
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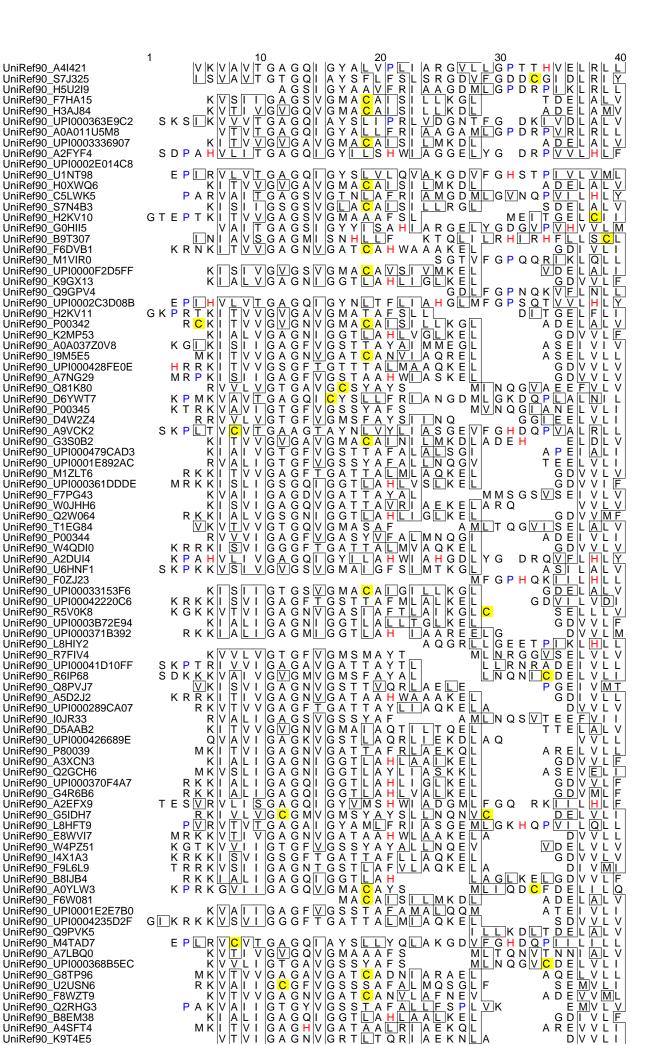
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| UniRef90_UPI00039D9733 UniRef90_G6D9M8 | IL IA N R T G C H T T DII IR N MIV VIWG N H S A T Q Y P DII IN H A SIVIS G Q P A R |
| UniRef90_A6GNA9 UniRef90_D2Q476 | LAAKLGVPVQDVKNVII WGNHSSTQFPDASNVRI GGVEKS VAAKTGKPVASIEKLAVWGNHSPTMYADYRFATI DGASVK LAKKTGTSVNDLKKLTI WGNHSATQYPDIFHAEVAGKNAA LAAKLDVTLEDI TKMTI WGNHSATQYPDIFHTLVKGDVAV |
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| UniRef90_L0GSY7 UniRef90_K0C734 | L A G R A G K P V A A V E R M V W G N H S P T M Y P D I R Y A T I E G E R A S L A E K T G N H N T T T T T T T T T |
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| UniRef90_V5GL68 UniRef90_E4WX88 UniRef90_T0GDL9 | LANKA GIVIPIVIK DIVIT NIVIGII WGN HSAT ÖYPD FYN AKITA GKITAT |
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| UniRef90_A6C4P0 UniRef90_R5PL56 | TATOAKIVISIVIN DILITHAAIVIWGN HSPAMEPDILID HAILTIK GRPAILT |
| UniRef90_V5DLA8 UniRef90_D5EQK3 UniRef90_UPI00037AC21E | LAEKCGVLSKEVKNVIVWGNHSATQYPDLHHAEVKG ALAQKAGVDVTEVTNMTIWGNHSATQYPDFYSAKIGGKPANLAQKLDCQVGDLSRVAVWGNHSATQFPDLTFAEVAGSPV |
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| UniRef90_UPI0003B31073 UniRef90_Q8H0P9 | L S |
| UniRef90_M4CF15 UniRef90_UPI00037FD405 UniRef90_R7QQ53 | L A E K L S V P V S S V K N V I V W G N H S S T Q Y P D S N H S T K T G D Q P V L A K K A G V A N E E V T N V T I W G N H S N T Q Y P D F T N A K I K G K P A T V A A R L D V P V Q S V A G V C I W G N H S S T Q Y P D I T R A T V D N V P V F L S H K L Q V P S R L I K D M V V W G N H S A D Q F P D V T Y A R V D G K P A K |
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| UniRef90_UPI0003B46F43 UniRef90_K0F1T3 | L A |
| UniRef90_L1JY01 UniRef90_C7R939 UniRef90_K4G5N6 | I A M R L K V P S S A V E N CT I W G N H S S T Q Y P D V S N S V V A T A Q G K L A E K A D A D I A G I K K M I I W G N H S V T Q V P D I S F A T V N G D K A A I G S R L E I P T S S V K N V I I W G N H S T S Q Y P D V S H A S N G G K V M G |
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| UniRef90_Q21K60 UniRef90_UPI0003B7036F | QVEKDWYENDFI PTVQQRGAAIIKARGASSAASAAN DQVDRTWYETEYIPTVAKRGAAIIEARGASSAASAAG |
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| UniRef90_E0VFB4 UniRef90_UPI000374D8AB | VYDAVNDTKWLQENFVTTIQKRGAAVISARKMSSAMSAAK DIIG_ DEDWNRNAFLPTVGKRGAAVIEARGLSSAASAAN |
| UniRef90_K1PU26 | A R F A I K D D N WV K N D F V K T V O O R G A A V I K A R K I S S A M S A A K |
| UniRef90_T2MFV8 UniRef90_I1FND6 | VKEAVKDDHWLEGDFLKVVQTRGAAIIKARKLSSAMSAAK AYEAVKDDSWLKGDFLKTVQQRGAAVIKARKLSSAMSAAK |
| UniRef90_F8UHY1 | AIL IVIN DE A WYRDTF MPIL VIGKRGA AII I IE A RGILISSA A SA A N |
| UniRef90_H3NUK0 UniRef90_G0QR65 | EL VDQAWYENDFIPTVQQRGAAIIKARGASSAASAAN IKPQLDDTWINSYFNPKVQKRGAEILDARGLSSAASAGN |
| UniRef90_B8R5G8 | A Q E A K D D D W V K N D F K T V Q T R G G A V Q A R K L S S A M S A A K |
| UniRef90_A4BT20 UniRef90_E8RCE7 | GL VDRQWLTQDFIPTVQQRGAAIIRARGQSSAASAAN SLVTD EWNKNEFIPTVQQRGAAIIKARGASSAASAAS |
| UniRef90_L0GSY7 | DII VIDAAWYKETYI IPSIVIAKRGAAI I IEARGTSSAASAAN |
| UniRef90_K0C734 | DALSKUDASWYADDFI PAVQQRGAAIIKARGLSSAASAAS DAVG GDQEWVENFFIPKVAKRGAEIIEVRGASSAASAAN |
| UniRef90_E4NCD5 UniRef90_G9PER1 | FILLIA DRAWIVIEGDEILIPTIVIAKRGAAILLIEARGASSAASAAS |
| UniRef90_F8GE84 | SL I GDTAWIENHFIPTVQKRGTAIIIEARGKSSAASAAN |
| UniRef90_Q4PP81 UniRef90_B4NQQ2 | K S R A I N D E S Y L R G A F V E T V Q K R G A S V I A A R K M S S A M S A A K |
| UniRef90_Q47C34 | AL VNDHAWNNDVFLPTVGKRGAAIIEARGLSSAASAAN EL VNDEAWYENTYIPEVAKRGGAVIKARGASSAASAAN |
| UniRef90_D7GCF6 UniRef90_A0A058ZGK3 | K S R A I N D E S Y L R G A F V E T I V Q K R G A S V I A A R K N S S A M S A A K A L V N D H A WN N D V F L P T V Q K R G A S V I E A R G L S S A A S A A N E L V N D E A WY E N T Y I P E V A K R G G A V I K A R G A S S A A S A A N V S E V I T D T E W L H G E F I E T V Q Q R G A A I L A A R K L S S A M S A A K C F D A I K D E A W L K G E F I A T V Q Q R G A A V I K A R K L S S A M S A A K |
| UniRef90_H2TUL9 | VSEVITDTEWLHGEFIETVQQRGAAILAARKLSSAMSAAK CFDAIKDEAWLKGEFIATVQQRGAAVIKARKLSSAMSAAK ASEVVKDSDWIRNTFVQTVQKRGAAVIGARKMSSAMSAAK |
| UniRef90_V5GL68 UniRef90_E4WX88 | A S A A C N D N A WL K S D F I T T V Q K R G A A V L A A R K L S S A M S A A K |
| UniRef90_T0GDL9 | D V |
| UniRef90_U1H656 UniRef90_D8HVG5 | EL VEQSWIENDFIPTVAKRGAAIIDARGASSAASAAN D_ AVDQAWLENDFIPTVAKRGAAIIEARGLSSAASAAS |
| UniRef90_A6C4P0 | E I |
| UniRef90_R5PL56 UniRef90_V5DLA8 | N A L S V V D Y E W F T D E F I P K V Q Q R G T E I I N A R G Q S S A A S A A N |
| UniRef90_D5EQK3 | E V |
| UniRef90_UPI00037AC21E UniRef90_F0J9X5 | DVD Q S WYT D E FI P R V A K R G A E I I DVR G S S S A A S A A S VT E A I K D E A Y F Q G E F L T T V Q K R G A A V I A A R K L S S A M S A A K |
| UniRef90_B5JL49 | D V |
| UniRef90_W2TAD7 UniRef90_UPI00036E172E | A YT A LINDTA Y LQGPFI STI QKR GAVI I QKR KLSSA MSA A K DL VEQDWFVNDFI PTVQQR GSEVLKAR GQSSA A SA A N |
| UniRef90_B5JM37 | D V I L D Q A W F R D T F V P T V G Q R G K A V I E A R G S S S A A S A A N |
| UniRef90_A4QGA0 UniRef90_UPI000362CD90 | DR VIFGAWYRFFFMPRIVIAKRGAFII I IFIVIRGRSSAASAAS |
| UniRef90_UPI0003B3CEF7 | ER V D WD WY V K T F I P A I E Q R G S E V I R L R G R S S A A S A A H |
| UniRef90_P61977 UniRef90_UPI0003B31073 | EL VDMEWYEKVFIPTVAQRGAAIIQARGASSAASAAN SL VDQAWCEKDFIPVVQQRGAAIIKARGLSSAASAAS |
| UniRef90_Q8H0P9 | E AII IGDDAYIL IDGEFII IATIVIQQRGAAII I IAARKIL ISSAIL ISAAS |
| UniRef90_M4CF15 UniRef90 UPI00037FD405 | RELLVÁDQKWLKNEFSTEVQQRĞAEILRARRQSSALSAAS EV LTDRTWLETVYVPQ <mark>Q</mark> QERGKAIINKRGLSSA <u>F</u> SAAN |
| UniRef90_R7QQ53 | DKILIG GFEII VIARDFII IPTII IQKRGAAIVI IKARGFSSAILISAAR |
| UniRef90_S2WNR5 UniRef90_A5C6E2 | DL VDEAWLDDYFVPTVAKRGAAIIEARGASSAASAAS VRELIADDNWINTEFITTVQQRGAAIIKARKUSSAUSAAS |
| UniRef90_UPI0003B46F43 | VRELIADDNWINTEFITTVQQRGAAIIKARKLSSALSAAS ALLTDGYREWLVDEFVPRVAKRGAEIIEVRGSSSVASAAS ALDRIDDRAWLTDDFIPTVQQRGTAIIQARGASSAASAAS |
| UniRef90_K0F1T3 UniRef90_L1JY01 | QKVGIQNPGYLHGEFIKVVQQRGAAIINARKLSSAMSAAK |
| UniRef90_C7R939 | <u>D</u> <u>K V </u> DATW <u>A</u> KEEF <u>M</u> P <u>L</u> V AKRGAA VI AARG <u>A</u> SSAASAAN |
| UniRef90_K4G5N6 UniRef90_D5STY3 | V Y D A I Q N D N W L K G E F I T M V Q G R G A A V I K A R K L S S A M S A A K Q V I T D H E W L K S T F I S T V Q Q R G A A V I A A R G A S S A A S A A N |
| UniRef90_A0A034W6Y2 | V WD |
| UniRef90_R5EG60 UniRef90_K2B930 | DILL ILIT DILIH WILIQND FILIPIL VIQK R G A FIV LIK A R G A S S A A S A A N |
| UniRef90_B3S0L5 | T |
| UniRef90_C1LBX1 UniRef90_V4JQI4 | ALVA DETWYODTYII PTVGKRGAAIII AARGASSAASAAN |
| UniRef90_K8EDN9 | DIVI II ID D Q T WIL IE N D F T P A II IQ T R G GIL L I IK K W G R S S A A S T A IVI |
| UniRef90_K6W9P9 UniRef90_I6WSS7 | EL AEDRAWLIDDFIPTVAKRGTSIIETRGASSAASAAS QWIA DDAWIAFDFIPTVARRGAAVIAARGRSSAASAAN |
| UniRef90_Q5X2T6 | Q V N |
| UniRef90_UPI000376E18E UniRef90_A0L5T9 | LRRGLDLDWYRELMLGEVQLRGEAVINVKGRTSAASAAQ EVLA_ DAAWLENAFMPTVQNRGAAVIKARGASSAASAAN |
| UniRef90_L7VYD3 | DI T D H D WLR G E F L S V V Q K R G A A V I A A R G K S S A A S A A N |
| UniRef90_Q9FNR7 UniRef90_B7PRH2 | DIANULENAF MPIVQNRGAAVI RARGASSAASAAN NV I RDHDWLRGEFISVVQKRGAAVI AARGKSSAASAAN NV I RDNQWFKDQFTPKVAMRGGALIKKWGRSSAASAAN VTEAINDADYFKGDFVTR VPEAVQDDNFLKNEFIKTVQQRGAAVIKARKLSSAMSAAK PALEVVDPVWAGEEFVPRVARRGAEIIEVRGASSAASAAS VYEAVKDDSWLKGEFITTVQQRGAAVIKARKLSSAMSAAK |
| UniRef90_UPI000359DDEE | VPEAVQDDNFLKNEFIKTVQQRGAAVIKARKLSSAMSAAK |
| UniRef90_C5C858 UniRef90_I3LBY9 | VY E AVK D D S WLK G E F I IT T I V O O R G A AV I K A R KIIS S A M S A A K |
| UniRef90_UPI00016C5284 | EV ITDRAWLENTFVPNTQERGKFIIDTTKVSSSFSAAN EV LTDEAWLQGEFIKTVQQRGAALIAARGASSAASAAN |
| UniRef90_T0RJL6 UniRef90_D0WNS0 | |
| UniRef90_D0A8Y7 | A AIVIDNDAFFDNEFII ITII VIQERGAEII IMKIL IRGIL ISSAL ISAAK |
| UniRef90_UPI0002193EFC UniRef90_C0XRG9 | FR IVID ROWYIVID F FILIG RIVIA K R G A FILLIDIVIR G S S S A A S A A S |
| UniRef90_W5EJL1 | ER VDRQWYVDEFIGRVAKRGAEIIDVRGSSSAASAASEVLIKDTKWLEEDFTLITVQKRGGVLIEKWGRSSAASTAV |
| UniRef90_I0IFE6 UniRef90_B4RCG7 | EV |
| 01111101010 D411001 | EN E |

| QUERY | 250 260 270 280 ALNLYVK HLWK GIS QKLA QMGLIAHGKA AAS PKQN FS CVT |
|--|--|
| UniRef90_W5NGN6 UniRef90_A7S4V3 UniRef90_Q6F7X1 UniRef90 UPI00039D9733 | A I C D H M R D I W F G T P E E F T S M G V Y S S G N Y G V P D D L I Y S F P V A I C D H M R D W W F G T R E E W V S M G V V S D G S Y G I E E G L V Y S F P V A A I D H M R D W A L G T N G K W V T M G I P S D G S Y G I P E G V I Y G V P V A A I D H M R D W T L G T P D D W V S M A I P S D G S Y G I A E G I I Y S F P C |
| UniRef90_G6D9M8 UniRef90_A6GNA9 UniRef90_D2Q476 | A A S D H M R D W F L G T G D R W V S M G V V S D G S Y G V P K D V V Y S F P V A A L D H V R D W V L G T N G K W V T M G L P S D G S Y G L P F G T O F G F P V |
| UniRef90_Q21K60 UniRef90_UPI0003B7036F UniRef90_U2E149 | A A I F H M R D WALL G T P N D WVS M G V Y S D G S Y G I E E G L I Y S F P C |
| UniRef90_E0VFB4 UniRef90_UPI000374D8AB UniRef90_K1PU26 | A A II ID H M H D WIV I IG S N G R WIV II M GII IP S D G S Y GII IP F F I M F GIV IPIV |
| UniRef90_T2MFV8 UniRef90_I1FND6 UniRef90_F8NHV1 | A V D W F G V P E S M V S D G S Y G E E G C V Y S F P V A C D H M K T W W F G T D D D Y C S M G V V S D G S Y G P E G C V Y S F P C A A D H W R D W V C G S N G K W V M G V V S D G S Y G F C G G M C G M C G M C G M C G M C G M C G G M C G G G G G G G G G |
| UniRef90_H3NUK0 UniRef90_G0QR65 UniRef90_B8R5G8 UniRef90_A4BT20 | A A I D H V R D W V L G S N G K W V T M G V V S D G S Y G I P E G V M Y G F P C A A I D H M R T W A L T T D N D W T S M G I L S T G A Y G V P E G L I Y S F P C A A I V H V R D W V L G S H K H W K S M A V H T D G S Y G V P K G L I F S F P V A I C D H V R D W W F G T G E R W V S M G I I S K G D Y G I K E G L M Y S F P V A I C D H W R S W I L G T P D D W V S M A I L S D G S Y G I A E G L F F S F P C A A V D H M R N W A L G S N G Q W V S M G V Y S K G N Y G V D Q D L I F A F P I |
| UniRef90_E8RCE7 UniRef90_L0GSY7 UniRef90_K0C734 | A A V D H MR N WALL GS N G Q WV S M G V Y S K G N Y G V D Q D L I F A F P I A A I A H MR D WALL GT S G R WV T M G V V S D G S Y G I P E G L V Y G V P C S A L D H MR T WV Q G T D G D WV S M G I P S D G S Y G I E E G L I Y S F P V A A I D H V Y T WV N G T P G D W T S M G I V S D G S Y G V P E G L I S S F P V |
| UniRef90_E4NCD5 UniRef90_G9PER1 UniRef90_F8GE84 | A A D H V R D W V K G V K Y S W T S A A M S D G S Y G V P E G 1 S S F P A A |
| UniRef90_Q4PP81 UniRef90_B4NQQ2 UniRef90_Q47C34 | A A A D H M R D W F N G T K P Q F I S M G V V S D G S Y G I P K D I V F S F P V A A C D H M H D W W N G T P G Q F V S M G V F S D G S Y N S P K N V I F S F P V A A I D H V R D W V L G S D E W V T M G V P S D G S Y G I P A G I V F G F P C |
| UniRef90_D7GCF6 UniRef90_A0A058ZGK3 UniRef90_H2TUL9 | ALICDHMRDITWTGTPEEFILSMGIVYSTGNYGIVPDDLIYSFPV |
| UniRef90_V5GL68 UniRef90_E4WX88 UniRef90_T0GDL9 UniRef90_U1H656 | AIGDHLHDWICGSEGRWYSMAVTSDGNYGVPEGLIYSFPV GVVDTVRQIINPTPGDWFSVAVASDGSYEADKGLIFGFPV ATVECMHDWMLGTPEDWVSMCVESDGSYGVPEGLISSFPV |
| UniRef90_D8HVG5 UniRef90_A6C4P0 UniRef90_R5PL56 | A A V D H V Y T W V N G T P G D W T S A A V A S D G S Y G V P E G L I S S F P V A A L D T I K S L I T P T P G E S F S A A V C S D G S Y G V D E G L I C G Y P L A A L D H I R D W V L G S G D R W V T M G V P S D G S Y G I P E G L L F G F P C |
| UniRef90_V5DLA8 UniRef90_D5EQK3 UniRef90_UPI00037AC21E | A A V D Q M R D W A L G T P E D W V S M G I P S D G S Y G I E Q G L V Y S F P V G A I D C V R K L T T D T P G D S F S M C I C S D G S Y G T T P G L I T S L P C A A V D H M R D W V Q G S D G W A T A A V V S D G S Y G V D E G L I A G F P T |
| UniRef90_F0J9X5 UniRef90_B5JL49 UniRef90_W2TAD7 | A A C D H M K D W F S G T P G K F V S M G V I S D G S Y G A P K D V V F S F P V A I G D H L H D WI C G S E G R W V S M A V T S D G N Y G V P E G L I Y S F P V G V V D T V R Q I I N P T P G D W F S V A V A S D G S Y E A D K G L I F G F P V A T V E C M H D W M L G T P E D W V S M C V E S D G S Y G V P E G L I S S F P V A A V D H V Y T W V N G T P G D W T S A A V A S D G S Y G V P E G L I S S F P V A A L D T I K S I I T P T P G E S F S A A V C S D G S Y G V D E G L I S S F P V A A L D T I K S I I T P T P G E S F S A A V C S D G S Y G V D E G L I C G Y P L A A I D H L R D W V L G S G D R W V T M G V P S D G S Y G I P E G L L F G F P C A A V D Q M R D W A L G T P E D W V S M G I P S D G S Y G I E Q G L V Y S F P V G A I D C V R K L T T D T P G D S F S M C I C S D G S Y G V D E G L I A G F P T A A A D H V H D W W H G T P E A W V S M A V M S N G S Y G S P S D V V F S Y P V A A I D T V A N I V K P T A D D V F S V A V C S N G E Y G I E P G L M Y S Y P M A A C D H I H D W H F G T K P E W V S M A V P S D G S Y G I P A G L V F S F P V A A I D Q M K A W I F T D E G D W V S M A V P S D G S Y G I P A G L V F S F P V A A I D Q M K A W I F T D E G D W V S M A V P S D G S Y G I P A G L V F S F P V A A I D Q M K A W I F T D E G D W V S M A V P S D G S Y G I E A G L V F S F P V A A I D D M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L V F G F P T A A V D H M R D W V Q G S R G W A T A A V V S D G S Y G V E E G L |
| UniRef90_UPI00036E172E UniRef90_B5JM37 UniRef90_A4QGA0 UniRef90_UPI000362CD90 | A AII D Q M K A WI F T D E G D WVS M G V M S D G S Y G I E A G I V F S Y P V A V V D T V R D I S T P T R G D I H S V C V I S R G E Y G T P A G I I T S I P I S A I P S T G A Y G I P E G I F V G I P T A A A V D H M R D W V G S P G WA T A A V V S G S Y G I V E G E P T |
| UniRef90_UPI0003B3CEF7 UniRef90_P61977 UniRef90_UPI0003B31073 | A A V D H M R D WV Q G S R G WA T A A V V S D G S Y G V E E G L V F G F P T A A L T H M R H WV F G T P P D WA S M G V L S D G S Y G I S E G I V Y S F P V A A I E H I R D WA L G T P E D WV S M A V P S Q G E Y G I P E G I V Y S F P V A A V D H M H D WA L G S N G K WV S M G V P S D G S Y G I K P G I V Y G Y P C S V C D H I R D WV N G T P P T WV S M G V V S P G A Y G V E E G L M Y S F P V A A C D H I H D W F L G T P K S W S M G V C S D G S Y G I A P G L V Y S F P V |
| UniRef90_Q8H0P9 UniRef90_M4CF15 UniRef90_UPI00037FD405 | S V C D H I R D W V N G T P P T W V S M G V V S P G A Y G V E E G L M Y S F P V A A C D H I H D W F L G T P K S W V S M G V C S D G S Y G I A P G L V Y S F P V G A L D H V K S L L K P T P G D W T S A A V I S N G E Y G V P K G L V F G Y P V |
| UniRef90_R7QQ53 UniRef90_S2WNR5 UniRef90_A5C6E2 | GALDHVKSLLKPTPGDWTSAAVISNGEYGVPKGLVFGYPV ALANHLRSWVCGDEH |
| UniRef90_UPI0003B46F43 UniRef90_K0F1T3 UniRef90_L1JY01 | A T V D H L R D W V L G T A Q G W T S A A V V S D G S Y E V P E G L I S S F P V A A L D H H D W V G S N G K T V S M A V P S D G S Y G I E K G L Y S F P V A I D H M D W V L G S E D D W S M A V P S D G S Y G I E E G L Y S Y P V A I D H M D W L G S E D D W S M A V P S D G S Y G I E E G L Y S Y P V A I D H M D W L G S E D D W S M A V P S D G S Y G I E G G L Y S Y P V A I D H M D W L G S E D D W S M A V P S D G S Y G I E G G L Y S Y P V A I D H M D W L G S E D D W S M A V P S D G S Y G I E G G L Y S Y P V A I D H M D W L G S E D D W S M A V P S D G S Y G I E G G L Y S Y P V A I D H M D W L G S E D D W S M A V P S D G S Y G I E G L T T T T T T T T T |
| UniRef90_C7R939 UniRef90_K4G5N6 UniRef90_D5STY3 UniRef90_A0A034W6Y2 | A D |
| UniRef90_R5EG60 UniRef90_K2B930 UniRef90_B3S0L5 | A A I D H I H D WV L G S N G E WA T M A V P S D G S Y G I P E G L T F G M P V A A L M T V Y N L T H D T Q G E T F S V A R C S Q G E Y G I D E G L I F S M P C A I C D H V R D L W N G T K E E W T S M G V I S D G N Y G V P D N V M Y S F P V S V T D H M R D W W L G T K N E W V S M S V I S D G S Y G A P K D V I F S F P V |
| UniRef90_C1LBX1 UniRef90_V4JQI4 UniRef90_K8EDN9 | S V T D H M R D WWL G T K N E WV S M S V I S D G S Y G A P K D V I F S F P V A A I D H M H D WAL G S D G K WV T M G V V S D G S Y G I P E G F I Y G V P C S I A D A I K A L V T P T K E D W F S S A V I T D G N Y G I E E G L V F S M P C A A I D H V H D W F L G T P E D W V S A A L P S P G A Y G V P E G L V C S F P V |
| UniRef90_K6W9P9 UniRef90_I6WSS7 UniRef90_Q5X2T6 | A TI A H V R D WL LGT P G D WT S M A V V S D G S Y G V P A G L V S S F P V A T I T G V N H L V T D T P G E S F S M C R R S K G E Y G V D E G L I F S F P C A L I D H L R D WM LGT S T D F V S M G V F S H G E Y G V A P G L F F S F P V |
| UniRef90_UPI000376E18E UniRef90_A0L5T9 UniRef90_L7VYD3 UniRef90_Q9FNR7 | A A L D H V R S L I I P I P G D I F C A A V M A N G A Y G V D A G L I A G M P L I A A L D H V M S F E A K T P E H W S S A A V P S D G S Y G I A E G L M F S F P V S V A D S L R S L I T P T P P D C F S S G V C S D G N Y G I O F G L N F S F P C |
| UniRef90_B7PRH2 UniRef90_UPI000359DDEE UniRef90_C5C858 | A A C D H M R D W F I G T K G N W V S M G V I S D C S Y G S P A D V M F S Y P V A A I D H I R D W F I G T A P R R T S A A V V S D G S Y G V P F G I L S S F P V |
| UniRef90_I3LBY9 UniRef90_UPI00016C5284 UniRef90_T0RJL6 | GALDHVRDIWFGTPEEFVSMGITSDGNYGVPDDLLYSFPV |
| UniRef90_D0WNS0 UniRef90_D0A8Y7 UniRef90_UPI0002193EFC | A A I D H V Y N W V N G V P G D W V T P G V Y Q D G H Y G V P G G L I F S F P V A A I D H V H D W M L G T P S T H V S M A V Y S D G N Y G V P G G L I F S F P V A A C D H M R D W I H G T P E D W V S V A L P S D G S Y G I P E G V V A S V P C A A V D H M H D W V N G T G G R W T T V A L P S T G E Y G V D P G L V F G F P T S I V D A M R S L V T P S E G D W F S T A V Y T T G N Y G I A E D L V F S M P C A L V D H V R S L V T P G K V Q S V A V K S D G H Y G F D P A V W A G L P V A L I D H V R S L N T V G E V H S I A V N S E G R Y G F A E G V W A G M P V |
| UniRef90_C0XRG9 UniRef90_W5EJL1 UniRef90_I0IFE6 | A AIVID H MHD WIVING I GGR WTT VIAIL IPST GEY GIV DPGL VIF GFPT SI VDAMR SL VTPSEGD WFSTAVYTT GNY GLDL VIFSMPC |

| | 290 300 310 320 |
|---|--|
| QUERY | RIONKTWKI VEGIPINDESREKMNETAKEIJAEFETEEAEK |
| UniRef90_W5NGN6 UniRef90_A7S4V3 | VIKGKSWKI VDGLEINDFSRGKMNATAAELVEERDTAVTFQLCDRTWKIVQGLSINDFSREKMNATATELKGESEAVKDLTCENGEYKRVEGLEIDEFSRERMDKTLQELEERAAIADM |
| UniRef90_Q6F7X1 | QI C DRTWKI VQGLSI NDFSREKMNATATEL KGESEAVKDL TCENGEYKRVEGLEI DEFSRERMDKTLQELEEERAAI ADM |
| UniRef90_UPI00039D9733 UniRef90_G6D9M8 | TIVIS N G Q Y S II V Q G L D II DD F S R E R M A A I E Q E L V E E R D A V A H L TIVIS N G K W K II V E G L T II IS D F A R E K L D II T G K E L V E E K Q D A L D IV |
| UniRef90_A6GNA9 | TCANGKFEI VKGLEI DAFSQERI NLTÜNELMEEREGVKHL |
| UniRef90_D2Q476 UniRef90_Q21K60 | T K D G N WE V Q G E N D F S R G R D A S A A E L A E E R D A V Q Q L |
| UniRef90_UPI0003B7036F | RVKDGKYEI VQGLDISDFSRARMDATAKELQEERDEVRKL |
| UniRef90_U2E149 UniRef90_E0VFB4 | T CKNGQYEII VQDILEII DEFSRDRMKQTEDEILRSEREAVISEIL TIJENKNWKII VQGII NII DGESKGKIJEIJTAKEILJEEROEALJEVI |
| UniRef90_UPI000374D8AB | CEGGQYQRVQGLPIDAFSQSCLDKTLAELQDEKDGVKHL |
| UniRef90_K1PU26 UniRef90_T2MFV8 | KIKUHIYENIN KULPU DUFSREKMULI MKEL VDEKNMAM TIDSHTYKI VQGLENNEFSREKMDASAVIFU COFRDDAFSI |
| UniRef90_I1FND6 | RUNDRSWQV VDGLSVSDFAREKMDDSAKEL VEERDTATQF |
| UniRef90_F8UHY1 UniRef90_H3NUK0 | |
| UniRef90_G0QR65 | T T E N G N Y K I V Q G L K V D A Y S Q A K L D V T T K E L L E E R Q A V E H L |
| UniRef90_B8R5G8 UniRef90_A4BT20 | RCSAGNYQVVEGILEI DEFSRTRMIATEQELAEERGAI KHI |
| UniRef90_E8RCE7 | T C E N G E WK L V E GL E I S D Y S R E M K K T E A E L Q S E R A A V A D |
| UniRef90_L0GSY7 UniRef90_K0C734 | TVKDGDYSII VQGLEII NDFSRERMI ATENELIKEERDGI SPL |
| UniRef90_E4NCD5 | TTKDGKFEI VQGLDLSEFDRKRIDASVGELAEERDAVQEL |
| UniRef90_G9PER1 UniRef90_F8GE84 | T CKNGQYK I VEGLEI TPSDREK MQKSYQEL I A E QEAIKHL |
| UniRef90_Q4PP81 | TO ALL ALL AND A PARE HELL LIVE BY SORRER READ ALL AND A A F THE STAD ALL ALL ALL LIVE BY SORRER READ ALL AND A A F THE STAD A PARE HELL LIVE BY SORRER READ ALL AND A A F THE STAD ALL |
| UniRef90_B4NQQ2 UniRef90_Q47C34 | ECKGGKFSI I QGLEI DEYSREKI NFTLKELTDEAEAVKDM |
| UniRef90_D7GCF6 UniRef90_A0A058ZGK3 | TCKDGKYEII VQGLDLNDFSKKKII AATVDELTKEQGEVREM |
| UniRef90_H2TUL9 | QIKDKSWKI VOGLGI NSFSQTKMDATAAELMEERDTALAF |
| UniRef90_V5GL68 UniRef90_E4WX88 | SI QNGKWQI AQGL L DDFAKEMLATTGKELEEERAEA |
| UniRef90_T0GDL9 | KSDGKKVEI VKGLTLNDFAKEKEKITHDELKSERDEVKGM |
| UniRef90_U1H656 UniRef90_D8HVG5 | TILADGKPSI VQGLEI DDFSRAKI DASAKELSDERDAVREL |
| UniRef90_A6C4P0 | TSDGTTWKI VEGQEHDDFAQAKFEATLQELRDERDVVRDL |
| UniRef90_R5PL56 UniRef90_V5DLA8 | TTKDGRWEII VQGLELISDFARATIJAKSVAELLESERA <mark>H</mark> VAAL |
| UniRef90_D5EQK3 | RVKDGKLEVVQGIEINEFSRAKIDASVKELEEEQEAVKDL |
| UniRef90_UPI00037AC21E UniRef90_F0J9X5 | U A R D G R Y E II V Q G L E L S D F Q R Q R II E A S V A E L R A E R E A V G D L OV D P Q G W R II V E G II S M S D E A R Q K II E II T G K E II V E E R D T A II A T |
| UniRef90_B5JL49 | KSDGEKUSVVDGVEUNAFSKEKVVATENELKEEKAMVASU |
| UniRef90_W2TAD7 UniRef90_UPI00036E172E | T CVH G E F NIL VK GILDIIN D F S L Q R M R A S E A E L R E E R D A VK H L |
| UniRef90_B5JM37 | RVD G A G WR V V E G V K L S E Y A K Q K I A A S N A E L L E E R |
| UniRef90_A4QGA0 UniRef90_UPI000362CD90 | VAREGRWEII VQGLDLSEFQRQRII AANVAELQQERRAVAHL |
| UniRef90_UPI0003B3CEF7 | TVEEGRWQI VISGLEI DDFCRERMTVTEKELLEEREAVKAL |
| UniRef90_P61977 UniRef90_UPI0003B31073 | CKDGGYEI VQGLSVDDFSRGKMTLTENELREERAAVEEL |
| UniRef90_Q8H0P9 UniRef90_M4CF15 | TCVDGKWSI VQGLTI DERSRALMDATAAELKEEKAMAEEL |
| UniRef90_UPI00037FD405 | RSDGQGLSIVPGLSLDTFGKSKFDATLKELLEEQDAVKDL |
| UniRef90_R7QQ53 UniRef90_S2WNR5 | R C M G D G V E I V K G I E I D E F S K R Y I D A T A E E L Y A E R E E A L A L T S T G G E W E I V K G I E I D D R O K A G I A R N V K A I E E E R D A V R A I I |
| UniRef90_A5C6E2 | T C E K G E WS I V Q G L K I D E F S R G K M D A T A K E L M E E K A |
| UniRef90_UPI0003B46F43 UniRef90_K0F1T3 | E S V D G E W R I V S G L E V D E F A R G R I A A S V A E L A D E R D A V R A L T C A D G K Y T I V P D L D I D D F A R P R I D A T V A E L T O E R D A V D I D I |
| UniRef90_L1JY01 | VCSAGKYTI VQNLKVDQFSRKMMDETMNELKQERDALAFL |
| UniRef90_C7R939 UniRef90_K4G5N6 | VIONNGUTEII VIQGILEIVISUFIIIKUKMILESQKEILIQEEAET <mark>C</mark> KDL |
| UniRef90_D5STY3 | TOWN OF STREET A A V ROLL BL NEFA A K D G G Y E I V Q G L T I D E R S R A K M T L T E N E L K E E K A M A E E L TCVD D G K W SI V Q G L T I D E R S R A L M D D T A A E L L A E E K A M A E E L CE K G S W K I V Q G L T I D E R S R A L M D D T A A E L L A E E K A M A E E L R S D G Q G L SI V P G L S L D T F G K S K F D A T A A E L L Y A E E R D A L A L R S D G Q G L SI V P G L S L D T F G K S K F D A T A A E L L Y A E E R D A L A L T C E K G S W K I V Q G L S L D T F G K S K F D A T A A E L L Y A E E R D A L A L T C E K G S W S I V Q G L K I D D E F S R R G K M D A T A A E L L Y A E E R D A L A L T C E K G E W S I V K G L E L D D E F S R G K M D A T A A E L L Y A E E R D A L A L T C E K G E W S I V S G L E L D D E F S R G K M D A T A C M A E L L A D E R D A L A L T C E K G E W S I V S G L E L D D E F S R G K M D A T A C M A E L L A D E R D A L A L T C E K G E W S I V S G L E V D D E F S R G K M M D E S M K E L T C A D G E W S I V S G L E V D D D F A R P R L D A T T M N E L T C A D G E W S I V S G L E V D D D F S R K M M M D E S M K E L T C A G G N Y E I V G L E L V D D D F S R K M M M D E S M K E L T C A G G N Y E I V Q G L E V S D F S R K S K L A A D M T A A E E L C M A C M T A A E L M T A L T C A C G G M S I V S G L E V D D D F S R K M M M D E S M T A A S L L M T A L T C A C G G M S I V S G L E V D D D F S R K M M M D E S M T A M S E L L M T A L T C A C G G M S I V S G L S V S D F S R K S K L L A A D E L L M T A L T C A C G G M S I V S G L S V S D F S R S K K M M D L L S M T A A D E L L M T A L T C A C C D G G K M K I V M G L E L D D A F S R S R E R M D T T L L E L L L L R E E R D T M A L T C A C D G G M S E L M D D F G K K M M T L L L L L L L L R E E R D T M A L T C A C D G G M S E L L L L L L L L L L L L L L L L L L |
| UniRef90_A0A034W6Y2 UniRef90_R5EG60 | ICK DGDYEI VK DLELNQFQK DHI AANIR ALEEER ALVDEI |
| UniRef90_K2B930 UniRef90_B3S0L5 | RTEGGKLKVITGLTQNEFGQQKLQLTLDELRKEKEMVKEL |
| UniRef90_C1LBX1 | QLKDGKWSTVQGLELDEWAKSKFSTTSKELEEERDAA |
| UniRef90_V4JQI4 UniRef90_K8EDN9 | TCTPGKYEVIKDLEIDAFSRERMDFTLNELKEEREGVQGL |
| UniRef90_K6W9P9 | RAVNGHWEIVEGLEINDFSRARIDASVAELADERAAVGDL |
| UniRef90_I6WSS7 UniRef90_Q5X2T6 | R C C D S E WE II V Q G L P L N A F A R S R V N V S V D E L K S E A E E V K S M R R F H G F L K V V F N I F F N D F G R F R F N T T I N F I R S F R D T V K S L |
| UniRef90_UPI000376E18E | TCRHGHVDI VEGLELDDFCKKMLRETEQELLRERQAVLSL |
| UniRef90_A0L5T9 UniRef90_L7VYD3 | ISIGHGWSII VIEGIVIPMS PFILIK GKFD AIV LIDEIL IR REREMIVIK DIL VISD G Q G Y EII V Q GIL IR LISD FAREKIVIA IL IT FOFILIOFFK AIV VIA DIL I |
| UniRef90_Q9FNR7 | RSKGDGYEI CNDFIII DDWLRMKI KAAEEEL IIQERDCVSHL |
| UniRef90_B7PRH2 UniRef90_UPI000359DDEE | HIVID N Q R WRII VIT GIL IPII IS D F A R A KILID A T G K EILIMEEREEALIA VI TII E N K KII TII V Q GIL ISII N F F A |
| UniRef90_C5C858 | TSGGTAWRI VPĞLEPDESEGGRLAATVAELEAERDAVR |
| UniRef90_I3LBY9 UniRef90_UPI00016C5284 | I I I K D K I WKII VIE GIL IPI I N D F S R E K M D L T A K E L A E E K E T A F E F T T S G D G W N V V E G L K L D A F G E A K F K K T II D F II T K F O F V V K D II |
| UniRef90_T0RJL6 | RVENGKLIVVEGQEHNAFĞTEKFNATLNELREERAAVKEL |
| UniRef90_D0WNS0 UniRef90_D0A8Y7 | I A E N G E W <u>V</u> V V D G L E V S D R T R A G II E H N L K A A Q E E L D A <u>V</u> R A L T C S G G E WQ II V S G L N V T P A II S E R II K A |
| UniRef90_UPI0002193EFC | R S V D G E WRTVT G L E I G D A Q R A K I D R T V A E L R S E V D A V R D |
| UniRef90_C0XRG9 UniRef90_W5EJL1 | VIGILING R F SIV VIE GILIEILIS E F Q R E RII E R R S K G D G Y E IL V Q H V A M D D F IL IWD R II IK K S F A F II T A F |
| UniRef90_I0IFE6 | RSKGDGYELVQHVAMDDFLWDRIKKSEAELTAE RTTETGYEVVEGLTLDAFAKEKIAATNAELVSERETVADL KTTAPGYEVVTSYEMDDFAKSKIKLTNDELVAERDTVKDM |
| UniRef90_B4RCG7 | K I I A P G Y E V V I S Y E M D D F A K S K I K L T N D E L V A E R D T V K D M |

| QUERY | <u>N</u> SNA |
|--|------------------|
| UniRef90_W5NGN6 | IL |
| UniRef90_A7S4V3 UniRef90_Q6F7X1 | L P N A L K |
| UniRef90_UPI00039D9733 | LP |
| UniRef90_G6D9M8 | CK D |
| UniRef90_A6GNA9 | |
| UniRef90_D2Q476 | □ 6 |
| UniRef90_Q21K60 UniRef90_UPI0003B7036F | <u>L</u> P |
| UniRef90_U2E149 | |
| UniRef90_E0VFB4 | C |
| UniRef90_UPI000374D8AB | L |
| UniRef90_K1PU26 UniRef90_T2MFV8 | FKSS |
| UniRef90_12MFV6 | LS |
| UniRef90_F8UHY1 | 'Ē |
| UniRef90_H3NUK0 | L L |
| UniRef90_G0QR65 UniRef90_B8R5G8 | L K L E |
| UniRef90_B8K5G8 | 'L - |
| UniRef90_E8RCE7 | |
| UniRef90_L0GSY7 | L S |
| UniRef90_K0C734 | L |
| UniRef90_E4NCD5 UniRef90_G9PER1 | |
| UniRef90_F8GE84 | |
| UniRef90_Q4PP81 | |
| UniRef90_B4NQQ2 | L |
| UniRef90_Q47C34 UniRef90_D7GCF6 | <u>L</u> |
| UniRef90_A0A058ZGK3 | |
| UniRef90_H2TUL9 | |
| UniRef90_V5GL68 | |
| UniRef90_E4WX88 UniRef90_T0GDL9 | L E K A |
| UniRef90_100DE9 | <u>L</u> |
| UniRef90_D8HVG5 | _ |
| UniRef90_A6C4P0 | L P |
| UniRef90_R5PL56 UniRef90_V5DLA8 | |
| UniRef90_V3DLA6 | <u>L</u> |
| UniRef90_UPI00037AC21E | |
| UniRef90_F0J9X5 | CK D |
| UniRef90_B5JL49 UniRef90 W2TAD7 | L P C E E A |
| UniRef90 UPI00036E172E | O L L A |
| UniRef90_B5JM37 | _ |
| UniRef90_A4QGA0 | L |
| UniRef90_UPI000362CD90 UniRef90_UPI0003B3CEF7 | L A |
| UniRef90_0F10003B3CEF7 | <u>L</u> |
| UniRef90_UPI0003B31073 | LK |
| UniRef90_Q8H0P9 | <u>I</u> _A |
| UniRef90_M4CF15 UniRef90_UPI00037FD405 | LPS |
| UniRef90_0F100037FD403 | L P S L E |
| UniRef90_S2WNR5 | |
| UniRef90_A5C6E2 | |
| UniRef90_UPI0003B46F43 UniRef90_K0F1T3 | |
| UniRef90_L1JY01 | NKDA |
| UniRef90_C7R939 | |
| UniRef90_K4G5N6 | |
| UniRef90_D5STY3 UniRef90_A0A034W6Y2 | LP |
| UniRef90_R5EG60 | □ A K A |
| UniRef90_K2B930 | |
| UniRef90_B3S0L5 | LS |
| UniRef90_C1LBX1 UniRef90_V4JQI4 | \Box |
| UniRef90_V45Q14 UniRef90_K8EDN9 | |
| UniRef90_K6W9P9 | <u>L</u> P |
| UniRef90_I6WSS7 | |
| UniRef90_Q5X2T6 UniRef90_UPI000376E18E | L P E |
| UniRef90_A0L5T9 | L P |
| UniRef90_L7VYD3 | |
| UniRef90_Q9FNR7 | 0 1/ 0 |
| UniRef90_B7PRH2 UniRef90 UPI000359DDEE | C K D |
| UniRef90_C5C858 | |
| UniRef90_I3LBY9 | L S S A L P S |
| UniRef90_UPI00016C5284 | LIP S |
| UniRef90_T0RJL6 UniRef90_D0WNS0 | |
| UniRef90_D0A8Y7 | |
| UniRef90_UPI0002193EFC | |
| UniRef90_C0XRG9 | |
| UniRef90_W5EJL1 UniRef90_I0IFE6 | □P |
| UniRef90_IOII-L0 | ıŭ l' |
| | |



| UniRef90_A4I421 UniRef90_S7J325 UniRef90_H5U2I9 UniRef90_F7HA15 UniRef90_H3AJ84 UniRef90_UPI0003336907 UniRef90_A0A011U5M8 UniRef90_UPI0002E014C8 UniRef90_UPI0002E014C8 UniRef90_UPI0002E014C8 UniRef90_UPINT98 UniRef90_UPINT98 UniRef90_H2KV10 UniRef90_S7N4B3 UniRef90_G0HII5 UniRef90_B9T307 UniRef90_B9T307 UniRef90_B9T307 UniRef90_UPI0000F2D5FF UniRef90_UPI0000F2D5FF UniRef90_UPI0000F2D5FF UniRef90_UPI0000F2D5FF UniRef90_UPI0000F2D5FF UniRef90_UPI0000E23D08B UniRef90_UPI0002C3D08B UniRef90_H2KV11 UniRef90_H000428FE0E UniRef90_H2KV17 UniRef90_UPI000428FE0E UniRef90_D6YWT7 UniRef90_D6YWT7 UniRef90_D6YWT7 UniRef90_D6YWT7 UniRef90_D6YWT7 UniRef90_D6YWT7 UniRef90_D6YWT7 UniRef90_D6YWT7 UniRef90_UPI000479CAD3 Un | 80 |
|--|--|
| UniRef90_L8HFT9 UniRef90_E8WVI7 UniRef90_W4PZ51 UniRef90_I4X1A3 | DI DKRRAEGEAMDLNHGLAFSSSNMKI YAGDYSDCRDGDIELEPAMKALEGVIMELKDCAFPLLHGVTASSDVNKAFEGADVAEGIPQGKALDLLQAMPIEKRDVSIVGTDYADTAGSDIDLNKEKAEGDAMDLNHGMPFGSPMKIWAGTYEDCKDADLDIPPMENPAKGKALDLLQAMPIEKRDVSIVGTDYADTAGSDIDLNKEKAEGDAMDLNHGMPFGSPMKIWAGTYEDCKDADLDIPPMENPAKGKALDMAEAAPVLGRVLGTSNYEDTKDSDLDIPPMENPAKGKALDMAEAAPVLGRVLGTSNYEDTKDSDLDIADGVPQGKGLDIAESAPVDGFDAKYSGSDYSAIAGADVDIATDKVEGEVMDLLHGVPFISPTRIKAGTVADVGKDADIDVIVDKLKGEMMDLQHGSLFLKTPKIVSSKDYAVTANSKLDVFKEKAYGEALDINHGLAFVGQMAVYQGDYSDVKDADVDIPPMEDPTKGKALDMLEAGPVQGKMAVYQGDYSDVKDADVDIPPMEDKLKGEAMDLQHGSLFLKTPKIVSSKDYSVTANSKVDIPPMMGALDGVLMELQDCALPLLKETIATADPKVAFKDVDMMADKLKGEMMDLQHGSLFLKTHKIVADKDYSVTANSKVDLPVMMGALDGVLMELQDCALPLLKETIATADPKVAFKDVDMMADKLKGEMMDLQHGSLFLKTHKIVADKDYSVTANSKVDLNKGKGKAQDMMQALLGFDTRIVGSTNDYSKTAGSKIDLNKGKSIGDVMDLNHGVLYAPTTTKVGSTNDYSKTAGSDVDAALDLKEGLAEGKAQDMMQALLGFDTRIVGSTNDYSKTAGSDVDAALDVKEGSSGFNALDISHGKTAGSTDVDAAI |

| UniRef90 A4I421 | 90 100 110 120 A |
|--|--|
| UniRef90_A41421 | D V F L G |
| UniRef90_H5U2I9 | D F L L V G A K P R E R A D L L S A N S A I F A E Q G A V I N D V A A D D T R V |
| UniRef90_F7HA15 | VIIITAGARQETRILINIL VIQRNIVIAII IFKSMII ISSII IAQYSPILI <mark>C</mark> KILII |
| UniRef90_H3AJ84 UniRef90_UPI000363E9C2 | V V V T A GVR Q Q E RLNL I Q R NVN V F K M T I P Q I V K Y S P N C T L I D W F L L G K K L E E R S D L L S L N G G I F V Q Q G E A I G K Y G K D D A K I |
| UniRef90_A0A011U5M8 | N A M L V G A R P R E R A D L L A A N A G I F G P Q G A A L N E V A A G D I R V |
| UniRef90_UPI0003336907 | VIVIVGARQQKRLSL VQRNVNI MKAVIPHI VNESPDCK |
| UniRef90_A2FYF4 UniRef90_UPI0002E014C8 | DCAFLVAPGQVRADLISSNSVIFKNTGEYLSKWAKPTVKV NALLVGARPRERGDLLEANGAIFTAQGAALNKVAADDLRV |
| UniRef90_U1NT98 | Y A F L V G A M P R E R K D L L A A N V K I F K S Q G K A L A D Y A K P T T K V |
| UniRef90_H0XWQ6 | VIITAGVRQQERLAL VQRNVDIMKTIIPTIVRYSPD <mark>C</mark> KML <u>YACLV</u> GSPPRER <u>S</u> DLLQVS <u>G</u> ALFK <u>Q</u> E <u>G</u> SILGEVANRN <mark>C</mark> KV |
| UniRef90_C5LWK5 UniRef90_S7N4B3 | VIITAGARQKKRLDLVQRNLAIFRLMISDIMMHSPN <mark>CK</mark> V |
| UniRef90_H2KV10 | V V I T A G A R Q E T R L D L V Q R N V D I F K R I I P E V A M Y S P K <mark>C</mark> I I V |
| UniRef90_G0HII5 UniRef90_B9T307 | DVFLVGAAPRERRDLLARNAAIFREHGQAMRDVGSFEAKL WALLIGAKPRERADLLDINGQIFAEQGKALNAVASRNVKV |
| UniRef90_F6DVB1 | VVI TAGKPGMSRDD LL STNAG IV KS V TEQ IV KYSPN CF I |
| UniRef90_M1VIR0 | DI VVLRKPGMERKDLLAKNGTIFRDQGQALNRVAKADAHV VIVTAGARQKEGEDRLDRNVEIFKLFIPEIIQYSPN <mark>C</mark> III |
| UniRef90_UPI0000F2D5FF UniRef90_K9GX13 | VIVTAGARQKEGEDRLDRNVEIFKLFLPEILQYSPNCLIVIVTAGVPRKSRDDLIETNAKVMSAVGKGLKENCPD_AFV |
| UniRef90_Q9GPV4 | D A F L I G S F P R K R S Q L L E K N G G I F K V Q G E A P G K N A K K T V R V |
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| UniRef90_P00342 | VIIITAGARGETRII IDII I IQRNIVIAII IMKAII VIPGII VIQNSPD <mark>C</mark> K II |
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| UniRef90_UPI000428FE0E | VVI TAG PRKPGMSRDD L NAG MRS V TKE V KHSPDCF V |
| UniRef90_A7NG29 UniRef90_Q81K80 | VVIITAGKPGETRII IDII VIEKNTKII IEKOII VIRGII IMDSGEDGII IEII I |
| UniRef90_D6YWT7 | HALLVIGAKPRERSDILLIMENGIVINFIVIEQGRAILINEIVIADENIVIKIV |
| UniRef90_P00345 UniRef90_D4W2Z4 | AVITAGAPGETRLDLVEKN <u>VKIFECIVKDI</u> MNSGFDGII <u>VVVTAGVP</u> GETRLALVERNA <u>K</u> IMRD <u>VVKNVMKS</u> G FNGL |
| UniRef90_D4W2Z4 UniRef90_A9VCK2 | VVVTAGVPGETRLALVERNAKI MRDVVKNVMKSG FNGIL YAILLSAIPRSRLDVLRANTVIFKEHGLAFDRVAKPTTKV VIIMAGQEGESRLNLVQRNVNIFKFIILNVVKY SLNCKL IIITAGAPGETRLDLVKKNTAIFKEMVPQLVKY NDKALY |
| UniRef90_G3S0B2 | YAI LLSAIPRSRLDVLRANTVIFKEHGLAFDRVAKPTTKV VIIMAGQEGESRLNLVQRNVNIFKFLILNVVKY SLNCKL |
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| UniRef90_UPI000361DDDE UniRef90_F7PG43 | |
| UniRef90_W0JHH6 | V V I T S G L P R K P G M S R D D V N V K |
| UniRef90_Q2W064 | VIVTAGVPRKPGMSRDDLNLKVMAAVGEGIKKN <mark>C</mark> PG AFV |
| UniRef90_T1EG84 UniRef90_P00344 | VVI CAGAPGETRI DI VDKNI ALERSI VESVMASGEOGI FI |
| UniRef90_W4QDI0 | <u>VVI</u> TAGKPGM <u>S</u> RDD <u>IL</u> V STNAG I MKS V TKQ V <u>V</u> KYSPN <mark>C</mark> Y I |
| UniRef90_A2DUI4 UniRef90_U6HNF1 | ECAFLTSSYKLPAWEVRSNSHIYKEVGEWLSMYANPSCKV VFIAAGARQESRLNLVQRNVDIFKTLIPEVVKYSPDCIIV |
| UniRef90_F0ZJ23 | NIVII VIGAEPRGRKDII I IKIVINIVISII IEKEQGEAII INKYASRDIVIKIV |
| UniRef90_UPI00033153F6 UniRef90_UPI00042220C6 | VIITAGARQKERLDL VRRNVDIFKSVVPSIIRYSPHCK V VIITAGVPGMSRDDL VATNAGIVRSVTEQVVKFSPDCL I |
| UniRef90_R5V0K8 | VIIITIVIGKPGQTRIIIDILI <mark>C</mark> KTNAKIIIMASIVIMPEIIITKYAPNA <mark>C</mark> YIII |
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| UniRef90_L8HIY2 | DIVI I VIGSEPRERNDII I IAKNAAII IEKEOGRAII IDOVASKNIVIKIVI |
| UniRef90_R7FIV4 | VVI TAGKPGQTRLELAETNTRIMKSITQSIMASG FNGVIVIVTAGVPGETRQELLSRNVTIVRSVVEQVIAY NDHGILVVI CAGAPQESRRDLLQKNYKVESSIVQPIIASGFNGVEL |
| UniRef90_UPI00041D10FF UniRef90_R6IP68 | V V I C A G A P Q E S R R DL L Q K N Y K V F S S I V Q P I I A S G F N G V F L |
| UniRef90_Q8PVJ7 | VIIIAGKPGMSREDIIIKINSKIIIGDVAGNIAKYAPNSIIVII |
| UniRef90_A5D2J2 UniRef90_UPI000289CA07 | VIVTAGÜPGMSRDDLLNTNYKI VSSVAENIARYSPN ALI VIITAGKPGMSRDDLVSINVGIMKEVTKNVVRYSPD TTI |
| UniRef90_I0JR33 | VCI CAGAPGETRUDL VKKNLTI FKSI VDDV MASGENGUELI |
| UniRef90_D5AAB2 UniRef90_UPI000426689E | VIITAGKPGMSRDDLVSINVGIMKEVTKNVVRYSPD TTI VCICAGAPGETRLDLVKKNLTIFKSIVDDVMASGFNGIFL CVITAGARQRSRLDLVERNLHLFKSIVPQLTKYSPD TIL VVIAAGKPGMSREDLLHYNAKIVAHAAKEAIKRNPQALFI |
| UniRef90_P80039 | V V I T A GL P R K P G M T R E D M N A G I V R E V T G R I ME H S K N P L I V C I V T A G V P G M S R D D L L G I N L K V M K S V G E G I A A H A P D A F V I I I T A G I P R K P R E E L I D V N A V V M K E V G E K I K K F A P K A F V V I V T A G V P R K P G M S R D D L N L K V I E A V A D G I K R H A A D A F V V I V T A G V P R K S R D D L L E I N L K V M E Q V G A G I S K Y A P D A F V V I V T A G V P R K S R D D L L E I N L K V M E Q V G A G I S K Y A P D A F V V I V T A G V P R K S R D D L L E I N L K V M E Q V G A G I S K Y A P D A F V D V A C S T |
| UniRef90_A3XCN3 UniRef90_Q2GCH6 | UI VII A GIV P G M S K D D L L G I N L K V M K S V G E G I A A H A P D A F V I I T A G I P R K P R E E L I D V N A V V M K F V G F K I K K F A P K A F V A F A |
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| UniRef90_G5IDH7 | VVISAGVPGETRLDLLKRNAKVFQSTJEPLNAKFTUKVFQSTJEPL |
| UniRef90_L8HFT9 | FAMIL VIGAK PRERGDILLIK ENANI I FSSRA |
| UniRef90_E8WVI7 UniRef90_W4PZ51 | VVITAGAPGETRUDLIEKNAKI FKSI VGSVMASGFDGI FI |
| UniRef90_I4X1A3 | VILITAGKPGMSRDDLVQTNQKVMKAVTADIVKYŠPE TTI |
| UniRef90_F9L6L9 UniRef90_B8IJB4 | VINTAGIPRKPRDDLVQTNEEIVYQTSLINIAKYAPN AII VIVTAGVPRKPGMSRDDLNLKVMEAVGTGIKTHAPN AFV |
| UniRef90_A0YLW3 | VIVITAGASQRERLDLLHRNVKIFRSLIGDVAKHCPD ALL |
| UniRef90_F6W081 UniRef90_UPI0001E2E7B0 | VVITAGARQQEGESWVQRNVNIFKFIIPNIVKYSPN <mark>C</mark> K LIIITAGAPGETRUDUAKKNVSIAKEITANIMKHY TSGVI |
| UniRef90_UPI0004235D2F | VII TAGKPGMSRDD LV NTNAK I MKS V TKE IV QYSPD T <mark>C</mark> |
| UniRef90_Q9PVK5 | V V V T A G A R Q Q E R L N L V Q R N V N I F K F I T P N I I K Y S P N C I L |
| UniRef90_M4TAD7 UniRef90_A7LBQ0 | DAI MVGAMPRRRKDLLKANVKI FEVQGKALDEVAKKDVKV CVVTAGVRQRERLDLVQRNTDVLKQI I PQLIKYSPDTI LV |
| UniRef90_UPI000368B5EC | CVVTAGVRQRERLDLVQRNTDVLKQIIPQLIKYSPDTILV VVICAGAPGETRLELVEKNMVIFKNIVGQVMDSGFDGIFL |
| UniRef90_G8TP96 UniRef90_U2USN6 | VVITSGEPRKPGMTREEENAGI VRGVAENI LKHSPN AII IVITAGAPGETRUDLVKKNVGI EKSLIPELKKR DCGGIL |
| UniRef90_F8WZT9 | VVIIISGII PRKPGMIREEIVINAGII VIKSIVIAENII IIKYSPNAIVI VI |
| UniRef90_Q2RHG3 UniRef90_B8EM38 | VIETAGAPGOTRII DII I IHRNTAII VIROAII IPEII I IHVCPE AII V |
| UniRef90_A4SFT4 | I I VTA GVPRKPGMSRDDLNLKVMDAVGGGI KQYAPD AFV VLITA GKPGMSREDLLMKNTAI I KDVTTQVMRY SVNPL VVITA GKPGMSRDDLIYTNA KI VA DVA QKALKYSPNA QFI |
| UniRef90_K9T4E5 | V V I T A G K P G M S R D D L I Y T N A K I V A D V A Q K A L K Y S P N A Q F I I |

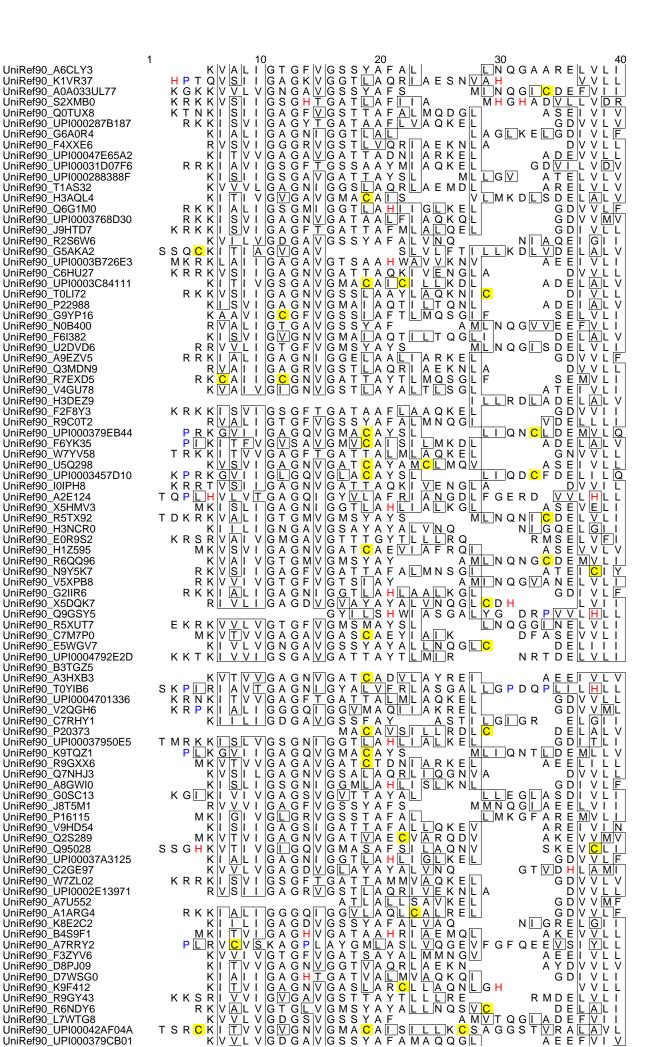
| UniRef90_A4I421 UniRef90_S7J325 | 130 140 150 160 V V V G N P A N T N A L I L L K S A G K L N P R H V T A M T R L D H N R A L S L F V V G N P V N T N C W I T M N N A P R L N R R N F Y A ML R L D Q N R M H S M |
|---|---|
| UniRef90_H5U2I9 UniRef90_F7HA15 UniRef90_H3AJ84 UniRef90_UPI000363E9C2 | FVVGNPVNTNCWITMNNAPRLNRRNFYAMLRLDQNRMHSMIVVGNPANTNAAVAAASAPDVPAERFTALTRLDHNRAIAQVVSNPVDILTYVAWRLSAFPKNRVIGSGCNLDTARFRFLVVSNPVDLLTYVTWKLSGLPKHRVIGSGCNLDSARFRFLLVVGNPANTNAFIGKDAANNDNQLWMAMTMLDSNRAKSL |
| UniRef90_A0A011U5M8 UniRef90_UPI0003336907 UniRef90_A2FYF4 | U V V G N P A N I N A L I A A A A A P D I P G E R F A A L I R L D H D R A L A Q L V V T N P V D L M T H V A W K L S G L S A S S V I G S G C N L D S A R F R Y L L V I G N P D N T N C E I A M L H A K N L K P E N F S F L S M L D H N R A Y Y E |
| UniRef90_UPI0002E014C8 UniRef90_U1NT98 UniRef90_H0XWQ6 | V V G N P A N I N A F I C A K Y A P K I P A C N F S A M I R L D H N R A I A Q V V S N P V D L L T Y V V W K L S G L P A T S V I G T G C N L D S A R F R Y L |
| UniRef90_C5LWK5 UniRef90_S7N4B3 UniRef90_H2KV10 UniRef90_G0HII5 | V V S N P V DIL LI Y V I W K L S G F P P N R I MG T G T L L D S A R F R F L V V S N P V D V L T Y V A A K L S G F P P N R I MG T G T L L D S A R F R H L V V G N P V N T N A Y V L A R Y A P N I O R D N V T G I L R I D Y N R A I O Y |
| UniRef90_B9T307 UniRef90_F6DVB1 UniRef90_M1VIR0 | L V V G N P C N I N A L I CLIK N A P N I P A K N F H A L I R L D E N R A K C Q L V V T N P V D V S A Y I A Y K A S G F A P N R V F G L S G V L D S A R F R T F L V V G N P A N T N A W T L S O F C T K I P K F H L T A L A R I D H N R I K S I |
| UniRef90_UPI0000F2D5FF UniRef90_K9GX13 UniRef90_Q9GPV4 UniRef90_UPI0002C3D08B | L V V I N P V DI MS Y V A W K L S G F S S Y R V F G S G U S L D I S R F U F F I O I T N P L D A M V W A L R E A S G L P H N K V V G M A G V L D S A R F R W F L V V G N P A N T N O L L C O H Y A V G I K P E N F S A M T R I D H N R M I G F |
| UniRef90_H2KV11 UniRef90_P00342 UniRef90_K2MP53 | V V S N P V D V L T Y A A A K L S G F P R H R V I G T G T M L D S A R F R Y L |
| UniRef90_A0A037Z0V8 UniRef90_I9M5E5 UniRef90_UPI000428FE0E UniRef90_A7NG29 | I I S N P M D T M T Y L A L K A S G L P K N R I I G M G G I L D S S R F K C Y V L T N P V D A M T Y A V Y Q E S G F P K N R V I G Q S G V L D T A R F C T F |
| UniRef90_Q81K80 UniRef90_D6YWT7 UniRef90_P00345 | I MVNNPLDTMTYLAKQVSGFPKNRVVGQAGVLDTARYRTF I ATNPVDI LTVVTWKESGLPKERVI GSGTTLDSARFRYM L VVGNPCNTNAL I CMNNAPRI PRKNFHALTRLDQNRAAYQ L VATNPVDI LAHVTQKVSGLPNGRVI GSGTLLDTARFRYL |
| UniRef90_D4W2Z4 UniRef90_A9VCK2 UniRef90_G3S0B2 | L V G N P C N T N A L I C M N N A P R I P R K N F H A L T R L D Q N R A A Y Q L V A T N P V D I L A H V T Q K V S G L P N G R V I G S G T I L D T A R F R Y L L I A S N P V D V L T Y V A W Q E S G L S R H R V I G T G T T L D T A R L R H E V V V A N P S A T N A L I V S S F A K S V P K E N F T S L A W L D Q N R A A A H L I V S N P V D I L T Y V A W K I R G F P K N H V I G S G C N L D S A Q F R Y L L V S N P V D I L T Y V T L K V S G L P S N Q V I G S G T V L D S S R F R F L L V T N P V D I L T Y V T L K V S G L P S N Q V I G S G T V L D S A R F R F L L V A T N P V D I L T Y V T L K V S G L P S R R V V G S G T V L D S A R F R F L V A T N P V D I L T Y V T L K V S G L P S R R V V G S G T V L D T A R F R Y V V |
| UniRef90_UPI000479CAD3 UniRef90_UPI0001E892AC UniRef90_M1ZLT6 UniRef90_UPI000361DDDE | L V L S N P V D A M T Y V A Y K T T G F P K N R V F G Q S G V L D T A R F R S F |
| UniRef90_F7PG43 UniRef90_W0JHH6 UniRef90_Q2W064 | L V V A N P V D V L S Y V T W K V S G L P R H R V L G T G T V L D T A R F R N V I V T N P L D A M V Y T A S K V S G F A D N K V M G Q A G C L D S T R F K R F L C L T N P L D V M V W A L O H Y S G V P A N M L V G M A G V L D S A R F R T F |
| UniRef90_T1EG84 UniRef90_P00344 UniRef90_W4QDI0 UniRef90_A2DUI4 | I VSNPVDI LTYVAWKISGLPRNQVI GSGTMLDSSRFRFI VATNPVDI LTYATWKFSGLPHERVI GSGTI LDTARFRFL I VLTNPADAMTYTVYKESGFQKNRVI GQSGVLDTARFRTF LMI ANPINTNAAL CAKFAKNLNPQNFTSLSMLDHNRANFY |
| UniRef90_U6HNF1 UniRef90_F0ZJ23 UniRef90_UPI00033153F6 | |
| UniRef90_UPI00042220C6 UniRef90_R5V0K8 UniRef90_UPI0003B72E94 UniRef90_UPI000371B392 | L V V S N P V D L L T Y V A W K L S D L A P N R V L G S G C N L D T A R F R V L I V L S N P V D A M T Y V A Y K T S G F P K N R V I G Q A G V L D T A R F R T F I V S N P V D V L T E A I Q V S G L N P K H V F G S G T V L D S S R L R T C I T N P L D A M V W V L R E A S G L P H N K V V G M A G V L D S A R F R H F I C I T N P L D A M V W V L R E F S G L P H N K V V G M A G V L D S A R F R W F C V V G N P A N T N A L I A Q A C A P S I P K E N F T A L T R L D Q N R A K G F |
| UniRef90_L8HIY2 UniRef90_R7FIV4 UniRef90_UPI00041D10FF | CVVGNPANTNALIAQACAPSIPKENFTALTRLDQNRAKGFIVASNPVDLMTYVVSKVSGLPKNQVFGSGTVLDTARLRYILMATNPVDVLSYVAWRVSGWPAERVIGSGTVLDSARFRFR |
| UniRef90_R6IP68 UniRef90_Q8PVJ7 UniRef90_A5D2J2 UniRef90_UPI000289CA07 | C V V G N P A N T N A L I A Q A C A P S I P K E N F T A L T R L D Q N R A K G F I V A S N P V D L M T Y V V S K V S G L P K N Q V F G S G T V L D T A R L R Y L L M A T N P V D V L S Y V A W R V S G W P A E R V I G S G T V L D S A R F R F R V A S N P V D I M T Q V Y Y T L S G F P A N R V V G S G T S L D S A R F R F R N N V T N P L D I I T Y V A M K A T G F D P E K V F G M S G V L D A G R F A S F I V V S N P L D V M A Y T A Y K A S G F P S N R V F G M A G V L D S A R F R T F I V L S N P V D A M T Y T V Y K E S G F P K N R V I G Q S G V L D T A R F R T F I V L S N P V D I L T Y A T W K F S G L P K E R V I G S G T N L D S S R F R S L L V V S N P V D I L T Y A T W K F S G L P K E R V I G S G T N L D S S R F R S F I L V V S N P L D V M T Y L A W T V T G L P P E R I M G M G G V L D S A R F R T F I V V S N P L D I M T H V A W Q K S G L P K E R V I G M A G V L D S A R F R S F I C I T N P L D A M V W A L Q K F S G L P T N K V C G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P T N K V C G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P A E K V V G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P A E K V V G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P A E K V V G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V W A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V M A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V M A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V M A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V M A L Q K F S G L P S K K I V G M A G V L D S A R F R F F I C I T N P L D A M V M A L Q K S S L P S K K |
| UniRef90_I0JR33 UniRef90_D5AAB2 UniRef90_UPI000426689E | VATNPVDILTYATWKFSGLPKERVIGSGTLLDSGRFRFLLVVSNPVDILTYLAWKLSGLPSNRVLGSGTNLDSSRFRSLVVTNPLDVMTYLAWTVTGLPPERIMGMGGVLDSARLRTF |
| UniRef90_P80039 UniRef90_A3XCN3 UniRef90_Q2GCH6 UniRef90_UPI000370F4A7 | V V S N P L DI M I HV A W Q K S G L P K E R V I G M A G V L D S A R F R S F I C I T N P L D A M V W A L Q K F S G L P T N K V C G M A G V L D S A R F R H F I V V T N P L D V M V L Y K A A E I S P D K I V G M A G V L D A S R M N L F I C I T N P L D A M V W A L Q K A S G L P S K K L V G M A G V L D S A R F R F F |
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| UniRef90_L8HFT9 UniRef90_E8WVI7 UniRef90_W4PZ51 UniRef90_I4X1A3 | RFTAMTRLDHNRGLAQ I VSNPLDAMAQAAFKKSGFPRERVIGMAGVLDSARFRTF VATNPVDLLSYATWKFSGLPMERVIGSGTILDTARFRFL I VLTNPVDAMTYTVFQASGFPKERVIGQSGVLDSARFRTF I VLTNPVDAMTYTALKASGFPKGRVIGQSGVLDTARYQSF |
| UniRef90_F9L6L9 UniRef90_B8IJB4 UniRef90_A0YLW3 | LIVANPVDIMTYVSLKLSGFPSSRVLGSGTVLDSARFRHF |
| UniRef90_F6W081 UniRef90_UPI0001E2E7B0 UniRef90_UPI0004235D2F UniRef90_Q9PVK5 | L V V S N P V D L T Y V A W K L S G F P K N R V I G S G C N D S A R F R Y L L V V S N P V D L T Y M S K W S G L P N G R V M G S G T V L D S S R F R Y L I V L T N P V D A M T Y T V Y K E S G F P K N R V I G Q S G V L D S A R F R T F L V V S N P V D L T Y V A W K L S G L P R N R V G S G T N L D S A R F R Y L V S N P V D L T Y V A W K L S G L P R N R V G S G T N L D S A R F R Y L V S N P V D L T Y V A W K L S G L P R N R V G S G T N L D S A R F R Y L V S N P V D L T Y V A W K L S G L P R N R V L G S G T N L D S A R F R Y L V S N P V D L T Y V A W K L S G L P R N R V L G S G T N L D S A R F R Y L V S N P V D L T Y V A W K L S G L P R N R V L G S G T N L D S A R F R T L V S N P V D L T Y V A W K L S G L P R N R V L G S G T N L D S A R F R T L V T T T T T T T T T |
| UniRef90_M4TAD7 UniRef90_A7LBQ0 UniRef90_UPI000368B5EC | L V V G N P A N T N C F V M S K Y A K S I P K E N F S C L T R L D Q N R A Q A Q I A S N P V D I L T Y V T W K I S G L P K H R V I G S G T N L D S A R F R Y L I A T N P V D I L T Y A T W K F S G L P K F R V L G S G T L L D T A R F R Y L |
| UniRef90_G8TP96 UniRef90_U2USN6 UniRef90_F8WZT9 UniRef90_Q2RHG3 | LIVANPUDILITYAAAKLISGEPENRVEGSGTVLDSARLKYL |
| UniRef90_Q2RHG3 UniRef90_B8EM38 UniRef90_A4SFT4 UniRef90_K9T4E5 | L MV A N P V D L T Y V A W K L S G L P E N R V L G S G T V L D S A R F R H L I C I T N P L D A MV W A L Q K S S G L A P A K I V G M A G V L D S A R F R Y F L M V S N P L D V M T F V A H T V S G L K P E R V L G M A G V L D T A R F R S F V L T N P L D A M T Y L T W K A T G L P A F Q V M G M A G V L D S S R L Q T F |

| UniRef90_A4I421 | 170 |
|---|---|
| UniRef90_S7J325 UniRef90_H5U2I9 UniRef90_F7HA15 | LAHRAQVALDEVSHTVI WGNHSAKQVPDFTQALI SGRPAV LAAHTGAPVRDI SRVSI WGNHSATQYPDIFHARVGDRSGA LGQKLGI HSESCHG WILGEHGDSSVPVWSGVNI AGVPLK |
| UniRef90_H3AJ84 UniRef90_UPI000363E9C2 UniRef90_A0A011U5M8 | LAKKTNNNVSDVKNMII WGNHSPTMYPDSGNALI SGKLGS LAAALEAPVAAVQGVAI WGNHSATQFPDVAHASVDGRPVL |
| UniRef90_UPI0003336907 UniRef90_A2FYF4 UniRef90_UPI0002E014C8 | V G E K L G V H P T S C H G WI I G E H G D C S V P L W S G V N V A G V P L K V A S K L G V H V H D V H D I I V W G N H G E S M V A D L T Q A T F K D G K T Q L S H Q T G A P V T D I K R M T I W G N H S A T Q Y P D L S H T T V G G K P A L |
| UniRef90_U1NT98 UniRef90_H0XWQ6 UniRef90_C5LWK5 | |
| UniRef90_S7N4B3 UniRef90_H2KV10 UniRef90_G0HII5 | I G Q K L G L H A E S C H G WV L G E H G D S C V P V W S G V N V A G V P L R L G E K L G V S A N S V H A Y I I G E H G D S S V P V W S Y A N I A G V R L S V S S G H N V S P R L V D R L A V W G N H S T T V F P D L R N L T V G G R P |
| UniRef90_B9T307 UniRef90_F6DVB1 UniRef90_M1VIR0 | LALKAGVFYDKVSNVTI WGNHSTTQVPDFLNAKINGLPVK I ARELNISFEDVTT FVLGGHGDDMVPLVKYTYAGGIPVE VARKLDSAVSDVHNVII WGNHSATQYPDVTYYTPQIVQGK |
| UniRef90_UPI0000F2D5FF UniRef90_K9GX13 | I GERLGINTRSCHG WILGEHGDSSVPIWNGVNIAGFPLK LHEEFNVSVQDITAFVLGGHGDTMVPLTXYSTVAGGPLP |
| UniRef90_Q9GPV4 UniRef90_UPI0002C3D08B UniRef90_H2KV11 | I A A R C N T T A G E V K K V T V W G N H S N T Q V P D V T F T T V Q G K P A Y I A L K L N V N V E D V K D A F V W G N H S E K Q C P D L Y H A T L S T P L G Y L G E R L G V S A N S V H G Y L L G E H G D S S V P V W S T V S L A G V R L S |
| UniRef90_P00342 UniRef90_K2MP53 UniRef90_A0A037Z0V8 | I G E K L G V N P T S C H G W V L G E H G D S S V P I W S G V N V A G V T L K L A E E F N V S V K D V T A F V L G G H G D T M V P S L R Y S T V A G I P V P L S N H F K I D V R N V H T Y I L G E H G D S E I A A W S L T N L A G I G V E |
| UniRef90_I9M5E5 UniRef90_UPI000428FE0E UniRef90_A7NG29 | L S Q A M N V P A T D I H G V V V G G H G D T T M I P L T R F A T Y M G I P A A I A E E L E V S V E D V R G F V L G G H G D D M V P M L R Y S S V G G I P V Q I A M E A G V S V E D I Q A M L M G G H G D E M V P L P R F T T I S G I P V T L G D Y L D V D P R N V H A Y I V G E H G D T E L P V W S H A T I G V Q K L E |
| UniRef90_Q81K80 UniRef90_D6YWT7 UniRef90_P00345 | L G D Y L D V D P R N H A Y V G E H G D T E L P V W S H A T G V Q K L E L A R K A G V S N V T I W G N K S T Q V P D F F N A K E G K K A G L S D Y F E V D S R N V H A Y V M G E H G D T E F P V W S H A Q G G V K L E M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G G M C M G |
| UniRef90_D4W2Z4 UniRef90_A9VCK2 UniRef90_G3S0B2 | I G K Y L NV D P R NV H G Y I V G E H G D T E T P L W S H T T V G V K P L L L A A R L N E D K R D I R N L I V W G N H S D T M F P D T R Q A V I V Q P K P M G E R L G V H P L S C H G W V L G E H G D S S A P V W S G M N V A G V S L K |
| UniRef90_UPI000479CAD3 UniRef90_UPI0001E892AC UniRef90_M1ZLT6 | LGKLCGI DPRNVHAYI V GEHGDTEVAAWSLTNVAGSPFT LGDYFQVDARNVHAYI I GEHGDTELPVWSKADI GGKPI L VAEALQVSVQDVTG FVLGGHGDDMVPLVRYSYVGGVPLE LSEEFKVSIEDVTA FVLGGHGDTMVPLSRYSTVAGI PIP |
| UniRef90_UPI000361DDDE UniRef90_F7PG43 UniRef90_W0JHH6 | LSEFKVSIEDVTA FVLGGHGDTMVPLSRYSTVAGIPIP LSENCNIDARNVHAYVI GEHGDGEVLVWSATHMAGVPFD ILAWEAGVSVKSVEAM TLGGHGDDMVPLVSYSTIRGVPIS |
| UniRef90_Q2W064 UniRef90_T1EG84 UniRef90_P00344 | L CEEFNVSVEDVTA FVLGGHGDTMVPLVRYSTVAGIPLP LSERIGIAPKSVHGYII GEHGDSSVAVWSSVNIAGTRLK LGEYFSVAPQNVHAYLI GEHGDTELPVWSQAYLGVMPIR |
| UniRef90_W4QDI0 UniRef90_A2DUI4 UniRef90_U6HNF1 | I A D K I G V P V C D I K D V I V W G N H G E T I V P D I T N A T F V K N G K T |
| UniRef90_F0ZJ23 UniRef90_UPI00033153F6 UniRef90_UPI00042220C6 | L G Q K L D L A A S S I H G Y I I G E H G D S S V A V W S R V S V G G V N L S I S E K V G V S V E N V N N V I I W G N H S L T Q V P D V N H G Y I S N Y P Q R L G Q R L G V H S E S C H G W V L G E H G D S S V P V W S G V T V A G V P L R V A E E V G V S V E D V S G F V L G V H G D D M V P L I R Y S Y V G G V P L E L A D H A N L N I K N I H A Y V F G E H G D S S M I P W S L S S I D G M K F D |
| UniRef90_R5V0K8 UniRef90_UPI0003B72E94 | LADHANLNIKNIHAY VEGEHGDSSMIPWSLSSIDGMKFD IAEEVKVSVEDVRA FVLGGHGDSMVPMTRYSTVAGIPLP |
| UniRef90_UPI000371B392 UniRef90_L8HIY2 UniRef90_R7FIV4 | LAKKLHVSPGQIHNAIIWGNHSSTQFPDVSHVSIDGRTVS MSDYLKVSSKNIHAY IMGEHGDSSFVPWDHAYVGCKKMK |
| UniRef90_UPI00041D10FF UniRef90_R6IP68 UniRef90_Q8PVJ7 | LGQELGVDARSVHAH I LGEHGDTEVAAWSKTNVAGVP MSDYFHVNPRNVHAYVI GEHGDSEFVPWSQALISVKPLD I AEELKCSKRDVEAMVI GGHGDLMVPLPQYTTVSGIPLP |
| UniRef90_A5D2J2 UniRef90_UPI000289CA07 UniRef90_I0JR33 | I A MELIGII SIVIE DIVIS ALLI IVILIGIGI GID I MIVIPIVILIS CA FAGCII PIVII II A D EL NL SIVIA DIVIS GI FIVILIGIGI GID SIMIVIPILI I QYSYA GGII PI D L G E Y F D I A P S N V H A N I I G E H G D T E L P V W S H A S I G G V P V Y |
| UniRef90_D5AAB2 UniRef90_UPI000426689E UniRef90_P80039 | |
| UniRef90_A3XCN3 UniRef90_Q2GCH6 UniRef90_UPI000370F4A7 | L A E E F N V S M R D V T A F V L G G H G D T M V P S V R Y S T V A G L P L P L A Q E L G V S V A D V K S L V L G S H G D S M V P L F R H S T V S G M S L P L A E E L K V S I E D V T A F V L G G H G D D M V P S L R Y S T V A G I P L P |
| UniRef90_G4R6B6 UniRef90_A2EFX9 UniRef90_G5IDH7 | |
| UniRef90_L8HFT9 UniRef90_E8WVI7 UniRef90_W4PZ51 | LADKLK <mark>C</mark> KVTDIERFAI WGNHSATQYPDISHTQINGKWAK IAEELQVSVENVTA FVLGGHGDTMVPLSRYSTMAGIPIT LGQYFDVDSRNVHAY IMGEHGDTELPVWSHADIGGKPIL |
| UniRef90_I4X1A3 UniRef90_F9L6L9 UniRef90_B8IJB4 | V A E E L D V S V K D V T G F V L G G H G D D M V P L V R Y S Y A G G I P L E I A D E L N V S V K D I N G L V L G G H G D T M V P L V E S T Q V N G V P V K L A E E F S V S V E D V T A F V L G G H G D D M V P L V R Y S T V A G I P L P |
| UniRef90_A0YLW3 UniRef90_F6W081 UniRef90_UPI0001E2E7B0 | LANRLDI DPRSVHAYII GEHGDSEVPVWSKANVAGMKIIC MGEKLGI HSSSCHG WILGEHGDSSVPVWSGVNVAGVSLK LSKKLNVDVRNVHGYLI GEHGDSQLPAWSATHIAGQSIS |
| UniRef90_UPI0004235D2F UniRef90_Q9PVK5 UniRef90_M4TAD7 | I A E E L N L S V K D L T G F V L G G H G D D M V P L V R Y S Y A G G I P L E M G E K L G I H P S S C H G W V V G E H G D S S V P V W S G V N V A G V S L Q I A A R L Q V K N T D V R N I I I W G N H S S T Q F P D A T H A R M L D G S S |
| UniRef90_A7LBQ0 UniRef90_UPI000368B5EC UniRef90_G8TP96 | |
| UniRef90_U2USN6 UniRef90_F8WZT9 UniRef90_Q2RHG3 | L G E H L S I D N R S V H A F I I G E H G D S E I A A WS S A N V S G I P L R L S E A L G C N P N E V E G M V I G G H G D T T M I P V T R L A T Y K G I P V T L S R H Y R V D P R N I H A Y V I G E H G D T E V P V W S L A N V A G V D L E |
| UniRef90_Q2RHG3 UniRef90_B8EM38 UniRef90_A4SFT4 | L S E E F K V S V E D V T A F V L G G H G D D M V P S L R Y S T V A G I P L T I A M E L G V C T A D V S T M V L G G H G D L M L P L J R Y C T V R G V P I A |

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| JENSON PHONOSOSSOC PARTS OF THE PROPERTY OF TH | UniRef90_A4I421 | F AUKGGALINDDEWOVVRGRGAFILLOURGUSSAMSAAK |
| JIMBRISS DIPROSO335907 IN 19 DIPROSO335907 | | DIVIA A DTD WILLEN VIMIVIPSII QNRGSAIVI EARGKSSAGSAAR |
| June | UniRef90_F7HA15 | DII IN P DII IG T D K D P F Q W K NIVIH K F A S A Y F II I IK M K G Y T S W A II IGII I |
| June | · . · . · . · · | NLNPDFGADQDKEGWKEVHKMVSAYEVIKLKGYTNWAIIGL |
| June | UniRef90_A0A011U5M8 | DALADAAAS WLDDVFVPRVAKRGAELI SVRGSSSAASAAN |
| June | UniRef90_UPI0003336907 | TUNPHUGTDADKENWKSVHKESSAYEI IKMKGYTNWALGL |
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| Junkerson Standas Standas | UniRef90_U1NT98 | APAAIVIGDDAWII KGEENII II IVIQKRGAII LIIEKRKII ISSAMSAAK |
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| Junkergo Dybood 2505 FF L N P DIL G T S K D D E G WE TIL HIV YN 8 8 AY EIV I, K MK G Y T S W A I I G L M Junkergo Dybood 2505 FF L N P DIL G T S K D D E G WE TIL HIV YN 8 8 AY EIV I, K MK G Y T S W A I I G L M Junkergo Dybood 2505 FF L N P DIL G T S K D D E G WE TIL HIV YN 8 8 AY EIV I, K MK G Y T S W A I I G L M Junkergo Dybood 2505 FF L N P DIL G T S K D D E G WE TIL HIV YN 8 A AY EIV I K MK G Y T S W A I I G L M Junkergo Dybood 2505 FF L N P DIL G T S K D E G WE TIL HIV YN 8 A AY EIV I K MK G Y T S W A I I G L M Junkergo Dybood 2505 FF L N P DIL G T S K D E G WE TIL HIV YN 8 A AY EIV I K MK G Y T S W A I I G L M JUNKergo Dybood 2505 FF L N P DIL G T S K D E G WE TIL HIV YN 8 A AY EIV I K MK G Y T S W A I I G L M JUNKergo Dybood 2505 FF L N P DIL G T S K D E G WE TIL HIV YN 8 A AY EIV I K MK G Y T S W A I I G L M JUNKergo Dybood 2505 FF L N P DIL G T S K D E G WE TIL HIV YN 8 A AY EIV I K K MK G Y T S W A I I G L M JUNKergo Dybood 2505 FF L N P DIL G T S K D E G WE TIL HIV YN 8 A AY EIV I K K MK G Y T S W A I I G L M JUNKergo Dybood 2505 FF L N P DIL G T S K D E G WE TIL HIV YN 8 A AY EIV I K K MK G Y T S W A I I G L M JUNKER S W A I I I I I I I I I I I I I I I I I I | UniRef90_B9T307 | FIVI II IKD NK WILLEFEELEKIVIQK RGGIVLLIKK WGRSSAASLAIVI |
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| Junkeley D. Polo002c30088 | UniRef90_UPI0000F2D5FF | |
| Junkeley D. Polo002c30088 | UniRef90_K9GX13 | DIL VIK M G W T T Q E K D Q II V Q R T R D G G A E II V IA H L IK T G S A F Y A P A |
| Junkergo CAMP55 Junk | UniRef90_UPI0002C3D08B | KKIVIT FIL VIFAS WILIFAFNKIL VIQFRGAKIV LIFMRKAS SAASAAK |
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| Jinkel90 | UniRef90_D6YWT7 | FIVI II ID F F S W F N DIVIFII IPII VIO S R G A OIV I IS A R G K S S A A S A A N |
| Jinkelso Diplomotaryocads | UniRef90_P00345 | H F I I N T A A I L E K E P D M Q H L F E Q T R A A Y H I T N R K G A T Y Y G I A M |
| Johrenge O, Johnson G, Sos Baz J | UniRef90_A9VCK2 | FILIPPIVIRDDGEILLIKDILVIDHIVIRORGKAILVIRKROLLPAMSAAR |
| JAINGRISO JUPI0001E392AC | UniRef90_G3S0B2 | TPHPDLETDKHKEQWKEVHVVESAYEVTKLKGYTCWAIGL |
| Jinker90 - 114G84 KL V E S K G E E A Q K D E RI IF IV N V R D A A Y E I I I KL K G Y T Y Y G I A M D A I VIERT R K G G G E I V K I I K L K G A T Y Y G I A M D A I VIERT R K G G G E I V K I I K L K G A T Y Y G I A M D A I VIERT R K G G G E I V K I I K L K G A T Y Y G I A M D A I VIERT R K G G G E I V K I I K L K G A T Y Y G I A M D A I VIERT R K G G G E I V K I I K L K G A T Y Y G I A M D A I VIERT R K G G G E I V K I I K L K G Y T Y G I A M D A I VIERT R K G G G E I V K I I K L K G Y T Y G I A M D A I VIERT R K G G G E I V K I I K L K G Y T Y G I A M D A I VIERT R K G G G E I V K I I K L K G Y T Y G I A M D A I VIERT R K G G G E I V K I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I I K L K G Y T A P A I A I A I K L K G Y T A P A I A I A I K L K G A T Y Y G I A M A Y E I I K L K G Y T A P A I A I A I K L K G Y T A P A I A I A I K L K G Y T A P A I A I A I K L K G Y T A P A I A I A I K L K G Y T A P A I A I A I A I K L K G Y T A P A I A I A I A I A I A I A I A I A I | UniRef90_UPI0001E892AC | ELMAKQEKYREEDNDLFVSVRDAAYQI IERKGATYYGLAM |
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| Jinkef90 P00344 KL V E S K G E E A Q K D E RII F V N V N D A A Y Q I E K G A T Y Y G I A M J A I P A Jinkef90 A2DUI4 Jinkef90 A2DUI4 Jinkef90 P00033153F6 Jinkef90 P000033153F6 Jinkef90 P000033153F6 Jinkef90 P000037153F6 Jinkef90 P000037153F6 Jinkef90 P000037153F6 Jinkef90 P000037153F6 Jinkef90 P00003715399 Jinkef90 P000037153F6 Jinkef90 P0000371547 Jinkef90 P00000371547 Jinkef90 P0000371547 Jinkef90 P0000371547 Jinkef90 P00 | UniRef90_T1EG84 | DII I <mark>H P H T G D P D D P E N WN EII IH K E N S A Y EII I IKIL IK G Y T S W AII IGI</mark> VI |
| Jinkef90 | UniRef90_P00344 | KIL VIESKGEEAQKDERII IFIVINIVIRDAAYQII I IEKKGATYYGII IAM |
| JniRef90_UP10003315376 JniRef90_UP10003315376 JniRef90_UP10003315376 JniRef90_UP10003315376 JniRef90_UP10003315376 JniRef90_UP10003716392 JniRef90_UP10003716392 JniRef90_UP10003716392 JniRef90_UP10003716392 JniRef90_UP10003716392 JniRef90_UP1000412006 JniRef90_UP100041206896 JniRef90_UP1000426896 JniRef90_UP10004286896 JniRef90_UP1000428689 | UniRef90_W4QDI0 | F D V G F D F M K N F F Y K F M T S R G D C I K H R G I S A A S T V V |
| JAIRGE90_UP100033153F6 JAIRGE90_UP100032153F6 JAIRGE90_UP10003716392 JAIRGE90_UP10003716392 JAIRGE90_UP10003716392 JAIRGE90_UP10003716392 JAIRGE90_UP10003716392 JAIRGE90_UP100041D10FF JAIRGE90_UP1000 | UniRef90_U6HNF1 | TVYPKFGEDGDPNNFKAVHKDVSAYEI IRLKGYTSWAIGL |
| Jurikergo UP100041D10FF Jurikergo DRFIVA JURIKERG DRFIVA JURIKERG DRFIVA JURIKERG DRFIVA JURIKERG DRFIVA JUR | UniRef90_UPI00033153F6 | SILINKHILIGAKGDPFAWGRIVIHOIVIASAYOILIIRMKGYTSWAILIGILI |
| JURIKE90 LISHIY2 JIRIKE90 RYFIV4 JIRIKE90 RISPAS JIRIKE90 LISHIY2 JIRIKE90 RISPAS JIRIKE90 LISHIY2 JIRIKE90 LISHIY2 JIRIKE90 LISHIY2 JIRIKE90 LISHIY2 JIRIKE90 LISHIY3 JIRI | UniRef90_UPI00042220C6 | KLLSKDKI DAII VERTRKGGGEII VNLLGNGSAYYAPA |
| JURIKE90 LISHIY2 JIRIKE90 RYFIV4 JIRIKE90 RISPAS JIRIKE90 LISHIY2 JIRIKE90 RISPAS JIRIKE90 LISHIY2 JIRIKE90 LISHIY2 JIRIKE90 LISHIY2 JIRIKE90 LISHIY2 JIRIKE90 LISHIY3 JIRI | UniRef90_UPI0003B72E94 | DLVEMGWIDAKREEI VQRTRDGGAEI VGLLKSGSAFYAPA |
| Jurikef90 (1910) Jurik | UniRef90_UPI000371B392 | DMI IKMWS I DEKMDQII VIDRI RKGGGEII VIGIL LIGNGSAFYAPA |
| Julike190 | UniRef90_R7FIV4 | DVMKDGHHPIKDLEKIHQDVVNAAYEI INKKKATYYGIGM |
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| Julike190 | UniRef90_Q8PVJ7 | ELLP EKTIDRL VERTVNGGAEI VELLKQGSAFYAPS |
| JAIR690 | UniRef90_A5D2J2 | KLIP ADRILEAI VERTRNGGAEI VNFLKTGSAYYAPS |
| JAIR690 | UniRef90_I0JR33 | EL MERHEDYHMEDLDIFTNVRDAAYHI IEKKGATYYGIAM |
| Dinker D | UniRef90_D5AAB2 | - CII |
| Dinker D | UniRef90_P80039 | DLISAERUA ELVERTRIGGAEI VNHLKQGSAFYAPA |
| Dinker D | | DIL I D M G W T T Q E K D A MIV Q R T R D G G A E I V G L L K T G S A F Y A P A FIL V S V G I I T K D K D S I I I F R T R S G G A F I V A I I I K T G S A Y Y T P A |
| JNIRef90_E8WVI7 JniRef90_W4PZ51 JniRef90_W4PZ51 JniRef90_H4X1A3 JniRef90_F9L6L9 DL I S K E R L A E I V A R T R K G G A E I V N L L G N G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L G N G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L K T G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L K T G S A Y Y A P A D L V K M G W T T Q E K D A M V E R T R K G G G E I V N L L K T G S A F Y A P A D G D W K G S P A C D F A E L N E E Q V K N A A Y E I I K R K G Y T S W A I G L D I K C W K D V H K Q E S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D G D M A T A D S D S E Q W K D V H K Q E S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D A Y K I I E A K G S T Y Y G I A M W V D S A Y E V I K L K G Y T S W A I G L D N R M M M M M M M M M M M M M M M M M M | UniRef90_UPI000370F4A7 | DLVKMGWTTQAKDAI VDRTRKGGGEI VNL LKTGSAFYAPA |
| JNIRef90_E8WVI7 JniRef90_W4PZ51 JniRef90_W4PZ51 JniRef90_H4X1A3 JniRef90_F9L6L9 DL I S K E R L A E I V A R T R K G G A E I V N L L G N G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L G N G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L K T G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L K T G S A Y Y A P A D L V K M G W T T Q E K D A M V E R T R K G G G E I V N L L K T G S A F Y A P A D G D W K G S P A C D F A E L N E E Q V K N A A Y E I I K R K G Y T S W A I G L D I K C W K D V H K Q E S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D G D M A T A D S D S E Q W K D V H K Q E S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D A Y K I I E A K G S T Y Y G I A M W V D S A Y E V I K L K G Y T S W A I G L D N R M M M M M M M M M M M M M M M M M M | UniRef90_G4R6B6 UniRef90_A2FFX9 | UMIVIK MGWMSKDKDEII I QRTRDGGAEII VIGLLIKTGSAFYAPA EVISSI I E E KYITHEEII PDYITSKRGWOII I NYRGITSSASSP <mark>O</mark> II |
| JNIRef90_E8WVI7 JniRef90_W4PZ51 JniRef90_W4PZ51 JniRef90_H4X1A3 JniRef90_F9L6L9 DL I S K E R L A E I V A R T R K G G A E I V N L L G N G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L G N G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L K T G S A Y Y A P A D L I A E D V L D R I V N R T R K G G A E I V N L L K T G S A Y Y A P A D L V K M G W T T Q E K D A M V E R T R K G G G E I V N L L K T G S A F Y A P A D G D W K G S P A C D F A E L N E E Q V K N A A Y E I I K R K G Y T S W A I G L D I K C W K D V H K Q E S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D G D M A T A D S D S E Q W K D V H K Q E S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D M V V D S A Y E V I K L K G Y T S W A I G L D E Y S Q G A S G I F T A E D K I Q I A Q K T A G A E I V N L L G N G S A Y Y A P A D A Y K I I E A K G S T Y Y G I A M W V D S A Y E V I K L K G Y T S W A I G L D N R M M M M M M M M M M M M M M M M M M | UniRef90_G5IDH7 | EL CREMNDKVCQARLIEEEVRGAAYKI JEAKKATYYGIGM |
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| Jniref90_14X1A3 Jniref90_F916L9 Jniref90_B8IJB4 Jniref90_A0YLW3 Jniref90_F6W081 Jniref90_UP10001E2E7B0 Jniref90_UP10004235D2F Jniref90_UP10004235D2F Jniref90_UP10004235D2F Jniref90_A7LBQ0 Jniref90_A7LBQ0 Jniref90_A7LBQ0 Jniref90_B8IJB6 Jniref90_UP1000368B5EC Jniref90_UP1000368B5EC Jniref90_UP2USN6 Jniref90_UP2USN6 Jniref90_UP2USN6 Jniref90_UP2USN6 Jniref90_Q2PRG3 JNIREFQ0_Q2PRG3 | UniRef90_W4PZ51 | ŢŸVDEENHUNMNEEKI FŢNVRDAAYHI TERKGAŢŸŸĠŪAM |
| JniRef90_B8JJB4 | UniRef90_I4X1A3 UniRef90_F9I 6I 9 | TILTISKERILIA EII VIARTRKGGAEII VINILLIGNGSAYYAPA |
| JniRef90_UP10001E2E7B0 JniRef90_UP10004235D2F JniRef90_M4TAD7 JniRef90_A7LBQ0 JniRef90_UP1000368B5EC JniRef90_UP1000368B5EC JniRef90_UP1000368B5EC JniRef90_UP2USN6 JNIREfP0_UP2USN6 JNIREfP0_UP2 | UniRef90_B8IJB4 | DIL VIK M G W T T Q E K D A MIVIE R T R K G G G E II VINIL L IK T G S A F Y A P A |
| JniRef90_UP10004235D2F | UniRef90_A0YLW3 UniRef90_F6W081 | DGDWKGSPA <mark>C</mark> DFAFIINFFOIVIKNAAYFILIKRKGYTSYAIIGII |
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| Jniref90_A/LBQ0 Jniref90_UP1000368B5EC Jniref90_UP1000368B5EC D Y A A H D H T E N L D D K M I E V Q V R D A A Y K I L E A K G S T Y Y G L A M D H T E N L D D K M I E V Q V R D A A Y K I L E A K G S T Y Y G L A M D L V K N S A Y E V I K L K G S T Y Y G L A M V G G A T L T K L L G T S A W Y A P G D F C E M R G F Y Q H E E S M R K E D V K N S A Y E I L A K K H A T Y Y G L A M D L L S K E A L D K V V A D T M V G G A T L T G L L G T S A W Y A P G D L V K D S A Y E I L R K G V T S Y G V A L D T M V G G A T L T G L L G T S A W Y A P G D L V K L W T T Q E R L D A I V E R T R K G G E I V N L L K T G S A F Y A P A D A I V E R T K N G G L I V N H L K T G S A F Y A P A D A I V E R T K N G G L I V | UniRef90_M4TAD7 | VTERVSDDDDWLHGEFILTTVQKRGAAVI AARKFSSAVSAAK |
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| JNIRE190_QZRHG3 | UniRef90_G8TP96 | K FLSE E Q Q K Q VA D T MV G G A T L T K L I G T S A WY A P G |
| JNIRE190_QZRHG3 | UniRef90_U2USN6 UniRef90_F8WZT9 | DFCEMRGFYQHEESMRKEDVKNSAYEII JAKKHATYYGIIAM DI ISKEAIDKVVADTM |
| JniRef90_B8EM38 | UniRef90_Q2RHG3 | FEYILIMD GMREEEAERIVIEII IQIVIREAAYEILLIERK GIVILS Y GIVIAILL |
| JniRef90_K9T4E5 ELMD EKTLERLVERTRHGGAEVVKLLQTGGAYYAPA | UniRef90_B8EM38 | DIL VIKLIWTT QERILDAII VIERTRKGGGEII VNLLIKTGSAFYAPA |
| | UniRef90_K9T4E5 | ELMD EKTLERLVERTRHGGAEVVKLLQTGGAYYAPA |

| | 250 260 270 280 |
|--|--|
| UniRef90_A4I421 | A A V D H V H D W T H G T P E G V V S M G V Y S D G N Y D V P S G L T F S F P C A L A E S A R S L F I P K E G E W F S V G I C S D N P Y G I P E D L L F G F P C |
| UniRef90_S7J325 UniRef90_H5U2I9 | A A I I D H I V IR D WIV I IG T P D D W T S A A I V IS S P G A Y G I V IP F G I I M C S F P I V I |
| UniRef90_F7HA15 UniRef90_H3AJ84 | SVADLTESI VKDLSRVHPVSTMLKGLYGI DEEVFLSIPC SVADLTESI VKDLSRVHPVSTMLKGLYGI ENQVYLSLPC |
| UniRef90_UPI000363E9C2 | A I D T V I A C E K P T D S G D C F S A A I A S D G A Y D V P E G I I C G Y P I A A I S H V R D L V H G T A N G W T S A A V L S H G E Y G V P A G L Y S S A P V |
| UniRef90_A0A011U5M8 UniRef90_UPI0003336907 | SVTNIAIS I IKNIBRVHPVSTVVKGIVGI KEDI EISVPC |
| UniRef90_A2FYF4 UniRef90_UPI0002E014C8 | A A I Q H M K A WL F G T P G E V L S M G V P E D N P Y G I K P G V V F S F P C A T V D H A R D L F R G T P E D W T S M A V V S D G S Y G V P E G L V S S F P V A A C D H V H D W F V G T K Q D W V S M A V P S D G S Y D I P A G L V F S F P V S V M D L T G S L L K N L R K V H P V S T M V K G L Y G I K E E I F L S L P C |
| UniRef90_U1NT98 | A A C D HVH D WFVGTKQD WVS MAVPS DGSYDIPAGL VFSFPV |
| UniRef90_H0XWQ6 UniRef90_C5LWK5 | |
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| UniRef90_G0HII5 | A A VE HMR D WINGTEREWTS MA VPSTGWYGVPDGIVFGVPV SLADALK SLVTPTPEDWFSSGVYTNGNYGLAEDL WFSMPC |
| UniRef90_B9T307 UniRef90_F6DVB1 | S |
| UniRef90_M1VIR0 | A I G D H L R D W M F Q T E N E I V S M I V P S D G S Y G I D K G L M F A F P V C V A D L T L S I M R N I K K V H P V S T L I K G F Y G I K E E L F L S L P C |
| UniRef90_UPI0000F2D5FF UniRef90_K9GX13 | A S A L E M A E A Y L K D K K R L L P C A A W C D G V Y G L D G F Y V G V P C |
| UniRef90_Q9GPV4 UniRef90_UPI0002C3D08B | CVADLTLS MRNIK KVHPVSTLIKGFYGIKEELFLSLPCASALEMAEAYLKDKKRLLPCAAWCDGVYGLDGFYVGVPCAALCQMRDWWCTPADDWVSMAVPENEPYGIKKGVVYSFPVALVDHFRDWTLTDKEKIVCMGLYSEGQYGIPKGIFFSMPVTCKSLCNAILNNLHTVYPLSTNAQGIHGISEDVCLSLPCSVTDLARS LKNLKRVHPVTTLVKGFHGIKEEVFLSIPC |
| UniRef90_H2KV11 | TCKSLC NALLNNLHTVYPLSTNAQGIHGISEDVCLSLPC SVTDLARS LLKNLKRVHPVTTLVKGFHGIKEEVFLSIPC |
| UniRef90_P00342 UniRef90_K2MP53 | A S A I A M A E S Y L K D Q K R V M P V A A Y L S G E Y G V D G L Y V G V P V A V R R I V E A L I R D E D S I L T V S S L L T G Q F S L E N L Y M G V P T |
| UniRef90_A0A037Z0V8 UniRef90_I9M5E5 | A |
| UniRef90_UPI000428FE0E UniRef90_A7NG29 | A A L VOMVE A VI K D K K D V L D A L A VI D G E V G V S D M V L G V D A |
| UniRef90_Q81K80 | SLLRVTKA I LNNENSVLTVSAYLEGQYGEKDAY VGVPA |
| UniRef90_D6YWT7 UniRef90_P00345 | A A TVQ MVE A I L R D K K R V L P C A C Y L E G E Y G L N D L Y F G V P C S L L R V T K A I L N N E N S V L T V S A Y L E G Q Y G E K D A Y V G V P A A V V D A I R S L I P T P E E W F S G V C T D G N Y G I E D N L I F S F P C G L V R I T K A I L D D E N S I L T V S A L L E G Q Y G I S D V Y I G V P A C T T R I V K A I L N D E N C V L P V S A Y L N G Q Y G I K D I F T G V P A C T T R I V K A I L N D E N C V L P V S A Y L N G Q Y G I K D I F T G V P A C T T R I V K A I L N D E N C V L P V S A Y L N G Q Y G I K D I F T G V P A C T T R I V K A I L N D E N C V L P V S A Y L N G Q Y G I K D I F T G V P A C T T R I V K A I L N D E N C V L P V S A Y L N G Q Y G I K D I F T G V P A C T T R I V K A I L N D E N C V L P V S A Y L N G Q Y G I K D I F T G V P A C T T R I V K A I L N D E N C V L P V S A Y L N G Q Y G I S D V Y L R G V Y R G |
| UniRef90_D4W2Z4 | CTTRIVKA I LNDEN <mark>C</mark> VLPVSAYLNGQYGI KDIFTGVPA AVADHVCALHGGTREETVSMGVYTNGNYQVADGLFFSFPV |
| UniRef90_A9VCK2 UniRef90_G3S0B2 | AIVIA D 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| UniRef90_UPI000479CAD3 UniRef90_UPI0001E892AC | S V A D L A E S T M K N L R Q V H P V F T M I K G L Y G I N D D V F L R V P C A V R R I V E C I L R D E N S I L T V S S L I K G Q Y G L D D I C L S L P S G L V R L T K A I L Q N E N S I L T V S A Y L D G E Y D S K D L Y I G V P A |
| UniRef90_M1ZLT6 | ASLVEMAEAVLKDKRRI LP <u>IVI</u> YLEGEYG <u>Y</u> H <u>DIL</u> FLGVPV |
| UniRef90_UPI000361DDDE UniRef90_F7PG43 | |
| UniRef90_W0JHH6 UniRef90 Q2W064 | A T T E I VE S I I R D E N S I L T V S T L L D G Q Y G L E D V Y L S L P A S A I V Q M I D S I V R D K K D V L P C A V K T Q G K Y G L E K D L F V G L P V A S G V A M A E A F L K D K K R V L P V A T L V K G T Y G Q P D D V F V G V P V M I S T L C N A I L K N Q K V I Y S L S T L A K G Y H G I E E E V F L S L P C G L A R V T R A I L H N E N A I L T V S A Y L D G L Y G E R D V Y I G V P A |
| UniRef90_T1EG84 UniRef90_P00344 | MÍSTL <mark>C</mark> NAILKNQKVI YSLSTLAKGYHGIEEEVFLSLP <mark>C</mark> GLARVTRA I LHNENAILTVSAYLDGLYG ERDVYI GVPA |
| UniRef90_W4QDI0 | A S |
| UniRef90_A2DUI4 UniRef90_U6HNF1 | CCANLICAA ILLIS DRNIV VI PIVIT TNIVA GILIY GILIE E DIVIFLIS MPC |
| UniRef90_F0ZJ23 UniRef90_UPI00033153F6 | AT VGHMRDWLLGTRDEVVSMAVYSDGSYNIPKGLTESFPV SLADLAES I LRNLRRVHPLSTRVKGLYGLSKDVFLSIPC |
| UniRef90_UPI00042220C6 | A SLA QMA E A L L K D K R R L L P A L A Y L E G E Y G Y Q D L F L G V P T |
| UniRef90_R5V0K8 UniRef90_UPI0003B72E94 | S VS Q TAEA L L R D T K M I L T VS T L Q D G S R Y G V K D V C L S L P C S S A I E M A E S Y L K D K K R I L P C A A Y L D G E Y G V D G M Y V G V P V |
| UniRef90_UPI000371B392 UniRef90_L8HIY2 | ESALAMAKSYLRDKKRLLP <mark>C</mark> AAHLTGQFGVNDMY VGVPV AVVGHVHDWLVGTPQEWVSMGVYSDGSYGLPPGVLYSFPL |
| UniRef90_R7FIV4 | SIADLAES I LRNLRRVHPISTRVKGLYGISKDVFLSIPC SLAQMAEAI LKDKRRLLPAIAYLEGEYGY QDLFLGVPT SVSQIAEA I LRDTKMILTVSTLQDGSRYGVKDVCLSLPC SSAIEMAESYLKDKKRILPCAAYLDGEYGVDGMY VGVPV ESAIAMAKSYLRDKKRILPCAAHLTGQFGVNDMY VGVPV AVVGHVHDWLVGTPQEWVSMGVYSDGSYGIPPGVIYSFPL ALSKIVKSVLDNDNSILTVSTYLKDGEYG QDDIFIGVPA ALDRICAAAI LSDEHAVLNVSTRLMDYHGISNLYM GVPC |
| UniRef90_UPI00041D10FF UniRef90_R6IP68 | ALDRICAA ILSDEHAVLNVSTRLMDYHGLSNLYM GVPC VLARLTRA ILFDENSIFTVSAYLKGEYG QRGIYLGVPA |
| UniRef90_Q8PVJ7 UniRef90_A5D2J2 | A A V R M A E A V K D S R R V P A S A Y L E G Q Y G Q K G Y F G V P V A S A V Q M A E A V L K D K K R L P V A A Y L N G E Y G A K D Y T _ G V C |
| UniRef90_UPI000289CA07 | A ALFOMA E ALLKOKRRVLPALA YLDGEYGYNDIY LGVPV |
| UniRef90_I0JR33 UniRef90_D5AAB2 | GLTRISKA I LNNENSVLTVSAHLNGEYNAEDVY I GVPA SAASLVKSI VR NQKRI HPVSVLAKGFHGI EDDVFLSLPA SAVCYMVEVLLQDQAHLLPASVYLQGQYGL TDLFLGVPC |
| UniRef90_UPI000426689E UniRef90_P80039 | S A V C Y M V E V L |
| UniRef90_A3XCN3 UniRef90_Q2GCH6 | T S V V E M V E S I V I D R K R V L T C A V S L D G Q Y G I D G T F V G V P V A S A I E M A E A Y L K D Q K R V L P C A A Y C D G D L G V N D M Y V G V P T A S V L E M A E A Y L L D Q K K T L V C S V M M R G R Y G V E D D I F S G I P V |
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| UniRef90_G5IDH7 UniRef90_L8HFT9 | A MTRITRA I LGDENSVLTVS AMLKGEYG QTDV Y A GVPC A A I E H M R D W V K G T N G Q W T S M G V W K V G D Y G T S P D I Y Y S F P V |
| UniRef90_E8WVI7 | A A I E H M R D W V K G T N G Q W T S M G W W K V G D Y G T S P D I Y Y S F P V A A A V E M V E A I L K D K K K I L P C A A Y L T G E Y G I N G L Y V G V P C |
| UniRef90_W4PZ51 UniRef90_I4X1A3 | GLVRLTKA I LRNENSVLTISTLLKGQYGLDDVY I GVPA ASI VEMAEAI I KDQRRI LPSIAYLEGEYGLDGIY LGVPT |
| UniRef90_F9L6L9 UniRef90_B8IJB4 | TAIYEMIEAILKDQKRLLPSIAYLEGEYGFSDI <mark>C</mark> LGVPT ASALAMAESYLKDKKRVLP <mark>C</mark> AAYLTGQYGVDG LELGVPI |
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| UniRef90_M4TAD7 | AIC |
| UniRef90_UPI000368B5EC | GLTRISRA I LQNQDVI LTVSALLEGEFGHENTY I GVPA |
| UniRef90_G8TP96 UniRef90_U2USN6 | AAGAALVESI VRDQKKLFT <mark>CCVSL</mark> NGEYG QKDI <mark>C</mark> LGVPV SVRRICEAIIR DEKSI LPVSSI QHGEYGIEG VSLSMPA |
| UniRef90_F8WZT9 | SVRRICEALIR DEKSILPVSSIQHGEYGLEG VSLSMPA AAGAYVVEALLHDQKKVVTCCVSLEGEYG QNDICIGVPV |
| UniRef90_Q2RHG3 UniRef90_B8EM38 | ALSRII ECILRNEHSVLTISSVIRDLYGIDGEVALSLPC ASAIAMAEAYLKDKRRVLPCAAQLSGQYGVDNLY VGVPV |
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| UniRef90_ | W4QDI0 A2DUI4 U6HNF1 F0ZJ23 UPI00033153F6 UPI00042220C6 R5V0K8 UPI000371B392 L8HIY2 R7FIV4 UPI00041D10FF R6IP68 Q8PVJ7 A5D2J2 UPI000289CA07 I0JR33 D5AAB2 UPI000426689E P80039 A3XCN3 Q2GCH6 UPI000370F4A7 G4R6B6 A2EFX9 G5IDH7 L8HFT9 E8WVI7 W4PZ51 I4X1A3 F9L6L9 B8IJB4 A0YLW3 F6W081 | E P S L N P L A A K R |
| UniRef90_ | W4QDIO A2DUI4 L06HNF1 FOZJ23 LUPI00033153F6 UPI00042220C6 R5V0K8 LUPI0003B72E94 UPI0003B72E94 LUPI0003T1B392 L8HIY2 R7FIV4 LUPI00041D10FF R6IP68 Q8PVJ7 A5D2J2 LUPI000289CA07 I0JR33 D5AAB2 UPI000426689E P80039 A3XCN3 Q2GCH6 LUPI000370F4A7 G4R6B6 LUPI000370F4A7 G4R6B6 LOPI000370F4A7 L8HFT9 E8WVI7 L9H0001E2E7B0 | E P S N P A K R C |
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| UniRef90_ | W4QDIO A2DUI4 L06HNF1 FOZJ23 LUPI00033153F6 UPI00042220C6 R5V0K8 LUPI0003B72E94 UPI0003B72E94 LUPI0003T1B392 L8HIY2 R7FIV4 LUPI00041D10FF R6IP68 Q8PVJ7 A5D2J2 LUPI000289CA07 I0JR33 D5AAB2 UPI000426689E P80039 A3XCN3 Q2GCH6 LUPI000370F4A7 G4R6B6 LUPI000370F4A7 G4R6B6 LOPI000370F4A7 L8HFT9 E8WVI7 L9H0001E2E7B0 | E P S N P A K R C |
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| UniRef90_ | W4QDIO A2DUI4 U6HNF1 FOZJ23 UPI00033153F6 UPI00042220C6 R5V0K8 UPI0003B72E94 UPI000371B392 L8HIY2 R7FIV4 UPI00041D10FF R6IP68 Q8PVJ7 A5D2J2 UPI000289CA07 I0JR33 D5AAB2 UPI000426689E P80039 A3XCN3 Q2GCH6 UPI000370F4A7 G4R6B6 A2EFX9 G5IDH7 L8HFT9 E8WVI7 W4PZ51 I4X1A3 F9L6L9 B8IJB4 A0YLW3 F9U001E2E7B0 UPI0001E2E7B0 UPI0004235D2F Q9PVK5 M4TAD7 A7LBQ0 UPI000368B5EC G8TP96 U2USN6 | E P S L N P L A K R C |
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| UniRef90_ | W4QDIO A2DUI4 L06HNF1 FOZJ23 UPI00033153F6 UPI00042220C6 R5V0K8 UPI0003B72E94 UPI0003B72E94 UPI0003T1B392 L8HIY2 R7FIV4 UPI00041D10FF R6IP68 Q8PVJ7 A5D2J2 UPI000289CA07 I0JR33 D5AAB2 UPI000426689E P80039 A3XCN3 Q2GCH6 UPI000370F4A7 G4R6B6 A2EFX9 G5IDH7 L8HFT9 E8WVI7 W4PZ51 I4X1A3 F9L6L9 B8JB4 A0YLW3 F6W081 UPI0004235D2F Q9PVK5 M4TAD7 A7LBQ0 UPI000368B5EC G8TP96 U2USN6 F8WZT9 | E P S L N P L A K R C L A |



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| UniRef90 A6CLY3 | 50 60 70 80 D M N K E K A E G D A R D L N H G L P F S S P M K I W A G D Y I D C R D A D L |
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| UniRef90_Q0TUX8 | DII IN K D K A <mark>H</mark> A F A M DII IA Q G |
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| UniRef90_F4XXE6 | DIL VIP GMP O GILIAILIDIL LIE A R GILIE G H D COIL LIGT D Y A D T A G S DIV |
| UniRef90_UPI00047E65A2 | D <u> </u> |
| UniRef90_UPI00031D07F6 UniRef90_UPI000288388F | DIVINKAKTEGEAMDII ISHG ADEIVIKPIVINII LISGEYKDTKDSDII |
| UniRef90_T1AS32 | D V DG <u> P</u> QGKA <u> D </u> QESA <u>P </u> |
| UniRef90_H3AQL4 UniRef90_Q6G1M0 | D V E D K K G E M M D L Q H G S L F L R T P K V S G K D Y S V T A N S R L D A E S S P V D G F D V S L T G A N S Y D V E A D V |
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| UniRef90_UPI0003C84111 | DI AVDKLKGETMDL QHGSLFFHTSKLVSGKDYSVSANSKL |
| UniRef90_T0LI72 UniRef90_P22988 | DAILIPDKII IR GEAILIDILIOHAAAEILIPRIVIRILIS GIDAAIVILKNSDIL |
| UniRef90_G9YP16 | DANRDKAEGEAMD L SHG L PFTHPMD I RAGDYDD V AD <mark>C</mark> A L |
| UniRef90_N0B400 UniRef90_F6l382 | DLNKEKSEGDAMDLNHGLPFAPSATKI WFGDYAD <mark>C</mark> KDADI DVNPDKLRGEMLDLQHAAAFLPRT <u>KI</u> LASVDYSVTAGSDL |
| UniRef90_U2DVD6 | D I D |
| UniRef90_A9EZV5 UniRef90_Q3MDN9 | D |
| UniRef90_R7EXD5 | |
| UniRef90_V4GU78 UniRef90_H3DEZ9 | DRNVHKAEĞEAMDLMHAVP LVRPTRIYAĞDYKDSQGAAII DVMEDKLKGEMMDLQHGSLFLKTPKIVADKDYSVTANSRV |
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| UniRef90_F6YK35 | DVMEDKLKGDMTDLQHGSLFLRTPKI ISGKDHNVTANSKL DIPQLENPTKGKALDLLEASPVQGFDSQITNYEDAADSDI DVKPGLSEGKALDMMQTHLKFETRITGVTNDYEATSNSDV |
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| UniRef90_UPI0003457D10 | DI A E E KILA G E VIM D F S H G M P F IL A P I DILIK A G I VIA DIVIG Q N A DII |
| UniRef90_I0IPH8 UniRef90_A2E124 | EILIS PAMKAILIEAW VIMEILIH DOOTE PHILLIHW LIGTS DILIEEAER DIVI |
| UniRef90_X5HMV3 | D V N G D T A K G K A L D I S Q S L P I I G R T M K I S G S S K M E L Q G S S V D I N K K R A E G E A M D L N H G L A F S A S N M K I Y A G E Y K D T S D A D I I |
| UniRef90_R5TX92 UniRef90_H3NCR0 | DIL ID P F KIVIE G DIVIM DIL IN S A IL IA F T A P K DII IYIVIA D Y S D C A D A DIL |
| UniRef90_E0R9S2 | DIVINIVIK KAKGEMILIDMNHGLIPFILIGGIVIKIVIW_AGDYEDCRDADII |
| UniRef90_H1Z595 UniRef90_R6QQ96 | DII IN K E R T II IG E A M DIL IN H GIL IA F A P S A M K II IY A G E Y S D C S D A D II |
| UniRef90_N9Y5K7 | DII IN M D K A M G E IV IM DIL V IH G T S F IV IK PIV IN IV IY A G S IL IE E T K D S DII |
| UniRef90_V5XPB8 UniRef90_G2IIR6 | DVNQEKAEGEALDLLDGMAWGEKNVSVWSGTYEE <mark>C</mark> QDANL DVVEGVPQGKALDLSQ <mark>C</mark> GPVEGFDAKITGSDYADIAGADV |
| UniRef90_X5DQK7 | DVDERKT WGHVQDLNHAVPWSGHGTRVTQGDYSD <mark>C</mark> ADASL |
| UniRef90_Q9GSY5 UniRef90_R5XUT7 | DIV LIKEKAIVIGEAMDILIAHGII IP <mark>C</mark> APARII IDII IKAGDYDE <mark>C</mark> KDADII |
| UniRef90_C7M7P0 | DI KEGFAEGKAMDL MQTASGFDTRI VGVTNDYSKTAGSDV |
| UniRef90_E5WGV7 UniRef90_UPI0004792E2D | DI KEGFAEGKAMDL MQTASGFDTRIVGVTNDYSKTAGSDVDVNEEKAKGDVMDLNHGIAYAPTAMTIRYGSYKDCKDAAL DANHSKAAGDVMDLNHGIPFLGTTKLWAGT YEDCKDAAL DANHSKAAGDALDINHGIPFLGTTKLWAGT YEDCKDAAL DI KEGVSEGKALDIWQKAPINQYDSRTIGSDYTKTANSDV EIPQALPALSGVAMELTDCAFPLLRDLRLTDQANEAFDGA DIPQLENPTKGKDMLEAGPVLKFDARITGTSSYDAEDSDI DIVENLPQGKTLDISEASKTDHFDVSVTGTDYKDIEGAGV DINEDKAYGDAMDLSDALSFSKPKSVVADKDYAVTANSRL DIVKGVPQGKALDLAQSSSVELFDVNIEGSNNYSLKNSDV DVNQEKLQGEVMDLLHGVPFIDPTGLRSGT LADSDDPDI DIKEGFAEGKAIDMMQALLGFDTKIKGVTNDYASTADSNV DVNQEKLQGEVMDLLHGVPFIDPTGLRSGT LADSDDPDI DIKEGFAEGKAIDMMQALLGFDTKIKGVTNDYASTADSNV DVNQEKLQGEVMDLLHGVPFIDPTGLRSGT LADSDDPDI DIKEGFAEGKAIDMMQALLGFDTKIKGVTNDYASTADSNV DVNQEKLQGEVMDLLHGVPFIDPTGLRSGT LADSDDPDI DIKEGFAEGKAIDMMQALLGFDTKIKGVTNDYASTADSNV DVNQEKLQGEVMDLLHGVPFIDPTGLRSGT LADSDVDVDVAEGIPQGKALDIMQALLGFDTKIKGVTNDYASTADSNV |
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| UniRef90_A3HXB3 UniRef90_T0YIB6 | EI PQALPALS GVAMELT DCAFPLLR DLRLT DQANEAFDGA |
| UniRef90_UPI0004701336 | DI PQLENPTKGKDMLEAGPVLKFDARITGTSSYDAEDSDI |
| UniRef90_V2QGH6 UniRef90_C7RHY1 | DI NEDKAYGDAMDLSDALSFSKPKSIIYKA DYKDCKDAEV |
| UniRef90_P20373 | DIVINE DRUK GEMMDL QHGL LFLKTSKVVA DKDY AVTANSRL |
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| UniRef90_R9GXX6 UniRef90_Q7NHJ3 | DILKEGFAEGKALDMMQALLGFDTKILKGVTNDYASTADSNV |
| UniRef90_A8GWI0 | DVAEGOPQGKALDIMQANTLAGSDIKIKGTDYKDIEGSDA |
| UniRef90_G0SC13 | D N V E V N D V M D N |
| UniRef90_J8T5M1 UniRef90_P16115 | DVDKKRAEGDALDLIHG TPFTRRANI YAGDYADLKGSDV |
| UniRef90_V9HD54 | D V D K K R A E G D A L D L I H G T P F T R R A N I Y A G D Y A D L K G S D V D I N Q E K A L G E V L D L M H G S S L N S P C N V T L G A L E D T K D S D I D I K D G M P Q G K A L D M R E S S P I H G F D T R V T G T N D Y G T E D S D V D V C A D K L Q G E L M D L Q H G S N F L K N P Q T A S T D F A A S A N S R L D V F G G V A A G K A L D I M Q S G P V D G F D A M M T G G D Y A A L K G A D V D I D E K R L K G N V M D L N H G A V W A G G S T T V T V G S Y E D C A D A D L D I P D M E G P T K G K A L D M L E S T P V Q G V D S V I S N Y E D T K D S D V D I P D M E G P T K G K A L D M L E S T P V Q G V D S V I S N Y E D T K D S D V D V V Q D L P Q G K C L D L Y Q L T P I S G V D V R F E G S N D Y S V K D A D L D L D T G K S E G D A L D L S D G L A F T S P K K I Y A A T Y A D C K D A D L D L V E G L P Q G K A L D M Y E S G P I G L F D S K I Y G T D Y Q D T A D S D I D T P E N Q E A L Q G V A Y E I E D C A W P L F R G V H L T S D P A V A F K D V D V N R D K A E G E V M D L N H G I L F V P P V Q I T T Y T S D P A V A F K D V D V N R D K A E G E V M D L N H G I L F V P P V Q I T T T T T T T T T T T T T T T T T T |
| UniRef90_Q2S289 UniRef90_Q95028 | DVCADKLQGELMDLQHGSNFLKNPQLTASTDFAASANSRL |
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| UniRef90_C2GE97 UniRef90_W7ZL02 | DI PDMEGPTKGKALDMLESTPVQGVDSVISNYEDIKDSDV |
| UniRef90_UPI0002E13971 | DI TPKMPQALALDI MEARALENHTRRIIGTDYADIFGSEI |
| UniRef90_A7U552 UniRef90_A1ARG4 | DIV VEGLPQGKTLDI SEAAPIVDNFDIVCLKGANYEEII AGSNIV |
| UniRef90_K8E2C2 | DLDTGKSEGDALDLSDG LAFTSPKKI YAATYADCKDADL |
| UniRef90_B4S9F1 UniRef90_A7RRY2 | DTPENQEALQGVAYEITED CAWPLIFR GVHITTS DPAVAFK DV |
| UniRef90_F3ZYV6 | DVNRDKAEGEVMDLNHGLLFVP PVQI RTGDYSDCKDARL |
| UniRef90_D8PJ09 UniRef90_D7WSG0 | DLPDFENAAKGKALDI LQTGPI ERFNVQVTAYEEI AHADI |
| UniRef90_K9F412 | DI VEGRPQGLALDMAEARPLEGYSYSITGTDYPDTANSQV |
| UniRef90_R9GY43 UniRef90_R6NDY6 | DIDQQRAQGEAMDLNHGLIFFLIGQSKVWAGI YEDCKDADI |
| UniRef90_L7WTG8 | DLAKDKVNA DVQDLNHGALHSDSPVVVKAGEYSDCKDADL |
| UniRef90_UPI00042AF04A UniRef90_UPI000379CB01 | SKNPA PILPSIHILIURRFSAFLUPPQRAPAGARQVVI |
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| JURISHOU STANDAY OF THE STANDAY OF T | UniRef90_A6CLY3 | 90 100 110 120 VVIJTAGAPGETRIJDI VIDKNIJNI JEKSI VINEVIMKSGEDGIJELI |
| Junkengo Johnson Junkengo | UniRef90_K1VR37 | V V I T A G R P R M N R N D L I E T N A P I V A R A V T N V I A S S P N A V I |
| JIRREPO DE JOUGNESSE STATE DE LO JAN NEW JE FOR SELVE FO | UniRef90_A0A033UL77 | VVI CAGAPGET RUDL VAKNMKI FKSI VITEI MDSGFDGL FL |
| Junkedou Deloudzestata VIIITA & GUNERO SER DEL VERLIN OF SEVING SIVE ET VERLOR JUNKEDOU DELOUDZESSASSE VIITA & GENERO SER DEL VERLOR JUNKEDOU DELOUZZESSASSE VIITA & GENERO SER DELOU NO SEVEN VERLOR JUNKEDOU DELOUZZESSASSE VIITA & GENERO SER DELOU NO SEVEN VERLOR JUNKEDOU DELOUZZESSASSE VIITA & GENERO SER DELOUZZESSASSE | | VI I A GWG P C M S R D D L V Q I N E E I MIVE V I Q R V V R Y S P N S I I |
| Junkelson 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | UniRef90 UPI000287B187 | VI ITAGVPGMSRDDEVRINGRVMQSVFEEVVKYSPD ATL |
| Junkelson 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | UniRef90_G6A0R4 | VIVTAGUPGMSRDDLVGINTKVMTQVGEGLKQNCPD AFV |
| June 200 Jun | | V V I IT A G S P R K S R D DIL L Q I IN S K II V V E A A K N A S A K S P D A MIL I I |
| JARREND JP100029839899 V V L T A G A P G E T R IL Q L V N K N IN IN IF K S L S E V V K Y N K N A A L L JARREND JP10003786D30 V V V T A G A P G G E T R IL Q L V N K N IN IN IF K S L S E V V K Y N K N R A L L JARREND JP10003786D30 V V V T A G A P G G E R IN IN I V C R N V N IN I V K Y S P D I V J K Y A G A P G G E R IN IN I V K Y S P D I V J K Y A G A P G G E R IN I V C R N V N I V K A G V F G N S R D I V T Y A G A P G G E R IN I V C R N V N I V K A V K S S V T E S V V K K S P D I V V Y A G A P G G E R IN I V C R N V N I V K A V K S S V T E S V V K K S P D I V V Y A G A P G G E R IN I V K Y S V T E S V Y K S P D I V V Y A G A P G G E R IN I V K Y S V T E S V Y C S V Y C S V T E S V Y K S P D I V Y Y A G A P G G E R IN I V K Y S V T E S V Y C S V Y C S V T E S V Y C S V Y C S V T E S | | VIVITAGILPRRPGMIREEVINAGI VIKSV VIDNI LIQISPDAIIPVI VIVITAGILPRRPGMSRDDI NSSI ISEVISKOI KRYAPN SYV |
| JARRED JA | UniRef90_UPI000288388F | VVIITAGAPGETRILIQILVINKNII INII IFKSII I IPEIVVIKYNKD AII L |
| Jimpage Jimp | UniRef90_T1AS32 | V VIETAGK P G M S R S DIL LIAK N A A II V IK T H A E A IV IR A F A P R A T IV |
| JUNESSO JUNESS | | VIVITAGARQQERLINL VQRNIVINI FRFI TIPNI VRYSPN <mark>O</mark> VI L |
| JUNESSO JUNESS | UniRef90_UPI0003768D30 | VIITSGSPRKPGMTREQTNANIVGSVTESVVKHSPD <mark>C</mark> IIV |
| JUNESSO JUNESS | UniRef90_J9HTD7 | VIIITAGUPGMSRDDLVITTNAGIVKAVITEQVVQYSPNTVLV |
| JUNESSO JUNESS | | VMVT A G A R Q Q F RIL ALL V Q H NIV NIL MK SIL I P PIL A H R S P D C T MIL |
| Junkergo Celuloz V V V T A GA P G M S R D D L L H K N G E I ME D V T H N I R K F A P D S I L M N I R K F A P D S K M V V T A GA P G M S R D D S K M V V T A GA P G M S R D D S K M V V T A GA P G M S R D D S K M V V T A GA P G M S R D D S K M V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D S M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R D M V V V T A GA P G M S R | UniRef90_UPI0003B726E3 | VIIIAGKPGMSRDDLLIQIVINILIEIIVIKS <mark>C</mark> IEKIVIKEYAPN <mark>CC</mark> LII |
| Junkergo (70172 | | V V V T A G K P G M S R D D L L H K N G E II L R D V A H N II R K F A P D S II L I |
| Junkergo D-22988 VI V TA GA P GE TE RL IN LL QR N VIA LY R KI V P P V A E H S P D A L L JUNERGO GENERAL STATEMENT OF THE STA | | V V V T A G K P G M S R E DL I TIK N A E II TIS QIVIT E NII VIK Y A P D S MI V |
| June | UniRef90_P22988 | VIVITAGAPGETRII INIIII I ORNIVIAIII IYRKII VIPPIVIAEHSPD. AIII |
| JUNESSO FERSON VI T A G S M O E S R L IN L V Q R N M K L F S G M S C S P N G L V M T A G M S C S R D M S M S C D M S M S M S C D M S M S M S C D M S M S M S M S M S M S M S M S M S M | · · · · · · · · · · · · · · · · | VIVITAGAPGETRILIDIL VIHKNI <u>VI</u> AII IFRSII I IPEII IARR NRDAILL |
| Junkel90 | UniRef90_F6l382 | CIVITA GVRQESRLINL VIQRNVIKILIFS CI I PQILIA HSSPDSII L |
| Junkel90 | UniRef90_U2DVD6 | TVITAGANQKERLDLVHKNKKI MKGI LGELDKSG FNGI L |
| Junkel90 | | VVIITAGEPRKPGMSRDDIINAKII VVIEAAKOAII IAYSP <mark>C</mark> AII IEII I |
| Junkelgo Jungelgo Jun | UniRef90_R7EXD5 | <u>I</u> IITAGAPGESR <u>T</u> EL <u>V</u> HRNERIFASIVDSITAVI RASGIL |
| Junkelgo (JP6000379EB44 VI MT A G V P G MS R D.D.L V Q L N Q G M K N V A, SE A R T S P D A T L Junkelgo (JP6000379EB44 VI MT A G A P G E T R IL D L V E K N L K F K Q V I Q N ME S P P H G L L L L L L L L L | UniRef90_V4GU78 | TV VT A GRPGET REDLAQRNTDI FKQI I PEI VKY NPNGLI |
| Johrsenson, 1979(7835) Johnsenson, 1979(7835) Johnse | | V V V I A GIV R Q Q E KILINIL V IQ K NIVINI IF K HI V V P QII V R Y S P E C V II V I I T A GIV P G M S R D DII V OII N O GII MK A IV A S FII A R T S P D A T II |
| Johrsenson, 1979(7835) Johnsenson, 1979(7835) Johnse | UniRef90_R9C0T2 | V V L C A G A P G E T R L D L V E K N L K I F K S I V D Q V M E S G F H G F L I |
| Juriker90 W7YVS8 Jurike | UniRef90_UPI000379EB44 | VIMTAGAPGETRLDL VNRNVKI FKQVIGDIAKYCPH AVL |
| June | | VIIISGARQQEGENLIDQHNMNIFKFIIIPNVVKYSPN <mark>U</mark> KL VIIITAGKPGMSRDDIVNTNAGIIIKSV <mark>C</mark> ENVKKYAPESII V |
| June | UniRef90_U5Q298 | I VI T S GÎ P R K P G M T R E E L N A S I V N E V V T N S L K Y S P N A I I V |
| June | UniRef90_UPI0003457D10 | VIIITAGVAQRDRLSLVERNUSVYKSILHDVVKYCPDCI |
| June | | DIVELVIGSEPKKPVDYEORNASILYSEHGRALISDEAKPTVKV |
| June | UniRef90_X5HMV3 | ŢĬ VŢĀĠĨPŖĸŖĠ <u>MSŖĘĔ</u> ŴŊĄĹVMĸĔŴĠĔĸĨĸQŦĄŖĔ <u>Ā</u> ŦV |
| Junker90 Linker90 | UniRef90_R5TX92 | AVICAGUPGESRILNILLIKRNAAVIFKSI VDPVITESGFNGI FIL |
| JURIKEY9D_VSYSKPB JURIKEY9D_VSYSKP JURIKEY9D | | I I VITAGAPGETRI DIL I I KRNAEII FESI I DNI VIKV NTHGI L |
| JURIKEY9D_VSYSKPB JURIKEY9D_VSYSKP JURIKEY9D | UniRef90_H1Z595 | V V I T S G O P R K P G M T R E E L N T A I V K S V M E N A L T V S P N A I F V |
| Jurikefoy D.SDOKY A G.A. P. G.E. T.R.L. D.L. V. G.K. N.V. S.I. F. R.D. D.L. G.R. Y. A.K. R.T. V. K.V. Jurikefoy D.SDOKY | | V V I C A G V P G E S R L D L L N R N V A V F K T L V E P I V A V G F H G I F L I |
| Jurikefoy D.SDOKY A G.A. P. G.E. T.R.L. D.L. V. G.K. N.V. S.I. F. R.D. D.L. G.R. Y. A.K. R.T. V. K.V. Jurikefoy D.SDOKY | | VILITAGNIPAGATRIDILVIKTNATII TRQIVIKEVIMASGFDGII FV |
| JURIGE90 CTMTP0 JV I T A G A P G E T R L D L A K L N A N I M N D I L T S V V D S G F D G I F U J V J V J J N G I P G Q T R L D L A K L N A N I M N D I L T S V V D S G F D G I F U J V J V J J N G G P G S F R G I F G D L V N K N V K N V K V E S I M D S G F N G I F L J J L J A K A A A Q R E R T R L D L V N K N V K N V K S V V E S I M D S G F N G I F L J J N R N I V I V J N T D G I L J A A F I V I V S A R K D V K N V I S G F N G I F L J N R N I V I V S V J T E N A G I V K N Y T D G I L J A K I N A M I M N D S I L T T S G I M S R D D I V N K N V K N V I S V G F N G I F L V I K N A R K D V K N Y I V K N Y I S G F N R F R K D I V I K N A R K D V K N Y I S G F N R I S R I M N A M I M N D S I L T T S G I M S R D D I V N R N I M N S N V I K R Y S P N V I V I Y T S G V P R K P G M T R T D L I F T N A G I V K S V T T S N I M K S P D A I I I T N A G I V Y S V T T S G I P R K P G M T R D L I I T N A G I V K S V T T S N V I K R V Y R V N Y T N A G I V R V S V T T S G I P R K P G M S R D D L V N T N A G I V K S V T T S G I V R V I V T S G V P R K P G M S R D D L V N T N A G I V K S V T T S G I V R V V I T S G V P R K P G M S R D D L V R K N I N N V I K K Y S P N T T S G I V R V I V T S G V P R K P G M S R D D L V R K N I X S V S V T S N I K K H A P D A Y V I T S G V P R K P G M S R D D L V R K N I X S V S V T S N I K K H A P D A Y V I T S G V P R K P G M S R D D L V R K N I X S V S V T S N I K K Y S P N T T S G I V R V N I Y T S G V P R K P G M S R D D L V T S K N I X S V S V T S N I X T V S R T S T T S G V P R K P G M S R D D L V T S K N I X S V S V T S N I X T V S R T S T T T S G V P R K P G M S R D D L V T S K N I X S V T S S T T S T T T S G V T S G V P R K P G M S R D D L L T T N T R I V S V T S G V P R T T T S G V T S T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T T S G V T S T T T T T T T T T T T T T T T T | UniRef90_G2IIR6 | IIVITAGIVIPGMSRDDIIIIGII INII IKIVIMKAIVIGEGII IKANAPD AEIV |
| JURIGE90 CTMTP0 JV I T A G A P G E T R L D L A K L N A N I M N D I L T S V V D S G F D G I F U J V J V J J N G I P G Q T R L D L A K L N A N I M N D I L T S V V D S G F D G I F U J V J V J J N G G P G S F R G I F G D L V N K N V K N V K V E S I M D S G F N G I F L J J L J A K A A A Q R E R T R L D L V N K N V K N V K S V V E S I M D S G F N G I F L J J N R N I V I V J N T D G I L J A A F I V I V S A R K D V K N V I S G F N G I F L J N R N I V I V S V J T E N A G I V K N Y T D G I L J A K I N A M I M N D S I L T T S G I M S R D D I V N K N V K N V I S V G F N G I F L V I K N A R K D V K N Y I V K N Y I S G F N R F R K D I V I K N A R K D V K N Y I S G F N R I S R I M N A M I M N D S I L T T S G I M S R D D I V N R N I M N S N V I K R Y S P N V I V I Y T S G V P R K P G M T R T D L I F T N A G I V K S V T T S N I M K S P D A I I I T N A G I V Y S V T T S G I P R K P G M T R D L I I T N A G I V K S V T T S N V I K R V Y R V N Y T N A G I V R V S V T T S G I P R K P G M S R D D L V N T N A G I V K S V T T S G I V R V I V T S G V P R K P G M S R D D L V N T N A G I V K S V T T S G I V R V V I T S G V P R K P G M S R D D L V R K N I N N V I K K Y S P N T T S G I V R V I V T S G V P R K P G M S R D D L V R K N I X S V S V T S N I K K H A P D A Y V I T S G V P R K P G M S R D D L V R K N I X S V S V T S N I K K H A P D A Y V I T S G V P R K P G M S R D D L V R K N I X S V S V T S N I K K Y S P N T T S G I V R V N I Y T S G V P R K P G M S R D D L V T S K N I X S V S V T S N I X T V S R T S T T S G V P R K P G M S R D D L V T S K N I X S V S V T S N I X T V S R T S T T T S G V P R K P G M S R D D L V T S K N I X S V T S S T T S T T T S G V T S G V P R K P G M S R D D L L T T N T R I V S V T S G V P R T T T S G V T S T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T S G V T S T T T T T S G V T S T T T T T T T T T T T T T T T T | | VCICAGAPGEIRLDLVGKNVSIFQD <u>IV</u> SQVRDSGFDGIYL |
| JURIRE190_CESMOV7 JURIRE190_UP10004792E2D JURIRE190_UP10004792E2D JURIRE190_UP10004792E2D JURIRE190_UP10004701336 JURIRE190_UP10004701336 JURIRE190_UP10004701336 JURIRE190_UP10004701336 JURIRE190_UP10004701336 JURIRE190_UP10004701336 JURIRE190_UP10004701336 JURIRE190_UP10003790E5 J | UniRef90_R5XUT7 | VVIII AGKPGQI RILIDILIAKI NAKII IMKDII II KSIVVIDSGEDGII IFIVI |
| Jurikef90 | UniRef90_C7M7P0 | AIVIITSGII IPRKPGMTREEILINANII VIKSIVVIEQILVIKYSPN IVI V |
| JAIRE990_A3TGZ5 JAIRE990_T0V1B6 JAIRE990_T0V1B6 JAIRE990_T0V1B6 JAIRE990_T0V1B6 JAIRE990_T0V1B6 JAIRE990_T0V2QGH6 VI_T_S_G_K_P_G_MT_R_E_R_K_D_L_L_R_I_N_A E_I_F_K_S_Q_G_R_A L_N_E_R_AS_R_Q_V_R_V_ABIRE990_T0V2QGH6 VI_V_T_S_G_K_P_G_MT_S_R_D_D_L_N_S_G_I_F_K_S_Q_G_R_A L_N_E_R_AS_R_Q_V_R_V_ABIRE990_T0V2QGH6 VI_V_T_S_G_V_P_R_K_P_G_MS_R_D_D_L_N_S_G_I_K_T_V_ABIRE990_T0V2QGH6 VI_V_T_S_G_V_P_R_K_P_G_MS_R_D_D_L_N_S_G_I_K_T_V_ABIRE990_T0V2QGH6 VI_V_T_S_G_V_P_R_K_P_G_MS_R_D_D_L_N_S_G_I_K_T_V_ABIRE990_T0V2QGH6 VI_V_T_S_G_V_P_R_K_P_G_MS_R_D_D_L_N_S_G_I_K_T_V_ABIRE990_T0V2QG_P_R_K_P_G_MS_R_D_D_L_N_S_G_I_K_T_V_ABIRE990_T0V2QG_P_R_K_P_G_MS_R_D_D_L_N_S_G_I_K_K_L_I_D_D_I_V_Q_C_P_R_ABIRL_L_I_D_I_R_R_990_T0V2QG_P_R_K_P_G_MS_R_D_D_L_N_S_G_I_K_K_L_I_D_D_I_V_Q_C_P_R_ABIRL_L_I_D_I_R_990_T0V2QG_P_R_K_P_G_MS_R_D_D_L_L_R_N_V_Q_I_F_K_K_L_I_D_D_I_V_Q_C_P_R_ABIRL_L_I_D_I_R_990_T0V2QG_P_R_K_P_G_MS_R_D_D_L_L_R_N_V_Q_I_F_K_K_L_I_D_D_I_V_Q_C_P_R_ABIRL_L_I_D_I_R_990_T0V2QG_P_R_R_D_R_R_P_G_MS_R_D_D_L_L_R_N_R_V_Q_I_F_K_K_L_I_D_I_V_R_R_P_G_R_R_R_P_G_R_T_R_L_Q_L_V_R_N_R_N_R_I_F_K_G_L_V_N_R_R_P_G_G_R_T_R_L_Q_L_V_R_N_R_N_R_I_F_K_G_L_V_N_R_R_P_G_G_R_T_R_L_Q_L_V_R_N_R_N_R_I_F_K_G_L_V_N_R_R_P_D_S_IV_N_R_R_R_P_G_R_T_R_L_Q_L_V_R_N_R_N_R_R_R_R_R_R_R_R_R_R_R_R_R_R_R | | VVI <mark>C</mark> AGAAGRERTEILIKRNAMIMDSILITEIVVKY NTDGILI |
| Jurikef90 | UniRef90_B3TGZ5 | A A F L V G A M P R E R K D L L A A N V R I F K E Q G Q A L D K X A R K D V K V |
| UniRef90 | UniRef90_A3HXB3 | VVITSGKPGMTRDDLIETNAGIVKSVTENVIKHSPD ALI |
| Juirikef90_C7RHY1 | | VIITAGKPGMSRDDLVNTNAGIIVKSV <mark>C</mark> ENVKRVAPESIIV |
| Junikef90 | UniRef90_V2QGH6 | VIVTSGVPRKPGMSRDDLNSGIIKTVGENIKKHAPD AYV |
| JniRef90_R9GXC6 | | VVIITAGII PQKDRII IDII VIEKNII ISII IEKDMIVIGKIVVIESGEDGII IEII I |
| JniRef90_R9GXC6 | UniRef90_UPI00037950E5 | VIITAĞÜPŘMSRDDLĽĚTNŤKI DSĂI GKĂVKKYCPKAFLII |
| | UniRef90_K9TQZ1 | VIIITAGAPGETRILDILLNRNIVQIFKKIIPDIVQYCPHALL |
| | UniRef90_Q7NHJ3 | L V V A A G Q P G M S R D D L L L T N T R II V F E IV T Q K A IV IA H S P E A T IV |
| | UniRef90_A8GWI0 | I I I T A GKPGMSRDDL I SVNTGI MKSVAENVKKYAPN AFV |
| | | V V I I A GIV P G Q I K M D L V K I N Y A L P Q D I V P R I A K N A P D T I L V V C I C A G A P G E T R I O I V F K N I R I F K G I V N D IV M E S G E D G I I |
| Jniref90_V9HD54 | UniRef90_P16115 | VIVIA A GIVIE GIVE GEI NIEIGINIA NIVIIVIN EII IA NIVIO NI A E DOII I IV |
| Uniref90 | UniRef90_V9HD54 | IIIITAGIVIPGETRILIDILVIDKNYKII IFKSFIVIPTII IAKILISPN AIIL |
| Jniref90_UP100037A3125 | | CIL VIT A GIVIR O K F RII ISII VIO R N T DII I IK NII I IP KII VIF Y S P D T II I |
| JniRef90_W7ZL02 | UniRef90_UPI00037A3125 | VIIITAGFPRMPGMSRDDLVSKNAGVIAQVAEKSHCPDAFV |
| JniRef90_UP10002E13971 | UniRef90_C2GE97 | L V I CAGAPGET REQL V D K N L K I L K S I TE PAMAN DF DG I |
| I | | VVI A A G F P G M S R D DII I I O O N A F II V IR F A IV IT N A II IA H S P O A II IF II I |
| Jniref90_K8E2C2 | UniRef90_A7U552 | I I VTAGVPRKPGMSRDDČNAKI MGQVGEAI KQY <mark>C</mark> PNAFV |
| L T A G M A R K P G M S R E D K N A T V K E V T D R M Q Y S S N P L V | UniRef90_A1ARG4 | I I I T A G K P G M S R D D L I A T N S K I M T S V A E G I K K H A P D A F L I |
| JniRef90_A7RRY2 | | IIIITAGMARKPGMSREDKNATIIVKEVITDRIIMOYSSNPIIIII |
| UniRef90_L/WSG0 | UniRef90_A7RRY2 | V V L LD G K A LN E G T D K K E S H A K L F R D Y G K A L E A H A K P D C K V |
| UniRef90_L/WSG0 | UniRef90_F3ZYV6 | I I I S A G A P G E S R M D L L K R N A S I F K D I V A Q I S K Y L G E A I I |
| UniRef90_L7WTG8 V V I T A G A P Q K P R L Q L V E K N T K I M H S I V I S I M D S G F D G Y F L UniRef90_UP100042AF04A G E T R L D L V Q R N V V I M K S I I P G I V Q N S P N C K I | | AJVIJI O GLIPKKPG MOKDELINAKI VIKI IVVIKEL VISKOPNI I LI |
| UniRef90_L7WTG8 V V I T A G A P Q K P R L Q L V E K N T K I M H S I V I S I M D S G F D G Y F L UniRef90_UP100042AF04A G E T R L D L V Q R N V V I M K S I I P G I V Q N S P N C K I | UniRef90_K9F412 | Į VĮ Į A Ğ K P Ğ M S R Ď Ď Ľ Ľ K Ď N Ġ Ġ I Ĺ Ď D V M S Q Á Ľ P H S P D A H F I |
| UniRef90_L7WTG8 V V I T A G A P Q K P R L Q L V E K N T K I M H S I V I S I M D S G F D G Y F L UniRef90_UP100042AF04A G E T R L D L V Q R N V V I M K S I I P G I V Q N S P N C K I | UniRef90_R9GY43 | LITAGASQRERII DLLKRNVAVFESI TTEVLKY NTDGLL |
| UniRef90_UPI00042AF04A GETRLDLVQRNVVI MKSI I PGI VQNSPNCK I | | V M I T A G A P O K P R II O I V F K N T K II M H S II V T S II M D S G F D G V F II I |
| IniRefON LIPIONO379CRO1 VVIITA GAPOKPRI INI VINKNII IVII TISTI VIKDI VINS GEKCITELI | UniRef90_UPI00042AF04A | GETRLDLVQRNVVIMKSIIPGIVQNSPNCK |
| SININGIOU_SI 10000130DDI VVI II A O A I WAF ALDEVINANIENE LIGITE VIA FIEVDO GEAGIFE | UniRef90_UPI000379CB01 | VVITAGAPQKPRLDL VNKNLKI LISTI VKPI VDSGFKGLFL |

| | 130 | 140 | 150 160 |
|--|---|------------------------------------|--|
| UniRef90_A6CLY3 | VATNPVDILTYATWH | F S G L P K E R | V T G S G T I L D T A R L R Y L |
| UniRef90_K1VR37 | I I VIT N P L D V M T Y I A W Q | IVIS QII IE P F RI | I M G M A G V L D S A R F Q A F |
| UniRef90_A0A033UL77 UniRef90_S2XMB0 | | F S G L P K E R | V T G S G T I L D T A R F R Y L |
| UniRef90 Q0TUX8 | LVVSNPVDILTYITYK | LSGFPKER | VMGQSGVLDTARFNTF VIGSGTVLDTSRUKYM |
| UniRef90_UPI000287B187 | LVLTNPVDAMTYTVYE | TSGFPKNR | VIIGQSGII LIDTARFRTF |
| UniRef90_G6A0R4 | I C I T N P L D A MV G V L Q R V V T N P L D V M T Y L A <u>W</u> Q | ASGLPAAR | V |
| UniRef90_F4XXE6 UniRef90_UPI00047E65A2 | I VSNPMDTMTYLAWQ | ASGLPKNR | V M G M A G V L D S T R F R T F I I G M G G A L D S A R F K C Y |
| UniRef90_UPI00031D07F6 | TVLSNPVDAMTYVCYK | ATGFSKNR | VMGQSGVLDTARENTE |
| UniRef90_UPI000288388F UniRef90_T1AS32 | L V V S N P V D I L S Y L T Y K L V V T N P V D V M T Y W F R K | LSGFPKER | V |
| UniRef90_H3AQL4 | LVVSNPVDILTYVAWK | LSGFPKHR | V T G S G C N L D S A R F R Y L |
| UniRef90_Q6G1M0 | I III II IN PII III A MINIVIVAII II K | | V V 1 |
| UniRef90_UPI0003768D30 UniRef90_J9HTD7 | MLT NPLDIMTYHAWK VLSNPVDAMTYVAYK | V S G F P S N R | V |
| UniRef90_R2S6W6 | VAANPVDILTYATWK IVSNPVDILTYVVWK | <u>F</u> SG <u>F</u> PKER | VIGSGTSLDTARFRQ <u>A</u> |
| UniRef90_G5AKA2 | I V S N P V D L L T Y V V W K | I S GLP A T P | VIGSG <mark>C</mark> NLDSARFRY |
| UniRef90_UPI0003B726E3 UniRef90_C6HU27 | V VT N P I D A M V Y T A F K P V T N P M D L M A Y V L W R | VTGFPRFR | V L G M A G V L D S A R Y R Y F V I G M G G A L D S S R F A Y <u>F</u> |
| UniRef90_UPI0003C84111 | V V S N P | | DSARFRYL |
| UniRef90_T0LI72 UniRef90_P22988 | MVA NPLDIMTFHAYK LVVSNPVDVLTYVAWK | K S G F P T N R | V |
| UniRef90_F22988 UniRef90_G9YP16 | LIVSNPVDVLITWAAWK | LSGYPANR | V |
| UniRef90_N0B400 | _VATNPVDI LITYVT WK | F S G L P K E R | V L G S G T V L D T A R L K Y L I I G S G T L L D T A R F R Y L |
| UniRef90_F6l382 UniRef90_U2DVD6 | L | LISGF PSNR FSGI DKSK | VIGSGTNLDSSRFRFL LIGSGTTLDSARLRYE RVLGMGVLDSARFQLF |
| UniRef90_A9EZV5 | IVISNPI DAMVYEFKR | R T G F P R E | RV LG M GV L D S A R F Q L F |
| UniRef90_Q3MDN9 | IV VII N PII IDIVIMII YII IA W | FAIGHPRN | RILIMGMGIVIIDSAREELE |
| UniRef90_R7EXD5 UniRef90_V4GU78 | LIATNPVDVLITYVSIK | V S G L P A Q R | V F G S G T II L ID T A R F R Y II |
| UniRef90_H3DEZ9 | L V V T N P V D V L T Y V T L V L I A T N P V D V L T Y V S I K I V V S N P V D V L T Y V T W K | LSGLPKRR | VI GSGTNLDSARFRFL |
| UniRef90_F2F8Y3 UniRef90_R9C0T2 | I V L T N P V D A M T Y T V F K V A T N P V D I L T Y A T W R | ESGFPKHR | VIGOSGVLDTARFRAF VIGSGTILDTARFRFL |
| UniRef90_UPI000379EB44 | LVVSNPVDIMTYVSLK | LSGFERSR | V L G S G T V L D T A R F R Y V |
| UniRef90_F6YK35 | LIVSNPVGLLTYVAWK | L S G F E R S R L S G F P K N R | VIGSG <mark>C</mark> NLDSAQFRYL |
| UniRef90_W7YV58 UniRef90_U5Q298 | I I L S N P V D A M T Y A A F E | TLGFPKNR | VIGQSGVLDTARY <mark>C</mark> TF VIGMGG <u>M</u> LDSSRFLY <u>Y</u> |
| UniRef90_UPI0003457D10 | LVVSNPWDILTYVTLK | TGFPSSR | VIGMGGMLDSSRFIYY VIGSGTVLDSARFRAL VIGMGGALDSSRFAYF |
| UniRef90_I0IPH8 | IMVTNPMDLMAYTLWK | VT G F K R E R | V I G M G G A L D S S R F A Y F |
| UniRef90_A2E124 UniRef90_X5HMV3 | L V I G M P T N T N A L V A M T I V I T N P L D A M V W V L K Q | A S G I S P A K | N F <mark>C</mark> A M T R L D <mark>H</mark> N R A V Y S L V G M A G V L D S S R M N L F |
| UniRef90_R5TX92 | VATNPVDIMTRLTYA | LSGFNPRR | I V G M A G V L D S S R M N L F V L G S G T A L D T A R L R Y L V V G S G T S L D S A R F R L E |
| UniRef90_H3NCR0 UniRef90_E0R9S2 | U A S N P V D I L S Y A V H K L I A T N P V D I L S Y I S W K | F S G M P A H K | V V G S G T S L D S A R F R <u>II E</u> V I G S G T <u>L L</u> D S A R F R Y <u>L</u> |
| UniRef90_L0R932 UniRef90_H1Z595 | IVTNPMDTMALAALK | I S GL A K N R | I I G M G G A L D S A R F K Y F |
| UniRef90_R6QQ96 | VIATNPIVIDII IMTYIVITRK | ILISGEPAKRI | VI IGSGTTII IDTARII IRFII |
| UniRef90_N9Y5K7 UniRef90_V5XPB8 | L V V S N P V D V L A H I T Y K V A S N P V D L L T Y L T W Q L C I T N P L D A M V W A L R E | ESGIPASR | V |
| UniRef90_G2IIR6 | I CIT N P L D A MVWA L R E | FSGLPHNK | V V G M A G V L D S A R F A T F |
| UniRef90_X5DQK7 | VASNPVDI LISYAT WR | LAGVPSNQ | VIGSGTLLDTARFRSA NFHSLSMLDYNRAV <mark>H</mark> M |
| UniRef90_Q9GSY5 UniRef90_R5XUT7 | I A S N P V D L M T Y V V Q K | VSGFPTNK | VIGSGTVLDTARLRYL |
| UniRef90_C7M7P0 | I V V S N P M D T M A Y L V H | KATKLPKN | HII I G M G G L D S A R F K Y R |
| UniRef90_E5WGV7 UniRef90_UPI0004792E2D | LLASNPVDVMSYFAWS | F S GL P K E R | VIGSGTILDSARFRYL |
| UniRef90_B3TGZ5 | LVVGNPANTNALICSK | YAPSIPKE | VIGSGTLLDSARFRYL NFTAMTRLDQNRAQSQ VMGMAGLLDTARYRAF |
| UniRef90_A3HXB3 UniRef90_T0YIB6 | I V V S N P L D V M T Y Q A H L L V V G N P A N T N A L I A S R | TSKLPRTK | V M G M A G |
| UniRef90_1011B6 UniRef90_UPI0004701336 | I I L S N P V D A M T Y V A F K | TLGFPKNR | VIGQSGVLDTARY <mark>C</mark> TF |
| UniRef90_V2QGH6 | I I I S N P L D A MVT L M R Q | VTGFPANR | VI GQSGVLDTARY <mark>C</mark> TF VLGQAGVLDSSRFASF VI GTGTTLDSSRFKKE |
| UniRef90_C7RHY1 UniRef90_P20373 | L V VIS N PIVIDIV LII YIVII WK | IL IS GIL IP K H RI | V I IG S G I NILID S A R F R Y M |
| UniRef90_UPI00037950E5 | | | |
| UniRef90_K9TQZ1 UniRef90_R9GXX6 | L V T N P V D I M T Y V T L K | LIS G F P C N R | CVGMAGILDSSRMKYF VLGSGTVLDTARFRYL ILGMGGALDSSRFKYY VMGMAGVLDSSRFKYF VIGMAGVLDSSRFNFF VIGSGTAMDTTRFRHE VIGSGTTLDTARLRFM VFGSGTVLDTARLRTL VIGSGTVLDTTRFRSE VIGSGTVLDTTRFRSE |
| UniRef90_Q7NHJ3 | V V V T N P L D A M S H V A WR | A S G L V P E R | V MG MA GV L D A A R F E T F |
| UniRef90_A8GWI0 | T V L T N B L D V M V Y V M L K | ESGLPHNK | V I G M A G V L D S S R F N F F |
| UniRef90_G0SC13 UniRef90_J8T5M1 | VATNPVDVLI HAAHK | FSGIPRHR | VIGSGIAMDIIKEK <mark>H</mark> E VIGSGTTIDTARIREM |
| UniRef90_P16115 | ĪVVTNPVDVLTŸFFLK | ESGMDPRK | V F G S G T V L D T A R L R T L |
| UniRef90_V9HD54 UniRef90_Q2S289 | LVVSNPVDILAYMTYK | LSGFPKER | V L G S G T IV L D T T R L R S L |
| UniRef90_Q25289 | LMVSNPVDLMTYVAWK | LS GLP KNR | VI GSGT NL DSSRFR <u>F</u> L |
| UniRef90_UPI00037A3125 | IVITNPLDAMVWVFKE | KSGLPAHK | V V G M A G V L D S A R F R L F |
| UniRef90_C2GE97 UniRef90_W7ZL02 | L V A S N P V D I L S Y G A W K I V L T N P A D A M T Y T V Y K | F S G F F K N P | V I G Q S G V I D S A R F R T F |
| UniRef90_UPI0002E13971 | VVTNPLDVMTYLAWQ | ĀŢĞĹŚŔĎŔ | Ĭ M G M A G V L D S A R F E T Y |
| UniRef90_A7U552 | I C I T N P L D V M V Y I L R E | K C G L P P H K | VIGSGINLDSSRFRFL VVGMAGVLDSARFRLF VFGSGTILDTARYRWM VIGQSGVLDSARFRTF IMGMAGVLDSARFETY VCGMAGVLDSARFAAF RVMGMGVLDSARFAAF VIGSGTSLDSARFRGA VIGSGTSLDSARFRSF |
| UniRef90_A1ARG4 UniRef90_K8E2C2 | C I S N P L D A MV T L C Q K V A S N P V D I L T Y A V W K | FSGLPTQR | VIGSGTSLDSARFAAF |
| UniRef90_B4S9F1 | MV SNPLDLMTYVSYV | RSKLPKĒR | V I G M A G V L D S A R F R S F |
| UniRef90_A7RRY2 UniRef90_F3ZYV6 | LTAGGPANFSTFLASK LVVTNPVDVLTYFTLR LVTNPLDAMVHVARQ | FAPSI QKK | N F V S L S R I E E N R A K G L |
| UniRef90_D8PJ09 | LVTNPLDAMVHVARQ | V S G L P K S R | V L G M A G V L D T A R L R S F |
| UniRef90_D7WSG0 | I VIIS NEIVID A MILYIVICII IE | II(i F P K N R I | VIMIGOS GIVI IDI ARENI E |
| UniRef90_K9F412 UniRef90_R9GY43 | L V T N P L D V M T Y L A W Q | I S G L P P R Q K S G W P V N P | V |
| UniRef90_R6NDY6 | VATNPVDVMAHVTQA | LSGFDDHR | V |
| UniRef90_L7WTG8 | LI AANPVDI LT RYVKE | LTGLPAER | V |
| UniRef90_UPI00042AF04A UniRef90_UPI000379CB01 | LIVSNPVDILTYVWK VAANPVDILTYATWK | LS GLPPIR FS GF D K S P | V |
| toloo_ol looool Jobb(l | | | |

| | 170 180 190 | 200 |
|--|---|---------|
| UniRef90_A6CLY3 | | D |
| UniRef90_K1VR37 UniRef90_A0A033UL77 | L S E E F D V A P Q S V H A N I I G E H G D E M V P L P R Y S T V N G I P L L S E E F D V A P Q S V H A N I I G E H G D S E L P V W S H A N I A G K P R V A E A L N V A V K D V T G L V L G G H G D T M V P L I R H S Q V N G V L L S E H F D I D A R N V H T Y L I G E H G D S E I T A W S L T N L A G A N V V A E A L N I S V K D I S G F V L G G H G D T M V P L V R Y S Y A G G V P L L A E E F N V S I E D V T A F V L G G H G D T M V P L V R Y S T V A G I P V L A E B F N V S V A D V N A N V V L G G H G D T M V P L V R Y S T V A G I P V L A E B F N V S V A D V N A N V V L G G H G D T M V P L V R Y S T V A G I P V L A E B F N V S V A D V N A N V V L G G H G D T M V P L V R Y S T V A G I P V L A E B F N V S V A D V N A N V V L G G H G D T M V P L V R Y S T V A G I P V L A E B F N V S V A D V N A N V L G G H G D T M V P L V R Y S T V A G I P V L A E B F N V S V A D V N A N V L G G H G D T M V P L V R Y S T V A G I P V L A E B F N V S V A D V N A N V L G G H G D T M V P L D R Y S T V L G G V P L L A E B F N V S V A D V N A N V L G G H G D T M V P L D R Y S T V L G G V P L L A E B F N V S V A D V N A N V L G G H G D T M V P L D R Y S T V L G G V P L L A E B F N V S V A D V N A N V L G G H G D T M V P L D R Y S T V L G G V P L L A E B F N V S V A G G V P L L A E B F N V S V A G G V P L L A E B F N V S V A G G V P L L A E B F N V S V A G G V P L L A E B F N V S V A G G V P L L A E B F N V S V A G G V P L L A E B F N V S V A G G V P L L A E B F N V S V A G G V P L A E B T N V B L A E B T N V B T T T T T T T T T T T T T T T T T T | JT S |
| UniRef90_S2XMB0 | VAEALNVAVKOVTGL VLGGHGDTMVPL RHSQVNGVL |]T |
| UniRef90_Q0TUX8 | LSEHEDI DARNVHTYLI GEHGDSEI TAWSLTNLAGANV | Ē |
| UniRef90_UPI000287B187 UniRef90_G6A0R4 | VAEALNISVKDISG FVLGGHGDTMVPLVRYSYAGGVPLLAEFNVSIEDVTA FVLGGHGDTMVPLVRYSTVAGIPV | S |
| UniRef90_F4XXE6 | V A E A L N I S V K D I S G F V L G G H G D T M V P L V R Y S Y A G G V P L L A E E F N V S I E D V T A F V L G G H G D T M V P L V R Y S T V A G I P V I A M E N G V S V A D V N A V V L G G H G D L M V P L P R Y S T V S G V P I L S L A M N V S P N D L H A T V I G G H G D T T M I P L K R L A T W N G T P V | T |
| UniRef90_UPI00047E65A2 | L S L A M N V S P N D L H A T V I G G H G D T T M I P L K R L A T W N G T P V | A |
| UniRef90_UPI00031D07F6 UniRef90_UPI000288388F | VAEELNIVSVEDISG FVLGGHGDEMVPLVRYSYAGGIPLIGKRYNIDPRNVNTYLIGEHGDSEIATWNITNIQNIKI | D D |
| UniRef90_T1AS32 | VADALGVAARDVTG FVLGSHGDTMVPLLSLTSVSGVPL MGEKLNLHPASCHGWLILGEHGDSSVPVWSGVNVAGVPN | Ť |
| UniRef90_H3AQL4 | L A ME N G V S V A D V N A V V L G G H G D L M V P L P R Y S T V A G V P I L S L A M N V S P N D L H A T V I G G H G D L M V P L P R Y S T V S G V P I L S L A M N V S P N D L H A T V I G G H G D T T M I P L K R L A T W N G T P V V A E E L N V S V E D I S G F V L G G H G D E M V P L V R Y S Y A G G I P L I G K R Y N I D P R N V N T Y I I G E H G D S E I A T W N I T N I Q N I K I V A D A L G V A A R D V T G F V L G S H G D T M V P I L S L T S V S G V P L M G E K L N L H P A S C H G W I I G E H G D S S V P V W S G V N V A G V P N L S E E F K I S V K D V T A F V L G G H G D S M V P L V R Y S T V G G I S L S E F K I S V K D V T A F V L G G H G D S M V P L V R Y S T V G G I S L | P |
| UniRef90_Q6G1M0 UniRef90_UPI0003768D30 | | T |
| UniRef90_J9HTD7 | USEEFKI SVKDVTA FVLGGHGDS MVPL VRYSTVGGI SI I SLELGVSVEDI SAL VMGGHGDT MVPL PRYTTVGGI PI VAAELGVSVEDVHG FVLGVHGDD MVPL VRYSNVGGVPL | T |
| UniRef90_R2S6W6 UniRef90_G5AKA2 | | Y K |
| UniRef90_UPI0003B726E3 | I A E A I GVS P K DVO A I VM GVH G D H MI DI VP I A NVA GI DV | K |
| UniRef90_C6HU27 UniRef90_UPI0003C84111 | L SEERS[V]SN[_HS[L]V MGGHGDQM V P LDFS[II AG V P V | R K |
| UniRef90_T0LI72 | VALELGVSVQDVQAMVLGGHGDSMVPLPRYTTVSGLPL | S |
| UniRef90_P22988 | I A E H L D V N A Q D V Q A Y M V G E H G D S S V A I WS S S V G G M P A L G E R L G V D S R S V H A F I I G E H G D S E L A V WS G A N V S G D H F L G D Y F A V D P R N V H A Y I I G E H G D T E L P V WS Q A D I A G L P I | F |
| UniRef90_G9YP16 UniRef90_N0B400 | L G E R L G V D S R S V H A F I I I G E H G D S E L A V W S G A N V S G D H F L G D Y F A V D P R N V H A Y I I G E H G D T E L P V W S Q A D I A G L P I | S |
| UniRef90_F6l382 | I A D H L D V S A Q D V Q A F I V G E H G D S S V A L W S S I S V G G V P I L S D Y L N I N S K N I H A Y L I G E H G D S E F P I W S N A S I G V K P L | Ē |
| UniRef90_U2DVD6 UniRef90_A9EZV5 | I A D H L D V S A Q D V Q A F I V G E H G D S S V A L WS S I S V G G V P I L S D Y L N I N S K N I H A Y I I G E H G D S E F P I WS N A S I G V K P L L A R E A N V S V K D V R A M V L G G H G D D M V P I P S A C T I N G V R A | 누 |
| UniRef90_Q3MDN9 | I ALECGVLPADVKAM VLGSHGDLMVPLSRHATVNGIPI | Ţ |
| UniRef90_R7EXD5 UniRef90_V4GU78 | V G E R L G V D S R N V H T F I I I G E H G D S E V A V F S S A N V S G V D L L S T R F D V D P R S V H A F I I I G E H G D S E V A V W S L A N I A G M S L I | S |
| UniRef90_H3DEZ9 | VADKLGLHASSE NGWILGEHGDTSVPVWSGTNVAGVSN | P |
| UniRef90_F2F8Y3 UniRef90_R9C0T2 | | Q Y |
| UniRef90_UPI000379EB44 | LGEKTGI APRSLHAYLI LGEHGDSEVAAWSKVNI AGMS | |
| UniRef90_F6YK35 | MGE SWVHPLSCHGR VLGEHGDSSVPLWNGVNVAGVSL | K |
| UniRef90_W7YV58 UniRef90_U5Q298 | | S |
| UniRef90_UPI0003457D10 | LAQEMG DARSVHAYI I GEHGDSEVAVWSSANVGGMKI | V |
| UniRef90_I0IPH8 UniRef90_A2E124 | V S E V S K T S V S N I Q T L | ΙΡ Η |
| UniRef90_X5HMV3 | LAQELDVSVSDVKSMVLGSHGDSMVPLIRYSTVSGVSL | K |
| UniRef90_R5TX92 UniRef90_H3NCR0 | L G E S L S V D P R N V H A Y V M G E H G D S E F V P W S Q A M I A T K P I L A K R L N I D A R N V H G Y I I G E H G D T E F P V W S H A N I A G L Q L | 屵 |
| UniRef90_E0R9S2 | I GKQKGI DPRSI HAHII GEHGDSELPVWSTANVAGTP | |
| UniRef90_H1Z595 UniRef90_R6QQ96 | I GKQKGI DPRSI HAHII GEHGDSELPVWSTANVAGTPLSQKLDKPVADI EGMVI GGHGDTTMIPLIRLATYKG PVI GGHGDTTMIPLIRLATYKG PVI GGHGDTTMIPLIRLATYKG PVI GGHGDSEFVPWSQALISTKPV LGKYLNVNNGNIHSYVI GEHGDSEVVTWSNARVAGEEI I ALKLAVDPRSVHGY I LGEHGDSEVVTWSNARVAGEEI LAWEFGVSVKDV NAFVLGGHGDTMVPVTSYTTVSG PV LGEYFQVSPTSVHAYVI GEHGDTELPVLSAGSVAGVPLLASKFGVEVGEIRDMVVWGNHAESMVADLSHAYFKDGKKI GEHLPVLSAGSVAGVPLLASKFGVEVGEIRDMVVWGNHAESMVADLSHAYFKDGKKI | T V |
| UniRef90_N9Y5K7 | LGKYLNVNNGNI HSYVI GEHGDSEVVT WSNARVAGEEII | Ď |
| UniRef90_V5XPB8 | I A L K L A V D P R S V H G Y T I L G E H G D S E V A A W S H T T V G G K P I L A W E F G V S V K D V N A F V L G G H G D T M V P V T S Y T T V S G I P V | M |
| UniRef90_G2IIR6 UniRef90_X5DQK7 | LAWEFGVSVKDV NAFVLGGHGDTMVPVTSYTTVSGIPVLGEYFQVSPTSVHAYVI GEHGDTELPVLSAGSVAGVPLLASKFGVEVGEIRDMVVWGNHAESMVADLSHAYFKDGKK | P |
| UniRef90_Q9GSY5 | LASKFGVEVGELRDMVVWGNHAESMVADLSHAYFKDGKK | Q |
| UniRef90_R5XUT7 UniRef90_C7M7P0 | I GEHLHVCSKNVHAY I MGEHGDSSFVPWSHSYVGCKSLLAEALNSPISDVDGMVI AAHSDSGMLPLTRLASYRGVPV | H |
| UniRef90_E5WGV7 | L G K E F D T A AVS V H G Y I I G E H G D S Q F P V W S F A N T A G T P V | A |
| UniRef90_UPI0004792E2D UniRef90_B3TGZ5 | I G N H L N I D P R S V H A H I I G E H G D S E L P V W S L A N V A G L P L L A A K I G V P V K D V K R V I I W G N H S S T Q F P D A S N A I V G G A Q K | S S |
| UniRef90_A3HXB3 | I A S E L N V S P K E I Q A I L M G G H G D T M V P L P R Y T T V A G P V | Ť |
| UniRef90_T0YIB6 UniRef90_UPI0004701336 | L S E K CHV PVT DI HRVSVWGNHSSTQFPNIEQ II A E ELNVSVE DVRG FV LGGHGDDMVPL VRYSSVGGIPII | l= |
| UniRef90_V2QGH6 | I A E E L'NIV S V E D V R G F V L G G H G D D M V P L V R Y S S V G G P P L I A WEL G I S V K D V S A L V L G G H G D T M V P L J R Y A N V A G I P A | Ĺ |
| UniRef90_C7RHY1 UniRef90_P20373 | LAQLIGIDPRSV DAFVLGEHGDSEFAVWSHTNIGGLPIMAERLGIHASAF NGWVLGEHGDTSVPVWSGANVAGVSL | Y |
| UniRef90_UPI00037950E5 | MAERLGI HASAF NGWVLGEHGDTSVPVWSGANVAGVSL LSKALNVSIKSIET FVLGGHGDTMVPMIRYTTISGIPI | ã |
| UniRef90_K9TQZ1 UniRef90_R9GXX6 | L A N Q K D P R S F H A Y I G E H G D S E V V W S K V N L S G M N L L S Q E L G C S P A D L N A M V I G G H G D T T M I P L I N H A T W N S I P V | C |
| UniRef90_Q7NHJ3 | I A WELGESVRDI RAM VLGGHGDLMVPLPRYTTIS GVPL | Ť |
| UniRef90_A8GWI0 UniRef90_G0SC13 | LAEEFKVSTNSVSS IVLGGHGDAMVPLARYSTVKGVPILGRYFGVHPRNVHA IIIGEHGDTQLPVWSLATISGMRL | P |
| UniRef90_J8T5M1 | LSDYFKLSTSHIHAY I MGEHGDTSLAVWSTATVGNMPI | T |
| UniRef90_P16115 | I A Q H C G F S P R S V H V Y V I G E H G D S E V P V W S G A M I G G P L | Q |
| UniRef90_V9HD54 UniRef90_Q2S289 | L G K Y F G I D G R I V Q G Y V L G E H G D S E F V P W S S L T I G N I P I L A E E L D V S V R D V Q A L L M G G H G D T M V P L P R Y T T V G G I P V | P |
| UniRef90_Q95028 | MSQRLG V APTSCHGWLICGEHGDSS V P V WSGV N IAG V R L | R |
| UniRef90_UPI00037A3125 UniRef90_C2GE97 | L A H E F N V S V E D V T A | P R |
| UniRef90_W7ZL02 | I A Q E I NIL SVE DI T G F V L G G H G D D M V P L L R Y S A A G G V P L | S |
| UniRef90_UPI0002E13971 UniRef90_A7U552 | I A MELGVSPQDVSAM VLGSHGDSMLPLPRYSTVNGIPILSERLNVSVDDIHAL VMGGHGDTMVPLPRFTTVGGIPL | P |
| UniRef90_A1ARG4 | I A WELGVSVK DVT A M_VMGGHGD DMVPL IRYA NVFGI PV | M |
| UniRef90_K8E2C2 | LAGITOVOARDVHAYLIGEHGDTQFPVWSHANIGGLQI | Y |
| UniRef90_B4S9F1 UniRef90_A7RRY2 | | A |
| UniRef90_F3ZYV6 | I A K R L N V N T A G I K D L I V W G N P G F N H Y P D A S H A R V D G F D G L S R H C G V D A R N V H A Y I I G E H G D S E V P V W S L A D I A G M P I | D |
| UniRef90_D8PJ09 UniRef90_D7WSG0 | V A E E L N V P G T E V Q A M V L G G H G D T M V P L V R Q T T V T G K P I I A Q A L Q L A V E D I S S F V L G G H G D E M V P L V R Y T Y V G G I P L | E |
| UniRef90_K9F412 | I A Q E L E V P P Q D V S T M V L G G H G D L M V P L I S Y T T V S G L P L | T |
| UniRef90_R9GY43 UniRef90_R6NDY6 | A K R L N V N T A G | \Box |
| UniRef90_L7WTG8 | I S N E L N V A P A S V H A A L I L G E H G D S E L A V W S K A N I A G I S V I | F |
| UniRef90_UPI00042AF04A | I GEKLSVHPTSCHG WYLGEHGDSSVPLWSGVNVAGLPL | K |
| UniRef90_UPI000379CB01 | L G K K F N V D A R D V S A | 0 |

| JANSENSON KIVEST JANSEN KIVEST JANSENSON KIVEST JANSENSON KIVEST JANSENSON KIVEST JANSENSON KIVEST JANSENSON KIVEST JANSENSON KIVEST JANSEN KI | | 210 <u>22</u> 0 230 240 |
|--|--|--|
| Jumps Jump | UniRef90_A6CLY3 UniRef90_K1VR37 | ELMD AETINRLIARTRNGGAEIVGLLKTGGAYYAPA |
| June Page | UniRef90_A0A033UL77 UniRef90_S2XMB0 | III I EKDESRKHRIVIE EILIEIVIOTRDAAYEILI I EAKGAT YYGIVIAM |
| J. E M VS | UniRef90_Q0TUX8 | E Y <mark>C K C A N C</mark> D G S F K K E IL IP E K IV IK N A A Y E II I IN S K G Y T N Y A IV IA IL I |
| June | UniRef90_G6A0R4 | D L E M W S T A E K D Q V Q R T R D G G A E V G L K T G S A F Y A P A |
| Junkeepo UPI00030895666666666666666666666666666666666666 | UniRef90_F4XXE6 | EILIMT PD RII |
| JRR890 | UniRef90_UPI00031D07F6 | KILPPER LEAILERTRKGGGEIVQLLGQGSAYYAPA |
| June | UniRef90_UPI000288388F UniRef90_T1AS32 | RLLPADRLA AIVERTQKGGGEIVNLLKSGSAYYAPS |
| Junkerson Junk | UniRef90_H3AQL4 UniRef90_Q6G1M0 | DII VIKMWTTQFKII IDQII I IQRTRDGGAFII VISII I IKTGSAFYAPA |
| Junkerson Property Part | UniRef90_UPI0003768D30 | QLIS AERIEEMAQRTRDGGAEVVDLLK TSGYYAAG |
| Junkerso Debugs 264111 Junkerso Debugs 26411 Junkerso Debugs | UniRef90_R2S6W6 | E WIVIK D N P EIVID E E AIL VINIL IF F GIVIR A A Y EII I IE K K G A T F Y GII IAIVI |
| Junkerso Debugs 264111 Junkerso Debugs 26411 Junkerso Debugs | UniRef90_G5AKA2 UniRef90_UPI0003B726E3 | SLINPELIGT DSDKEQWKSVHKQESAYEVIJKLKGSTSWAILGL DLLPQEKLS EI VERTRKGGAEI VSYLKTGSAFTTPG |
| Junkenso (1929) K. S. L. R. D. S. H. R. S. P. G. E. A. L. L. R. R. M. Y. Y. G. G. A. Y. E. V. L. G. L. K. G. Y. S. W. A. J. W. J. M. R. M. | UniRef90_C6HU27 UniRef90_UPI0003C84111 | KII I IP SDRII IFAII VITRTRNGGAFII VI <mark>H</mark> II IMKDSSAYFAPA |
| Jinkergo GayP16 | UniRef90_T0LI72 | ELLPPEKI KGUSERTRNGGTEUVAYLKTGSAFYAPA |
| Junkengo (1900) Junken | UniRef90_G9YP16 | FILIRGYYE <mark>H</mark> DKADEWI IQREIVIRDSAYEILLIR RKGATYYGIVIAM |
| Junkergo | UniRef90_N0B400 UniRef90_F6l382 | D W T K N K P N F Q Q E D L D T L F L N V R A A Y Q I T Q R K G A T F Y G I A M G F L E N Q Q I T F S K E T L E N I H K E N S A Y E V T S L K A C T S W A I G Y |
| Jinkergo Q.34MDN9 | UniRef90_U2DVD6 UniRef90_A9F7V5 | DVI NEHDEYKYEDLDQIYKDVRAAYEI I KRKKATYYGLGM |
| Junkelson 1982-29 19 | UniRef90_Q3MDN9 | FILLID AATILIERII VIERTRNGGAEII VIEILIMOTGGAEEAPA |
| J. J | UniRef90_V4GU78 | DYCKTNQMACSDDDLTQIFTQTAAYHIIERKGATYYAIGT |
| Jinkergo UP10003795844 Jinkergo WYY358 T L HA HY K E Q WK E Q W | UniRef90_H3DEZ9 UniRef90_F2F8Y3 | DILIGT DRDHENWRETHKMIV VIDSESA YEIVT IRII IK GYTNWAITIGILT |
| Junker90 US00345701 Junker90 | UniRef90_R9C0T2 | KLMQRAAHYKMEDLDEI FVNVRAAYKI I EGKGATYYGI AM |
| Jinkel90 | UniRef90_F6YK35 | TILI <mark>H A H Y K F Q W K F </mark> |
| Jinkergo Joiphels Jinkergo Joi | UniRef90_U5Q298 | EILITTKEIVLIDQII ITEDTMK GGATILITKILI IGTSAWYAPG |
| Jinkerson 19822 Jinker | UniRef90_I0IPH8 | KVLDPKT LESLVARTRDGGGEI VRLMKDSSAYFAPA |
| Jinkerson 19822 Jinkerson 19822 Jinkerson 19822 Jinkerson 19828 Jinkerson 19822 Jinkerson 19828 Jinkerson 1982 | UniRef90_A2E124 UniRef90_X5HMV3 | H |
| Jinker90 C0R9S2 Jinker90 R6QQ96 Jinker90 R6QQ9 | UniRef90_R5TX92 | SLCEEQGEGGMEVICIEEDVRGAAYQIIEAKSATYYGIGM |
| Jinkeg90 | UniRef90_E0R9S2 | ILIEILIGEETKNEII IFENTKNAAYEII I IDAKGATS YAII IGILI |
| Jinkef90 | UniRef90_R6QQ96 | DIV VIK ONRNE SMNE KILIOE EIVIRTSA OIVII IEAKKAT YYGILIGM |
| Jinkef90 | UniRef90_N9Y5K/ UniRef90_V5XPB8 | EYEKDHRLEENDLTVLADKVKNAAYEIIISRKKATYFAVAL |
| Jinkef90 | UniRef90_G2IIR6 UniRef90_X5DQK7 | IVIRILIA Q S P D G G F SIVIS FILIF R R T R D A A Y FIL L IN A K G S T S F GILIGIVI |
| JAIRE690 C7M7P0 JAIRE690 ESWGV7 JAIRE690 ESWGV | UniRef90_Q9GSY5 | M V K E L V S E D Y A K G E F F T T I A G R A W A I M E R R G F T S A A S P S K |
| Jnire690_UP10004792E2D Jnire690_B3TGZ5 V SE INDDAY LKXAF VTTTV QKRGAAV TISAKKGATYYA A L Jnire690_A3HXB3 Jnire690_UP10004701336 T L M P A E R E K L N A I E R T K F G G E L V K L M G T S AWYA P G Jnire690_UP10004701336 T L M P A E R E K L N A I E R T K F G G E L V K L M G T S AWYA P G Jnire690_UP10004701336 T L M P A E R E K L N A I E R T K F G G E L V K L M G T S AWYA P G Jnire690_UP10004701336 T L M P A E R E K L N A I E R T K F G G G E L V K L M G T S AWYA P A Jnire690_UP10003795055 J IE E E K L N A I E R T K F G G E L V K L M G T S AWYA P A Jnire690_UP10003795055 J IE G D C C C C C C C C C C C C C C C C C C | UniRef90_C7M7P0 | E F IL IS A D R IL IN QIVIA E D T K IV IG G A T IL IT K IL L IG T S A W Y A P G |
| Jurkef90_UP10004701336 Jurkef90_UP2004701336 Jurkef90_C7RHY1 Jurkef90_P20373 KINP B E I F E K E K A K E V M D K I V E R T A K A G G E E V V A L L K T G S A F Y S P A J A J R E I V Q R T R V G G G E I V S L L G N G S A Y Y A P A J A J R E I F E K E K A K E V M D K I V E R T A K A G G E V V A L L K T G S A F Y S P A J A J R E I V Q R T R V G G G E I V S L L G N G S A Y Y A P A J A Y E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I A M M G I C K C D S K I L E R T R T G G A E I V H L L K T G S A F Y A P A J A M A Y E I I A M G S T S A W Y A P A A J A M C Q I C K C D S K I L E N F A E K T K R A A Y E I I Q R K G K T N Y G I A M J A V E I I A M G I S A V Y A P A A J A M C Q I C K C D S K I L E N F A E K T K R A A Y E I I E R K G A T H Y A I A L D F S E Q L K E W D E E K V I A D D V K N A A Y E V I N R K G A T A F Y A P A J A M C Q I C K C D S K I L E N F A E K T K R A A Y E I I E R K G A T H Y A I A L D F S E Q L K E W D E E K V I A D D V K N A A Y E V I N R K G A T A F Y A P A J A R A Y E V I N R K G A T A F Y A P A A J A R C V E I D F S E Q L K E W D E E K V I A D D V K N A A Y E V I N R K G A T A F Y A P A J A R C V E V K M W T T Q E K G M T A F Y A P A A M C V E R T K K G A G G E I V M L L K T G S A F Y A P A A M C V E I D T T T T T T T T T T T T T T T T T T | UniRef90_UPI0004792E2D | TEEEHKEDIFSNTVN AAYKI ISAKGATYYALAL |
| Jurkef90_UP10004701336 Jurkef90_UP2004701336 Jurkef90_C7RHY1 Jurkef90_P20373 KINP B E I F E K E K A K E V M D K I V E R T A K A G G E E V V A L L K T G S A F Y S P A J A J R E I V Q R T R V G G G E I V S L L G N G S A Y Y A P A J A J R E I F E K E K A K E V M D K I V E R T A K A G G E V V A L L K T G S A F Y S P A J A J R E I V Q R T R V G G G E I V S L L G N G S A Y Y A P A J A Y E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I K K K G A T F Y G I G M J A V E I I A M M G I C K C D S K I L E R T R T G G A E I V H L L K T G S A F Y A P A J A M A Y E I I A M G S T S A W Y A P A A J A M C Q I C K C D S K I L E N F A E K T K R A A Y E I I Q R K G K T N Y G I A M J A V E I I A M G I S A V Y A P A A J A M C Q I C K C D S K I L E N F A E K T K R A A Y E I I E R K G A T H Y A I A L D F S E Q L K E W D E E K V I A D D V K N A A Y E V I N R K G A T A F Y A P A J A M C Q I C K C D S K I L E N F A E K T K R A A Y E I I E R K G A T H Y A I A L D F S E Q L K E W D E E K V I A D D V K N A A Y E V I N R K G A T A F Y A P A J A R A Y E V I N R K G A T A F Y A P A A J A R C V E I D F S E Q L K E W D E E K V I A D D V K N A A Y E V I N R K G A T A F Y A P A J A R C V E V K M W T T Q E K G M T A F Y A P A A M C V E R T K K G A G G E I V M L L K T G S A F Y A P A A M C V E I D T T T T T T T T T T T T T T T T T T | UniRef90_B3TGZ5 UniRef90_A3HXB3 | USEI INDDAYLKXAFVTTVQKRGAAVIAARKMSSALSAAK ELIE EEKLNAIIERTKFGGGELVKLMG TSAWYAPG |
| JniRef90 | UniRef90_T0YIB6 | |
| JniRef90 | UniRef90_V2QGH6 | E L F E K E K A K E V M D K I V E R T A K A G G E V V A L L K T G S A F Y S P A |
| JniRef90_K9TQZ1 | UniRef90_P20373 | KIL IN PEILIGT DGDKEQWKAT HIV VIDSAYEIV LIKIL IK GYT N WAILIGF |
| JAIRE190_QONNHJ3 JAIRE190_A8GWI0 JAIRE190_GOSC13 JAIRE190_JBT5M1 JAIRE190_JBT5M1 JAIRE190_VPH6115 JAIRE190_VPH6115 JAIRE190_VPH6115 JAIRE190_QSS289 JAIRE190_QSS289 JAIRE190_QSS289 JAIRE190_QSS289 JAIRE190_UPH00037A3125 JAIRE190_UPH00037A3125 JAIRE190_UPH00037A3125 JAIRE190_UPH00037A3125 JAIRE190_UPH00037A3125 JAIRE190_UPH00037A3125 JAIRE190_A7RS72 JAIRE190_A7RS72 JAIRE190_A7RS72 JAIRE190_A7RS72 JAIRE190_A7RS72 JAIRE190_A7RS72 JAIRE190_DRANG0 JAIRE190_RE10A A Q L L S S A R I D A IL I E R T R T G G A E I V I L L K T G S A F Y A P A D A Y E I I I Q R K G K T N Y G I A M M M M M G A Y E I I I Q R K G K T N Y G I A M M M M M M M M M M M M M M M M M M | UniRef90_K9TQZ1 | SILIED <mark>C</mark> S F A D Q D RILIQ GILIF D QIVIK N A A Y FIV LIK R K G A T S Y AILIGILI |
| JAIRE690 | UniRef90_R9GXX6 UniRef90_Q7NHJ3 | OII I IS SARII ID AII I IERTRTGGAEII VI <mark>H</mark> II I IKRGGAYYAPA |
| Jniref90 | UniRef90_A8GWI0 UniRef90_G0SC13 | DL VK MGST NERLEKI I DRTRNGGGEL VALLKTGSAYYAPA DYCAQAGHPYNEEELCARRTKEAAYEII I ORKGKTNYGVA |
| JniRef90 | UniRef90_J8T5M1 | QYLKQDESYQMENLDLYENVRDAAYHVIQKKGATYYGIAM |
| JniRef90_Q95028 JniRef90_UP100037A3125 JniRef90_UP200037A3125 JniRef90_UP200037A3125 JniRef90_UP200037A3125 JniRef90_UP20002E13971 JniRef90_UP20002E13971 JniRef90_A7U552 JniRef90_A1ARG4 JniRef90_B4S9F1 JNIREf90_B4SP6 JNIREf90_B4SP6 JNIREf90_B4SP6 JNIREf90_B4SP6 JNIREf90_B4SP6 JNIREf90_B4SP6 JNIREf90_B4SP6 JNIREf90_B4 | UniRef90_V9HD54 | DESEQUINDEEKVIADDVKNAAYEVINRKGATAFSVAA |
| Jniref90_UP100037A3125 | UniRef90_Q95028 | FILIN PILLIG T G F D P F K WN FILIH K QIVIS A Y FIV LIKILIK G Y T S WAILIGILI |
| JniRef90_W7ZL02 JniRef90_W7ZL02 JniRef90_UPl0002E13971 JniRef90_A7U552 JniRef90_A1ARG4 JniRef90_K8E2C2 JniRef90_B4S9F1 EL W K M G M I S Q Q E D D I V Q R T R N G G G E I V S L L K T G S A F F A P A JniRef90_B4S9F1 EL L S Q E K I D S L V D R T R K G G A E I V N Y L K D G S A Y Y A P A JniRef90_A7RRY2 JniRef90_B7ZYV6 JniRef90_D7WSG0 JniRef90_D7WSG0 JniRef90_D7WSG0 JniRef90_D7WSG0 JniRef90_R6NDY6 JniRef90_R6NDY6 JniRef90_R6NDY6 JniRef90_R6NDY6 JniRef90_L7WTG8 JniRef90_UPl00042AF04A S T I N F T D E E K E N L Y L D T K N A A Y E I I Q A K G S T Y Y G I A L JNIRef90_UPl00042AF04A S L N P A L G T D S D K E G W K Q I H K Q E S A Y E I V R L K G Y T S W A I G L | UniRef90_UPI00037A3125 UniRef90_C2GE97 | D <u> L V </u> K M W T T Q E K <u> V D</u> A |
| JniRef90_A1ARG4 JniRef90_K8E2C2 JniRef90_B4S9F1 JniRef90_A7RRY2 JniRef90_B73ZYV6 JniRef90_D8PJ09 JniRef90_D8PJ09 JniRef90_D7WSG0 JniRef90_D7WSG0 JniRef90_B7412 JniRef90_R6BDY6 JniRef90_R6BDY6 JniRef90_R6BDY6 JniRef90_R6BDY6 JniRef90_R6BDY6 JniRef90_L7WTG8 JniRef90_L7WTG8 JniRef90_L7WTG8 JniRef90_L7WTG8 JniRef90_L7WTG8 JniRef90_UP100042AF04A | UniRef90_W7ZL02 | TLISPER LDEIVERTRKGGGEIVSLLGNGSATMHPL |
| JniRef90_K8E2C2 JniRef90_B4S9F1 E WM R E H P E V T E E S L I K V T D V R D A A Y K I I Q R K G S T H Y G I A I D S I V D R T R K G G A E I V N Y L K D G S A Y Y A P A D S I W G P H F T R P V P E M V H D N K W L S G E F V E V L K K E G E N A L M G S V J N I I S K K G A T Y Y A V G L D C G R R C S E K E A I F R E V R D S A Y N I I S K K G A T Y Y A V G L D R L A P D R L A A L I K R T Q D G G A E I V G L L K T G S A F Y A P S J N R C S E K E A I F R E V R D S A Y N I I S K K G A T Y Y A V G L D R C S E K E A I F R E V R D S A Y N I I S K K G A T Y Y A P A D R L A P D R L A A L I K R T Q D G G A E I V G L L K T G S A F Y A P A S T I N F T D E E K E N L Y L D T K N A A Y Q I I K A K G A T F Y G I A L D T K N A A Y Q I I K A K G A T F Y G I A L D T K N A A Q K I I S A K K S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T K R G S T T Y Y G I G M D T T K R G G S T T T Y T G T T T T T T T T T T T T T T | UniRef90_A7U552 | EL VK MGMUS QQEDDL VQRTRNGGGEL VSLLKTGSAFFAPA |
| JniRef90_F3ZYV6 | UniRef90_K8E2C2 | FWMRFHPFIVITFFSILLIKIVITDIVIRDAAYKILLIQRKGSTHYGILIAIL |
| JniRef90_F3ZYV6 | UniRef90_B4S9F1 UniRef90_A7RRY2 | L L S Q E K I D S L V D R T R K G G A E II V N Y L K D G S A Y Y A P A WGPHFTRPVPE MVHDNK WL S G E F V E V L K K E G E N A L M G S V |
| JniRef90_K9F412 | UniRef90_F3ZYV6 UniRef90_D8PJ09 | SVCII IOCGRRCSEKEAII IEREIVIRDSAVNII I ISKKGATVVAIVIGII I |
| JniRef90_R6NDY6 | UniRef90_D7WSG0 | KLMP QAQLEQLVERTRKGGGEIVALLGNGSAYYAPA |
| JniRef90_L7WTG8 | UniRef90_R9GY43 | STINFT DEEKENLY LDTKNAAY QITKAK GATFY GIAL |
| JNIKET9U_UP100042AF04A SILIN PAILIG T D S D K E G W K QILIH K Q E S A Y E II V R L K G Y T S W A II G L JNIRET9U UP1000379CB01 MILIA K D Q G V S R E FILIF K ILIF D E T R N K A Y E II L N R K G A T E Y G V A T | UniRef90_L7WTG8 | DTLKEQTGSEAKAQEIYEKTRDAAYEIIQAKGSTYYGI AL |
| | UniRef90_UPI00042AF04A UniRef90_UPI000379CB01 | SLNPALGTDSDKEGWKQI <mark>H</mark> KQESAYEIVRLKGYTSWAIGL MIAKDQGVSREELEKIEDETRNKAYEI <u>I</u> NRKGATFYG <u>V</u> AT |

| UniRef90_A6CLY3 UniRef90_K1VR37 | G |
|---|--|
| UniRef90_A0A033UL77 UniRef90_S2XMB0 UniRef90_Q0TUX8 | GLMRITKA I LNNQDVVLTVSAYLEGEYG HEGVYI GVPA AAVYEMVLAI LEDQKRVLPTIAYCQGEYQLNDI Y I GVPA AVTRI VEA I LRDENAI LTVSSLFEGQYGLDNVY LAMPT |
| UniRef90_UPI000287B187 UniRef90_G6A0R4 UniRef90_F4XXE6 | A A MV E M A E A I L K D Q R R V L P T I A Y L E G E Y G Q E G I Y L G V P T S S A I Q M A D A Y L K D K K R L L P C A A Y V D G A Y G L D G L Y V G V P V S S A C L MV E A I L H N Q S R Q I T A A A Y L Q G E Y G L Q D I F I G V P T |
| UniRef90_UPI00047E65A2 UniRef90_UPI00031D07F6 UniRef90_UPI000288388F | A A S A A V V E S I I R D E K R V I P C S V L L E G E Y G Q S D I C L G V P V A S M V Q M A E A I L K D K K R I L P T I A Y L E G E Y G Y K D L Y L G V P T A V T R I V K A I L G D E K T I L P V S T L V E N Y Y G I R D V Y L G L P C |
| UniRef90_T1AS32 UniRef90_H3AQL4 UniRef90_Q6G1M0 | A S Q A E L VK A I A R D E H R L L S A S A G L D G A F G E R D V Y I G V P V G V F C I P C F I L R N L Y I F N F L N L S K G M H G V N D D V F L S V P C A S A V S M A E A Y L K D T K R V V P V A A Y L S G Q Y G V K D T Y V G V P V |
| UniRef90_UPI0003768D30 UniRef90_J9HTD7 UniRef90_R2S6W6 | A S L A Q M A D A I I R D K K R L I P C A A H L T G Q F G I N D L Y I G V P I A S L A Q M A E S I L K D K R R L L P A I A Y L E G E Y G Y E D L F L G V P T A L A R I T R A I L N D E S A V F P L S V Y L E G Q Y G Q N D I Y I G A P A S V T N L V G S V L K N L S K V H P V S T L V K G L H G I K E E I F L S V P C |
| UniRef90_G5AKA2 UniRef90_UPI0003B726E3 UniRef90_C6HU27 | SVT NL VGS V L K NLS K V H P V S T L V K G L H G I K E E I F L S V P C L S A V E M A E A I L R D E K R V L T C S V W L E G E F G I R D V F L G V P V A A I Y S M I E S I L H D R H R I L P S S V L L E G E Y G I R G A F V G V P V |
| UniRef90_UPI0003C84111 UniRef90_T0LI72 UniRef90_P22988 | SVTDLVRSI LKNLRRVHPVSTMVKGLYGIKEEIFLSIP <mark>C</mark> AATLEMVESVLLDIKRILPVSA <mark>C</mark> VTGEYGLKDLY IGVPV SVASLAAS LLRDQRRVHPVSVLASGFHGISHEVFLSLPA |
| UniRef90_G9YP16 UniRef90_N0B400 UniRef90_F6I382 | AVERIVRATVR DEHSVLPVSNLLQGQYGID GL <mark>C</mark> MSIPA GLVRLTKA ILQNENSVLTVSAYLENKYG QDDVFIGVPA SVASLAR TILRDQRRIHPVSILAKGFYGIDDEVFLSLPV |
| UniRef90_U2DVD6 UniRef90_A9EZV5 UniRef90_Q3MDN9 | S V A S L A R T I L R D Q R R I H P V S I L A K G F Y G I D D E V F L S L P V S L A Q V T K A I L N D S N S I Y T I S S L V D D Y Y G V T D L Y I G I P C S A V A M A E S Y L L D Q K R L L P V A A Y L D G E Y G Y K D I F M G V P V S A T S L M V E S I L L N Q S R L L P V S V Y L Q G E Y G L K D V V I G V P C |
| UniRef90_R7EXD5 UniRef90_V4GU78 UniRef90_H3DEZ9 | SATSLMVESILLNQSRLLPVSVYLQGEYGL KDVVIGVPCAVRRIAEAIVR DEHTILPVSTVADGHYGID GVCLGLPCGLERI IEA VLRDQSTVLSVSSLIDD YYDLQDVCFSLPTSVGDLIESLM KNMSRIHPVSTMVQGMYGIGEEVYLSLPCAAMVEMAEAIIKDQKRVLPAIAYLEGEYGYEGIYLGVPT |
| UniRef90_F2F8Y3 UniRef90_R9C0T2 UniRef90_UPI000379EB44 | A A MV E M A E A I I K D Q K R V L P A I A Y L E G E Y G Y E G I Y L G V P T G L V R I T K A I L S N E N S V L T V S T Y L D G Q Y G E K D V Y I G V P A G V T D I V Q A I L R D Q S R I L T V S G Y I D D L Y G I K D V C L S L P T |
| UniRef90_F6YK35 UniRef90_W7YV58 UniRef90_U5Q298 | GVTDIVQA ILRDQSRILTVSGYIDDLYGI KDVCLSLPT SLADLAESIM KNLRRVHPISTMIKGFYGIKDDVFLSVAC ASLVQMTEAILKDKKRIIPVIARMEGEYGYN DIFFGVPA ANAAALVRAIVHDEKKVYPCCVSLEGEYY QNDVCIGVPC |
| UniRef90_UPI0003457D10 UniRef90_I0IPH8 UniRef90_A2E124 | A N A A A L VR A I V H D E K K V Y P C C V S L E G E Y Y Q N D V C I G V P C A T T D I V K A I L N S Q E R V L T V S G L M T G L Y G I E D I C L S V P R A A V Y L M I E S I L H D R H R V V P C S V Y L E G E Y G V Q G A F S G V P I A A L Q C M R D W T P A D N F V S M S V P V P F S S P Y G V K P G L F F S F P C |
| UniRef90_X5HMV3 UniRef90_R5TX92 UniRef90_H3NCR0 | A S L V Q M T E A II L K D K K R II I P V I A R M E G E Y G Y N D II F F G V P A A N A A A L V R A I V H D E K K V Y P C C V S L E G E Y Y Q N D V C I G V P C A T T D I V K A I L N S Q E R V L T V S G L M T G L Y G II E D II C L S V P R A A V Y L M II E S I L H D R H R V V P C S V Y L E G E Y G V Q G A F S G V P I A A I Q C M R D W T P A D N F V S M S V P V P E S S P Y G V K P G I F F S F P C A S A L E M A E S Y II E D Q K K T L I C S V I M K G R Y L V E D D I F S G II P V A L S R I T R A I L G D E N S V L T V S A M L R G E Y G Q N D V Y A G V P C A L A K I T Q A I F N N E N S V L P L S V L L E G E Y G H D D II Y II G T P A |
| UniRef90_E0R9S2 UniRef90_H1Z595 UniRef90_R6QQ96 | ALAKITQAIFN NENSVLPLSVLLEGEYGHDDIY IGTPA ALDRIVAA ILGDEGSVLNVSTLLED YNGVSDVYLGVPS AAVAHLVDSILHDRKKLIP <mark>C</mark> STLLEGEYG EQNIFIGVPC ALTRITKA IFQDENSILTVSS <u>MLI</u> GEFG_EQDVTIGVPA |
| UniRef90_N9Y5K7 UniRef90_V5XPB8 UniRef90_G2IIR6 | AVNNI VEALFR NSNSI LITVSTLFEGQYGISDMY LAIPT STTRI VKA LLNNEQAVLPVSAYLNGEYG EEDIFTGVPS TSALAMAFAYLGDOKRULPAAVHVDGKYGLDGUY VGVPV |
| UniRef90_X5DQK7 UniRef90_Q9GSY5 UniRef90_R5XUT7 | T S A L A M A E A Y L G D Q K R L P A A V H V D G K Y G L D G L Y V G V P V G M A R I S R A V L R N E D V V L P V S A L V D G Q Y G D A P A I Y I G T P A A S L Q H M K A W L F G T E E E V L S M G V P E S C P Y G I N P G V L F S F P C G L T K I K A I L N D E N E I L T V S T Y L D G Q Y N H D G I F I G V P A A A V S A L V Q A I A C D Q K K L F P C S V L L E G E Y G Q K D V C V G V P V G L V R I T K A I L R N E N V V L P V G A L L E G E Y G H S D V F V G I P S |
| UniRef90_C7M7P0 UniRef90_E5WGV7 UniRef90_UPI0004792E2D | A AVS AL VQ A I ACD Q K KL F P C S V L L E G E Y G Q K D V C V G V P V G V R I T K A I L R N E N V V L P V G A L L E G E Y G C C V G V P V G V R I T K A I L R N E N V V L P V G A L L E G E Y G C C S D V F V G V P V P |
| UniRef90_B3TGZ5 UniRef90_A3HXB3 | ALDRICTA ILKDEGAVLNVSTLLNDYHGISDVY LGVPCAASDHMRDWFLGTEDRWVSMGVVSDGSYGTPRDVVYSFPVSAAAQMVESILKNQRRVFPVCIKLDGEYGIDDCY LGVPV |
| UniRef90_101186 UniRef90_UPI0004701336 UniRef90_V2QGH6 UniRef90_C7RHY1 | A S L V Q M T E A V L K D K K R L P V I A L L E G E Y G Y D G L F M G I P A A S A I E M A E A I I K D Q K R V L A V C A Y L D G E Y G V N G Y Y V G V P A A L A R I V E S I I N D E N S V F S T S S Y L D G E Y G L K D L Y I G V P T S V A D L T E S I V K N L S R V H P V S T M V K D M F G I G E E V F L S L P C S S A V Q M A E S F L K N K K M M L P C A A Y L N G E Y G L K G L Y V G V P V G V P V A G V Q M A E S F L K N K K M M L P C S V A L N G E Y G L K G L Y V G V P V A A A A A R M I E T L L G D E R R L L P V A A Y L S G E Y G L R N I H M G V P V A A A A A R M I E T L L G D E R R L L P V A A Y L S G E Y G L R N I H M G V P V A S A V E M L E S Y L Q D K R Q I L T C A A Y L Q G E Y G L K D L Y A G S M P C S L V R I T K A L L K D E N A I L T V S A Y L D G E Y G A K D V C I G V P T A V A D I V E S L F F D E K R V L T L S V Y L E D Y L G V K D L C L S V P V L T R L V E A F L K D N K R I L P C A A Y C D G E Y G L D D L F I G V P V A A A A A E M T E A L K D N K R I L P C A A Y C D G E Y G L D D L F I S V P V A A A A A E M T E A L K D N K R V L P C A A Y C D G E Y G L D D L F L S L P C A A A A A E M T E A L K D N K R V L P C A A Y C D G E Y G L D D L F L S L P C A S A L A M A E S Y L K D K K R V L P C A A W L T G Q Y G V K D L Y L G T P A L S A C M M L E T L R N H S R M L P V S A L L K G E Y G L D D L F L G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A Y L K D R K R V L P C A A Y L N G E Y G V K D M Y V G V P C S S A L C M A E A L |
| UniRef90_C7RH11 UniRef90_P20373 UniRef90_UPI00037950E5 UniRef90_K9TQZ1 | SVADLTESI VKNLSRVHPVSTMVKDMFGIGEEVFLSLPC SSAVQMAESFLKNKKMMLPCASSIVGUNGEYGVGVPV |
| UniRef90_R9GXX6 UniRef90_Q7NHJ3 UniRef90_A8GWI0 | A G T A S MV E S I L R D E K K L I P C S V A L D G E Y G L T D I A L G V P V A A A A R M I E T L L G D E R R L L P C A A Y L S G E Y G L R N I H M G V P V |
| UniRef90_A8GWI0 UniRef90_G0SC13 UniRef90_J8T5M1 UniRef90_P16115 | SVLVHVLEPIITDSDAIMTVSRV GTYAGVQDVAVSMPC SLVRITK DENAILTVSAYLDGEYG AKDVCIGVPT |
| UniRef90_V9HD54 UniRef90_Q2S289 UniRef90_Q95028 | VLTRIVEA FLKDEKTVLSVSTLLNDYLGVNNTY LSVPT AAAAEMTEAILKDNKRILPCAAYCDGEYGLD DLFIGVPV |
| UniRef90_UPI00037A3125 UniRef90_UC2GE97 | A S A L A M A E S Y L K D K K R V L P C A A W L T G Q Y G V K D L Y V G V P V G L A R L T K A L F K N Q Y V A L L K G E Y G Q S D L Y L G T P A |
| UniRef90_W7ZL02 UniRef90_UPI0002E13971 UniRef90_A7U552 | SAT CMMIETILRNHSRML PVSALLQGEYGLN DLFIGVPC AAGVLMAEAYLKDRKRVLPCAAYLNGEYGVKDMY VGVPC |
| UniRef90_B4S9F1 | A CANIE MEDA A LICULO EN ALL LE CONTROL CONTROL LE CONTROL CON |
| UniRef90_A7RRY2 UniRef90_F3ZYV6 UniRef90_D8PJ09 | A V R R I |
| UniRef90_D7WSG0 UniRef90_K9F412 UniRef90_R9GY43 | A A T A T MVA A I L Q N Q S A I L P V S A Y L E G Q Y G L K D I Y L G V P C A L D R I C T A I L H N E A A V L N V S T L T D Y H G V S D V F L G V P C |
| UniRef90_R6NDY6 UniRef90_L7WTG8 | A MVRI TRA I LGDDHSVLTVSSMLHGEYG ERDVYAGTPCALLRISKALLNNENTILTVSSQLNGEYG FKDVYIGVPTSVMDLAGS MLKNLRRVHPVSTLVKGLYGIKEELFLSVPC |

| UniRef90 A6CLY3 | |
|--|----------|
| UniRef90_K1VR37 | |
| UniRef90_A0A033UL77 UniRef90_S2XMB0 | |
| UniRef90_Q0TUX8 | |
| UniRef90_UPI000287B187 UniRef90 G6A0R4 | |
| UniRef90_F4XXE6 | |
| UniRef90_UPI00047E65A2 | N |
| UniRef90_UPI00031D07F6 UniRef90_UPI000288388F | |
| UniRef90_T1AS32 | |
| UniRef90_H3AQL4 UniRef90_Q6G1M0 | |
| UniRef90_UPI0003768D30 | |
| UniRef90_J9HTD7 | D C F |
| UniRef90_R2S6W6 UniRef90_G5AKA2 | DSE |
| UniRef90_UPI0003B726E3 | |
| UniRef90_C6HU27 UniRef90_UPI0003C84111 | |
| UniRef90_T0LI72 | |
| UniRef90_P22988 | |
| UniRef90_G9YP16 UniRef90_N0B400 | |
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| UniRef90_A9L2V3 | |
| UniRef90_R7EXD5 | |
| UniRef90_V4GU78 UniRef90_H3DEZ9 | |
| UniRef90_F2F8Y3 | |
| UniRef90_R9C0T2 UniRef90_UPI000379EB44 | |
| UniRef90_UPI000379EB44 UniRef90_F6YK35 | |
| UniRef90_W7YV58 | |
| UniRef90_U5Q298 UniRef90_UPI0003457D10 | |
| UniRef90_I0IPH8 | |
| UniRef90_A2E124 | |
| UniRef90_X5HMV3 UniRef90_R5TX92 | |
| UniRef90_H3NCR0 | APE |
| UniRef90_E0R9S2 UniRef90_H1Z595 | LS |
| UniRef90_R6QQ96 | |
| UniRef90_N9Y5K7 UniRef90 V5XPB8 | |
| UniRef90_V3AFB6 | L |
| UniRef90_X5DQK7 | |
| UniRef90_Q9GSY5 UniRef90_R5XUT7 | LA |
| UniRef90_C7M7P0 | L |
| UniRef90_E5WGV7 UniRef90_UPI0004792E2D | |
| UniRef90_B3TGZ5 | |
| UniRef90_A3HXB3 | L |
| UniRef90_T0YIB6 UniRef90 UPI0004701336 | |
| UniRef90_V2QGH6 | N |
| UniRef90_C7RHY1 UniRef90 P20373 | |
| UniRef90_P20373 UniRef90_UPI00037950E5 | |
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| UniRef90_R9GXX6 UniRef90_Q7NHJ3 | M P |
| UniRef90_A8GWI0 | |
| UniRef90_G0SC13 UniRef90_J8T5M1 | V |
| UniRef90_J815W1 UniRef90_P16115 | V |
| UniRef90_V9HD54 | |
| UniRef90_Q2S289 UniRef90_Q95028 | |
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| UniRef90_C2GE97 | - |
| UniRef90_W7ZL02 UniRef90_UPI0002E13971 | |
| UniRef90 A7U552 | |
| UniRef90_A1ARG4 UniRef90_K8E2C2 | \Box |
| UniRef90_B4S9F1 | ī s |
| UniRef90_A7RRY2 | L |
| UniRef90_F3ZYV6 UniRef90_D8PJ09 | L |
| UniRef90_D7WSG0 | — — - |
| UniRef90_K9F412 UniRef90_R9GY43 | LTS |
| UniRef90_R6NDY6 | |
| UniRef90_L7WTG8 | L |
| UniRef90_UPI00042AF04A UniRef90_UPI000379CB01 | |
| | |

| | 4 40 20 20 40 |
|--|---|
| UniRef90_F2I3I4 | RKKI SLIGAGQI GGT LAHLIATKELA ODVVLE |
| UniRef90_R6WUD5 UniRef90_U6B8C4 | KI ALI GSGMI GGTMAH LASEKELG DEVEL |
| UniRef90_UPI00037EE0FB | RKKI ALIGAGNI GGTLAH LALLKNILG DVVLF |
| UniRef90_R60V85 UniRef90_B7JVP2 | H S L R V S V I G A G N V G R T L T Q R I A E K N L A D V V L L |
| UniRef90_UPI000273C4CA | KISVIGAGPVGMARAUS VLIRUTDDQLALV |
| UniRef90_S6AYD9 | KVILVGDGAVGSSYAFALVNQGL AQELGIV |
| UniRef90_P62050 | KVVLIGAGDVGVAYAYALVNQ GTVDHLAIII |
| UniRef90_R5GVV0 | RKVAMVGCGFVGSASAFALMQSKLF SEMVLI |
| UniRef90_S9R3S0 UniRef90_UPI00036A4130 | KII AII I GAGAVGATVAYASMI RGV AKNI AII Y |
| UniRef90_UPI00046B601E | KI TĀVĢVĢĀ Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā Ā |
| UniRef90_UPI0003B7A005 UniRef90_UPI00029A6D32 | SIGSKLAI VGAGSVGSILAY AALIRGLARSVALY |
| UniRef90_X5DAU6 | MKVTVVGAGAVGASCAEYLALK DFAEELVLV |
| UniRef90_T0N509 | RKKI SVI GAGNVGATVAQFVALKELGDVYLFDVVDGI |
| UniRef90_R7F3A2 | KVVIIG <mark>C</mark> GNVGMSYAYALLNQ RTY <u>V</u> NELVLI |
| UniRef90_R7B3C0 | KVTI VGAGNVGATAAHII ASKNLA |
| UniRef90_A2VHD9 UniRef90_UPI000219771A | PILIKIVIAIVIT GAGQII IGYSILLIFRILIAS GSILLIGPDRPILIEILIRILLI KIVI I VIGDGAVIGSTFAY AMTILOGII AQFILVI IC |
| UniRef90_R6C5E7 | KVIIIGCGNVGMSYAFSLLNQN TSVNELVLI |
| UniRef90_R6CBK8 | MSSKI TI I GAGSVGST LAYSI I IN QGL O ASEI VLI |
| UniRef90_U3Q6A2 | MKI TI I GAGNVGAS <mark>C</mark> ASLLAQKDI VKK SEI VLL |
| UniRef90_Q55383 | QVTVVGAGNVGRTLAQRLVQQNVAN |
| UniRef90_I2K9G7 UniRef90_R9LNS2 | K G K K IV IT IV I IG A G N IV IG A T IV IA F II I <mark>C</mark> A M N G I <mark>V IC H H</mark> L V L IR R K II MIL I IG T G F IV IG M S F A Y S IL II N F R G II D F II V I V I |
| UniRef90_C5CGP2 | MKVSI I GAGMVGSSTAYATMIKGVI AREI ŠI V |
| UniRef90_R7HGQ8 | KIVAIIGCGNVGMSYAYSLLNQ STPVNELVLI |
| UniRef90_U2FTZ3 | MKIAVIGAGNVGVSI <mark>C</mark> DYI LLMGS <mark>C</mark> SELVLV MRSKISVIGAGNVGATVAOEIAUKDIGDVVIEDVVDGV |
| UniRef90_UPI00040F5D5A | RKVAVVGCGFVGSASAFALMESGLF SEMVLI |
| UniRef90_R5I5E8 UniRef90_R5XC55 | M S S K I T I I I G A G S V G S T I A Y T L A H D E I L A S E I V L I L K V A V L I G V G M V G M S F A Y A A I N O N L C D F I L L L L |
| UniRef90_W0THK6 | KVÁĽMGÁGRVGÉTTÁQILA EQÉT <mark>C</mark> R |
| UniRef90_UP100046F2452 UniRef90_R5MSF8 | KIALVGTGFVGMSFAY AMLCESVCDELVLI |
| UniRef90_R6ZIB9 | RKVGIVGCGFVGAASAFCLMQSGLF SEMVLL |
| UniRef90_G4CLV3 | 1 |
| UniRef90_UPI00047DCF94 UniRef90_G2D928 | E I V I V I K I T I V G A G R V I G E T T A Q M I A E A E I I <mark>C</mark> R F I V I M I V I |
| UniRef90_R6HRR9 | MKVGI LGAGSVGSTTAFALTMRGV ARKVVLI |
| UniRef90_A0A059MR00 | SRKSKVSI VGAGSVGTAVAY ACLIRGSADSLALF |
| UniRef90_K9SRM3 UniRef90_A0A023C7O0 | SHPV VSVIGAGNVGSTLAQRIVEKNLA DVILL KVILVGDGAVGSSYAYAMAIOGV |
| UniRef90_P62054 | KVILVGDGAVGSSYAYAMALQGV AEEFGIV KVVLIGAGSVGTSFLYAAINQGIAEHY VLI KAVMIGCGFVGSASVFALMQSGLFT EIALI RKVAVIGCGFVGSTCAFSLMQSSLF SEMVLI |
| uniket90_R5NYU5 UniRef90_R5FYY8 | K A V M I G C G F V G S A S V F A L M Q S G L F T E L A L T R K V A V I G C G F V G S T C A F S L M Q S S L F S E M V L I |
| UniRef90_UPI000273D9D7 | |
| UniRef90_K6QEQ3 | RLGVVGCGAVGSTFAYTALIRGL AQELVL |
| UniRef90_U2XUN0 UniRef90_B4LKK3 | RKKII ALLI GGGQII GGTLAH LAGLKELGDVVI F KVSVI GSGAVGMG <mark>C</mark> AI SLLAKGVTNH I AI V |
| UniRef90_S2XH58 | KVVL VGNGAVGASYAFTMVSQGV |
| UniRef90_E3BRJ6 | KVL VGDGAVGSSYAF AMVQQGIAQELGIV |
| UniRef90_A9FSL2 | PSKVAI VIGAGSVIGATIJAY ACLLIRGVIAKQI IALF KTRKVAI VIGVIGI VIGSSCAYSI VINOSIIC DEI I VI |
| UniRef90_F4A3L9 | RKVALVGTGPVGASCAFALINQCMC EELLM |
| UniRet90_W8BJU3 UniRef90_G2SRC0 | |
| UniRef90_L9KRK0 UniRef90_D2NTC0 | T L V G V G Q V G M A C A I S L A K S L A H E L A R V R L G V V G C G A V G S T F A J T A L I R G L A Q E L V L I R K K I A L I G G G Q I G G T L A H L A G L K E L G D V V I F K V S V I G S G A V G M G C A I S L L A K G V T N H L A L I Y I I Q C M C A S Y A F T M V S Q G V A D E L V I I I Q P L H I W I V S A S S V C N N L I P L C T G E I F G S E T E V S L H L L K V I L V G D G A V G S S Y A F A M V Q Q G I A Q E L G I V P S K V A I V G A G S V G A T I A Y A C L L R G V A K Q I A L F K T R K V A I V G V G S S C A Y S L V N Q S I C D E I L L V R K V A I V G T G P V G A S C A F A L I N Q C M C E E I L M I K V M L V G D G A V G S S Y A Y A M A L Q G I A E E F G I I A L V C M C A G S V G S S Y A Y A M A L Q G I A E E F G I I A L V C M C A G G V G S S Y A Y A M A L Q G I A E E F G I I A L V C M C A G G V G S S Y A Y A M A L Q G I A E E F G I I A L V C M C A G G V G S A T A Y A M A L Q G I A L V L Y L Y L Y L Y L Y L Y L Y L Y L Y |
| UniRef90_W2STE0 | P T K L G V I G A G G V G S A T A Y |
| UniRef90_UPI0002F90DBE UniRef90_H3SI 21 | KIV V L VIG D G A IV IG S S Y A F A M M Q Q Q IV A D E L V I V I V I K R A KII TII A G S G N V G A T IT A HITT V I K G II G D V V I V |
| UniRef90_R7AGX3 | KRAKITI AĞŞĞNVĞATTAHLTVLKĞL GDVVLY |
| UniRef90_B0PC22 UniRef90_F8IBN2 | K C A V I G C G A V G A T T A F T L L K S G L F S E L V L L R H K I T V I G S G A T G A T T A H M L A L K E L G D V V L V |
| UniRef90_W4CU84 | RHKITVI GS GATGATTAHMLALKEL GDVVLV SKSRKVAIVGAGMVGSS CAYS MVN QAIC DEI MMI KIVLI GAGDVGLAYAYTLVN QGL TDHLAII SPGRKISII GAGAVGTSLAY AALIR GVARTVALM KVALVG CGLVGSTTAFSLVT QGV VDEVLMI NTFDELVLV |
| UniRef90_L7L6M4 | SPGRKI SI I GAGAVGTSLAY |
| UniRet90_R7BEX1 UniRef90_Q7NG49 | K <u>[V] A V G C G L V </u> G S T A F S <u> L V</u> T Q G <u> V </u> |
| UniRef90_M3I535 | KIILVGDGAVGSSYAFALINQGI AQELĞİİ |
| บแหย่เขบ_หงศัจธิช UniRef90_L8LRM7 | A C A Y S L M Q S K L F T D M V L T L T Q N C F D E L L L Q |
| UniRef90_T1EM25 | S P G R K I S I I G A G A V G T S I A Y |
| UniRef90_E6LF27 | S S K S K V A I V G S G L V G S S T A F S L I T Q G V C D E V L MI |
| UniRef90_W0HVM1 UniRef90_UPI0003661FA7 | S S K S K V A I V G S G L V G S S T A F S L I T Q G V C D E V L M I K P R K V M I I G T G N V G A S A A Y A L L N Q Q I G E E L I L V M G K K V T V V G A G F Y G S T T A Q R L A E Y N I F D T V V L T R K C A M V G C G F V G S A S V Y A L M Q S G L F S E I V L I |
| JniRef90_UPI0003B34D57 | RKCAMVGCGFVGSASVYALMQSGLF SEV <u>VLI</u> |

| UniRef90_F2I3I4 UniRef90_R6WUD5 UniRef90_U6B8C4 UniRef90_UPI00037EE0FB UniRef90_B7JVP2 UniRef90_UPI000273C4CA UniRef90_UPI00039C92C4 UniRef90_B7JVP2 UniRef90_P62050 UniRef90_P62050 UniRef90_R7NS51 UniRef90_R5GVV0 UniRef90_UPI00036A4130 UniRef90_UPI0003BA4130 UniRef90_UPI0003BA4130 UniRef90_UPI0003BA4130 UniRef90_UPI0003BA4032 UniRef90_UPI0003BA4032 UniRef90_UPI0003BA4032 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_P7F3A2 UniRef90_R7F3A2 UniRef90_R7F3A2 UniRef90_R7B3C0 UniRef90_R7B3C0 UniRef90_R7B3C0 UniRef90_R7B3C0 UniRef90_R7B3C0 UniRef90_R6C5E7 UniRef90_R6C5E7 UniRef90_R6C5E7 UniRef90_R6C5E7 UniRef90_R6C5E7 UniRef90_UPI0003B68296 UniRef90_UPI0003B68296 UniRef90_UPI0003B68296 UniRef90_UPI0003B68296 UniRef90_UPI0003B68296 UniRef90_UPI0003B68296 UniRef90_UPI00040F5D5A UniRef90_R5HGQ8 UniRef90_UPI00040F5D5A UniRef90_UPI00040F5D5A UniRef90_UPI00040F5D5A UniRef90_UPI00040F5D5A UniRef90_UPI00040F5D5A UniRef90_UPI00040F5D5A UniRef90_UPI0004F2452 UniRef90_R5MSF8 UniRef90_UPI00047DCF94 UniRef90_R6HRR9 UniRef90_G2D928 UniRef90_G2D928 UniRef90_G2D928 UniRef90_G2D928 UniRef90_G2D928 UniRef90_G2D928 UniRef90_UNIREF90_UNIR | N |
|--|--|
| UniRef90_A0A059MR00 UniRef90_K9SRM3 UniRef90_A0A023CZQ0 UniRef90_P62054 UniRef90_R5NYU5 UniRef90_R5FYY8 UniRef90 UP1000273D9D7 | DIV VASRSQGIVAL DL MQARALENH DRQI I GT DDYH T K DS DIV DIV VKERTEGDAL DL A DA TALTYPKKI YSAEYSD CKDADL DAFPQPAEGNAL DL SDTLAVIPHFTSI KAGSYED CKDADV DADRNKAEGEAMDI SHGIP FASPMRI YAGDYDD VADAGI DVNTARAEGEAL DLAHGVPYYSPMNI YAGT YEDLANSI |
| UniRef90_G1MBW7 UniRef90_G1MBW7 UniRef90_G6QEQ3 UniRef90_U2XUN0 UniRef90_B4LKK3 UniRef90_B3LK53 UniRef90_B3RJ6 UniRef90_B3RJ6 UniRef90_UPl00041A92B2 UniRef90_UPl00041A92B2 UniRef90_W8BJU3 UniRef90_G2SRC0 UniRef90_USSRC0 UniRef90_USSTC0 UniRef90_USSTC0 UniRef90_USSTC0 UniRef90_UPl0002F90DBE UniRef90_W2STE0 UniRef90_W2STE0 UniRef90_W2STE0 UniRef90_W2STE0 UniRef90_W2STE0 UniRef90_W2STE0 UniRef90_W2STE0 UniRef90_UPl0002F90DBE UniRef90_W2STE0 UniRef90_UPl0002F90DBE UniRef90_UPl0002F90DBE UniRef90_B0FC22 UniRef90_B0FC22 UniRef90_F8IBN2 UniRef90_F8IBN2 UniRef90_B0FC22 UniRef90_B0FC22 UniRef90_W4CU84 UniRef90_B0FC22 UniRef90_B0FC22 UniRef90_W4CU84 UniRef90_B0FSX1 UniRef90_W4CU84 UniRef90_B0FSX1 UniRef90_UNIG49 UniRef90_UNIG49 UniRef90_UNIG49 UniRef90_BBBRW7 UniRef90_BBBRW7 UniRef90_BBBRW7 UniRef90_BBBRW7 UniRef90_BBBRW7 UniRef90_BBBRW7 UniRef90_BBBRW7 UniRef90_UPl00030661EA7 UniRef90_UPl0003661EA7 | D V LE D K L K G E M M D L Q H G S L F P Q T P K V V A D K D Y S V T A N S K I D T N R E K A L G D A L D M S H G A P F L P P C R V V A G D Y P D L A G C Q V D T V D G V P Q G K A L D L A Q S S T V S H P D A N L K G E Y S D C G D A D L D N S R V D I N E K L C K A E S L D L Q H G S L F L N N C N L E P T C N V E A T K D S R V D I N K D K V L G D V L D L N H G A P Y A E S P V K V K A G E Y S D C G D A D L D D D N T R D L L F A L Q M E A E D L A Y P L L R K V T V H T D L R E A F S D A K D A D L D L N R T K G D A I D L S D A T P W I A P K N I Y S A E Y S D A K D A D L D L N R T K G D A I D L S D A T P W I A P K N I Y S A E Y S D A K D A D L D L N R T K G D A I D L S D A T P W I A P K N I Y S A E Y S D A K D A D L D L N R G A Q S S L Y L R T K V K V G T Y E E C K D V D D N T R S K S K G E T L D L S H A L E Y M P L R T K V K V G T Y E E C K D V D D N T S K S K G E T L D L S H A L E Y M P L R T K V K V G T Y E E C K D V D D N T S K S K G E D A L D L L D A T G Y T Y P K K I Y S A E Y S D A K D A D L D N T S K S K G E M D L L D A T G Y T Y P K K I Y S A E Y S D C K D A D L D N T S C K D V Q Q G S L Y L R D A V L I G N T D Y K A S E D S A V L D L N R F K G E M M D L Q H E S V F L Q T P K K I Y S A E Y S D C K D A D L D N T S C T A G S N L D L D A T G Y T Y P K K I Y S A E Y S D C K D A D L D N T S C T A G S N L D L D A T G Y T S P K K I Y S A E Y S D C K D A D L D N T S C T A G S N L D L D A T G Y T S P K K I Y S A E Y S D C K D A D L D N T S C T A G S N L D L D A T G Y T S P K K I Y S A E Y S D C K D A D L D N T S C T A G S N L D N T S D C S D D L E L L R D C D M L D N T S C T S D C S D D L E L L R D C D M L D L D A T G Y T S P K K I Y S A E Y S D C K D A D L D N T S C T S D C S D D L E L L R D C C S D A D L D L D A T G S T S D C S D D L E L L R D C C S D A D L D L D A T S D C S D D L A D L D L D T S D C S D D L A D L D L D T S D C S D D L D L D A S D C S D D L A D L D L D T S D C S D D L D L D C S D D L D L D L D S D C S D D L D L D L D S D C S D D L D L D C S D D L D L D C S D C S D D L D L D C S D C S D D L D L D C S D |

| UniPoton Falaid | 90 100 110 120 |
|--|---|
| UniRef90_F2I3I4 UniRef90_R6WUD5 | |
| UniRef90 U6B8C4 | CI VITAGII PRKSRDDILLISDNILINSII IEKIVIAAGII IRKYAPN SFIV |
| UniRef90_UPI00037EE0FB | VIVTAGVPRKPGMSRDDLNAKVMKAVGEGIKNNCPNAFV VVITAGVTQKPRLDLTARDTVIMKSVTEQIMASGFDGILV |
| UniRef90_R6UV85 | V V I T A GVT Q K P R L D L T A R D T V I MK S V T E Q L MA S G F D G I L V |
| UniRef90_B7JVP2 | VVIITAGRPRTSRDDILLIAII INAKII VVINSAKEAII IKYSPNAII IFILI |
| UniRef90_UPI000273C4CA | I I I TAGICQEKTQDLVYGNVEIFKSVIPSIVQYSPNCI I VI TAGVPGEDRLSLLNRNAVVFRAIAEQLDRHAPD ALL |
| UniRef90_UPI00039C92C4 UniRef90_S6AYD9 | I V I T A G V P G E D R L S L L N R N A V V F R A I A E Q L D R H A P D A I L V V L T A G A P Q K P R L Q L V E K N L R I N K D V V T K I V A S G F N G I F L |
| UniRef90_P62050 | VVI CAGAPGET RLQL VEKNERI MKSI VDNVMAN NFDGIF |
| UniRef90_R7NS51 | VVI <mark>C</mark> AGAPOKSRPEILIKKNTEIVIEKSILVIAPIV <mark>C</mark> ESGEKGILIEIL |
| UniRef90_R5GVV0 | I VI TAGAPEETRIDLIQKNAKI MRSI I GEI KKR DFEGI L I VI TAGAPGQTRMELAEANVAL CRSL VPQL LKVAPDAL L CI VTAGVPRKPGMSRDDLNLKVMEQVGAGI KKYAPD AFV |
| UniRef90_S9R3S0 | LVITAGAPGQTRMELAEANVAL <mark>C</mark> RSL <u>V</u> PQL LKVAPDAL LL |
| UniRef90_UPI00036A4130 | CI VITAGIVPRKPGMSRDDLINLIKVMEQVGAGIIKKYAPD AFV |
| UniRef90_UPI00046B601E UniRef90_UPI0003B7A005 | VIITAGARQQEGENL VQCNVNIFKFI IPNVVKYSPNCK LIAVTAGAPGQTRLDLAASTTKLMRTLMPQL VEVAPDALIVWII MLAATEKSRLDLLRANGPI YESHGQAI ERVAPR ARVAVITSGLPRKPGMTREELNAGI VKDVAEKLIAESPN VII |
| UniRef90 UPI00029A6D32 | WI I MLAATEKSRLDLLRANGPI YESHGQAI ERVAPR ARV |
| UniRef90_X5DAU6 | AVITSGIPRKPGMTREELINAGIVKDVAEKLIAESPN VII |
| UniRef90_D4L5E6 | VVII <mark>C</mark> AGAPIESKILIQILLIQKNAIVVIFSSIIVIPKIVVIQSGFEGII IFILI |
| UniRef90_T0N509 | I V I T A G K P G M S R D D L L N K N V E I M S D V A R N V K K Y S P N S K V |
| UniRef90_R7F3A2 | V V I A A G A P G E T R M D L I H K N S K I F K G I V S K V V E S G F H G V F L V V I T A G A A Q K D R L D L V A K N L Q I V K S I V D E V M K S G F D G I F L |
| UniRef90_M3J7P0 UniRef90_R7B3C0 | VVI TAGKPGMTREDLLGVNSGI MSSVIDEAIKYSPDAIYI |
| UniRef90 A2VHD9 | SAL L VGARPRERS DL LEANGAI FT A QGKALNAVA A D DVRV |
| UniRef90_UPI000219771A | V V I T A G A P Q K P R L D L V N K N L N I L K T I V D P I V E S G F N G I F V |
| UniRef90_R6C5E7 | IVIAAGAPGETRMDIINKNSKIIFKSIITEIVMKN DEKGYE |
| UniRef90_R7A677 | VIITASAPMNNRÜEMLKPSTQIMKSIVSSVMDSGFSGTFT VIIT <u>SGK</u> PGQTRLELAQ <u>T</u> NVNILKDITPKLVK <u>E</u> APNALYV |
| UniRef90_R6CBK8 UniRef90_U3Q6A2 | V |
| UniRef90_UPI0003B68296 | V V F T S G V P G Q S R L D L T Q T N V D I T K S V I P Q I T K A A P N A L Y V |
| UniRef90_Q55383 | V V I T A G <u>L </u> P R R P G M S <u>R D</u> D <u>K</u> N A N <u>V </u> A Q <u>G A</u> R E <u>A L </u> R Y S P N A I <u>L I</u> |
| UniRef90_I2K9G7 | V V I T A G S P R M S R D D I I MI N A F I T K F V V A D V K K Y A P D S I I |
| UniRef90_R9LNS2 | V V L T A G A P G Q S R L E L V K I N A N I T K G I C T A L K E N G F N G I L I V V L T A G K P G E T R L Q L L K S N A K I I S S I V E S C L K Y S E N P I I |
| UniRef90_C5CGP2 UniRef90_K6WMW2 | V V I T A G K P G E T R L Q L L K S N A K I T S S I V E S C L K Y S E N P I I V V F T A G A P G Q S R L E L A E A T L G L T K K I L P G V L E V A P N A L Y I |
| UniRef90_R7HGQ8 | I VI A A G A P G E T R M D L I Y K N A K I F K E I I N S V M K S G F D G Y F L |
| UniRef90_U2FTZ3 | VIIITAGARDQTRDEILIASII INAEII ITII IDII IAREIVIERYAPDAILLI |
| UniRef90_T0N605 | I VIII A GKPGMSRDDII I AKNII AII I IADIVIAKNIVIKKYSPESIVI VI |
| UniRef90_UPI00040F5D5A | V V L A G A K P G E I R L D L V K K N V S I F K S I I P E I A K Y N I E G L L |
| UniRef90_R5I5E8 UniRef90_R5XC55 | V |
| UniRef90_K3XC33 UniRef90_W0THK6 | VVIITAGII IPPK PCMS PS DIVINIVIAII II IDSII VIDDII II IPVA PD — A MIV |
| UniRef90_UPI00046F2452 | VIIITAGIVIPGETRII IDILLIKRNII IEIVIFYSII VIPKII VIEY NRD <mark>C</mark> III |
| UniRef90_R5MSF8 | VVI CAGVPGEDRLSLLQRNTEVFKTI I SPI I YSGFNGI F I VVTAGAPEETRLDLVHKNVEI FKNI I PQI AQR DYQGI L |
| UniRef90_R6ZIB9 | I V V T A G A P E E T R L D L V H K N V E I F K N I I P Q I A Q R D Y Q G I L V V I T A G A P Q K P R L D L V N K N L K I L S S I V K P V V E S G F D G I F V |
| UniRef90_M5AYJ3 UniRef90_G4CLV3 | V V I T A G A P Q K P R L D L V N K N V K I L S S I V K P V V E S G F D G I F V V C I C A G V P Q R P R L D L I D N N L K V F H S I V G E V M N V G F D G I F L V I I T A G A P G E T R L D L I S K N Y K I M G S I V P E V V K Y S P N S I L I V V T A G A P G E T R L D L I S K N Y K I M G S I V P E V V K Y S P N S I L I V V T A G A P G E T R L D L I S K N Y K I M G S I V D N A L Q Y A P Q A M M L I V V T A G A P G E T R L D L I S K N Y K I M G S I V D N A L Q Y A P Q A M M L I V V T A G A P G E T R L D L I S K N Y K I F E S I V D N A L Q Y A P Q A M M L I V V T A G A P G E T R L D L I S K N Y K I F E S I V P O L A Q Y A P Q A M M L I V V T A G A P G E T R L D L I S K N Y K I F E S I V P O L A Q Y A P Q A M M L I V V T A G A P G E T R L D L I S K N Y K I F E S I V P O L A Q Y A P Q A M M L I V V T A G A P G E T R L D L I S K N Y K I F E S I V P O L A Q Y A P Q A M M L I V V T A G A P G E T R L D L I S K N Y K I F E S I V P O L A Q Y A P Q A M M L I V T A G A P G E T R L D L I S K N Y K I F E S I V P O L A Q Y A P Q A M M L I V T A G A P G E T R L D L I S K N Y K I F E S I V P E V K Y S P N S L I L I V T A G A P G E T R L D L I S K N Y K I F E S I V P E V K Y S P N S L I L I V T A G A P G E T R L D L I S K N Y K I F E S I V P E V K Y S P N S L I L I V T A G A P G E T R L D L I S K N Y K I F E S I V P E V K Y S P N S L I L I V T A G A P G E T R L D L I S K N Y K I F E S I V P E V K Y S P N S L I L I V T A G A P G E T R L D L I S K N Y K I F E S I V P E V T A G A P G E T R L D L I S K N Y K I F E V T A G A P G E T R L D L I S K N Y K I F T A G T A |
| UniRef90_UPI00047DCF94 | VĪITAGĀPĒETRLDLISKNĪKI MGSI VPĒVVKŢSPNSII L |
| UniRef90_G2D928 | I V V T A G V P R K P G M S R S E V N L G V L D G I V D N A L Q Y A P Q A M M L |
| UniRef90_R6HRR9 | |
| UniRef90_E0IGK3 UniRef90_A0A059MR00 | IVL <mark>C</mark> AGASPKPGDTRLDMAYAIYKDMIPQMMASGFDGLIV IVVTAG <u>A</u> PGQSRLELAA <u>A</u> NVRIVQELT <u>P</u> ALLALSPD AVV |
| UniRef90_K9SRM3 | I V I T A G V P R K D G M S R D D L N A K I V S E V T L R A I S H S P N A V I |
| UniRef90_A0A023CZQ0 | VVIITAGAPOKPRII IDII VINKNII IKII II ISSII VIKPIVVIDSGEDGII IEII I |
| UniRef90_P62054 | V V I TAGRPQKPGETRLEMNAEI MKNI ATEVKKSGFDGI TVVVI SAGAPGETRLDLVNKNVAI FKSI I PEI AKR NFSGI LVVI AAGAPGETRLDLLQTNVSI LKEVVSSI MKQHFNGI I VVI VTAGARQQERLTLVQRNVAI MKSI I PTI VHYSPDCK I VVVTAGLCQQQGDNLVQKNVNVFF I I PQVVKYSPDCL LI |
| UniRef90_R5NYU5 UniRef90_R5FYY8 | V I I S A G A P G E T R L D L V N K N V A I F K S I I P E I A K R N F S G I L V V I A A G A P G E T R L D L L Q T N V S I L K E V V S S I M K Q H F N G I I V V I V T A G A R Q Q E R L T L V Q R N V A I M K S I I P T I V H Y S P D C K I V V V T A G L C Q Q Q G D N L V Q K N V N V F F I I P Q V V K Y S P D C L L I V V V T A G L C Q Q G D N L V Q K N V N V F F I I P Q V V K Y S P D C L L I V X Y Y S P D C L L I V X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y |
| UniRef90_UPI000273D9D7 | VIVITAGARQQERILITIL VIQRNIVIAII IMKSII I PTII VIHYSPDCK |
| UniRef90_G1MBW7 | V V V T A G C C Q Q Q G D N L V Q K N V N V F F I I P Q V V K Y S P D C L I I |
| UniRef90_K6QEQ3 | VVI A A GIVIP G E I RILIQIL LIQIR N A QIVIM A E IV VIP A II VIR H A P D A II L |
| UniRef90_U2XUN0 | VIVIAGVPRKPGMSRDDLNLKVMSQVGDGIKKYAPK AFV |
| UniRef90_B4LKK3 UniRef90_S2XH58 | VIVACGARVKKNETRLQVAQKIIKSVIPDLVQQSPKAVYI |
| UniRef90_32AH36 UniRef90_H3AA37 | VIVACGARVKKNETRLQVAQKIIKSVIPDLVQQSPKAVYIIVICAGAPQKTRLDLVEKNAKIYKDLITSIMDSGFDGIFL |
| UniRef90_E3BRJ6 | VVISAGAPQKPRLDLVNKNLKI LSALVEPI VESGFKGI FLI |
| UniRef90_A9FSL2 | VVITAGAPGQSRMDLATANVALCRELLPRLLAVAPDALYL |
| UniRef90_UPI00041A92B2 | V V I T A G A P G Q S R M D L A T A N V A I C R E L L P R L L A V A P D A L Y L V V L S A G A P G G T R L D L L E S S F A I Y R E L V P R I M A G G F D G I F V V V I T A S A P P K P N Q T R L D T S S K I C T S I V E P I M K S G F D G F F I |
| UniRef90_F4A3L9 UniRef90_W8BJU3 | CITTAGEROKKRUDLIKTNVKI ITOI VPPI VKYSPFTI II |
| UniRef90_G2SRC0 | VVITAGAPQKPRLDLVNKNLRILSTIVKPVVDSGFQGIFL |
| UniRef90_L9KRK0 | V V M T A G V R Q Q E G E N L V Q R N I N V F K F I V P Q I V K Y S P D C I I |
| UniRef90_D2NTC0 | DVI I D DVI L Q E |
| UniRef90_W2STE0 UniRef90 UPI0002F90DBE | VI TAGIVER KOREKIL SIL VIUKNINII LIKKII I PEL VIKYSPE I ILI |
| UniRef90_UPI0002F90DBE | I I VITAGKPGMSRDDL I DTNIVNI VIKOVVRFII TPYSPHALLI |
| UniRef90_R7AGX3 | Į V V T A Ğ A P Ğ E T R L D L V N K N V G I F K Š I I P Q I R E S G F K G I L |
| UniRef90_B0PC22 | IVITAGAPGETRUDLVRKNVRIFQSIVPQLTRH NRDSIL |
| UniRef90_F8IBN2 | UVVTAGMPRKERNDLLIKUNAEVVIHNVVAAAAKUSPEAVLV |
| UniRef90_W4CU84 UniRef90 Q4JY42 | V V I T A G A P Q K P R L D L V N K N L R I L S T I V K P V V D S G F Q G I F L V M T A G V R Q Q E G E N L V Q R N I N V F K F I V P Q I V K Y S P D C I I V I I T A G A R Q K P G Q P R L E A N V A I L E K L L P N I L S V A P N A I I V I T A G A R Q K P R L D L V N K N M K I L E S I V T P V V D S G F K G T F I V T A G V P R K P R L D L V N K N M K I L E S I V T P V V D S G F K G T F I I V T A G K P G M S R L D L L D T N V N I V K Q V R E I T P Y S P H A L L I I V T A G A P G E T R L D L V N K N V R I F Q S I V P Q I T R H N R D S I L I V T A G A P G E T R L D L V R K N V R I F Q S I V P Q I T R H N R D S I L I V V T A G M P R K E R N D L L K V N A E V V H N V V A A A A K V S P E A V L V V I L T A G A P G E T R L D L V A K N T A I F K T L V G D V M S H G F N G I F L V I T A G A P G E T R L D L V A K N T A I F K T L V G D V M S H G F N G I F L V I T A G A P R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I L I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I L I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I L I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I L I T A N I C K S I V V M E S G F D G I F V V I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I L I T A N I C K S I V V M E S G F D G I F V V I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I L I L T A N I C K S I V V M E S G F D G I F V V I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L L I L T A N I C K S I V V M E S G F D G I F V V I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A A R Y V V I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A A R Y V V I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M T T |
| UniRef90_L7L6M4 | VIFTAGAPGQTRLELAEATITELVRTAIIPPI VIFVAPAARYV |
| UniRef90_R7BEX1 | V V T T A G A P P K P G Q S R L D T L E L T A N C K S V V M E S G F D G I F |
| UniRef90_Q7NG49 | V V I T A GAR Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A L L |
| UniRef90_M3I535 | V V I T A G V P Q K P R L D L V D K N L A I N K S I V T Q V V E S G F D G I F L V I I T A G A P G E T R L D L V Q K N V A I F K T I V P R I M E Q G F D G I F L |
| UniRef90_R6H8B8 UniRef90_L8LRM7 | VIIITAGAPGETRILIDIL VIQKNIVIAII FKTII VIPRII IMEQGEDGI FILI VIIITAGAPGESRILINIL LIERNIVISII FRHII LISDIV VIKY <mark>C</mark> PN AII L |
| UniRef90_T1EM25 | V V I TAGVP Q K P R L D L V D K N L A I N K S I V T Q V V E S G F D G I F L V I I TAGAP G E T R L D L V Q K N V A I F K T I V P R I ME Q G F D G I F L V I I TAGAP G E S R L N L L E R N V S I F R H I L S D V V K Y C P N A I L C V V T A G A K G E T E E Q L L E K N I N V F K S I I P N I I K Y S P D C T L I |
| UniRef90_UPI0002D2BE4A | V C C A G A P G E T R L D L V A K N T A I F K T I V G D V M S H G F N G I F L V I F T A G A P G Q T R L E L A E A T I E L V R T A L P P I V E V A P A A R Y V V V I T A G A P P K P G Q S R L D T L E L T A N I C K S I V V M E S G F D G I F V V I T A G A R Q R E R L S L V Q R N V E I F R G L I G E I M E H C P N A I L V V I T A G Y P Q K P R L D L V D K N L A I N K S I V T Q V V E S G F D G I F L V I I T A G A P G E T R L D L V Q K N V A I F K T I V P R I M E Q G F D G I F L V I I T A G A P G E S R L N L L E R N V S I F R H I L S D V V K Y C P N A I L C V V T A G A K G E T E E Q L L E K N I N V F K S I I P N I I K Y S P D C T L I V M F T A G A P G Q T R I E L A E A T I G L V K K V L P E L V A V A P D A T Y V L V I T A G A P P K P G Q S R L D M T A N I A K S I V E P V M A S G F D G I F I |
| UniRef90_E6LF27 | VMFTAGAPGQTRIELAEATIGLVKKVLPELVAVAVAVVLVITAGAPGQTRIELAEATIGLVKKVLPELVAVAVAGAPGATYVLVITAGAPPKPGQSRLDMTANIAKSIVEPVMASGFDGIFIAVITVSKPGQTRLDELDATAGIVGQIVPQMMAGGFNGIFLVVITAGKPGMSRMDLIEVNAKIVRSVAENVAKHAPE AVIVIVTAGAPGETRLDLVKKNVGIFKSIIPQIAAV NQDCLL |
| UniRef90_W0HVM1 | ANTITUS KPGQIRLIDELIDA IAGIIVIG QIIVIP QMMA GGFNGIFLI |
| UniRef90_UPI0003661EA7 UniRef90_UPI0003B34D57 | VIVITAGAPGETRIDI VIKKNIVIGII EKSII IPOII AAVI NOD <mark>o</mark> i I |
| 51X6130_01 10003D34D37 | - v i vi voni oe i velole vik k nivoli li k oli <u>i l</u> e kii ja a <u>vi</u> n kid <u>oli</u> e |

| | | | 130 | | 140 | | 150 | 160 |
|------------------------|---------------------------------|---|-------------------|---|-------------|-----------------------------------|--|--|
| UniRef90_ | | ICITNPL | V I V | MALQK | YSGLP | KNKVI | GMAGIL | DTSRFKRF |
| UniRef90_ UniRef90 | | I V S N P V C | | YVFTK | US GIL P | E N Q I I | GSGTIL | DSARLR <mark>C</mark> G |
| | UPI00037EE0FB | i Ci TNPLE | ЭΠМ | RMLQH | YSGIA | DNKIV | G M A G V L | D S A R F R Y F D S S R F R T F |
| UniRef90_ | R6UV85 | IASNPV | AMT | YVAQK | VS GLP | TERVL | G S G T I L G M A G V L G S G C N L G T G T M L | DTARLRYM |
| UniRef90_ | _B7JVP2 _UPI000273C4CA | VITNPLI LIVSSPGI | N M T | YLVWK YVAWK | ATGLP | PHQVM | G M A G V L | DSSRLQ <u>SF</u> DTARFRLL |
| | UPI000273C4CA UPI00039C92C4 | LIASNPV | | F T M Q H | LSTRP | DORVI | G T G T M L | DTTRTRSL |
| UniRef90_ | S6AYD9 | V A A N P V | ji Ē t | YS <u>T</u> ŴK | FSGFP | KĒRVI | GSGT <u>S</u> L | DSARFRQA |
| UniRef90_ | | LVASNEVE | | YAVWK | YSGFD | HHRVL | G S G T V L | DSARFRQA DSARFRYM DSARLRYL |
| UniRef90_ UniRef90 | | UATNPVI | | HILAEK | ESGYP | ANRVI | GSGTVL | DTGRFRYE |
| UniRef90_ | S9R3S0 | LVTNPV | VLT | YVVQK | LS GL P | TRRVL | GSGTVL | DTGRFRYE DSSRFRFL |
| | _UPI00036A4130 UPI00046B601E | I CITNPL LVVSNP_ | O A MIV | 'JWALLJQK | FSGLP | KNKWC | G M A G V L | DSARFTYF DSAQFRYL |
| | UPI0003B7A005 | MVTNPV | D V I T | YVAQQ | LT GLS | PHRLF | GSGTVL | DSARLRGL |
| UniRef90_ | UPI00029A6D32 | | J T II 🔽 | | F A R S V | PAFHF | FSINRI | D R M R A T A L |
| UniRef90_ UniRef90 | | I V V S N P M [|) I M A | YLAHK | AIGLP | KNRIII | G M G G A L G T G T T L | DSARFKYR DTARLRYL |
| UniRef90_ | | V V VIS N P A F | ΣΙΙ ΙΜΙ Δ | YAFOK | IVIS GIVIK | PFYIIM | GILIGGSIL | DSSRERTE |
| UniRef90_ | | VATNPL | V M T | YLTYR | YSGFE | PSKVI | GSGTSL GSGTSL | DTARLRYL |
| UniRef90_ UniRef90_ | | I ASNPVE CVT NPL | 시나 | V ΙΙ ΙΔ V () | K S GII I | SMRIIM | (= M (= (= 1 \ / 1) | |
| UniRef90_ | A2VHD9 | G V T G N P A N | NTNA | LLAMT | NAPDI | PRERF | SALTRL | DHNRAISQ |
| UniRef90_ UniRef90 | UPI000219771A | V A A N P V L | | YATWK | LSGFP | K E R V I | GSGTSL | DHNRAISQ DTARLQKF DTARLRYL |
| UniRef90_ | | VVSNPV | ó∥i iii t | · Y L VWK · Y V F T K | FSGLP | AKQVI | GSGIAL | DIARLCCS |
| UniRef90_ | R6CBK8 | IVSNPV | O I M T | YVFTK | LS GLP | ENQVV | GSGTIL | DTARLRCG |
| UniRef90_ UniRef90 | _U3Q6A2 UPI0003B68296 | I VANPVE | DI LIT | . Y | T S GII P | ANRIF | GMAGLL GTGT <u>M</u> L | D S T R Y R F F D T A R F R A R |
| UniRef90_ | Q55383 | V V T N P L C |) V M T | ` Y L A W K | IVIT GIL IP | SQRIVIM | GMAGIVL | DSARLKAF |
| UniRef90_ UniRef90 | | |) | · ∨ \/ ∧ \/ | | $\nu = D \setminus V \setminus V$ | CMAGILI | $D \in V \cap M \vee \square \subseteq$ |
| UniRef90 | | LMVSNPV | | WVAWK | KSGL | RERII | GSGTTL | DTARLRQN |
| | K6WMW2 | MVTNPV | Z V T | YAALK | FSGLP | NNQVE | GSGTVL GSGTVL | DSSRLRFR |
| UniRef90_ UniRef90 | | !. <u>A N </u> | ו ו⊻ו ון כ | YLIFK | YSGFA | PINKVI | GIGIS | |
| UniRef90_ | | JI VSNPA | TMA | YAFQK | V S G E | PKKIL | GLGGSL | DSSRFRTF |
| | UPI00040F5D5A | LIVANPV | OI LUT | YTAAK | LSGFP | ENRVF | GSGTVL | DTARFKYL |
| UniRef90_ UniRef90 | | VASNPVE | | EVVRG | LSGFT | HERVI | GSGTTL | DTARLRIG |
| UniRef90_ | W0THK6 | LVVSNPV | VLI | WRVWQ | RTGWP | RERIF | GQAGVL | DASRMAAF |
| UniRef90_ UniRef90 | UPI00046F2452 | L V V T N P V C | | YVTLK | I S GLP | PSQVM | GSGTVL | DTARFMKI DSSRFRTF DTARFKYL DTARLRFM DTARLRFM DASRMAAF DSARFRFL DTARLKYF |
| UniRef90_ | | LIVSNPV | ó∥i "∐ˈt | ŸÄÄÜK | LS G P | ENRVI | ĞŚĞŤ <u>V</u> L | |
| UniRef90_ | | VAANPV | | Y A A L K Y A T W K S Y A T W K F Y I V Y K | FSGFP | KEKVI | GSGTVL GSGTSL | DTSRLRVA |
| UniRef90_ UniRef90 | UPI00047DCF94 | VATNPVI LVVSNPVI | | YIVYK | LSGFP | KERVI | GSGTVL | DTARL <mark>CNC</mark> DTSRLKFM |
| UniRef90_ | | VVSNPV | V L T | FRAWQ | RSGWA | RGRVF | GQAGVL | DASRMASE |
| UniRef90_ UniRef90 | | I T S N P A D | | Y MV WK | | RERVI | GTGTSL | DTARFRTL DSSRLKTL |
| | _A0A059MR00 | L IF IV IS N P IV I | DIV VIC | YAAIIIR | A T D A | PAGQII | LIGSTIVL | ID S G R IL IR F IL |
| UniRef90_ | | | | | IIISGFA | TNKIVIM | GMAGIVI | DASRFQAF |
| UniRef90_ | _A0A023CZQ0 P62054 | IASNPVE | | ·HVYQK | VTGFD | PHKVI | GSGTTL | DSARLRRL |
| UniRef90_ | R5NYU5 | LVVANPV | Q L L T | QVAIK | LSGLP | EQRVL | GSGTVL | DSARLKYK |
| UniRef90_ UniRef90 | _R5FYY8 UPI000273D9D7 | V V S N P V L L V V S N P V L | | Y A T W K H V Y Q K G Q V A I K G Q V W K Y V T W K Y Q A H K W V A H K W V A H K W V A H K | | K E R V IM | G S G C N I | DTSRLRVG DSARLKYK DSARLKYI DSARFRYL LMGSRRSYL DSARFRYF DTARFKYF DTARFKHL LESQVQGN |
| UniRef90_ | G1MBW7 | VVS NPV | j į į | YVTWK | LSGLR | KHRM | I G S R S Y | LMGSRSYL |
| UniRef90_ UniRef90 | | L V A T N P V C | DILLA DAMV | LYQA <mark>H</mark> K | S C G L P | VERVV | GSGTLL | D S A R F R Y R |
| UniRef90_ | B4LKK3 | VVSNPA | V M T | WVAHK | VGK P | CERCI | STGCHL | DTARFRLE |
| UniRef90_ UniRef90 | | L V A G N T F V | | YVTLR | Y S G L P | KHKVI | GSGTLL | DTARFKHL |
| UniRef90_ | | VAANPVE | | Y V T L R Y V I M Q H A T W K Y V T L K | | | | |
| UniRef90_ | A9FSL2 | LVT NPV | VIT | YVTLK | LTGLP | PARVI | GSGTVL | DSSRFRFL |
| UniRef90_ UniRef90 | UPI00041A92B2 | AAANPVL |) V V I | Y MIVIW R | L S G L P | RNRVI | GSGISI | DSSRFRFL DTARLKTL |
| UniRef90_ | W8BJU3 | Ĭ VSNPC | Ď ľ L Ä | HÜAWK | TšäL | È R V F | Ă Ś Ğ Ť H L | DTARFRYF |
| UniRef90_ | | U A A N P V | SII FIŢ | YATWK | FSGFP | KERVL | GSGTSL | DTARLRVA |
| UniRef90_ UniRef90 | | ML VT NPC | | . V V A O K | | ANRVI | SSGTVI | DSSRLRWI |
| UniRef90_ | W2STE0 | MVVSNPV | V Ē T | YVTWK | LSĞLS | RERVE | GSĞTNL | DSARFREL |
| UniRef90_ UniRef90 | UPI0002F90DBE H3SI 21 | VSANPV | V L T | AATQR | LSGFP | K N R V I | GT GT SL | DSSRWQVA DSTRMRSF |
| UniRef90_ | | LVVANPV | ó νμήτ | YALAL R | MS GLP | EGRVI | GSGTVL | DTAREKYM |
| UniRef90_ | | LIVANEVE | | RVTLI | LSGFP | AQRVL | GSGTVL | DTARLKYL |
| UniRef90_ UniRef90 | | VAANPVI | V M A | YMVWK | A S G F P | RHRII | GUAGIVL | D S S R L K T I |
| UniRef90_ | Q4JY42 | VASNPV | oli Lis | YATWK | FSGMD | SSRVL | GSGTTL | DTARFRYA |
| UniRef90_ UniRef90 | | MVT NPVC | ן ו <u>ד</u> | YAAGK HYMKK | | KNQLE | G S G T V L | DSSRLRFL DSARIKTE |
| UniRef90_ | | LVVSNPV | ĺvѬт | YVAMK | LAGLP | PSRVI | ĞSĞT∇L | DTARFRYL |
| UniRef90_ | M3I535 | VAANPV | SI LĪ | YSTWK | FSGFP | KERVL | GSGTSL | DTARFRQA |
| UniRef90_ UniRef90 | | | ן L∐I M ד M I | YVTIK | | SHRVI | G S G T V L | D S A R F R A II |
| UniRef90_ | T1EM25 | i vš n PV | Į ĽT | w <u>v</u> a <u>w</u> k | LSĞLP | RHRVL | ĢŠĞŢ <u>M</u> Ĺ | DSSRFRFL |
| UniRef90_ UniRef90_ | UPI0002D2BE4A F6LF27 | MVT NPV | JI VIT ^ M IIC | YAALK | | P N QLE | GSGTVL | ALLLEAL AFMLELATILLE M QRKTTYVAL QRKTYVAL QRKTYVAL QRKTYVAL QRKTYVAL QRKTYVAL QRKTYVAL QRKTYVAL QRKTYVAL QRTYVAL QRKTYVAL QRTYVAL QR |
| UniRef90_ UniRef90_ | | I ATNPC | | Y DVWK | LSGLP | RHRVL | G T GVWL | DTTRLRRE |
| UniRef90_ | UPI0003661EA7 | TVVSNPL | EMT | ALAQI | ASQFP | KNRVL | GQAGML | DTARFTHF |
| JNIKef90_ | UPI0003B34D57 | L I V A N P V E | עןע IV L∐T | YAALK | LISGFP | K E K V L | G S G I V L | DSARFQQM |

| | 170 180 190 200 |
|--|--|
| UniRef90_F2I3I4 | L S Q E L K V S K D I D S F V L G G H G D T M V P M P N R T M V G K E K L S |
| UniRef90_R6WUD5 UniRef90_U6B8C4 | L S E H F Q V A Q R N I H A Y V Y G E H G D T S F V P W S A A R I A G V N V D L A Q E F N V S V E A V T A L V L G S H G D S M I P M L K Y A T V S G I P V L |
| UniRef90_UPI00037EE0FB | L A WE F G V S L E Q V Q A Y V M G G H G D T M V P L T G M S N I A G V S L N |
| UniRef90_R6UV85 UniRef90_B7JVP2 | MSEYLDVSTSNI <mark>H</mark> AY IMGEHGDSSFVPWTNAYVG <mark>C</mark> KNLLISLELGISSANITAL VLGGHGDLMLPLPRY <mark>C</mark> TVNGVPIT |
| UniRef90_UPI000273C4CA | I G E K M D I H S N S Y H G WV L G E H G D S S V P V W T G I A G A S L K S L |
| UniRef90_UPI00039C92C4 | LÁEYYNVDPRSVHÁ VILGEHGDSEVAAWSQANIGGTPIV LAEKLDVDARSVHAYJIMGEHGDSEFAVWSHANVAGVNLE |
| UniRef90_S6AYD9 UniRef90_P62050 | L G E R Y D V A P S S I H A Y I I G E H G D T E L P V L S S A T V A G V S M R |
| UniRef90_R7NS51 | L G E R Y D V A P S S I H A Y I I G E H G D T E P V L S S A T V A G V S M R L G D Y F G I N P R S V H A Y V M G E H G D T E F V P W S Q A L L S T K L V D L G E H L G V D S R S V H A Y I I G E H G D S E L A A W S D A R V G G L K I S |
| UniRef90_R5GVV0 UniRef90_S9R3S0 | L A E K L D V D A R S V H A Y I M G E H G D S E F A V W S H A N V A G V N L E L G E R Y D V A P S S I H A Y I I G E H G D T E L P V L S S A T V A G V S M R L G D Y F G I N P R S V H A Y V V M G E H G D T E F V P W S Q A L L S T K L V D L G E H L G V D S R S V H A Y I I G E H G D S E L A A W S D A R V G G L K I S L A R H L N V A V Q N V H A L I A G E H G D S E L P L W S L A S V G G V P L M |
| UniRef90_UPI00036A4130 | LSEEFNIVISIVEDIL NIFIVE GHGDIMIVIPLIARY 5 I VA GII INII P |
| UniRef90_UPI00046B601E UniRef90_UPI0003B7A005 | MGKRLGVHPLSCHG WVLGEHGDSSVPVWSGVNVAGVSLK IASRCGIAVQNVHANLV GEHGDSELPLWSTATAGTLPVT |
| UniRef90_UPI00029A6D32 | I A A T A G V P V S R V N R V N V W G N R S D K L F V D F H N S Y I D D Q P A E |
| UniRef90_X5DAU6 UniRef90_D4L5E6 | I A A T A G V P V S R V N R V N V W G N R S D K L F V D F H N S Y I D D Q P A E L A E A L E C A Q S D I S A M V I G G H S D T G M V P L I D K A V R N S V P V T L G E Y F E V D P R N I H A Y V I G E H G D S E F V P W S Q A L L A A K P L K |
| UniRef90_T0N509 | ILIA MEILINIVISIVIE DIVIN A FIVIT GGHGDD MIVIP FILIR Y S NIVIS GILIPILIS |
| UniRef90_R7F3A2 UniRef90_M3J7P0 | I SERI DVSPKNVHAYVV GEHGDSEFVPWSNATI GEQNI Q I A ELT GVDARDVHAY I L GEHGDT QFPVWSHANI GGMQVD |
| UniRef90_R7B3C0 | VCEKLGCDPADV VAWALGAHGEGMVCWPRYTTVAGRPLT |
| UniRef90_A2VHD9 UniRef90_UPI000219771A | L A A K T G A A VT D I K K M T I W G N H S A T P V P V G E E L N V D P R S V N G Y I M G E H G D S E F A A W S H L T V G G V T M A |
| UniRef90_R6C5E7 | _ |
| UniRef90_R7A677 UniRef90_R6CBK8 | LASMYDLDSKSVHT FILGEHGDSEMVAWSSSTIGGKSLT LAEHFDIAQKNIHAY VFGEHGDTSFIPWSRAHIS <mark>C</mark> ANID |
| UniRef90_U3Q6A2 | |
| UniRef90_UPI0003B68296 UniRef90_Q55383 | I A E N Y K V A Q E N V H G Y V F G E H G D S S F V P W S L A N I G S I P V D |
| UniRef90_I2K9G7 | I Y E K I G Y G A G Q I R A S V M G G H G D D M V P L P K F S T V A G V P L T |
| UniRef90_R9LNS2 UniRef90_C5CGP2 | I Y E K I GY GA GQI RAS V MGGHGDDMV PLPKFSTVA GVPLT LSQRLGFADSNI HAY I MGEHGDSSFVPWIHTYI GCKSLL I ADHCKLDPRSVHAYI I GEHGDSEI ASWSTANVGGVPIK |
| UniRef90_K6WMW2 | II A Q Y CG V A V Q N V H A Y I V G E H G D S E L P L W S S A S I G G V P L L |
| UniRef90_R7HGQ8 UniRef90_U2FTZ3 | I S E K V G V N P K D I N A Y V I G E H G D S E F T L W S S A L V G S E K I D V G D H L G I D P K N V F G Y V L G E H G K T A F I A W S L S N I A G V P L D |
| UniRef90_T0N605 | II IA MEILIK A SIVIQ DIVIN A EIVIT GGHGDD MIVIP EILIR Y S SIVIG GILIPILIT |
| UniRef90_UPI00040F5D5A UniRef90_R5I5E8 | L G E H L S V D S R S V H A F I I G E H G D S E I A A W S S A N V S G I P I H L S E H F Q V A Q G N I H A Y V F G E H G D T S F I P W T G A Y I S G L S T D |
| UniRef90_R5XC55 | II IS D Y F K M N P R NIVIH A YIV L L G F H G D S F F IVIA WS S A MILISIL L IPIVIS |
| UniRef90_W0THK6 UniRef90_UPI00046F2452 | I A MET GESSRDITTL VLGGHGDSMVPVPRECTING PVT LGQHCHVATQNVHAYI I GEHGDSEVAAWSLTNLAGMPIE |
| UniRef90_R5MSF8 | LIGDYENIVIDPKNIVIHAYIVIL GEHGDSEMIVIPWSOGTKSILIMSILVI |
| UniRef90_R6ZIB9 UniRef90_M5AYJ3 | L G E H L E V D S R G I H A F I I G E H G D S E I A A W S S A N V S G I P I N L A K K F N V D P R N V E A Y I M G E H G D S E F A A Y D E A T V G S K P L K |
| UniRef90_G4CLV3 | III G K A F GIVIA PILISIVID A H MILL G F H G D SIV LIA A W S T A NILIA G M SILIO |
| UniRef90_UPI00047DCF94 UniRef90_G2D928 | LSEHFN DSRNIHTY I MGEHGDSEI ATWSTTSI AGMDVN I EMETGESSRDVTT I VLGGHGDSMVPLPRECTING PIE |
| UniRef90_R6HRR9 | I IGY HILIGIVIS POSILIH A NIVILI GEHGD SEIVI VIWS A GD A GILVISILID |
| UniRef90_E0IGK3 UniRef90_A0A059MR00 | LSEYLPIDPRSVRGY VLGEHGDSQFPAWSHVTVGGKPL VAQHVGLAVENVHALLV GEHGDSETTLWSSATVGGVPAT |
| UniRef90_K9SRM3 | I A MELGISTADI NAMVMGGHGDUMVPLPRYSTVSGVPIT |
| UniRef90_A0A023CZQ0 UniRef90_P62054 | LGELLGVHPRSIHAY IMGEHGDSEFAAYSAATIGGIPVL VGQKLNVKPESVQAY VAGEHGDSSVAIWSQANIMGRPIL |
| UniRef90_R5NYU5 | L G E H L S V D S R S V H A F T V C G E H G D S E V V A W S S A N V S G V E L S |
| UniRef90_R5FYY8 UniRef90_UPI000273D9D7 | L G E H L S V D S R S V H A F I V G E H G D S E V V A W S S A N V S G V E L S L G H T L D V D P R H V H A R I I G E H G D S E L A A W S L A N V S G I H I D L G E K L G V H P T S C H G WL I G E H G D S S V P L W S G V N V A G V A L K |
| UniRef90_G1MBW7 | MAKTLGI HPSSCHG WILGEHGDSSVALWSGVNVTSVSLQ |
| UniRef90_K6QEQ3 UniRef90_U2XUN0 | I G Q E L G I H P R S I H A Y I I G E H G D S E V P V W S G A T V A G T R L G L A D E M N V S V K D V T A F V L G G H G D T M V P S V R Y S T V A G I P L P |
| UniRef90_B4LKK3 | I G K L L G V S T S S V H G Y V L G E H G G S S V P M W S A V T V G G V R L Q |
| UniRef90_S2XH58 UniRef90_H3AA37 | V A Q H V G L A WE N V H A L I V G E H G D S E I T L WS S A T V G G V P A T I A ME L G T S T A D I N A M V M G G H G D L M V P L P R Y S T V S G V P I T L G E L L G V H P R S I H A Y V A G E H G D S E F A A Y S A A T I G G L P V L V G Q K L N V K P E S V Q A Y V A G E H G D S E V A A W S L A N V S G V E L L L G E H L S V D S R S V H A R I V G E H G D S E V A A W S L A N V S G V A L L K M A K T L G I H P R S C H G W I L G E H G D S S V A L WS G V N V A G V A L K M A K T L G I H P R S C H G W I L G E H G D S S V A L WS G V N V T S V S L Q I G Q E L G I H P R S S V H A N I I G E H G D S E V P V W S G A T I A G V R L Q I G Q E L G I H P R S S V H A N I I G E H G D S E V P V W S S A T I A G V R L Q I S E A F D V A P S S V H A N I I G E H G D S E V P V W S S A T I A G V S L Y L A R K L N V N P S G V K D V I W G N I S G S T F I D L Q R A R V Y G G V R L Q I S E A F D V A P S S V H A N I I W G E H G D S E V P V W S S A T I A G V S V S L A R Q L D V A V Q S N V A Y M L G E H G D S E V P V W S S A S V A N V P D D R S V S G Y V L G E H G D S E V P V W S S A S V A S V A S V A S V A S V S C A T V A G T R L Q I S E A F D V A P S S V H A N I I G E H G D S E V P V W S S A S V A N I P L D L A R K L N V N P S G V K D V I W G G H G D S E V P L W S S A S V A N I P L D L C E Y L P V D P R S V S G Y V L G E H G D S E V P V W S A A N I G S L L L A K R L G V S A S S V Q G Y V L G E H G D S E F A A Y S S A S I G S L P F L V A E K L G I H P T S C H G C I L R E H G D S E F P V W S A A N I G M V P L A N K A G V S V S D A N I G M V P L A N K A G V S L Q T A N K A G V S V S D A N V A G C I L R E H G D S E F P V W S A A N I G M V P L A N K A G V S D A N I G M V P L A N K A G V S D A N I G M V P L T A N K A G V S D A N I G M V P L T A N K A G V S D A N I G M V P L T A N K A G V S D A N M A M U V G E H G D S E F P V W S A A N I G M V P L T A N K A G V S D A N M V A G C E H G D S E F P V W S A A N I G M V P L T A N K A G V S D A N M A M U V G E H G D S E F P V W S A A N I G M V P L T A N K A G V S D A M M C T T A M C T T T T T T T T T T T T T T |
| UniRef90_E3BRJ6 | I A E LEHVDPRSV NAYMLGEHGDTEFPVWSYNNVAGVKVS |
| UniRef90_A9FSL2 UniRef90_UPI00041A92B2 | I A R Q L D V A V Q N V H A Y |
| UniRef90_F4A3L9 | I SELEGI DTKSI QA FAMGEHGDSQMVPWSKVTI AGESLL II AKRLIGVSASSVQGYVI GEHGDSSVPVWSAVSVGGI RFR |
| UniRef90_W8BJU3 UniRef90_G2SRC0 | LAKRLGVSASSVQGYVI GEHGDSSVPVWSAVSVGGIRFR MADLTGIKDPRSMHAYIMGEHGDSEFAAYSSASIGSLPFL |
| UniRef90_L9KRK0 | VAEKLGIHPTSCHGCILR EHGNSSVAVWNGVNVAGVSLQ IANKAGVSLKSVHANVV GEHGDSEFPVWSAANIGMVPLT |
| UniRef90_D2NTC0 UniRef90_W2STE0 | I A N K A G V S L K S V H A N V V G E H G D S E F P V W S A A N L G M V P L T L S Q E L N V S P S S C H A W L I L G E H G D S S V |
| UniRef90_UPI0002F90DBE | LAHKLNVDLRSVNAD I LGEHGDSEFAAYSAATVDGQPLL |
| UniRef90_H3SL21 UniRef90_R7AGX3 | |
| UniRef90_B0PC22 | L G E H L E V D P R N I H A F L I G E H G D T E L P V W S S A N V S G I D L L |
| UniRef90_F8IBN2 UniRef90_W4CU84 | LADALKI SPKDVSA FVMGGHGDDMVPLVRYSYAGGIPVE LSDVFSI DPRSV NGYALGEHGESQFVAWSHVTI GGKPI L LGRYFDLAPTSVHAYVI GEHGDTELPVLSAGSVAGTSI H |
| UniRef90_Q4JY42 | LGRYFDLAPTSVHAYVI GEHGDTELPVLSAGSVAGTSIH VSEHCGVAVQNVHAY IAGEHGDSEIPLWSSASIGGVPLL |
| UniRef90_L7L6M4 UniRef90_R7BEX1 | V S E H C G V A V Q N V H A Y I A G E H G D S E I P L W S S A S I G G V P L L I G E L V K V D P R S V H A Y S M G E H G D S Q M V P W S V V T V A G K P F Y |
| UniRef90_Q7NG49 | I GELVKVDPRSVHAY SMGEHGDSQMVPWSVVTVAGKPFY LAERLRVDPRSLHAYLI GEHGDSEVPVWSRANVAGAFLS LAEKLGIDARSVHAYLI MGEHGDSEFAVWSHANVAGVKLE |
| UniRef90_M3I535 UniRef90_R6H8B8 | L A E K I G I D A R S V H A Y T I M G E H G D S E F A V W S H A N V A G V K L E L G H M L D V D P R H V H A R I I G E H G D S E L A V W S A A N V S G I A L N |
| UniRef90_L8LRM7 | L G H M L D V D P R H V H A R I I G E H G D S E L A V W S A A N V S G I A L N I G Q K L G I D A R S V H A Y I I G E H G D S E V P V W S T A N V A G V M N Q L S E K L G I A P K S C H G Y L I G E L G D H S V P V W S S V N I A G T R L K |
| UniRef90_T1EM25 UniRef90_UPI0002D2BE4A | L S E K L G A P K S C H G Y L G E L G D H S V P V W S S V N A G T R L K V A Q H T G V A V Q N V H A Y |
| UniRef90_E6LF27 | L GE H L D V D P R D V H A Y I M G E H G D S E F A A W S S A M V A G V P L N L G E H L E V D P R N I H A F I I G E H G D T E L P V W S S A N V S G I D L I L A D A L K I S P K D V S A F V M G G H G D D M V P L V R Y S Y A G G I P V E L S D V F S I D P R S V N G Y A L G E H G E S Q F V A W S H V T I G G K P I L L G R Y F D L A P T S V H A Y V I G E H G D T E L P V L S A G S V A G T S I H V S E H C G V A V Q N V H A Y I A G E H G D S E I P L W S S A S I G G V P L L I G E L V K V D P R S V H A Y I G E H G D S E V P V W S R A N V A G A F L S L A E R L R V D P R S V H A Y I M G E H G D S E V P V W S R A N V A G V K L E L G H M L D V D P R S V H A Y I M G E H G D S E F A V W S A A N V S G I A I N I G G K L G I D A R S V H A Y I G E H G D S E V P V W S T A N V A G V K L E L G H M L D V D P R S V H A Y I G E H G D S E V P V W S S A N I A G T R L K V A Q H T G V A V Q N V H A Y I A G E H G D S E V P V W S S A T I G S V P L L I A D L V D V D P R S V Y A Y A M G E H G D S L M V P W S S A T I G S V P L L L A E R L R V D P R S V Y A Y A M G E H G D S L M V P W S S A T I A G K K F L L A E R L R V D P R S V Y A Y A M G E H G D S L M V P W S S A T I G S V P L L L A E R L R V D P R S V Y A Y A M G E H G D S L M V P W S S A T I G S V P L L L A E R L R V D P R S V Y A Y A M G E H G D S L M V P W S S A T I G S V P L L L A E R L R V D P R S V Y A Y A M G E H G D S Q F P V W S H C A V Y G M P L E L A E R L K V P W A S V K T I T T G S S H G D T M V P V P S H C T V P G M P L S V A E F L K V P W A S V K T I T T G S S H G D T M V P V P S H C T V P G M P L S V A E F L K V P W A S V K T I T T G S S H G D T M V P V P S H C T V P G M P L S V P V P S H C T V P G M P L S V P V P S H C T V P G M P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L S V P V P S H C T V P D G K P L |
| UniRef90_W0HVM1 UniRef90_UPI0003661EA7 | |
| UniRef90_UPI0003B34D57 | LIGEHILIDIVID SRSIVIN A FILLIGEH GDSEIL A AWSSANIL A GVIPILIH |

| UniRef90_F2I3I4 UniRef90_R6WUD5 UniRef90_U6B8C4 UniRef90_UPI00037EE0FB UniRef90_B7JVP2 UniRef90_UPI000273C4CA UniRef90_UPI00039C92C4 UniRef90_P62050 UniRef90_R7NS51 UniRef90_R7NS51 UniRef90_B63C9VV0 UniRef90_UPI00036A4130 UniRef90_UPI00036A4130 UniRef90_UPI00046B601E UniRef90_UPI0003B7A005 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 UniRef90_UPI00029A6D32 | 210 |
|--|---|
| UniRef90_R7B3C0 UniRef90_A2VHD9 UniRef90_A2VHD9 UniRef90_P1000219771A UniRef90_R6C5E7 UniRef90_R7A677 UniRef90_R3GCBK8 UniRef90_U910003B68296 UniRef90_U910003B68296 UniRef90_Q55383 UniRef90_I2K9G7 UniRef90_R9LNS2 UniRef90_R5CGP2 UniRef90_R5CGP2 UniRef90_T0N605 UniRef90_U2FTZ3 UniRef90_U2FTZ3 UniRef90_U2FTZ3 UniRef90_U7H00040F5D5A UniRef90_U9100040F5D5A UniRef90_W0THK6 UniRef90_W1HK6 UniRef90_U9100046F2452 UniRef90_R5MSF8 UniRef90_R6ZIB9 UniRef90_M5AYJ3 UniRef90_M5AYJ3 UniRef90_G4CLV3 UniRef90_G2D928 | ELMSEEVAE VVQRCVKGGAEVVAHLKTGSAYYAPG EWMEKH PEITKDTLDKYKKNAAYDIINTKGATFYGIGT KYLTVNEMETLEN EVRNAAYEIIERKGATYYGIAM DVMSDNADRTKNETKETEQTKAAGWEIFSRKGNTCYGIAA EYTTLMNNTLDKDAMLEYVQKSGGKIIANKGATFYAVSAS EFLSEEENDLIID KTKKGGEEIINLLGTSAWMAPS DFAKSYRPDFDKNDVEDYIRKSGGIIIAAKKCTNY AIG ELIPPQTI EELVVERTRNGGAEIVGYLKTGSAYYAPA DILS EKELCEVVERTKHGGAEIVGYLKKTGSAYYAPA DYLDEHNISKKELQEIYIGVRAYEIINKKGATYYGIGL EFCKGCERDKVFERIFENTRDAAYKIIEKKGATYYGIGL DWNPLPDGEPIRAKMHDEVVHAAAYKIIEKKGATYYGVAM AYCARHDLPILDRDRVLEDVKNAAYEIINKKGATYYGVAM AYCARHDLPILDRDRVLEDVKNAAYEIINKKGATYYGVAM AYCARHDLPILDRDRVLEDVKNAAYEIINKKGATYYGVAM AYCARHDLPILDRDRVLEOVKNAAYEIINKKGATYYGIAAA DLLSKEKI DELVKRTRFGGGGEIVDYLKTGSAYYAPG DFCEMRGHFEHEKSMKKENVKNSAYKIIEKKGATYYGIAAA DLLSKEKI DELVKRTRFGGGGEIVDYLKTGSAYYAPG GFCEMRGHFEHEKSMKKENVKNSAYKIIEKKGATYYGIAAA DLLSKEKI DELVKRTRFGGGGEIVDYLKTGSAYYAPG GYCLRCGRACESDEKMRIFVKNSSAYKIIKAKATYYGIGM AYCARHDLPILDRAAAAVKIIEBAKKAATYYGIGM GFLS EERLQDIIQRTREGGAEILALRKNSSAYDAPG QYCLRCGRACESDEKMRIFVKNSAYKIIEAKKATYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM VVAKEHGLTDDDLAKIEDDTRNKAYEIINRKGATYYYGIAM |
| UniRef90_R6HRR9 UniRef90_E0IGK3 UniRef90_A0A059MR00 UniRef90_A0A023MR00 UniRef90_A0A023CZQ0 UniRef90_P62054 UniRef90_R5NYU5 UniRef90_R5FYY8 UniRef90_UP1000273D9D7 UniRef90_UP1000273D9D7 UniRef90_UP1000273D9D7 UniRef90_UP1000273D9D7 UniRef90_UP1000273D9D7 UniRef90_UP1000273D9D7 UniRef90_UP1000273D9D7 UniRef90_UP2XUN0 UniRef90_UP2XUN0 UniRef90_UP2XUN0 UniRef90_UP3AA37 UniRef90_UP3AA37 UniRef90_UP3BBJG UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 UniRef90_W8BJU3 UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 UniRef90_UP100041A92B2 | KLAEEFGKPFTPEVQLDDCVRNAAYKIIDGKGATFYGIAG DLLAQHPQRFSQLKLDDLAAKNAGWEILQRKGATYYGIAN EYRDENGAAAFDAAIRETRVVRSAYEIILGKGATNLAIGL ELMSADAIA RLVDRTRNGGAELVKLLQTGSAYFAPA DLAKEKNITKEQLAKLEDDVRNKAYTIISKKGATFYGVAT DYVKCGCLTLEDLDQLQKDTVDMAYKIINKRATFYGIG EMCEMRGHYQHKENTRELAVKNSAYEIIKKRATFYGIAP TLDPKLGTDSDKEHWKNIHKQQSAYEIIKKKGYTSWAIGL ELNPEMGIDNNSENWKEVHVVESAYKVIKLKGYTSWAIGL ELNPEMGIDNNSENWKEVHVVESAYKVIKLKGYTNWATKL DLVKMKWITQKKDEIVQRTRDGGAEIVALKNGSAFYAPA KLIPTMGMDPMEWSKVHKDVVDAAFKVIAGKGYTNWAIGL DELKNDPSKSHLIEDIYVQTRDAAYDIIKAKGATYYGVAM KLIPTMGMDPMEWSKVHKDVVDAAFKVIAGKGYTNWAIGL DELKNDPSKSHLIEDIYVQTRDAAYDIIKKAKGATYYGVAM KLIPTMGMDPMEWSKVHKDVVDAAFKVIAGKGATYYGVAM KLIPTMGMDPMEWSKVHKDVVDAAFKVIAGKGATYYGVAM VWQMVYDSNWLETEFISDLNTRLQTVETKLQHPSGILPAD DWVKAHPEENKLEEIHKTVADAAYDIIKKLKGATFYGIGT AWSVPGHGHLGATERAEIFVKNNAAAQVISGKGATNYAIGL DILAQHPARFKLDEIEAKTRDAGWEILQ RKGSTTHYGIAN NLMKKNSSLAKLDEDKLVWKTRLGWDIYETKKGTTYYGIAA ELNTEMGTDNDSKNWKEVHKMESAHEVIKKGYTNWAIGL DWAKEHDVSKETLDKIEDDVRNKAYEIINKKGATFYGIGT |
| UniRef90_H3SL21 UniRef90_R7AGX3 UniRef90_B0PC22 UniRef90_F8IBN2 UniRef90_W4CU84 UniRef90_U7V42 UniRef90_L7L6M4 UniRef90_Q4JY42 UniRef90_Q7NG49 UniRef90_Q7NG49 UniRef90_R6H8B8 UniRef90_L8LRM7 UniRef90_L8LRM7 UniRef90_UPI0002D2BE4A UniRef90_UPI0002D2BE4A UniRef90_UPI0003B34D57 | DVAKKAGVSQAELEQLEQETRTKGGSIIKLKGATFYGVAT KLLDPET LESIVERTRHGGAELVHLLKTGSAYYAPA TFCEMRGHRDHKEARIAENVKNSAYEIIENKGATNYALSM DFCKVCDMSGIRGLFDE VKNSAYRI LENKGATNYALSM KLLPKDT LDQIVQRTRTGGGEVLSLMKVSAYYAPASS QILDQHRERFPHLDLEDISRKTAGWEIFTRKGSTHFGIGS HRLEMIGESADEDVDELFVKTRAAYEIIQAKGSTSFGIGM DWEPLDGGRLLDAAARATIKQEAAYRI LEGKGATNYAIGL DVIADNKNDVDLDELVHKTTREGWELLE RKGATNYYAIGL QWLQENRDIDEEGLVRFESVRDAAYSIINKKGATFYGIAV DWFRRERFPHLDLEDUFSVRNSAYEIIEGKGATNYAIGL QWLQENRDIDEEGLVRFESVRDAAYSIINKKGATFYGIAV DFFRLRGIENATELRVEESVRDAAYSIINKKGATFYGIAV DFFRLRGIENATELBVEESVRNSAYEIIGKKRATYFGIAP DWDDLSQDYRQELEDLFSQVKNAAYEIIGKKGYTSWSIGI DWDDLSQDYRQELEDLFSQVKNAAYEIIGKKGYTSWSIGI DWQGLHGSGPLTREVRDRIARESAYRIIEGKGATNYAIAL DVIHDNPEIVGDVDLAETKTTREGWEIYNRKGTTYYGIAS |

| | 050 000 070 070 |
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| UniRef90_F2I3I4 | 250 260 270 280 A <u>A G V Q M</u> A E S Y L K N E K K T L P <mark>C</mark> A A Y L D G E Y G I K E L Y V G V P V |
| UniRef90_R6WUD5 | GVCRLCG FLLSASESVTTVSSMMHGEYGIE DVCLSTLA SSAIAMAESYLKNKRNVLPCAARLSGQYGVDGFY VGVPV TSGIQMAESYLFDKGMVLPCATVKKGTYGLDEDLFVGVPT SLNRLVHA ILDDENVILTVSAYQNNEYGQEGLY IGVPA SSACLMIEAILRDQSRLLPAAAYLSGEYGLN DIFIGVPC SVADLT DTIMKNLKKIHSVSTMIKGLYGIKEEVFLSVPC VI AHLVRTIQSDQGSVLPVSVRLHGEYGI HDVCLSIPV ALARITKAI LDDENSVLPVSVRLHGEYGI HDVCLSIPV ALARITKAI LDDENSVLPVSVRLHGEYGI HDVCLSIPV ALARITKAI LDDENSVLPVSVRLHGEYGI HDVCLSIPV ALARITKAI LHNQEVALPVSSVRLHGEYGQYPGVEDIY IGQPA AVVRIC SAIVRDEKSIMPVSSLMTGEYGLYDVVLSIPA AVVRIC SAIVRDEKSIMPVSSLMTGEYGLYDVVLSIPA AVVRIC SAIVRDEKSIMPVSSRLEG YLGIQDVGMSVPS ASAVMMAEAYLKDKKRVLPVSSRLEG YLGIQDVGMSVPS ASAVMMAEAYLKDKKRVLPVSSRLEG YLGIQDVFLSVPC SACRILEALLHNEQRVLPVSTRADGHHGIE DVCLSIPS AIVATVNSISTPTPFRRFGAGVVSDGSYGVPSNMVFGFPL AAVSELVRAIALDSKKLFPCSALLEGEYGL SDISIGVPC ISITAMVESIIKDKHRVIPCAAAYLEGDHYGASGIFIGVPC |
| UniRef90_U6B8C4 UniRef90_UPI00037EE0FB | T S GII Q M A E S Y IL K N K K N IV L IP C A A KL S G Q Y G V D G F Y V IV G V IP C A T IV K K G T Y G L D E D L F V G V IP T |
| UniRef90_R6UV85 | SUNRLVHA ILDDENVILTVSAYQNNEYGQEGLY IGVPA |
| UniRef90_B7JVP2 UniRef90_UPI000273C4CA | S S A CL MI E A ILLIR D Q S RILLIP A A A Y ILIS G E Y GILIN D DI IFI I GIVIP C S VIA D L IT D T I I M K N L K K I I H S V S T M I K G L Y G I K E E V F L S V P C |
| UniRef90_UPI00039C92C4 | VI A HL VR TI QS D QG S V L P V S VR L H G E Y G L H D V C L S L P V |
| UniRef90_S6AYD9 | ALARITKAI LDDENSVLPLSVFQEGQYPGVTDCYIGQPA |
| UniRef90_P62050 UniRef90_R7NS51 | G L A R T R A |
| UniRef90_R5GVV0 | AVVRLC SALVRDEKSUMPVSSLMTGEYGL YDVVLSUPA |
| UniRef90_S9R3S0 UniRef90 UPI00036A4130 | A S A VIM M A E A YIL K D K K R V L P C A A H L IS G Q Y G V K D M Y V IG V P T |
| UniRef90_UPI00046B601E | SVADLAESIMKNIRQ VHPISTMIKGLYVIKDDVFLSVPC |
| UniRef90_UPI0003B7A005 UniRef90_UPI00029A6D32 | S A C R L E A V L R D E H R V L P V S T R A D G H H G E D V C L S L P S A I V A T V N S S T P T P F R R F G A G V V S D G S Y G V P S N M V F G F P L |
| UniRef90_X5DAU6 | A A V S E L V R A L A L D S K K L F P C S A L L E G E Y G L S D L S I G V P C |
| UniRef90_D4L5E6 | SIVRIVRAI LQDENSVITVSVRLRGEYGGKKDVFIGNPC |
| UniRef90_T0N509 UniRef90_R7F3A2 | CL VRITT NAILGDENTILITVS TYDK DNDVYVGL PT |
| UniRef90_M3J7P0 | ALISKI I KA I FQNEKAI LIPLISVIFLIDGLYG_EEDVCIGAPA |
| UniRef90_R7B3C0 UniRef90_A2VHD9 | A SLAK MVE ALLT D S H E V M S V C S Y L D G P Y G L H D L Y M N L P T R |
| UniRef90_UPI000219771A | A L A R I C K A L L A D E S T V L P L S N M M T G Q Y G V S D L Y L G S P A |
| UniRef90_R6C5E7 | |
| UniRef90_R7A677 UniRef90_R6CBK8 | STTAIVKS I LIFNENRI LPVSVLVEGLYGIDQVY LSVPTVCRLCGLLLSAYDSTATVSS MMHGEYGID DVCLSTLSASVVKIVEAILKDSKRIFSCSAFLTGQYGL KNLFLGVPVVTTATLCEALNYDTDSVLTLSTMLDGEYGI KDVCLSIPT |
| UniRef90_U3Q6A2 | ASVVKIVEALLKDSKRIESCSAFLTGQYGL KNLELGVPV |
| UniRef90_UPI0003B68296 UniRef90_Q55383 | VTTATLCEALNYDTDSVLTLSTMLDGEYGI KDVCLSIPT SSAAVMVESILRNQSRILPAATYLDGAYGL KDIFLGVPC |
| UniRef90_I2K9G7 | KSTAII MIVIEAII II KDTKOII I <mark>HPC</mark> AIVIYII IDGHYGYSDIVVIS GIVIPIVI |
| UniRef90_R9LNS2 UniRef90_C5CGP2 | ALRRI VSAVLNNER <mark>C</mark> I LPVSSYQEGQYG RSGYFIGTPS AVARI LET <u>LAG</u> DHHSVLTVSSVHEE FRGMRDVPFSVPS |
| UniRef90_K6WMW2 | AATRI VEA VLNDEHRVLPVSTVAKG YEGLDDVCLSLPT |
| UniRef90_R7HGQ8 | |
| UniRef90_U2FTZ3 UniRef90_T0N605 | SVFRIVQAVSV NEHSILPVGVMLQGEYGLDD VVLSVPA I A I T A MVESI I K D R R R M I P C A A F V D S K H Y S A Q G L F I G L P I |
| UniRef90_UPI00040F5D5A | SVRRICEALIR DEKSILPISSIQHGENGVD DIALSMPA ATVCQLVGLILAASDSLATVSSMLHGEYGLE DVCLSTLT |
| UniRef90_R5I5E8 UniRef90_R5XC55 | A T V C Q L V G L I L A A S D S L A T V S S M L H G E Y G L E D V C L S T L T V L A R L V R A V L N D E N S I F T V S A Y L C G E Y G E N G I Y L G V P A |
| UniRef90_W0THK6 | A STA A MVD A I SHNRRRL LPCVAI LEGEYG QQNI A MGVPC |
| UniRef90_UPI00046F2452 UniRef90_R5MSF8 | A V R R I V E A I L R D E N V V L S V S S L M Q G Y Y G V E D I C L S L P T A L V R I V K A I F G D E K S V L T V S S M F R G E Y D I N G V Y A G I P S |
| UniRef90_R6ZIB9 | SVKRI CEALVR DERSI LIPVSGMMHGAYGI N GILALSMPA |
| UniRef90_M5AYJ3 UniRef90_G4CLV3 | CL MRITKA I LRDENAILPI GAALNGEYGLD DIFI GTPA GLACITKA I LHNQNVVLTI SALLEGEYG EHDVYI GVPA |
| UniRef90_UPI00047DCF94 | ALTRIVEA ILIGOENSI LITVS SLLEGEY GINDIY LIGVPS |
| UniRef90_G2D928 | A A I T S M I D A I A N N R R R I M P T V A I L Q G E Y G A E K I A M G V P C A L C R I C S A I S N N E Y A I L N V S T H H D D V E G I K N V C L S L P T |
| UniRef90_R6HRR9 UniRef90_E0IGK3 | ALAHLVRS MENDDYNITAVSAVLEGEYG EREV <mark>C</mark> AGVPA |
| UniRef90_A0A059MR00 | STARII VIE AIVI IL IR DQHRIV L IPIVISTIL IQRGIVIH GII IDG IVI <mark>C</mark> IL ISIL IPT |
| UniRef90_K9SRM3 UniRef90_A0A023CZQ0 | |
| UniRef90_P62054 | A CLT KI VN A V L R D E K S T L M V G A Q L N G E Y K N K D L Y T G V P A S V R R I C E V I M R D E K S I L P V S H M I H G A Y G I E D V V L S M P A S V T R I C E A I I R D E K S I M T V S N Y W P E L H G V K D V V M S M P A S V M D L V G S I L K N L R R V H P V S T M V K G L Y G I K E E L F L S I P C S V A D L T E S V L K N L S R I H P V S T M V K G M Y G T E N K V F L S L P C L A R I C E A I L G D E N S V L T V S T L V P Q Y G V Y M G V P C |
| UniRef90_R5NYU5 UniRef90_R5FYY8 | SVRRII CEVIMR DEKSILPVSHMIHGAYGIE DVVLSMPA |
| UniRef90_UPI000273D9D7 | SVMDLVGS LKKNERRVHPVSTMVKGLYGIKEELFLSIPC |
| UniRef90_G1MBW7 UniRef90_K6QEQ3 | SVADILITESV LIKNILISRI HPVSTMVKGMYGTENKVFLISLIPC |
| UniRef90_U2XUN0 | A A A L E M A E S Y L K D Q K R V L P C A A H L N G Q Y G Q K G L Y V G V P V |
| UniRef90_B4LKK3 UniRef90_S2XH58 | TVAD VVSAIFENSNRVLSLSTNANGM <mark>C</mark> GIKENIFLSLP <mark>C</mark> GL MHISKAILKNQNTVLTVSSYLEGEYG HSGVYTGVPT |
| UniRef90_H3AA37 | GL MHISKALLKNQNTVLTVSSYLEGEYG HSGVYTGVPT GIYTMLRYWYQGSPPDVISVGVLSEGHFDIPNGIVESMPV |
| UniRef90_E3BRJ6 | AILIA RILITKA ILI IN DEHAIVI IPILISIVIS MNGEYGILI H DILIHILIGTPA |
| UniRef90_A9FSL2 UniRef90_UPI00041A92B2 | A TAKI LEA LLRDENRVLPVSSLLSGYRGID DVCLSVPCAIAHIVRS ILNDDHKITAVSAILQGEYG ETDVCAGVPASVVGIIKSIFH DEKKVIPVSALLDGEYG EKDVYAGVPATVASL VSMILDNKNEVATVSTLAREREGIENDVFLSLPV |
| UniRef90_F4A3L9 | SVVGI IKSLEH DEKKVIPVSALLDGEYG EKDVYAGVPA |
| UniRef90_W8BJU3 UniRef90_G2SRC0 | T V A S L V S M I L D N K N E V A T V S T L A R E R E G I E N D V F L S L P V A L A R I S K A |
| UniRef90_L9KRK0 | ALARISKA LRDEDTVLPVSAYMDGQYGINDVY IGTPA SMADLTES MLKNLSRIHPVSTMVKGMYGLENEVFLSLPL |
| UniRef90_D2NTC0 UniRef90_W2STE0 | S G A R I A E A F L G G Q N A V L P V S T T I A G E L Y G F K D V A L S L P T S V A K I T R G I M R N D F S Q C V S A T R Y V Q G L H G I T D D V Y L S V P C |
| UniRef90_UPI0002F90DBE | SLMTLS RAVILHNENLVLPVGAPVDGQYGLSDMY I GTPA |
| UniRef90_H3SL21 UniRef90_R7AGX3 | S S V V A M M E A V L K D K K A V M P V S A Y V K G E Y G I A D L F V G V P V S V K R I C T A I M R D E D C V L P V S S L M V G E Y G L N D I A I S M P T |
| UniRef90_B0PC22 | AV LRI AE AI VR DERSVLPVSVLTDGHYGL HDVCLGLPA |
| UniRef90_F8IBN2 | SLAEMVKAVLL DERRILPVISYLNGEYG ETDIYVGVPA |
| UniRef90_W4CU84 UniRef90 Q4JY42 | A L A Y I T R S |
| UniRef90_L7L6M4 | GLARITQA VFSNQDVVLPISTLLQGEYGFEDIY IGTPA ATARIAEAIVN NEHRVLPVSSLIEEDFHGLSDV <mark>C</mark> LSLPT |
| UniRef90_R7BEX1 UniRef90_Q7NG49 | AAVAITKAIMN DENKIIPVSTYLEGEYG ETDVYAGVPT ATTQIYRALTR NQNRVLPVSVLMSGLHGLE EV <mark>C</mark> LAYPA |
| UniRef90_M3I535 | ALARITKA ILNDENTVLPLSVYQYGQYQGVKDVFLGQPA |
| UniRef90_R6H8B8 UniRef90_L8LRM7 | ALARITKA ILNDENTVLPLSVYQYGQYQGVKDVFIGQPASVTRICEAIVR DQKSIMTVSNYRTDVQGVPDVVM SLPATVTDIVKALMRS QERVLTVSSLVQGFYGIE NICLSLPA |
| UniRef90_L8LRM7 UniRef90_T1EM25 | TVTDIVKAIMRS QERVLTVSSLVQGFYGIE NI <mark>C</mark> LSLPA MLSTLVNS ILKNQKLIYALTTLAQGYHGIKEEVFLSLP <mark>C</mark> |
| UniRef90_UPI0002D2BE4A | MISTLVNS I LKNQKI I YALTTLAQGYHGI KEEVFLSLPC AGSRI I EA VLKDERRI LPI SSLLDDYHGI SDVCLSVPT ACVGI LKA I LFDENKI I PVSTL LEGEYG EKDMFAGVPV |
| UniRef90_E6LF27 UniRef90_W0HVM1 | A C V G I I K A I L F D E N K I I P V S T L L E G E Y G E K D M F A G V P V T I A E C R N L L T G S H R A L T V S C V L D G E Y G Q R G L A I G V P A |
| UniRef90_UPI0003661EA7 | A A A RMA K A V A E D S G A V M P V C A W V D G E Y G I E G V Y L G V E A S V T R I C E A I I R N E L S I L P V S T L M C G Q F G L E D I C L S M P A |
| UniRef90_UPI0003B34D57 | SIVIT RI <mark>LIC</mark> E AILIIR NEILISII LIPIVISTILIM <mark>C</mark> G Q F GILIE DIII <mark>C</mark> ILIS M P A |

| | | 200 200 240 220 |
|--|--|---|
| Jinkeiso UP1000273C4CA Jinkeiso UP1000273C4CA Jinkeiso UP100039C3C4 Jinkeiso P62060 VI N R A G V R V V P N A D A E A D N V R D D A JINKeiso P62060 VI N R A G V R V V P L N A D A E A D N V R D D A JINKeiso R7850 VI N R A G V R V V P L S L T A D T H M K K L Q S L A D D L L K D JINKeiso R7850 VI N R A G V R S V V P L S L T A D T H M K K L Q S L A D D L L K D JINKeiso R7850 VI N R A G V R S V V P L S L T A D T H M K K L Q S L R L V Q G L L R L V Q M D D D D D D D D D D D D D D D D D D | UniRef90_F2I3I4 | VIICOOCIIEKIVI IEII IEI IDEEEKKVEDIIGII AANVKDII IEEAAKKII |
| Jinkel90 | UniRef90_R6WUD5 UniRef90_U6B8C4 | VIGRGGVEKI I ELDLSSDEKTAFEKSVK |
| Jinkeiso UP1000273C4CA Jinkeiso UP1000273C4CA Jinkeiso UP100039C3C4 Jinkeiso P62060 Jinkeiso P62060 Jinkeiso P62060 VI N R A G I VR R V N I P L N A A EL A D L R R S A A D N V W R D A JINKeiso P62060 VI N R A G I VR R V N I P L N A A EL A D L A S A A K D L K R D JINKeiso P62060 VI N R A G I VR R V N I P L S L T A D T E M K K L Q S L A E L M D A JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A E L M D A JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A E L M D A JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A L K D JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A L K D JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A L K D JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A L K D JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A L K D JINKeiso P62060 VI N R A G I VR R V V I L E L S L T A D T E M K K K L Q S L A L K D JINKeiso P62060 VI N R A G I VR R V V I L D L V R V D L R A R R V Q A L R R R V P M L D L V R V P M L R R A R V Q A L R R R V P M L D L V R V P M L R R A R V Q A L R R R V P M L D L V R V P M L R R A R V Q A L R R R V P M L D L V R V P M L R R A R V Q A L R R R V P M L D L V R V P M L R R A R V Q A L A R R V P M L R R A R V Q A L A R R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R A R V P M L R R R A R V P M L R R A R V P M L R R R A | UniRef90_UPI00037EE0FB | KI TANGVEPLE VEI TEKERAQUQVSL |
| | UniRef90_B7JVP2 | L L G C R G V K Q I L E V S L T E A E K M S L H I S A N S V R K N V E L A L E |
| | UniRef90_UPI000273C4CA | V L G K D G L S D L L K I T M N P E E E A L L R K S A D N I WE I Q Q E L K |
| | UniRef90_S6AYD9 | I VG A H GI VR PVNI PL N D A E K Q K M Q A S A K QL K DI I N D A |
| | UniRef90_P62050 | VINRAGINRVVELELTAHEMERFIHSANTLREVQE |
| | UniRef90_R5GVV0 | V V D A N G I E T V V P I E L S E T E L L A L K K S A D L L K D |
| | UniRef90_S9R3S0 | I VNRGGVEAV LELPLNESEREGLKHSADTLR |
| | UniRef90_UPI00046B601E | I L G Q N G I S D L V K V T L T P E E E G R L K K S A D T L W G L Q K E |
| | | R T E GIVN WS L VIO GILLY LID E Y ALLARIV O E NILLA ELLIH H E |
| | UniRef90_X5DAU6 | TIGKNGTEKI VELELSAAEKEKILAASAE |
| | UniRef90_D4L5E6 | SI GSNGVERI YDMDFTAEEKALWEKTVKGVQEN <mark>C</mark> KKVDDF |
| | UniRef90_R7F3A2 | V L N R N G A D K K I Y I T L N L E E T N R L Q K S I D L I R D A I A S L K |
| | | LGKNGVEELVE FOLTEDEMAALQESAASVK |
| Jimengo Reciser | UniRef90_A2VHD9 UniRef90_UPI000219771A | I I N R K GEQ QETEVPEN D F F S A O M K K S A A FE |
| June 19 | UniRef90_R6C5E7 | VINKDGAVKKMEVDLNRTEQEKLDNSLNVIKEALKRLEE |
| Junkergo U306A2 | UniRef90_R7A677 UniRef90_R6CBK8 | ILLINSSGAKETIVIETI KILLIPEEKEELLIQSAKILLISSFYEELK MITIGPNGLIKGKVPVPLITDEEVIEKLIKKSADALKSVTAOIT |
| Jinkey J | UniRef90_U3Q6A2 | LIGKYGIEKUVELQLNEKENNELEKSADHVR |
| JAINGRIGO (289G7) JAINGRIGO (280M2) JAINGRIGO (350G2) JAINGRIGO (350M2) JAINGRIGO (3 | UniRef90_UPI0003B68296 UniRef90_Q55383 | RLGCRGVEDILEVQLTPEEKAALHLSAEAVRLNIIDVALAM |
| | UniRef90_I2K9G7 | ALGANGVEKLFEMTLNDDQKERFAKSVGSVKSMLDVLKEK |
| Jinkel90 KOWMW2 | UniRef90_C5CGP2 | V L G K K G L E R L P L K L S D D E L K G L E N S A K V I K A A L E S L L E |
| JURINGENO LUPTONOSOS JURGENO LUPTONOSOS JURG | UniRef90_K6WMW2 | L VIS R S G A G S R L H V P M S E E E H A G L M S S A E T L R K M Q E Q F |
| Jankelgo (1900) | UniRef90_U2FTZ3 | V I D R T GVA RV I D C P L E D E E R K R L H D S A A F L R GV I D T V R H E |
| Junker90 RSISE8 Junker90 WOTHK6 Junker90 WOTHK6 Junker90 RSWS75 Junker90 RSWS78 Junker90 WOTHK6 Junker90 RSWS78 Junker90 WOTHK6 Junker90 RSWS78 Junker90 WOTHK6 Junker90 RSWS78 Junker90 WOTHK6 Junker90 RSWS78 Junker90 WOTHK6 Junker90 RSWS78 Junker90 WOTHK6 Junker90 RSWS78 Junker90 WOTHK6 Junker90 RSWS78 Junker90 WOTHK6 Junker90 WOTHK | UniRef90_10N605 UniRef90_UPI00040F5D5A | |
| | UniRef90_R5I5E8 | L V G P N G I Q G K V Q M R M N K E E V E L L K K S A N A L K E V I A Q I |
| Jinker90 | UniRef90_W0THK6 | V L D E Q G L A E V V V L D L N N E E S E A F R E S A A |
| Jimierio Reziries | UniRef90_UPI00046F2452 | L VN A K GVA R V L E L P L S Q S E Q E G F R R S A E I L K L L G R D G V R E I V T L D L T A E E E K K L K E S C E I L K N A S E G L K |
| Jinkel90_MSATJ3 | UniRef90_R6ZIB9 | I VGANGIETHVPIELSEKEQEKLRŪSAQTIKQVAEEMK |
| Jinkef90 | UniRef90_M5AYJ3 UniRef90_G4CLV3 | |
| | UniRef90_UPI00047DCF94 | I V C S S G I K N I I E V Q L S P S E L A A L N S S A D K L K E |
| JINKEY9U | UniRef90_R6HRR9 | V L G K R G V H N V V T P V L N D E E R K Q L A D S A K V M K E Y S D K A L E M |
| Jinker90_A0A023CZQ0 Jinker90_A0A023CZQ0 Jinker90_A0A023CZQ0 Jinker90_A0A023CZQ0 Jinker90_A0A023CZQ0 Jinker90_RE2054 Jinker90_RE2055 Jinker90_R | UniRef90_E0IGK3 UniRef90_A0A059MR00 | ILLIKKGILAEL VIELNILTAEERASFAFSSSVI RSAVAKL ILVIDGRGAGRIVLEI IPILISPDEAAGILIRASAOTII RFIVIO |
| Jinkergo De2054 Jinkergo De2055 Jinker | UniRef90_K9SRM3 | QL G Q E GVD MV V E L GL S P E E C E AL H T S A A T E V V E A C E V E V E A C E V V E A C E V E V E A C E V E V E A C E V E V E A C E V E V E A C E V E V E A C E V E V E A C E V E V E V E A C E V E V E V E V E A C E V E V E V E V E V E V E V E V E V E |
| JAIRE690_RSNYU5 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP1000273D9D7 JAIRE690_UP10002790D8E JAIRE690_UP1002790D8E JAIRE690_UP1002790D8E JAIRE690_UP1002790D8E JAIRE690_UP1002790D8E JAIRE690_UP100278000P2000P2000P20 | UniRef90_A0A023CZQ0 UniRef90_P62054 | |
| | UniRef90_R5NYU5 | I V G A D G V E T D I P I K L S G E E A L K L K E S A D A L K E |
| | UniRef90_UPI000273D9D7 | VLGRNGVSDVVKLNLNSEEEALFKKSAETLWNTQKD |
| JniRef90_U2XUN0 V | UniRef90_G1MBW7 UniRef90_K6QEQ3 | |
| | UniRef90_U2XUN0 | VIGAKGVEKTVELKLDAGERVGFRKSV |
| JniRef90 | UniRef90_S2XH58 | VINGEGATHI VETPLNEEEKEKFEKSVNILKNMQQSLNHL |
| | UniRef90_H3AA37 UniRef90_E3BRJ6 | K F H S G G W E V H T D L L L I G D D L K E K L T A L A S E L T Q E L N T A L S E V V G R K G L E Q V L E M P L N F D F O K R M F A S A K O L K D V M D A F K F |
| | UniRef90_A9FSL2 | I VNRSGVESQLPTPMSSEEEAGVRASADTLR |
| JniRef90 | UniRef90_F4A3L9 | I I G K N G V E K V I E L E L I D E E K D K F K K S L D L L K |
| JniRef90_L9KRK0 JniRef90_L9KRK0 JniRef90_L9NTC0 JniRef90_UP10002F90DBE JniRef90_UP10002F90DBE JniRef90_H3SL21 JniRef90_R7AGX3 JniRef90_B0PC22 JniRef90_B0PC22 JniRef90_F3IBN2 JniRef90_W4CU84 JniRef90_W4CU84 JniRef90_C1ZH6M4 JNIR | UniRef90_W8BJU3 UniRef90_G2SRC0 | V L G A N G V T S F I K L Q L S G L E Q Q R L C K S A E T L V V C A D G I K Q V I E V P I N E E E O T K M T E S A K T I K |
| JNIRef90 | UniRef90_L9KRK0 | I LNARGLTŠVI NOKLKDNE VAQLKKSADTLWDLQKDLKDL |
| JniRef90_UPI0002F90DBE | UniRef90_D2NTC0 UniRef90_W2STE0 | V N K E G Q K V L E V P M N E A E L A Q L K A S A E A R A V V G V N G V T H V V K Q T L N K E E E K L H Q S W K T L F T V O T O |
| | UniRef90_UPI0002F90DBE | LINENGLAKVLEVPLTDEEQAKMVASAKQLKQVLDDAM |
| JniRef90_B0PC22 | UniRef90_R7AGX3 | I I G K D G V V C R V P V A L S D D E M A Q L H G S A D A L K A I I D Q V |
| JniRef90_W4CU84 JniRef90_Q4JY42 VI NRQGVRHAVELQLDSEEKERFDHSANVLR JniRef90_L7L6M4 LVDAAGAGPRLPIAMSADELAGERSADTLKEMQA JniRef90_Q7NG49 VLNRHGAYDVLELHMSPSELARFKDSARVMRQTLDGL JniRef90_M3I535 JniRef90_R6H8B8 IVGSKGVEFPIPLQLSIDEAELLHSSAQVLTELFTELK JniRef90_L8LRM7 VVNEKGIIKKLNVVLSEREKEQLIKSAQVLTELFTELK JniRef90_UP10002D2BE4A LVGSFGAGDRLVKFSLSPGEEEQLQK JniRef90_UP10002D2BE4A LVGSFGAGDRLVKFSLSPGEEEQLARSARVMRQTLDGL JniRef90_UP10002D2BE4A LVGSFGAGDRLPIPMSVDELSGLHRSADALRE JniRef90_UP10003661EA7 JniRef90_UP10003661EA7 JniRef90_UP10003834D57 FVGSHGVVETKLTDAEVAASEAVRAKVVIFFA | UniRef90_B0PC22 UniRef90_F8IBN2 | I VIGRSGI QKI LIDEPLINTEE |
| JniRef90_L7L6M4 JniRef90_L7L6M4 JniRef90_L7L6M4 JniRef90_R7BEX1 JniRef90_Q7NG49 JniRef90_M3I535 JniRef90_R6H8B8 JniRef90_L8LRM7 JniRef90_L8LRM7 JniRef90_L9LBLRM7 JniRef90_UP10002D2BE4A JniRef90_UP10002D2BE4A JniRef90_UP10003661EA7 JniRef90_UP10003834D57 V I N R Q G V R H A V E L Q L D S E E K E R F D H S A N V L R A M S A D E L A G L R R S A D V L K E M Q A JN S E E K E R F D H S A N V L R A M S A D E L A G L R R S A D V L K E Y T N K I M E JN A M S A D E L A G L R R S A R V M R Q T L D G L V L N R Q G I D R L V K F S L S P G E E E Q L Q R S A R V M R Q T L D G L V L N R Q G I D R L V K F S L S P G E E E Q L Q R S A R V M R Q T L D G L V L N R Q G I D R L V K F S L S P G E E E Q L Q R S A R V M R Q T L D G L V L N R Q G I D R L V K F S L S P G E E E Q L Q R S A R V M R Q T L D G L JniRef90_R6H8B8 I V G S K G V E F P I P L Q L S I D E A E L L H S S A Q T L K V V N E K G I I K K L N L V L S E R E K E Q L I K S A Q V L T E L F T E L K JniRef90_UP10002D2BE4A L V G S F G A G D R L P I P M S V D E L S G L H R S A D A L R E JniRef90_UP10003661EA7 JniRef90_UP10003834D57 F V G S H G V D T L L P F E L D V S E L L A L Q K S A A T L K K V I F F A | UniRef90_W4CU84 | I I GNTGI QELLELNINTEETQKINNS |
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| V | UniRef90_R7BEX1 | V L N R H G A Y D V L E L H M S P S E L A R F K D S A R V L R E Y T N K I M E |
| JniRef90_R6H8B8 I V G S K G V E F P I P L Q L S I D E A E L L H S S A Q T L K JniRef90_L8LRM7 V V N E K G I I K K L N L V L S E R E K E Q L I K S A Q V L T E I F T E L K JniRef90_T1EM25 V I G E K G I A A V F N Q N L S Q D E I E K L K I C A H JniRef90_UP10002D2BE4A L V G S F G A G D R L P I P M S V D E L S G L H R S A D A L R E JniRef90_W0HVM1 V M S Q A S D I L E I H M T E D E Q T K W Q A S T D V I K E F T N K I R H JniRef90_UP10003661EA7 E I G A A G V R K V V E T K L T D A E V A D L K A A S E A V R A K Q A D V A S L JniRef90_UP10003B34D57 F V G S H G V D T L L P F E L D V S E L L A L Q K S A A T L K K V I F F A | UniRef90_Q7NG49 UniRef90_M3I535 | I I G A H GI VR PV NL PL N D A E L Q K |
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| UMSQDGVAQIIELDFTPQERRQFETSAAVIEQRRLAVKH JniRef90_UP10003661EA7 EIGAAGVRKVVETKLTDAEVADLKAASEAVRAKQADVASL JniRef90_UP10003B34D57 FVGSHGVDTLLPFELDVSELLALQKSAATLKKVIFFA | UniRef90_UPI0002D2BE4A UniRef90_E6LF27 | IL VIGS F G A G D RIL IPIT IP M S [V] D E [L] S G [L] H R S A D A L R E I L N R Q G A S D [|
| JIIIREIBU_UFIUUUSOOTEA/ EII IG AA GIVIK KIV VIET KILIT DA EIVIA DILIK AASEAIVIK AK QA DIVIA SILI JNIREIBU_UFIUUUSOOTEA/ EII IG AA GIVIK KIV VIET KILIT DA EIVIA DILIK AASEAIVIK AK QA DIVIA SILI | UniRef90_W0HVM1 | VMSQDGVAQUUELDET PQERRQEETSAAVUEQRRÜÄVKH |
| | UniRef90_UPI0003661EA7 UniRef90_UPI0003B34D57 | FVGSHGVDTLLPFELDVSELLALQKSAATLKKVIEEA |

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UniRef90_S9R3S0
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UniRef90_UP100041A92B2
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|---|---|
| UniRef90_U5VDI6 UniRef90_S0JEP4 | K <u>L S I V G A G M V G E A A A Q A I A R E E L <mark>C </mark></u> |
| UniRef90_R5TQZ7 | KVVIIG <mark>C</mark> GNVGMSYAYALLNQ RTQVNELVLI |
| UniRef90_Q98PG4 | KVVLIGTGNVGVTVVYT |
| UniRef90_K7J615 UniRef90_E1QUL2 | KVIII VGAGMVGI A CCNALLFQKI SSH I ALV |
| UniRef90_Q6ZZC6 | DIV V L Y |
| UniRef90_UPI00047CF493 | TTGTKLGI VGAGSVGTSLAY AALVRGSADHI AI Y |
| UniRef90_UPI000288FE2E UniRef90_UPI000375CE3A | KLIII VGAGSVGASAAY AALIRGSARQII ALIY _KLAVVGAGSVGTSLAY AALIRGSASSI ALF |
| UniRef90_Q9P7P7 UniRef90_UPI000360BD98 | K S K V V G A G N V G S T T A F T L L S G A A E V I A A K F G D V V V |
| UniRef90_A0A024DAD9 | K T A L V G S G M T G G T M G F L C S L R E L G D V V L F |
| UniRef90_A4WAE8 | T K A R K V M L I G A G N V G A S A A Y A L L N Q N C E E L I L V |
| UniRef90_B2S1S1 UniRef90_W4Q0W6 | S S F A Y A L <u>T I D</u> N <u>S L V I H </u> |
| UniRef90_UPI00036CF85A | MKVSI I GGGGVGS <mark>C</mark> AAFALQ <mark>C</mark> GGI VS ELQL I |
| UniRef90_E6NB57 | MPL I TV VGSGRVGTSAALQLALREL GDIVLV |
| UniRef90_Q704B2 | I TV VGSGRVGATTA AMLGVLGVDNK I VLI |
| UniRef90_R5QVJ9 UniRef90_H9KER0 | M K V G I G A G N V G S A T A F A L V M R G V A R K V V L I S E P V K V T V V G S G M V G V N A L I F Q K I T A H V A M A M |
| UniRef90_M3VEF8 UniRef90_W4CD15 | R R K L T V V G A G A V G T A L A Y A A L L R G V A R T V A L L K V A V L G A G L V G S S C A Y S M L N O S L C R F L M M V |
| UniRef90_UPI0002234979 | RKVTI VGTGĀVGMĀ <mark>C</mark> ADŠI LLKDĒT |
| UniRef90_UPI00046A62B6 | MSKKVFL VGDGSVGSTFA NDLLQNTRVDELVI |
| UniRef90_L1LFX8 UniRef90_J9JMB3 | K R R L I I S L L I G A G N I I G G T M G F L A Q L G E L A D V V L F S G P L R V V V T A A G Q L A Y S L L F K L A N G E V F G T Q Q Q V I L H L I I |
| UniRef90_UPI000362594C UniRef90_T0I_381 | KLAVIGAGSVGTALAY AALIRGSARQVALY |
| UniRef90_D4KE67 | MKI SVI GAGNVGAT <mark>C</mark> ANVLAÜK NFATEVVLÜ |
| UniRef90_Q4N6I8 | LSLIGSGNIGGUMGYLSQLTELADT VFF |
| UniRef90_V2XQQ9 UniRef90_Q6A9C3 | R K A V M V G <mark>C</mark> G F V G S A S V F A L M Q S G L F S E I A M I K I S V V G A G S V G S S L A Y A <mark>C</mark> L I R G S A G L V S L Y |
| UniRef90_F0QQS1 | MPVKI AVI GCGAVGSSFLYSALHQNL ASEYGI L |
| UniRef90_R5ICX5 | KLTVIGAGSVGSTLA NOLMLQGTASELVLI |
| UniRef90_W6UKH2 | IMTKGIANTVÄLY |
| UniRef90_R5G950 UniRef90_R6CRM5 | R K V V I I G A G H V G S H C G Y T L A H S G I T D E I V L V R K I I I I G A G H V G S H A G Y A L V S Q G L A E E I V Y I |
| UniRef90_I6XQ70 UniRef90_UPI00038330D0 | KLSI I GAGAVGS SLAYASLI R GVARH KPLQI WI T GAS PI CYHI I PLIAN G FVE G M T T FI SI HI I |
| UniRef90_A0A031FVS4 | K V V L I G A G M V G A T T A |
| UniRef90_X0PAN5 | KVILVGDGAVGSSYAFS MLQNNGADEMVIV |
| UniRef90_A0LRV1 UniRef90_UPI0002E97E77 | R T K I G I V G A G F Y G S T T A Q R L A E Y D I F E T V V L T R T K I G I V G A G S V G T S L A Y A A M I R G T A T D I A L Y R K L T L V G T G A V G M A C A I C I L L K D L A D E L A L V |
| 011111010000000000000000000000000000000 | |
| UniRef90_UPI00047B4CF6 UniRef90_D3NY47 | K V V I I G A G A V G T S F M Y S A I N O G I A S D Y V I I |
| UniRef90_H6N407 UniRef90_S7PVK8 | MKVGIVGAGFVGSTAAF AMVTTGAASEVVLV KLAVIGAGAVGTAVAY ASLIRGVARTIALM KITIVGVGAVGMA <mark>C</mark> AISILMKDL ADELALV |
| UniRef90_UPI00045420D9 | T D E L A L V |
| UniRef90_K2G3G6 UniRef90_UPI000359E2D4 | PMRVAIT GAGQIGY SLLFRIAS GEMLGK DQPVILQLL KVSIIGTGSVGMACAISIVAKGL ADELALV LGLVGTGSVGASVALSL LTSGVTRKLLLH |
| UniRef90_K9PZR7 UniRef90_D9Q057 | T G A MIV L LIR DILID DIVIMIL I I |
| UniRef90_UPI000429D7A5 UniRef90_M7AJ90 | R K I V I I G A G H V G S H G G Y A L L S Q G L T E E I V Y I L |
| UniRef90_S2ZMX3 UniRef90_UPI0003B77AF4 | PSK A I I GAGAVGTAVAYA <mark>C</mark> AMR GDARSIVLQ LAVVGAGSVGTSTAY AAMLRGS <u>A</u> RHVRLY |
| LINIDATOO HTECCO | |
| UniRef90_F/F0C3 UniRef90_D5UDQ4 UniRef90_B1ZR97 UniRef90_A9A450 UniRef90_H1PY92 UniRef90_R8EKZ6 UniRef90_I3DJX3 UniRef90_K0YW34 UniRef90_C2EVY9 | K P R K V MI I G A G N V G T A A A H A F V N Q R F I E E L I L V M K V T I I G A G A V G A T A A D N I A R K E I A S E V V I L K L G I V G A G A V G S T M A Y A S L M R G A A R T V A L L M K L T I I I G G G G V G S N A A F A L Q C A G I V S E I Q L L I T I I G S G K V G G D A A L F S A L K R L D D Q I L L L R K I G I I G A G H V G S H C A F S L I L Q G V C D D I T F V |
| UniRef90_B1ZR97 UniRef90_A9A450 | M K L T I G G G G V G S N A A F A L Q C A G L V S E I Q L L |
| UniRef90_H1PY92 UniRef90_R8FK76 | RKI GI I GAGHVGSH <mark>C</mark> AFSLI LQGV <mark>C DDİ TFV</mark> |
| UniRef90_I3DJX3 | QTKKVĠĪ VĠŪĞHVĠŠHĊAĊĀĠĀĀĀĀĀLQGVĈDĒMVĹM |
| UniRef90_K0YW34 UniRef90_C2EVY9 | RHKVVLVGDGAVGSAFAFSLLQSN REVDELVIV |
| UniRef90_Q8EUG3 | KTRKVVII GCGAVGTSFILYSAL NOGLE DEYVII |
| UniRef90_W7A9Y2 UniRef90_B6IX40 | KISMVGSGQIGA IVGQLILMENIGDIVLY MKIGIVGAGFVGSTAAY AMVMRGVGSEIVLV |
| UniRef90_U1LL12 UniRef90_A3CYB5 | KVTILGAGNVGLFAAHTISE LPYVSDMLLV |
| UniRef90_F8AMF8 | KVTILGAGNVGIFAAHTISE IPYVSDMLLV MKVSVIGAGRIGSMVSFLLAK EPYINHINLI MRVAIIGGGGLVGSCA GFALQCGGIVSELDLI |
| UniRef90_E8R091 UniRef90_UPI000203581B | MRVAI I GGGGLVGSCA GFALQCGGIVSELDLI PLQIWITSAAPTCYQLIPLLASGDVFGMTTEISIHLL |
| UniRef90_UPI0003D070E1 UniRef90_UPI0003B73373 | L VR G S A R RVALH |
| UniRef90_A6UUM3 | MENSTIGAGKNGTANSVLLAKEKYVRH |

| UniRef90_D3DHB4 UniRef90_U5VDI6 UniRef90_S0JEP4 UniRef90_R5TQZ7 UniRef90_M5RII3 UniRef90_Q98PG4 UniRef90_E1QUL2 UniRef90_E1QUL2 UniRef90_E6AHM2 UniRef90_UPI00047CF493 UniRef90_UPI000375CE3A UniRef90_UPI000375CE3A UniRef90_UPI000360BD98 | DI P R K D G K G K A L DI R Q M L A A L D D A K V E G Y T Y E A L E G S D I D V Q G D L A R G K A L D V W Q A A V E S G S D T R V Y G G A D A Q C L Q S D L D A S F D K A D G E A K D I A H G I P F A G Q M K V Y A G N Y D D I A D A A A I D I N K E K A L G E V M D L N H T L A F A P S S M E I R V G E Y S D C S D A K I D I P Q T E D M P R G K D L M Q A S P L M G F D S N I V G T T S Y D D A D S D V D I N T E F A K G H A M D M S D A I A N S T T G S K I R T G T Y A D A K G A D L D A F P K K L R G E G L D L N H A A A I L G K S V R Y R G S D Y K D M E G S D L D I N E P G S D K D L D L N H A A A I L G K S V R Y R G S D Y K D M E G S D L D I N E P G S D Y K D M E G S D L D I N E G S D I D L D I N E G S D L D I N E G S D I D L D I N E G S D I D L D I N E G S D I D L D I N E G S D I D L D I N E G S D I D L D I N E G S D I D L D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I N E G S D I D I D I D I D I D I D I D I D I D |
|--|---|
| UniRef90_UPI0002234979 UniRef90_B3MHC7 UniRef90_UPI00046A62B6 UniRef90_L1LFX8 UniRef90_UPI000362594C UniRef90_T0L381 UniRef90_T0L381 UniRef90_D4KE67 UniRef90_R6LQB7 UniRef90_Q4N6I8 UniRef90_Q4N6I8 UniRef90_Q6A9C3 UniRef90_F0QQS1 UniRef90_F0QQS1 UniRef90_F0QQS1 UniRef90_F0QQS1 UniRef90_R5ICX5 UniRef90_R5ICX5 UniRef90_W6UKH2 UniRef90_W6UKH2 UniRef90_W6UKH2 UniRef90_W6UKH2 UniRef90_W6UKH2 UniRef90_W6UKH2 UniRef90_R5CRM5 UniRef90_W6UKH2 UniRef90_LPI00038330D0 UniRef90_A0A031FVS4 UniRef90_A0A031FVS4 UniRef90_A0LRV1 UniRef90_A0LRV1 UniRef90_UPI0002E97E77 UniRef90_UPI00036BD2AC UniRef90_UPI00047B4CF6 UniRef90_UPI00045420D9 UniRef90_S7PVK8 UniRef90_UPI000359E2D4 UniRef90_UPI000359E2D4 UniRef90_UPI000359E2D4 UniRef90_UPI000359E2D4 | D QYERAQAEARDFNHAAVFLTDPKITAGGGDGVNTKDSDVDVKERPGGDAMDLED I TPFMGETYVHAGDVSEAKDANV DVVKERPGGDAMDLED I TPFMGETYVHAGDVSEAKDANV DVVVPTLGAAKALDTMHAVTVGNKAGCGVVVKTTKLEYVAGASI DEPSAMEVLEGVCMEDDLALPLVQGYVVKTTKLEYVAGASI DLNAKKVEAEVADLAHGTQYTPTSQIMGGADIEYVAGASI DIDSDLTVGKAIDIGQSTSYSPRGTIVTPALHPEMKDCDI DVKPGVSEGKAMDI QGATAYKCKGTNNYDDIAGSDV DINKQKAFGEAMDI YQGAPFCSPAKGTNYDDIAGSDV DINKQKAFGEAMDI YQGAPFCSPAKGTNYDDIAGSDV DINKQKAFGEAMDI AHGTQFTPASVMG GADVHDTADSDV DINKQKAFGEAMDI AHGTQFTPASVMG GADVHDTADSDV DYSYEVALGQALDLAHGTQFTPASVMG GADVHDTADSDU DVVPNGGAGKSLDI MHANSIQGKAYKCKGTNNYDDIAGSDV DYSYEVALGQALDLAHGTQFTPASVMG GADVHDTADSDV DYSYEVALGQALDLAHGTQFTPASVMG GADVHDTADSDL DVNKQKAFGEAMDL AHGTQFTPASVMG GADVHDTADSDL DVNKQKAFGEAMDL AHGTQFTPASVMG GADVHDTADSDL DVNKQKAFGEAMDL AHGTQFTPASVMG GADVHDTADSDL DVNKQKAFGEAMDL AHGTQFTPASVMG GADVYADAASGSDL DVNKQKAFGEAMDL AHGTQFTPASVMG GADVYADAASGSDL DVNKQKAFGEAMDL AHGTQFTPASSVMG GADVYADAASGSDL DVNKQKAFGEAMDL AHGTQFTPASVMG GADVYADAAGGSDL DVNKQKAFGEAMDL AHGTQFTPASSVMG GADVYADAAGGSDL DVNKQKAFGEAMDL AHGTQFTPASSVMG GADVYADAAGGSDL DVNKQKAFGEAMDL AHGTQFTPASSVMG GADVYADAAGGSDV DVNKQKAFGEAMDL AHGSVFTPSSVAGAALDL DVNKQKAFGEAMDL AAGSVFTPSSDISSEHTELDEAAAALDL DVNKQKAAGGALDL AHGSVFTPSSDISSEHTELDEAAAALDL DVNKQKAAGGALDL AHGSVFTPSSDISSEHTELDEAAAALDL DVNKQKAAGGALDL AAGSVFTPSSDISSEHTELDEAAAALDL DVNKQKAAGGALDL AAGSVFTPSSDISSEHTELDEAAAALDL DVNKQKAAGGALDL AAGSVFTPSSDISSEHTELDEAAAALDL DVNDKKGAGAALDL AAGSVFTPSSDISSEHTELDEAAAALDL DVNDKKKAEAGAALDL AAGSVFTPSSLKVVIGSGNDVSVLKNSDV DVAAVDVKKAEAGAALDL AAGSVFTPSSLKVVIGSGNDVSVLKNSDV |
| UniRef90_D9Q057 UniRef90_UPl000429D7A5 UniRef90_UPl000429D7A5 UniRef90_S2ZMX3 UniRef90_UPl0003B77AF4 UniRef90_H7F6C3 UniRef90_E4RY73 UniRef90_B1ZR97 UniRef90_B1ZR97 UniRef90_A9A450 UniRef90_H1PY92 UniRef90_R8EKZ6 UniRef90_I3DJX3 UniRef90_I3DJX3 UniRef90_I3DJX3 UniRef90_C2EVY9 UniRef90_C4LFJ3 UniRef90_C4LFJ3 UniRef90_Q8EUG3 UniRef90_Q8EUG3 UniRef90_W7A9Y2 UniRef90_W7A9Y2 UniRef90_B6IX40 UniRef90_UTLL12 UniRef90_B6IX40 UniRef90_UTLL12 UniRef90_B8R091 UniRef90_E8R091 UniRef90_E8R091 UniRef90_UPl00003D70E1 UniRef90_UPl0003B73373 UniRef90_UPl0003B73373 | DKNTSRALGEAMDLAHGSSFYPTATVQQVETLSELQKTDA DIKPNAPQGEALDLNHMAAVLGISRRAYGSDYKDMSGSDI DIDEKKAAAQALDLFDSTVYLPKRALIRAGSYEDAAADAEL DINKAKVEAEALDLNHMAAJVLGISRRAYGSDYKDMSGSDI DIDEKKAAAAQALDLFDSTVYLPKRALIRAGSYEDAAADAEL DINKAKVEAEALDLAHGSQFTPAGSSIEGSDDVELVRGSDV DINAAKVEAELLDLAHGSQFTGASDLDGGADLAHILEGADV DINQDRVEGNRKDLADAAAAFMPGKMDISVRDASDOSDVDI DIKEGFAEGKAMDLAQTASGFDTKITGVTNDYSKTAKSDV DVNKAKVDAEVLDLAHGIQFMSMAEVVGSDDVAVMADCDV DVNKAKVDAEVLDLAHGIQFMSMAEVVGSDDVAVMADCDV DVNKAKVDAEVLDLAHGIQFMSMAEVVGSDDVAVMADCDV DVNKAKVDAEVLDLAHGIQFMSMAEVVGSDDVAVMADCDV DVNKEKAVSQAFDCMDTLAFLPHRAVIKSGEIKDLGDKDI DVNEAKAEGEAMDLNHMLSEQGIDVELVKGSNFEDMKGSNI DVNKEKAVSQAFDCMDTLAFLPHRAVIKSGGEIKDLGDKDI DVNEAKAEGEAMDLSHAVPFAPAPTRVWKGSYEDCKDADL DILPEKAKAHAIDCMDTVSFLPHRTIIKDGGIQELSEMDV TRQHDKAYGDALDLAD ITPLTGPTDVFAGNYEDAHDADV NRNPQKSWAKAFDMSHCSPELP DRTIIRSETPEECTGADV DAFDNLSKGNAWDFEDANAIMSTPEECTGADV DAFDNLSKGNAWDFEDANAIMSTPEECTGADV DRNGELADAQARDILHA TPLTGPTDVFAGNYEDAHDADV NRNPQKSWAKAFDMSHCSPELP DRTIIRSETPEECTGADV DRNGELADAQARDILHA TPFAYPTKIRAGSYADLDGAGL DSNHAKAEGEAMDLNHGISFAPPIKIRAGSYADLDGAGL DINGKKSGLDLKHFSTIVGGVGRGARV |

| | 90 100 110 120 |
|--|---|
| UniRef90_D3DHB4 UniRef90_U5VDI6 | I VITAGFPRËSREDLLEKNLSILSVI <mark>C</mark> EKIKQYAKEAL I VVITAGVPRKPGQSRQDVNLPLDGIMRDIQQ <u>H</u> APA ATV |
| UniRef90_S0JEP4 | I <u>I V T A G A S Q K P E E T R L D L V N K N V A V Y K N L P E L </u> A K Q E <u>F Q</u> L |
| UniRef90_R5TQZ7 UniRef90_M5RII3 | VAI A A G A I G E T R M D L I N K N S K I F K S I V T E V R K S G F N G I Y L I V V T A G L P R K P G M S R D D L N A K I I T S V G E Q I K A T S P N A V V |
| UniRef90_Q98PG4 UniRef90_K7J615 | I VVTAGEPRKPGMSRDDENAKI ITSVGEQI KATSPNAVV LIVAAGRPQKQGETRLEMNSKIMKDIALEIKKSGFNGFTI VIVTTGARQESRLELVQRNADIIKSI IIPLAEYSPRAVFV |
| UniRef90_E1QUL2 | V |
| UniRef90_Q6ZZC6 UniRef90_B6AHM2 | I I I TAGMPRKSREDLLEINEKI MTDVAGNI KQHAPN AFV VI I TAGVPRKPRSDLLSI NAKI I SSVAENI KEFCPN SFV |
| UniRef90_UPI00047CF493 | VVIITAGAPGQTRII IDII IAGTNII IRII I IFNII IMPAII I IKIVIAPDAIVIFIV |
| UniRef90_UPI000288FE2E UniRef90_UPI000375CE3A | V V I T A G A P G Q S R L D L A G T N V R T L E Q L M P Q L L E R A P D A V Y V |
| UniRef90_Q9P7P7 UniRef90_UPI000360BD98 | VVITAGKPGETRMDLLKANLSIFKEILREVTKYTKD ALL VIITAGKPGMTRDDLIKTNQKVMASVTREIVKYSPECT I |
| UniRef90_A0A024DAD9 | VII TAG TEWSRKD LL P V N V K IL RD V GAA KQF <mark>C</mark> PH AF V |
| UniRef90_UPI0004697C1E UniRef90_A4WAE8 | VVITAGIPRKPGMSRDDLNAKIIVQIVEEVKKNAPDAITI AVITVSKPGQTRLDELANTARIVKNLVPQMMENGFNGIFL |
| UniRef90_B2S1S1 UniRef90_W4Q0W6 | V |
| UniRef90_UPI00036CF85A | FLITAGKPDESRLDLINRNVALFVQILESLKKAGRKD <u>AL</u> V |
| UniRef90_N9QYP6 UniRef90_E6NB57 | |
| UniRef90_U6LL56 UniRef90_Q704B2 | \\ |
| UniRef90_R5QVJ9 | VIITAGAPGEPRTAL LERNVKI FENI I PQVVKNAPD CML |
| UniRef90_H9KER0 UniRef90_M3VEF8 | I V L A A G A R Q E S R L D L V Q R N S E I L K S I I P T L V G Y S P N A V I V I E T A G A P G Q S R L E L A E A T L E L T R R A L P P I V A A A P D A V F I I |
| UniRef90_W4CD15 UniRef90_UPI0002234979 | VI VTAGBREWS RMDLL FVINL RI WREVERS A V V V V I TAGBREWS RMDLL F QN A QI VANI GKEI AKYAPDS V V V I I TAGAPGEPRTAL LERNVKI FENI I PQV V K NAPD CML I V LAAGARQES RLDL V QRNSEI LKSI I PTL V GYSPN AV I V I FTAGAPGQS RLELAEATIELT RRAL PPI V AAAPDAV FI LL TAGANPK P GQT RLEEAESI AKDL V V PL MN S GFN GLFV AAD KLKGEMMDLQHGS LFFSTS K VI V TAGVR P KS RLEVMHDTI KI FKEL V P KLVSFSPN AI Y L |
| UniRef90_B3MHC7 | VI VT A GVR PKS RLEVMHDTIKI FKEL VPKL VS FS PNALYL |
| UniRef90_UPI00046A62B6 UniRef90_L1LFX8 | AVITAGVPRKPRLDLVAKNVKILKSIVKPIVDSGFHGIFV CIITAGAPEKSRDDLVGFNSKIITTVAENIKKYAPD AFV |
| UniRef90_J9JMB3 UniRef90_UPI000362594C | DAFLLGTMPNNESKELSSNVNTFKLLGEALDKFASKDVKV VIITAGAPGQTRMDLAAVNAGILRDLMPKLVEQAPKACFV |
| UniRef90_T0L381 | V V I IT A GIV P R K T R A DIL L IMII IN A K II IM K E IV V A N IV IM K Y S P D A II I I I |
| UniRef90_D4KE67 UniRef90_R6LQB7 | V V I T S G I P R K P G M S R T D V N S K I V K G V M D Q A L K H S P E A V F I V I I T S G M P R K S R L E L A Q A N V N I L K D I T P Q I V K V A P N A L Y I |
| UniRef90_Q4N6I8 | VIITSGMPRKSRLELAQANVNILKDITPQIVKVAPNALYI CIVTAGAPAKSRDDLVAFNAKILTEVAENIKKYAPK AFV VLVTAGAPDETRLDLVHKNVGIFKSILPEIASR DFKGL |
| UniRef90_V2XQQ9 UniRef90_Q6A9C3 | V F I T A G A R Q K P G Q T R L D V N A N I L R S L M P Q L V E Q S P N A L F V |
| UniRef90_F0QQS1 UniRef90_A3MWU9 | VVITAGRPQKPEETRLEMNAKIISGIARSINDSG FSGIV VIVTAGFPRKPGMTREQLNAKIVSDIGKEIKKYAPDSVVV |
| UniRef90_R5ICX5 | VIIITSGILIPRKSRILIEILIAQANIVINIIIKDII IAPQIIITAAAPDAIIIYII |
| UniRef90_A4J898 UniRef90_W6UKH2 | V V VT A GVR O E S RI NI V O R N V DI EKKETIPTI VE O S PKCITV |
| UniRef90_R5G950 UniRef90_R6CRM5 | V V I A I G E A R K P G Q T R L D M L G R S V E M L K E L L A Q L S P Y K I I V M I V A A G S K G Q T R M D T L R Q T I A I J K D V A E N I R K S G F L G I I |
| UniRef90_I6XQ70 | VVITAGAPGETRMDLAASTVNLMKKVIPPLVERSPEAIFL VIVLDDVLLNCEVQSLENYLEICQVYAPLIEKNAKSEVRV |
| UniRef90_UPI00038330D0 UniRef90_A0A031FVS4 | VVITAGAPGQTRTELAGVNAGILRRMLPELLEVAPNAVYV |
| UniRef90_G8A1G6 UniRef90_X0PAN5 | V V I TA GA P G Q T R T E L A G V N A G I L R R M L P E L L E V A P N A V Y V WAL L I G A K P R E R A A L L D I N G Q I F A E Q G K A L N A V A S R N V K V V V I T A G V P R K P R L D L V A K N A R I L E S I V K P I V K S G F H G V F L V I I T A G V P R K S R M D L L E T N A R I V R G V A E N I A K Y A P S A V V |
| UniRef90_A0LRV1 | |
| UniRef90_UPI0002E97E77 UniRef90_E2RLK0 | VIVTAGARQQERLAL VQRNVNI MKSI IPAL VQHSPDCKML |
| UniRef90_UPI00036BD2AC UniRef90_UPI00047B4CF6 | VIVTAGARQQERLAL VQRNVNI MKSI IPAL VQHSPDCKMLIVVTAGARQQERLAL VQRNVNI MKSI IPAL VQHSPDCKMLIVTAGARQQERLAL VQRNVNI MKSI AEEVKKSGFQGI TVVVLSAGVPGETRLDLLERNAKVFGALIPQVLK AAPDAVLVVFTAGAKQKPGQSRLELAEATIGLTRAL PKEAAPNAVFVI ITAGALQQERLNLVQCNLNI FKFVI PNVVKYSPNCK LVVVTAGVRQQERLNLVQRNVNVFKFI VPQI VKHSPDCT K |
| UniRef90_D3NY47 | V V L S A GVP G E T R L D L L E R N A K V F G A L L P Q V L K A A P D A V L |
| UniRef90_H6N407 UniRef90_S7PVK8 | VIITAGALQQERLNLVQ <mark>C</mark> NLNIFKFVIPNVVKYSPN <mark>C</mark> K |
| UniRef90_UPI00045420D9 UniRef90_K2G3G6 | V |
| UniRef90_UPI000359E2D4 UniRef90_K9PZR7 | VIITAGSPTESRLDLLRDNAAIMRAIASEFVD YKGLI |
| UniRef90_D9Q057 | V |
| UniRef90_UPI000429D7A5 UniRef90_M7AJ90 | |
| UniRef90_S2ZMX3 UniRef90_UPI0003B77AF4 | I I VT A G A P G Q S R L E L A G S T V N L M K K I V P N L Q N V A P D A R F M V V I T A G A P G Q T R L D L A A T N V E I L H T L M P Q L L E R A P E A V Y L |
| UniRef90_H7F6C3 | AVITOTAEGOTRUDEQKSTSKI VASIVPEMMKGGFNGIELI |
| UniRef90_E4RY73 UniRef90_D5UDQ4 | I |
| UniRef90_B1ZR97 UniRef90_A9A450 | FIV VIT A G K P D E S RLDL IN R N VALED SI LA SI K Q A G R K D AL V |
| UniRef90_H1PY92 | V V I T A G A P G Q T R L D L A A T N V E I L H T L M P Q L L E R A P E A V Y L AV I T V T A E G Q T R L D E Q K S T S K I V A S I V P E M M K G G F N G I F L I V V T S G L P R K P G M T R E E L N A K I V G G V V K S A L E V S P K A V I V V M F T A G A P G Q S R L D L A E A T I S L V R K V L P G L V E V A P N A V Y V F V V T A G K P D E S R L D L I N R N V A L E D S I L A S I K Q A G R K D A L V V V V V A G S P G M T R M D L L K I N A S I V K S V V E N V K K Y A D D S M I I I I I C V G T I D K D R L C E L D H S L K I I K S F I P E I M K T G F N G Y F I V V I T A G K P G E T R L D L V E K N A K I F K Q L V R S I M D S G F D G I F L I V V S V G S K N K Q R L E E L K G S M E A V K S F V P D V V K A G F D G I F L V V I T A G A P G Q S R L D L A A A T V G L M E K L I P Q L L E V A P N A V Y V V I T A G A P R E N G T R A D V N V K I L K E I I N P I V A S G F N G V E V I V M T A G A L P R E N G T R A D V N V A I F Q T L L P T L A R N N P H A V L I |
| UniRef90_R8EKZ6 UniRef90_I3DJX3 | V V I I A G K P G E |
| UniRef90_K0YW34 UniRef90_C2EVY9 | V V V T A G A P G Q S R L D L A A A T V G L M E K L I P Q L L E V A P N A V Y V I T A G V P R K S R L D L L H K N V K L L K E L L N D L V A S G E N G V E V |
| UniRef90_C4LFJ3 | V V I T A G V P R K S R L D L I H K N V K I L K E I I N P I V A S G F N G V F V I V M T A G A L P R E N G T R A D V N V A I F Q T L L P T L A R N N P H A V L I |
| UniRef90_Q8EUG3 UniRef90_W7A9Y2 | V V I I A G V P Q K P K L Q L V G K N A K M E E A I N V K D S G F D G L T V L V I T A G I Q R K E G M T R E D L N G K M K S V A E S V K L H S P N A F V |
| UniRef90_B6IX40 UniRef90_U1LL12 | V V L A A GVP G E T RILEIL LIT R N A E I F G G I TP E V L K A A P Q T I L V V I T A G A A Q K T Q M D L A F Q N A K V M Q H V T F Q I M A S G F D G I L V I |
| UniRef90_A3CYB5 | VI CTAGVPRRPRNDLAFENAKI TAETI GR SSPDALL |
| UniRef90_F8AMF8 UniRef90_E8R091 | VIIITAGKPDESRLDLINRNTQLFLTILDQVKAAGSQEAVV |
| UniRef90_UPI000203581B UniRef90_UPI0003D070E1 | V V I T A G V P R K S R L D L I H K N V K I L K E I I N P I V A S G F N G V E V I V M T A G A L P R E N G T R A D V N V A I F Q T L L P T L A R N N P H A V L I V I T A G V P Q K P R L Q L V G R N A K I M E S I A T N V K D S G F D G I T V V V I T A G I Q R K E G M T R E D L N G K I M K S V A E S V K L H S P N A F V V V L A A G V P G E T R L E L L T R N A E I F G G I I P E V L K A A P Q T I L V V I T A G A A Q K T Q M D L A E Q N A K V M Q H V T E Q I M A S G F D G I V V I T A G A P R R N D L A F E N A K I I A E T A E T I G R S S P D A L L T I P A G V P R R P R N D L A F E N A K I V K N Y V R N L S K T C D T K L V I I T A G K P D E S R L D L I N R N T Q L F L T I L D Q V K A A G S Q E A V V D V I V P D D T Q T L E N C I R A M S E I C Q V Y A P L I E K N A K S G V R I V I T A G A P G O T R M D L A S T V A L T R S I M P R L L E V A P D A V Y V |
| UniRef90_UPI0003B73373 | VIITAGARGESRLALLQRNVTIMKAIVPGVIQNSPD <mark>CK</mark> IVVVTAGAPGQTRMDLAASTVALTRSIMPRLLEVAPDAVYVTIIPAGAPRMTRLDLAKKNAGIVKRYAKDIGKT CDTKL |
| UniRef90_A6UUM3 | I I P A G A P R M T R L D L A K K N A G V K R Y A K D G K T C D T K L |

| UniRef90_D3DHB4 | 130 140 150 160 I V V T N P V D L MT Y A V Y K M L G F S K R K V M G M A G V L D S A R F K T F |
|---|--|
| UniRef90_U5VDI6 UniRef90_S0JEP4 UniRef90_R5TQZ7 UniRef90_M5RII3 | L V V S N P V D V L T Y R A W S L S G L G R N K V F G Q A G V L D T A R M K C F L I V S N P V D I L T Y A A V K L S G F P E R R V I G S G T V L D T A R L K Y V I A T N P V D V M T Y L T W K Y S S L P T T H V L G T G T T L D T A R L R Y E I V V S N P L D A M V Q Q M W K V T G F D K A K V V G Q A G V L D T A R Y R T F |
| UniRef90_Q98PG4 UniRef90_K7J615 UniRef90_E1QUL2 | VISNPVDILATVFQKVTNFPKEKVMSSGTFLDTSRFRKF |
| UniRef90_Q6ZZC6 UniRef90_B6AHM2 UniRef90_UPI00047CF493 | INVANPLIDAMVIFALIHKI AGLI PKHMVIAGMGV LIDTSRFKCF |
| UniRef90_UPI000288FE2E UniRef90_UPI000375CE3A UniRef90_Q9P7P7 | L VT NPCDVLTVAAQQITGLPTGRILSSGTVLDTSRLRWL I VT NPCDVLTVLAHEESGLPPERIFASGTVLDTSRLRWK L VT NPCDVLTVAAQRISGLPPERIFSSGTVLDTSRLRWK L VT NPCDVLTVAAQRISGLPPERIFSSGTVLDTSRLRWL L VATNPVDVLTYATLKLTGFPAERVIGSGTIIDTARFQYL I VLTNPVDAMTYTVYKESGFKKHRVLGQSGVLDTARFRTF I NITNPLDVMVAALREAAGLPAARVCGMAGVLDSARFRRL |
| UniRef90_UPI000360BD98 UniRef90_A0A024DAD9 UniRef90_UPI0004697C1E | I V L T N P V D A M T Y T V Y K E S G F K K H R V L G Q S G V L D T A R F R T F I NI T N P L D V M V A A L R E A A G L P A A R V C G M A G V L D S A R F R R L T V T N P L D A T T Y T A L K A G G Y P S N Q V V G M G I L D S S R M E T L |
| UniRef90_A4WAE8 UniRef90_B2S1S1 UniRef90_W4Q0W6 | I A T N P C D I I T W Q V W K L S G L P R S Q V I G T G V W L D T T R L R R T |
| UniRef90_UPl00036CF85A UniRef90_N9QYP6 UniRef90_E6NB57 | F V V S N P V D I L T Q L A G Q Q L G L P W Q Q V I G L G T M L D S T R F S S L I A S N P V D V L T R A Y R E A S G F S D Q K V I G S G T I L D T A R L Q F A I V V T N P L D V M A Y V A Y R V T G F E S R R V M G F S G L L D V G R Y R Y L |
| UniRef90_U6LL56 UniRef90_Q704B2 UniRef90_R5QVJ9 | I NI T N P L D V M V G A L R Q T S G L D H S K V V G M A G V L D S G R F R R L I L T T N P L D A M T Y V M W R A T G F S R E R V V G F S G V L D G G R L A F Y L I T S N P V D I M T S V A L K L S G F P K E R V F G S G T V L D S S R F R T L |
| UniRef90_H9KER0 UniRef90_M3VEF8 UniRef90_W4CD15 | I ASNPVDI MTYVT MKYSNFPTHKVI GTGTTL DTSRLRYF VATNPVDL MTYVT WKESGLPKERVI GSGTTL DTSARLRYF VYSNPVDI LTQLAGQQLGLPWQQVI GLGTML DSARLRYM FVVSNPVDI LTQLAGQQLGLPWQQVI GLGTML DSTRFSSL I ASNPVDDV LTRAYREASGFSDQKVLGSGTI LDTARLQFA I VVTNPL DVMAYVAYRVTGFESRRVMGFSGL LDVGRYRYL I NITNPL DVMVGALRQTSGLDHSKVVGMAGVLDSGRFRRL I LTTNPL DAMTYVMWRATGFSRERVVGFSGVLDGGRLAFY LITSNPVDI MTSVALKLSGFPKERVVGGSGTVLDSSRFRTL LVVSNPVDI LSWLTWKLSGLPASRVI GTGTHVDSSRFRTL LVVSNPVDI LSWLTWKLSGLPASRVI GTGTHVDSSRFRFL MVT NPVDI VTYMVWKLSGLPREHVI GTGTSI DSSRLKTL I VSGQVDI LTYVVWKLSGLPREHVI GTGTSI DSSRLKTL I VSGQVDI LTYVVWKLSGLPKNRVI GTGTSI DSSRLKTL VSNPVDI LTTLTQKLSGFPKHR CFSTGCHLDTARFRYF |
| UniRef90_UPI0002234979 UniRef90_B3MHC7 UniRef90_UPI00046A62B6 | V S G Q V D L T Y V V W K L S G P V N R V L G S G C N L D S A R F R Y F V S N P A D V M T H A F G K L R K F K N K V G T G T S L D S M R L K V A C F C T S L D S M R L K V A C T S C T S L D S M T K V A C T S T T T T T T T T |
| UniRef90_L1LFX8 UniRef90_J9JMB3 UniRef90_UPl000362594C | VSANPVDILTTLTQKLSGFPKNKVIGTGTSLDSMRLKVA ICITNPMDVMTNIIREVTGFPKNKVVGMGGLLDSSRMCYY LVVGNPANTNALICSLNAPSIPKENFTAMTRLDQNRAQSA LVT NPCDVLTVVAQKVSGLPTSQVFSTGTMLDTSRLRWA |
| UniRef90_T0L381 UniRef90_D4KE67 UniRef90_R6LQB7 | L VT N P C D V L T V V A Q K V S G L P T S Q V F S T G T M L D T S R L R W A C V S N P L D L M T Y V L H K M T N W D R S R L L G M A G A L D G A R M A Y E I V S N P V D T L T Y L A L K D S G L P R N R V L G M S G L L D G S R F E Y Y L V S N P V D V L T Y V F H K L S G L P E R Q L L G S G T L L D T S R L Q S V I V L T N P M D V M V H L M L K V T G F S K N M V V G M G G L L D S S R M N C Y |
| UniRef90_Q4N6I8 UniRef90_V2XQQ9 UniRef90_Q6A9C3 | - 1 |
| UniRef90_F0QQS1 UniRef90_A3MWU9 UniRef90_R5ICX5 | L V T N P C D V L T V V A Q E A T G L P A N R V F S T G T M L D T S R L R W L I I C S N P V D V L T H K F K E I S N L P A E R I I G S G T V L D T S R L R I E I L T T N P L D A M T Y V M W K S T G F P R E R V I G F S G V L D A G R L A Y Y I V S N P V D V L T Y V F H K I S G V P E S H I L G S G T I L D T S R L Q S T |
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| UniRef90_R6CRMS UniRef90_I6XQ70 UniRef90_UPI00038330D0 UniRef90_A0A031FVS4 | |
| UniRef90_G8A1G6 UniRef90_X0PAN5 UniRef90_A0LRV1 | I VTNPCDVLTVIGQEVTGLPPERIFASGTVLDTSRLRWK I VVGNPCNTNALICLKNAPNIPAKNFHALTRLDENRAKCQ VSSNPVDLLTTITQEISGFPRERVIGTGTSLDTSRLQVA I VVSNPLDEMTALTQLVTGFPKNRVMGQAGMLDTARFSHF LVT NPCDVLTVVAQKITGLPYRQVLSSGTVLDTSRLRWM |
| UniRef90_UPI0002E97E77 UniRef90_E2RLK0 UniRef90_UPI00036BD2AC | I VISNPUDI LII YIV VIWKILIS GILIPA I RIVIE GSG <mark>U</mark> NLID SARFRYIL |
| UniRef90_UPl00047B4CF6 UniRef90_D3NY47 UniRef90_H6N407 | I ASNPVDVLTLVYQEVT GFDQHKVI GSGTTLDSARLRRLLVASNPVDVMTQLATRI SGLPRSRVI GSGTVLDTARFRALIMVTNPVDI VTNAALKI SGLPNNQLFGSGTVLDSSRLRFLLVVSNPVDI LTYVAWKLSGFPQNRVI GSGCNLDSARFRYL |
| UniRef90_S7PVK8 UniRef90_UPI00045420D9 UniRef90_K2G3G6 | L V V S N P V D I L T Y V A W K L S G F P Q N R V I G S G C N L D S A R F R Y L I V V S N P V D L L T Y V T W K L S G L P K H R V I G S G C N L D S A R F R F L L V V G N P C N T N A Y I A A A A A G R T N P N N Y H G M L R L D H N R A L S Q I I V S N P V D I L T Y V T W K L S G F P K N R I I G S G C N I D T A R F R Y M |
| UniRef90_UPI000359E2D4 UniRef90_K9PZR7 UniRef90_D9Q057 | I I VSNPVDI LTYVTWKLSGFPKNRI I GSG <mark>C</mark> NI DTARFRYM I I VSNPVDVLTYVFQQASGLPITRVLGTGTMLDTARLRNI L VLTNPSDAMTYVMYKKLGFPRERVIGFSGLLDSPRLAYY LNISNPADVVTHYIQHVLDYPAQKIFSTSTTLDSARLRRA |
| UniRef90_UPI000429D7A5 UniRef90_M7AJ90 UniRef90_S2ZMX3 | V 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| UniRef90_UPI0003B77AF4 UniRef90_H7F6C3 UniRef90_E4RY73 | FVT NPVDVVTYVALKLTGLPRNQVFGSGTVLDTSRLRYLLVT NPCDVLTVAAQKISGLPTERVFSSGTVLDTSRLRYLLVT NPCDVLTVAAQKISGLPTERVFSSGTVLDTTRLRRUQVATNPCDVLTYQVWKLSGLPKNRVLGTGVWLDTTRLRRLVSNPMDTMTYLTYKIAAEMGKRKVIGMGGLDSARFRYRMVT NPVDVVTYAALKISGLPPSQLFGSGTVLDSSRLRYL |
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| UniRef90_H1PY92 UniRef90_R8EKZ6 UniRef90_I3DJX3 UniRef90_K0YW34 | VITNPVDI LIYVI WKESGLPKERVI GSGI ILDSARFRYM VITNPVDI VITYFVRQLSGFPKNRVI GTGTGLDSARLRRI MI VITNPVDVVTYASIIKI SGLPRNQMFGSGTVI DTSRI RYI |
| UniRef90_C2EVY9 UniRef90_C4LFJ3 UniRef90_Q8EUG3 | NIT NPVDLLITTLITQQISGFPKERVIGTGTSLDTMRLRLI NIT NPVDAMAYAAGKITGYPSERVIGTGTELDSMRLRHF |
| UniRef90_W7A9Y2 UniRef90_B6IX40 UniRef90_U1LL12 | I CVS N PLDI MVNVF QKYSGL PHEQICGMGI LDTSRFRSL LVATNPVDVMTQI ST <u>VI</u> AARHPT CRVI GSGT LDTARYRAL VATNPVNVMAHVVWKASGIPKHRVI GSGTVI DTARIRYK |
| UniRef90_A3CYB5 UniRef90_F8AMF8 UniRef90_E8R091 | FLVINPVDVMTAVALKYSEFQPRQIFGLGTHLDSMREKSL FMITNPVDVMTQKALVESGYEKNQVFGLGTHLDSMRFK <u>VA</u> LVVSNPVDLLTYVVAAHKIGIDSWSRVMGLGTVLDTARFRSL |
| UniRef90_UPI000203581B UniRef90_UPI0003D070E1 UniRef90_UPI0003B73373 | I SAGKTFVNL KAMMI I YGPSI KPENVI AVATSWESASKAM MI VT N PVDI L T YVVWKI SGLPVSSV I GSG <mark>O</mark> NL D SARFRYL MVT N PVDV V T TAALRL T GLPP QQL F GSGTV L D SSRL R HA |
| UniRef90_A6UUM3 | FMITNPVDVMTHKALTESGYDKSQVFGLGTHLDSMRFKVA |

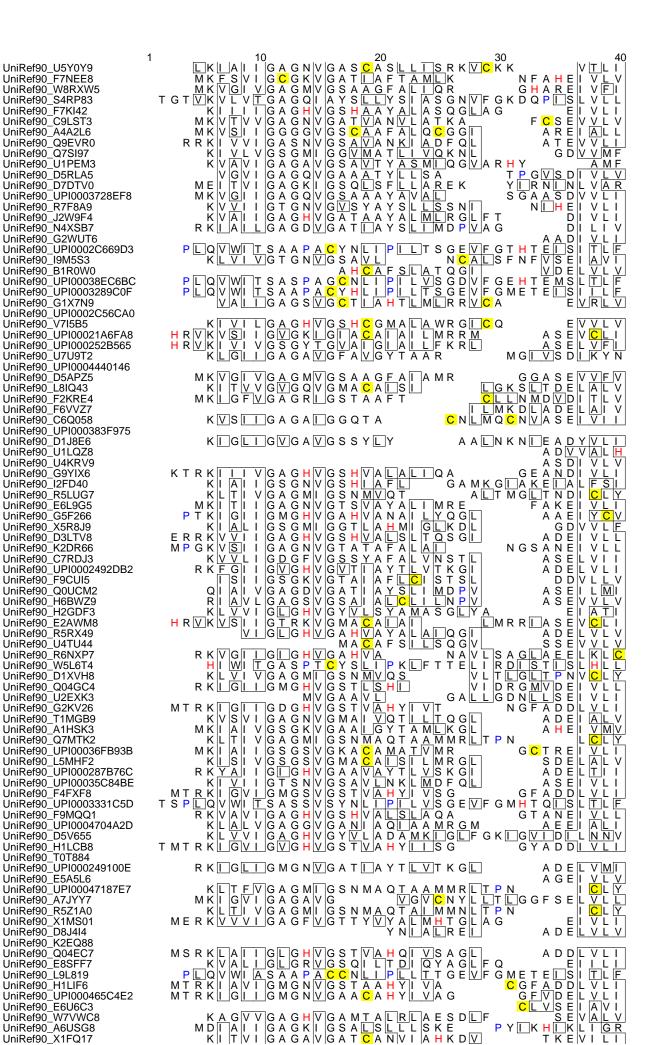
| UniRef90 D3DHB4 | 170 180 190 200 Q |
|--|--|
| UniRef90_U5VDI6 UniRef90_S0JEP4 | |
| UniRef90_R5TQZ7 UniRef90_M5RII3 | VIAKNILDI SPKNIL <mark>U</mark> AVVIL GE <mark>U</mark> GDSEEVDWSNANVGLONILD |
| UniRef90_Q98PG4 | L S E K T G V P T N S V H G F V I G E H G D K S V V V F S R M Q I G F S R L D |
| UniRef90_K7J615 UniRef90_E1QUL2 | LANRIGVAANSVHGFVILGEHGDSQVPLWSGVNVAGVQFR ASLLVGLAPESII IPVVLGQHGENMYPVPEASFVYGKPLT |
| UniRef90_Q6ZZC6 UniRef90_B6AHM2 | L A MEL GV S I E DI S A L L M G G H G D T M V P I P S C T S V G G I P V T L S E K T G V P T N S V H G F V I G E H G D K S V V V F S R M Q I G F S R L D L A N R I G V A A N S V H G F V I G E H G D S Q V P L WS G V N V A G V Q F R A S L L V G I A P E S I I P V V L G Q H G E N M Y P V P E A S F V Y G K P L T V A E A L G C S I R D V E A L V L G G H G D D M V P L V R H S T V G G V P L T L S Q K L G V R P N D I S A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L G C S I R D V E A L V L G G H G D R M L P M R S I T V G G L A L S L A R L C L R L R L R L R L R L R L R L R L |
| UniRef90_UPI00047CF493 UniRef90_UPI000288FE2E | LAREAGVSTDSVHAAMI GEHGDTEFPVWSQASI GPVPI R LAERAGVS <u>P</u> SSVHAS <u>I</u> I GEHGDSEFPLWSRATI GGVPI <u>L</u> |
| UniRef90_UPI000375CE3A UniRef90_Q9P7P7 | L A R R A G V S T D S V H A A M V G E H G D T E F P L WS Q A S I G P V P I R L A R R A G V S P S S V H A S I I G E H G D T E F P L WS R A T I G P V P I R I G K L Y G L D P Q S V N A D L I G E H G D S E L A V WS H A S I A G L S L A V A E A L G Y S I K D V K G F V L G G H G D D M V P L I R Y S S V G G V P L T L A D R L G V S P R D V Q A M V L G V H G D N M V P L S R F A T V N G V P L G C F G Y S D V T A S V M G C H G D D M V P L S R F A T V N G V P L G C F G Y C D V T A S V M G C H G D D M V P L S R F A T V N G V P L G C F G Y C D V T A S V M G C H G D D M V P L S R F A T V N G V P L G C F G Y C D V T A S V M G C H G D D M V P L S R F A T V N G V P L G C F G Y C D V T A S V M G C H G D D M V P L S R F A T V N G V P L G C D M C P L S C S V M G V P L G C D M C P L S C S V M G V P L G C D M C P L S C S V M G V P L G C D M C P L S C S V M G V P L G C D M C P L S C S V M G V P L G C D M C P L G D M C |
| UniRef90_UPI000360BD98 UniRef90_A0A024DAD9 | V A E A L G Y S T K D V K G F V L G G H G D D M V P L T R Y S S V G G V P L T L A D R L G V S P R D V Q A M V L G V H G D N M V P L S R F A T V N G V P L G |
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| UniRef90_UPI0002234979 | VIGEKILIGIVIH PTSCHGWILLI GEHGDSSIVIPILIWSGIVINIVIA GIVIPILIK |
| UniRef90_B3MHC7 UniRef90_UPI00046A62B6 | |
| UniRef90_L1LFX8 UniRef90_J9JMB3 | |
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| UniRef90_D4KE67 UniRef90_R6LQB7 | LAQALG <mark>C</mark> PVRDINAMVI GAHGDLMVPLTRFASYKGRPVT LAKRFRISPKNVHAH_VYGEHGDSS <u>FVPW</u> SLVHIAN <u>N</u> HVN |
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| UniRef90_F0QQS1 UniRef90_A3MWU9 | AAKKLGISPASI LPIVLGQHGESMFPVPSKSFVHGVPLS |
| UniRef90_R5ICX5 UniRef90_A4J898 | L A K R F R I S P K N V H A H V Y G E H G D S S F V P W S L V H I A N N H V N I A E K L G V N P K Y V H G S V I G A H G D S M I P L V S R S T V Y G I P I L L S A H L G V D S R S I H A F I I I G E H G D S E L A V F S S A N V S G I P L N I R Q W A N V E Q R H V H A T I L V G E H G D S E F P L W S T A N I S G V P L R I S K A L N V S P N S I E G S F I L G E H G D S S L V T F S Q T X V A G N R C E A A K K L G I S P A S I L P I V L G Q H G E S M F P V P S K S F V H G V P L S L A K R F C I S P K N V H A H V Y G E H G D S S F V P W H I A N N H I D S Y K L A E Y C N V D P R N V H A Y I L G E H G D S S V P V W S T A D V S G I P L K L G E K L N V H P S A I H G Y V V G E H G D S S M I P F S T V R I G G L P F D V A Q A T G I D Q K S V Y G Y A L G E H G D S S M I P F S T V T I A G K P L V V A E A C E V A V V N V H A Y I A G E H G D S E I P L W S A A T I G G V P L L L A R K L N T N V A G V K N V I V W G N I T G S N Y I D L S H A K L Y G Y D C A L A Q R A G V S T S S V H A Y I V G E H G D T E F P H W S R A T I G T V P I L L A Q K A G V F Y D K V S N M T I W G N H S T T Q V P D F L N A R I D G L P V K L A H K F D V S T Q N I D A M I L G E H G D S S F A A Y D E A T V E G R P L R |
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| UniRef90_S7PVK8 UniRef90_UPI00045420D9 | MGERLGVHPLSCHG WVLGEHGDCSVPVWSGVNVAGVSLK MSEKLGVHPSSCHG WILGEHGDSSVAVWSGVNVAGVSLQ |
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| UniRef90_R8EKZ6 | L GEYFDI GPHNI HAY LI GEHGDTEL PVWS HVSV GIQKLQ |
| UniRef90_I3DJX3 UniRef90_K0YW34 | I S E V T N I D S S V I Q A F M L G E H G D T Q V A N Y S S A T I H G L P F L V S Q E T G V A V Q N I H A Y I A G E H G D S E I P L W S S A E I G N V P L R |
| UniRef90_C2EVY9 UniRef90_C4LFJ3 | MS E K L G V H P S S C H G WI L G E H G D S S V A V W S G V N V A G V S L Q L G E R L G I H S E S C H G W V L G E H G D S S V P V W S G V N I A G M P L K L G R E L N I E P R S I H A Q V A G E H G D S E V V L W S S A T L G G A S V K L N I S P A S I Q P V V L G M H G E H M F P A P R L S S V G G A P L S I S Q A I G I D Q K S L Q A Y A L G E H G D S S V P V W S G V N V A G K P L F M G E R L G I H S L S C H G W L I G E H G D S S V P V W S S V T V A G K P L F W S R E T G V A T Q N I H A Y V A G E H G D S E V A L W S S A S I G N V P L S L A Q R A G V A R Q S V H A H L V G E H G D T E F P L W S S A S I G V T P L L L A E R L D I A A Q S I D A F I L G E H G D T T M I P L T K L A T W N S I P V N S L G E A L G V A Q S D L H G M V I G G H G D T T M I P L W S S A S I G S V P I L I A E Q L K L A P T Q V K A L I L G E H G D T T M V P I W S S A T A A G L P L E I H E A T G H S R D S I R A L V I G E H G D T E L P V W S H V S V G L Q K L Q I S E V T N I D S S V I Q A F M L G E H G D T E L P V W S H V S V G L Q K L Q I S E V T N I D S S V I Q A F M L G E H G D S S E V T F D E A M I N G Q P T A Q V L D L N A T E L K I Q V I G E H G D S S V S V F S Q A S V G S I P L S V A K R I K I N P A S L E V Y V V G E H G D S S V V V L W S A T A I G G I N V A V G E Y F D L S S R N C H V Y Y M G E H G D S M V P L W S N A E A G G L N V A V G E Y F D L S S R N C H V Y Y M G E H G D S M V P L W S A T T I G G I R I S V A K R I K I N P A S L E V Y V V G E H G D S M V P L W S A T T I G G I R I S V A K R I K I N P A S L E V Y V Y M G E H G D S M V P L W S A T T I G G I R I S V A K R I K I N P A S L E V Y V Y M G E H G D S M V P L W S A T T I G G I R I S V A K R I K I N P A S L E V Y Y Y M G E H G D S M V P L W S A T T I G G I R I S I A H Y F R V H V S E V H T R I I G E H G D S M V P L W S A T T I G G I R I S I A E A M S L P A T O V S A T I L G E H G D S M V P L W S A A C I G G I R I S |
| UniRef90_Q8EUG3 UniRef90_W7A9Y2 | |
| UniRef90_B6IX40 UniRef90_U1LL12 | L G Q H L G V S P K S V H A H |
| UniRef90_A3CYB5 UniRef90_F8AMF8 | I A H Y F R V H V S E V H T R I I G E H G D S M V P L W S A T T I G G I R I S II A K Y F G V H I D D V R T R I I G E H G D T M V P L L S A T A I G G I P I N |
| UniRef90_E8R091 UniRef90_UPI000203581B | I A E A M S L P A T Q V S A T I L G E H G D S M V P I W S H A Q I A G M P L S L A R K L S M N T A G V K D V I V W G N L S G C M Y I D L S H A K V Y R C D S A |
| UniRef90_UPI0003D070E1 UniRef90_UPI0003B73373 | A K Y F G V H D D V R T R G E H G D S M V P L U S A T A G G P N A E A M S P A T Q V S A |
| UniRef90_A6UUM3 | LAKYFNAHI GOVRTRLI GEHGDSMVPLLSSTALGGLPIT |

| | 210 220 230 240 |
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| UniRef90_D3DHB4 UniRef90_U5VDI6 UniRef90_S0JEP4 UniRef90_R5TQZ7 UniRef90_M5RII3 UniRef90_M5RII3 UniRef90_E1QUL2 UniRef90_E1QUL2 UniRef90_E6AHM2 UniRef90_UPI00047CF493 UniRef90_UPI000288FE2E UniRef90_UPI000375CE3A UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI000360BD98 UniRef90_UPI0004697C1E UniRef90_W4WAE8 | 210 |
| UniRef90_UPI00036CF85A UniRef90_N9QYP6 UniRef90_E6NB57 UniRef90_U6LL56 UniRef90_Q704B2 UniRef90_R5QVJ9 UniRef90_H9KER0 UniRef90_M3VEF8 UniRef90_W4CD15 UniRef90_UPI0002234979 UniRef90_B3MHC7 UniRef90_UPI00046A62B6 UniRef90_U1PI00046A62B6 UniRef90_UJJMB3 | E Y P G C G P G F Q N Q I F I R I R G S G A E V I K R K G G A G Y A V G I N F S K I T G N A S N Y E E K L E F P V S R R A Y E I I N R K K A T F Y G I G A K Y L D E K T T A E I V E A T R K M G A E I I R L K G W S A H H A P G E F V K R G W I K E E E I E E I Q K T K T A G G D I V R L L G Q G S A Y Y A P G K L L K P E E I K E A V E E T V K A G A R I T E L R G F S S N W A P G A E F A E K I G K P F T P E A K L D D C V R N A A Y Q I I D G K G S T Y Y G I A G D I L P N I G E T D E E R W Y E K E V V R L G P T V R C L K G Y T N T T I G L Q W R P L A G R D P L D A A V R E Q I R R E S A Y R I I A G K G A T N Y A I G L H I M D Q H K E R F K H L D L E D I A R K T A G W E I F T R K G S T Q F G I G N N L N P N L G T D S D K E Q W K N V H R Q V S A Y E I I K L K G Y T S W A I G L D I V K N P G C G P D P E K W A E I N K E C G G S S V S S V K G Y T N W A V A L E Y S E L D D A T L D E I Q T E I R K K G G K I I A N K G A T F Y G V A Y F V E K G D I A E D L K E I E E H T I S S G A E L L N L Y V H G S A Y F A P A V Y D V I K D T Q W L E D D F M K V N N |
| UniRef90_UPI000362594C UniRef90_T0L381 UniRef90_D4KE67 UniRef90_R6LQB7 UniRef90_Q4N6I8 UniRef90_V2XQQ9 UniRef90_G6A9C3 UniRef90_F0QQS1 UniRef90_A3MWU9 UniRef90_A4J898 UniRef90_A4J898 UniRef90_R5G950 UniRef90_R5GS950 UniRef90_R6CRM5 | E WT N P R G E I V F T D N V L D T L A D N A A Y S I L E G K G A T N Y A I G L Q I V T K G D M Q D I I A R T K D G G A Q I V K H L G T S A Y Y A P G R E L L S E E K L A E I E H A T Q V G G G T L T S L L G T S A W Y A P G V Y R D K W D N E N E Y A G I E E Y V R T S G G Q V I K A K G A T F Y A V A D F E K G Y L T H E D L K E L E E R T I T S A L E L L K L Y G S G S S Y F A P A D F C E M R G H Y S H D E A E K N E E V K N A A Y E I L Q R K R A T Y F G V A M D W A V D G N R V F T E D V L A D L A H E A A Y A I L E G K G A T N Y A I G D I H F E S S P F C C S D Y E E E K T V R R K A Y E I L Q R K R A T H Y G I G A K L L S E D Q L R E V V E E T V K A G A K I T E L R G F S S N W G P G A E H S P D C D W N Q D Y E E I E Q F V K T S G A Q V I K N K G A T F Y A V A E F F Q L R G I P P I S R E K V V K R V R N A A Y E I L R M K G C T A W A I G L E C N I S K F K V L F A T R O L G M T L L F G K K S T F F G I G R |
| UniRef90_I6XQ70 UniRef90_UPI00038330D0 UniRef90_A0A031FVS4 UniRef90_G8A1G6 UniRef90_X0PAN5 UniRef90_A0LRV1 UniRef90_UPI0002E97E77 UniRef90_UPI00036BD2AC UniRef90_UPI00036BD2AC UniRef90_UPI00047B4CF6 UniRef90_D3NY47 UniRef90_B6N407 UniRef90_S7PVK8 | K MEEYPDTYGKENLEELAAKAGGWIILGGKGSTEFGIGA DWERQTGKDESTRDSIADQVVNNAAYEVIAGKGATNYAIGL WHPLLNMIYDSEWIHSELDQRDVRDAAYEVIAGKGATNYAIGL WHPLLDNGYPKFTVEELDRDVRDAYTVIRGKGATNYAIGL EV LKDHKWLEEEFTEKVQKRGGVLIQKWGRSSAASTSV MVAMEKNISDDDLAQIEVDVRRKGGQIIGLKGATFYGVAI RRLADLVPPEKIQELVERTRNGGGEIVALLKTGSAYFAPS DWEIDGHKPFTEQRLAEMQVVNAAYKVIEGKGATNYAIGL TLDPKLGTDADKDQWKNIHKQ KLLPQET LNQIVQRTRTGGGEVLNLMKI SAFYAPA KYIAEGKITQAELDQIRDEGVRRAAYRIINGKGHTAFGIGG EWKPLPGYENPIDEEVRRRIAHEAAYKIIDGKGATNYAIGL NLHPDLGTDADQEQ ELNPAMGSEGDDENWKEVHKMV |
| UniRef90_UPI00045420D9 UniRef90_K2G3G6 UniRef90_UPI000359E2D4 UniRef90_UPI000359E2D4 UniRef90_D9Q057 UniRef90_UPI000429D7A5 UniRef90_M7AJ90 UniRef90_S2ZMX3 UniRef90_UPI0003B77AF4 UniRef90_H7F6C3 UniRef90_H7F6C3 UniRef90_B1ZR97 UniRef90_B1ZR97 UniRef90_B1ZR97 UniRef90_A9A450 UniRef90_H1PY92 | EVNSAIGTSRDPEQWGNVHKEASAYNIIKMKGYTSWAIGLDLRSWPDWTTEKEEHVATEVRTAAYEIIQRKGVTNHAIGLSLLSQKDIDEIVKQTVEAGAEIIKLRGYSSNWAPAAQLMEEQPDTYGKLNLEAIAAKAGGWHILAGKGSTEFGIGAALHPDLGTDKDKEHWKEVHKQVSAYEVIKLKGYTSWAIGLQWGPTLSGGVFRNSIAQEVVQSAYKIIEGKGATNYAIGLSDWERDGQPVFTPQLLDQIDVRDAAYHVIQGKGATNYAIGLEYSLEKLGESLDLKRVGEIARDTGFEIYHQKGCTEYGIGGRFLSAEALKEVSDKTMVGGATLTGLLGTSAWYAPGDWQGTGGTREVRDAIAREVVESAYRIIEGKGATNYAIALKMPGVTPFQQQIFERTKTSGAEVIR RKGGAGWAVAI |
| UniRef90_R8EKZ6 UniRef90_R3DJX3 UniRef90_K0YW34 UniRef90_C2EVY9 UniRef90_C4LFJ3 UniRef90_Q8EUG3 UniRef90_B6IX40 UniRef90_B0IX40 UniRef90_B1X40 UniRef90_F8AMF8 UniRef90_F8AMF8 UniRef90_E8R091 UniRef90_UPI0003D070E1 UniRef90_UPI0003B73373 UniRef90_A6UUM3 | ELIAEKPEKFSKIDFEAIEKKETGWDILCGKGSTEFGIA TLLEKDNTYNQEDLDKIFINVRAAYHIIERKGATYYGIGM EYVKTHPEQFKNVDLLELEKQRTAWDIIAGKNCTEFGIGC HWGKTLNDRLFDSDLRAEIAQQSAYTIIEGKGATNYAIGL LDKIIQFTPEEKNEIEEQVRRAGAKIIQHKGATFYGVAK EICPALDEELKATLLHQTKRAGWDIRLAGEHSCYGIAF KYRKFSDSQKRAIHKDVMRKAYKIINTKRATFYGIGA EFVKKGLISNEENHIIKKTRDMGAEIIKLSKSSAVFSPAA VVGEQVGRPLTEKARIDDEVRCVAYRIIKGKGATWYGIGG QLLEENESYRQEDLDAIYQGVRDAANIIEYKSAAYYAIGL NLPTFSGLPAQEMIETVRTSGEAIIRDKGSTVYGPGE RLPGFENLPYQKIVDF VKNGGKRIIELKGGSEYGPAS HYPGWSTQLGDQLFQRTRGGGAEAIKLKGGATWYGILWGPASHYPGWSTQLGDQLFQRTRGGGAEAIKLKGGGAGFAVGL |

| | 250 260 270 280 |
|---|---|
| | A L VR I VR N I T E D S K N I L I V G A N L R G E Y G F S N V N I G V P A A G V A V M V E A L L K D Q K S I I P T S T L L T G Q Y G E K D V Y A V L P C A S A I E M A E A Y L K D R K R V L V C S C L L D G Q Y G V K G H Y L G V P C G V A I M A K A V K R D E R R A L I A S V V L D G E Y G V R G I P V E V P V A L C R I C Q A I S A N E Y A I L T L S T F H E K V E N S E N I C I S Y P C A T A D I V R A I L N N T Q R V M P V S T L I Q G H H E V C H E M F L S L P C A A V R I T E A I I F G D E H R V L P V S T L I A D G P E G I D D V C L S L P T A L A H I T R S I L N D E H K I L A V S A I L D G E Y E Q H N V C V G V P A S V T D L A G S I L K N L R R V H P V S T M V K G L Y G I K E E I F L S I P C T A V D V V A A I A G P Y G R I M S I G T D M K G I H D I E E N V V L S M P C M M L T Q I V A A I L E N R S I V L P L S A P I N G E Y G I K H D L Y L G T P A T A A I E M A S A Y L N D K K S V I V C S C Y L E G E Y G Y E G I Y C G T P A |
| UniRef90_T0L381 UniRef90_D4KE67 UniRef90_R6LQB7 UniRef90_Q6A9C3 UniRef90_Q6A9C3 UniRef90_F0QQS1 UniRef90_A3MWU9 UniRef90_R5ICX5 UniRef90_A4J898 UniRef90_W6UKH2 UniRef90_R5G950 UniRef90_R6CRM5 UniRef90_I6CXQ70 | T G A R L T E A V L E H Q R M I L P L S S V L D D Y R G V S G V A L S V P S A V A V M V E A M L D D S Q I V M P S S V L L D G E Y G Y S D V C V G V P V T T A A T M A E A I A K D S G L T I S S I C Y L D G E Y G Y S D V C V G V P V T T A A T M A E A I A K D S G L T I S S I C Y L D G E Y G Y D D V C L S T L A M S V C H L C K C L N T A G T A L T I S T M M H G E Y G V D D V C L S T L A A V K R I C E C I V R D E K S I L P V S A M M H G E L G I D G V V L S M P C L T G A R L A E A L L R P G R S V L P L S S V M T D M H G I S G V A L S M P C A L S K I L S A I L F D T H E V L P V G V T P T K G E Y G L S S N V T L A L P T G L A I M A D S V K R D A R R S L I A S V V L K G E Y G V S D V C L S T L A S V V L K R I C E T V L R D E N S I L T V S G I V N D L Y G I Q D C C L S L P T C C A S L C N A I L R N K K I V I P V S T S L K D K L G I K D E V F A S V P C A L T E M A A C I L R D E K K I M P A S V L L Q G E Y G Q K G V Y A S V P T A Q A T V L R D E H R V L P V S S L L D G Y G L K D V C L S V P T A Q A T V L R Y W Y H G S P P E I V S V G I R T E G Q F C V P E G I V F S M P V S S A R I V E A I L S D Q H A V M P V S T V L S D F Q G V D G V A L S V P S S L M R L S K A R A A A R M A R A V A E D D S G Q V L P V C A W V D G E Y G I S G L A L S V P S S I V D A I R S L I T P T P E D W F S T G V S A A A R M A R A V A E D D S G Q V L P V C A W D D F H G I S G L A L S V P S S G I R I A E A I L R D L R S V L P V S S L L D D F H G I S G L A L S V P S S G I R I A E A I L R D L R S V L P V S S L L D D F H G I S G L A L S V P S S G I R I A E A I L R D L R S V L P V S S L L D D F H G I S G L A L S V P S S G I R I A E A I L R D L R S V L P V S S L L D D F H G I S G L A L S V P S S G I R I A E A I L R D L R S V L P V S S L L D D F H G I S G L A L S V P S S G I R I A E A I L R D L R S V L P V S S L L D D F H G I S G L A L S V P S S I L D D F H G I S G L A L S V P S S I L D D F H G I S G L A L S V P S S I L D D F H G I S G L A L S V P S S I L D D F H G I S G L A L S V P S S I L D D F H G I S G L A L S V P S S I L D D F H G I S G L A L S V P S S I L |
| UniRef90_E2RLK0 UniRef90_UPI00036BD2AC UniRef90_UPI00047B4CF6 UniRef90_D3NY47 UniRef90_H6N407 UniRef90_S7PVK8 UniRef90_UPI00045420D9 | CLTKIVKA VLRNERTTLMVGAKLNGEYGNKDLYT GVPA GLARL VSAIGADEGLVAT CAMLTDEVCGVP RVVLSLPR ATTRIVEA VLNNEHRVLPVSTLATGFEGLD DVCLSLPS |
| UniRef90_K2G3G6 UniRef90_UPI000359E2D4 UniRef90_UPI000359E2D4 UniRef90_K9PZR7 UniRef90_D9Q057 UniRef90_UPI000429D7A5 UniRef90_S2ZMX3 UniRef90_UPI0003B77AF4 UniRef90_UPI0003B77AF4 UniRef90_E4RY73 UniRef90_B1ZR97 UniRef90_B1ZR97 UniRef90_B1ZR97 UniRef90_A9A450 UniRef90_H1PY92 UniRef90_R8EKZ6 UniRef90_I3DJX3 UniRef90_I3DJX3 UniRef90_I3DJX3 UniRef90_C2EVY9 UniRef90_C4LFJ3 UniRef90_C4LFJ3 UniRef90_V7A9Y2 UniRef90_W7A9Y2 UniRef90_W7A9Y2 UniRef90_W7A9Y2 UniRef90_UPI0003B73373 UniRef90_UPI0003B73373 UniRef90_UPI0003B73373 UniRef90_UPI0003B73373 | VD R S T A A VQ Q G M Y G D N E V F S P C |

| | 290 300 310 320 |
|--|---|
| UniRef90_D3DHB4 | 290 300 310 320 X |
| UniRef90_U5VDI6 UniRef90_S0JEP4 | VI GLH GVETHVPVSLDEEETELLKRSADTLK |
| UniRef90_R5TQZ7 UniRef90_M5RII3 | M G S G G V E K I I E L E L T D S E K A D F Q N S V D A V K G L V A T M N Q L |
| UniRef90_Q98PG4 | LLGENGWEEVKNYDLSPAEQKAFDESALNLKKHWDDV |
| UniRef90_K7J615 UniRef90_E1QUL2 | VLGKNGVEKI LELNLNEEQKKKFLASVEAIR |
| UniRef90_Q6ZZC6 UniRef90_B6AHM2 | QI G A G G V E K I H T V E L N D G E K A E L E K S F Q S V K K T V D S V K |
| UniRef90_UPI00047CF493 | VIGAGGVGRVLEQPLDDGERALLDHSAQTLLAAQTQ |
| UniRef90_UPI000288FE2E UniRef90_UPI000375CE3A | V V G R G G W H R V L D T P M D G G E L A A L Q V S A D T L R N T M D |
| UniRef90_Q9P7P7 UniRef90_UPI000360BD98 | KILNKDGAHRII INAKILSKDEDAKILVESVIKSI K VIGANGUEELI EUDITTDEKADI DKSRDSVVN |
| UniRef90_A0A024DAD9 | V V G A G G V E R V I E L P L D A R E A Q L L Q A S I D E V R E M |
| UniRef90_UPI0004697C1E UniRef90_A4WAE8 | I L G A N G V E K I V E L P L N L A E Q Q L F A K S V E V L A Q S G V Q Q I I E L Q L A E D E Q V K F R H S A E V I K A |
| UniRef90_B2S1S1 UniRef90_W4Q0W6 | V V CKEGVKEVLDFKLSDRELEKFKLSANQLKS LLLVMEYE |
| Unikei90_UPI00036CF85A | V V G R T G V T D Q V E M K L W P K E Q T G L Q Q S A R A L K E T M A K V |
| UniRef90_N9QYP6 UniRef90_E6NB57 | I I GANGI EKTI ETNLNKKEKAKFAKSV EI TOTKNALKD VLGAEGVEKVLEPSLTPEELAKFRESVKI I R |
| UniRef90_U6LL56 UniRef90_Q704B2 | VIGGKGVEKI I ELEL NEKEKEMLQGŠI NEVQEMLKAV |
| UniRef90_R5QVJ9 | V G K R G I Q G E I Y P D F S E S E H R D L A L S A |
| UniRef90_H9KER0 UniRef90_M3VEF8 | SJI G E Q G L I N L I R M R I T E Y E K K L F Q T S A N V V F N V Q K G L K V D A R G A G E R L A V S L S D D E A A G L R A S A D T L H Q T Q K |
| UniRef90_W4CD15 UniRef90_UPI0002234979 | I I G G N G I Q E I I E L N L D A T E R E K F N N S C E L L |
| UniRef90_B3MHC7 | MVTPSGISHIFELPLSHGEFEMLHKSAKIL |
| UniRef90_UPI00046A62B6 UniRef90_L1LFX8 | LLIVMEYE VVGRTGVTDQVEMKLWPKEQTGLQQSARALKETMAKV IIGANGIEKIIEINLNKKEKAKFAKSVEIIDTKNALKD VLGAEGVEKVLEPSLTPEELAKFAKSVKLIR VIGGKGVEKIIELELNEKEKEMLQGSINEVQEMLKAV VLGRGGAIKVLEVELSPEEKQRFQQSVEAL IVGKRGIQGEIYPDFSESEHRDLALSA SIGEQGITNIIRMRITEYEKKLFQTSANVVFNVQKGIK IVDARGAGERLAVSLSDDEAAGLRASADTLHQTQK IIGGNGIQEIIELNLDATEREKFNNSCELL VLGQSGVSDVVKVKLNPEEEALFKKSANTLWEIQKDLK MVTPSGISHIFELPLSHGEFEMLHKSAKLL VIDGTGISDVIETKLSDDEKKKMLNSADKMQEVLDGV |
| UniRef90_J9JMB3 UniRef90_UPI000362594C | MVSKKGIQRVYEAPMDDGEQQLFRESAEH VLGGNGVEKIIELELDGETKAKFKISVDSIKD VLGGKGGIKEITVLDLNEKEQAMFDASVGSARETNAKLAEA LVDYKGVRGKILNPMTDDEVAKLHHSADCLKE VIGANGVEKVLELKLTPQEQQKFNDSIKEIR IVGSEGIETQVPIKLDEDELKRLRDSAGILK IVSRDGIEGVVPVAMDTEELASLKASAERL IVGGKGIRIVDTLPLNDKEQKKLLESAKVISDNIESIRDL VLGKTGVVKVLELELTPEEKEKFNQSVEAIR LVDNQGVRGKILNQLTDGEIDKLRASAEKLKEVIRQV IVNGAGREQVLPITLEREEEVALKNSAQILRD LVDNQGVRGKILNQLTDGEIDKLRASAEKLKEVIRQV IVNGAGREQVLPITLEREEEVALKNSAQILRD LVDSSGVSAVINLEYSPSEKQSLLASVETLKQ RLNKDGVAEIIELDLNEKEQEQFAASCRTMDE IVDRQGAGHTLRQPLTDGELGCMHESADAIR RFQNGKWEVMTELKINEKTQGVLGCLAHELIQEKKEIQEM |
| UniRef90_T0L381 | VLGGNGVEKI TELELDGETKAKFKUSVDSUKD |
| UniRef90_D4KE67 UniRef90_R6LQB7 | IV LIGIK GIGI IK EIL TIV LIDILIN EIK E QAMF DASVIGSARETNAKLIAEA IL VIDYK GIVIR GIKIL IN PMT DDE IVIAKLIH H SAD <mark>C</mark> ILIK E |
| UniRef90_Q4N6I8 UniRef90_V2XQQ9 | VIGANGVEKVLELKLTPQEQQKFNDSIKEIR |
| UniRef90_Q6A9C3 | I VSRDGIEGVYPVAMDTEELASLKASAERL |
| UniRef90_F0QQS1 UniRef90_A3MWU9 | |
| UniRef90_R5ICX5 | L V D N Q G V R G K I L N Q L T D G E E D K L R A S A E K L K E V I R Q V |
| UniRef90_A4J898 UniRef90_W6UKH2 | I VDSSGVSAVINLEYSPSEKQSLLASVETLQKITAGIK |
| UniRef90_R5G950 UniRef90_R6CRM5 | L |
| UniRef90_I6XQ70 UniRef90_UPI00038330D0 | VDRQGAGHTLRQPLTDGELGCMHESADAIR |
| UniRef90_A0A031FVS4 | VVSSRGARPILETSFSTDELELFHRSADALKS |
| UniRef90_G8A1G6 UniRef90_X0PAN5 | VINASGIAKVIE E PLS DNE I DKMKKSAKQMAE I VMAAK EIGAQGVRRVVT T PLT E S E LAALHE |
| UniRef90_A0LRV1 UniRef90_UPI0002E97E77 | EI GAQGVRRVVTTPLTESELAALHE IVGRRGVEQPLALPMGEHEEQQLRDSAQAMR |
| UniRef90_E2RLK0 | |
| UniRef90_UPI00036BD2AC UniRef90_UPI00047B4CF6 | I V G G N G I E K V L E V E F T D E E R A A F A K S V A A V R I I G Q N G W E S I I E W D L T T A E Q D L F N Q S C A T L A K A R D A I K V I G A G G V L D T I L P N L S A A E E A A L R H S A E L L K E A A D G V L V D R T G C A Q R L D V S V D D T E R A G L M A S A D T L R N M Q K Q F |
| UniRef90_D3NY47 UniRef90_H6N407 | VIGAGGVLDTI LPNLSAAEEAALRHSAELLKEAADGV |
| UniRef90_S7PVK8 | |
| UniRef90_UPI00045420D9 UniRef90_K2G3G6 | VLN A R GLT SVIN Q KLK D E EVA QLR K S A E T LWA I Q K D L H D L |
| UniRef90_UPI000359E2D4 UniRef90_K9PZR7 | I LGENGIS DI I KVKLS PVE E A QMVKS A E TLWKIQK DI K I VSINGAETV LE PAVDPT E KA ALDHSADVIKQ AI A SL |
| UniRef90_D9Q057 | V L GRNGTE KI LELPLT DE ERKGLDASV NAVRDL |
| UniRef90_UPI000429D7A5 UniRef90_M7AJ90 | V L G Y G G L T D V V K M T L K S E E E E K L R K S A D T L W G L Q K E |
| UniRef90_S2ZMX3 UniRef90_UPI0003B77AF4 | I V G R D G A G R V L N P P L T L N E R D G L T A S A Q R L R Q V V S A A G A S P V L S T P F S A O F A F H I R A S A Q A I O H V O A |
| UniRef90_H7F6C3 | V L N Q D G W K E I I E L K L D N A E R E A F Q N S A R V I K D |
| UniRef90_E4RY73 UniRef90_D5UDQ4 | V I G S Q G V L E R L E I P M S S D E V L G M R R S A E A V R S |
| UniRef90_B1ZR97 UniRef90_A9A450 | V V G R G G V S H V E I P L W P K E Q Q G L Q A S A R A L Q E L W S K V R V I G K N G V E K I E L D L N D E E K Q V F N K A V F |
| UniRef90_H1PY92 | I L G E N G I S D I I K V K L S P V E E A Q M V K S A E T L W K I Q K D I K I V S I N G A E T V L E P A V D P T E K A A L D H S A D V I K Q A I A S L V L G R N G I E K I L E L P L T D E E R K G L D A S V V L N R H G V S Q V V E L R L T E A E A A L F Q K S C Q T M K E V L G Y G G I T D V V K M T L K S E E E E K L R K S A D T L W G I Q K E I V G R D G A G R V L N P P L T L N E R D G L T A S A Q R L R Q V V S A A G A S P V L S T P F S A Q E A E H L R A S A Q A L Q H V Q A V L N Q D G V K E I I E L K L D N A E R E A F Q N S A R V I K D V I G R N G W E K I V T L R L S N E E K A A F E K S A D A V R A M N A A I V G S Q G V L E R L E I P M S S D E V L G M R R S A E A V R S V V G R G G V I S H V E I P L W P K E Q Q G L Q A S A R A L Q E I W S K V R V I G K N G V E K I I E L D L N D E E K Q V F N K A V E V I G K E G I E Y I I E L D L N D E E K K K L S N T F D I I K |
| UniRef90_R8EKZ6 UniRef90_I3DJX3 | G N N G V E E L E P L D E R E H K R F E E A C E V M K T S R K G A G R V L V P P L T L H E R D G L T E S A Q R L R E L N R Q G I G Q V I E Y Q L S P T E L A K M H A S A E Q L S A V L K E I Q L N I R G I E S R I M P S L S S S E R S Q L E Q S A K I V K K Q L D D V D K L V G K D G W H S P L K L T L L A E E K R G F Q K S Y N S L K A I I N S R G A R P L E F S L T Q E E K E L Y D K S I A F V R E L L G A A G I I S T L T P E L D E A E A A A L R R S A E V L K S A F D G V K L I D R T G I R Q I I E I E L T D E E Q G F D A S V G R I R Q V L I D R T G I R Q I I E I E L T D E E Q G F D A S V K K I R K V T A D V M E R V V G K N G I E E V V P I K I S D D E F K A F K H S V E V V K N C W N E V K D L V G R S G V V A Q L Q L E L S P R E T S A L Q S S A R V L R E T I N Q V R F Q N G S W E V V T E L E I N E K T Q E V L D R L S Y D L I Q V L G Q S G I T D L V K V N M N T E E E A L F K K S C D I L W N I Q K D V V G A G G A I E R L S V P M S D A E Q E Q L R R S A S S I R A T A E Q V V I G K K G I E R I V P I E L D E K E F N D F K K S V E I V K R Y W N E V K |
| UniRef90_K0YW34 UniRef90_C2EVY9 | II LISKKGAGRIVL VIPPILITILIH ERDGILITESAQRILIRE II INRQGIIGQIVI EYQILISPTELIAKMHASAEOLISAIVLIKEII |
| UniRef90_C4LFJ3 UniRef90_Q8EUG3 | QLNLRGLESRIMPSLSSSERSQLEQSAKTVKKQLDDVDKL |
| UniRef90_W7A9Y2 | AIINSRGARPLEFSLTQEEKELYDKSLAFVRE |
| UniRef90_B6IX40 UniRef90_U1LL12 | L |
| UniRef90_A3CYB5 | RINRDGVFPVP LSLEENEVAGFRESVKKI RKVT ADVMER |
| UniRef90_F8AMF8 UniRef90_E8R091 | V G R S G V V A Q L Q L E L S P R E T S A L Q S S A R V L R E T L N Q V |
| UniRef90_UPI000203581B UniRef90_UPI0003D070E1 | K F Q N G S W E V V T E L E L N E K T Q E V L D R L S Y D L L Q V L G Q S G T T D L V K V N M N T E E E A L F K K S C D I L W N T Q K D |
| UniRef90_UPI0003B73373 | V V G A G G A L E R L S V P M S D A E Q E Q L R R S A S S I R A T A E Q V |
| UniRef90_A6UUM3 | <u>v</u> ijgkkgjijekji <u>vj</u> rji jejljuekernurkksjvje <u>ji vj</u> kkywne <u>vj</u> k |

| UniRef90_D3DHB4 | L |
|--|----------|
| UniRef90_U5VDI6 UniRef90_S0JEP4 | NΑ |
| UniRef90_R5TQZ7 | |
| UniRef90_M5RII3 UniRef90 Q98PG4 | L S S |
| UniRef90_K7J615 | |
| UniRef90_E1QUL2 UniRef90_Q6ZZC6 | |
| UniRef90_B6AHM2 | N |
| UniRef90_UPI00047CF493 UniRef90_UPI000288FE2E | |
| UniRef90_UPI000375CE3A | |
| UniRef90_Q9P7P7 UniRef90_UPI000360BD98 | LK |
| UniRef90_A0A024DAD9 | |
| UniRef90_UPI0004697C1E UniRef90_A4WAE8 | |
| UniRef90_B2S1S1 UniRef90_W4Q0W6 | |
| UniRef90_UPI00036CF85A | |
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| UniRef90_T0L381 | |
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| UniRef90_Q4N6I8 | |
| UniRef90_V2XQQ9 UniRef90_Q6A9C3 | |
| UniRef90_F0QQS1 UniRef90_A3MWU9 | V |
| UniRef90_R5ICX5 | |
| UniRef90_A4J898 UniRef90_W6UKH2 | |
| UniRef90_R5G950 | |
| UniRef90_R6CRM5 UniRef90_I6XQ70 | |
| UniRef90_UPI00038330D0 | Q P |
| UniRef90_A0A031FVS4 UniRef90_G8A1G6 | |
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| UniRef90_A0LRV1 UniRef90_UPI0002E97E77 | |
| UniRef90_E2RLK0 UniRef90_UPI00036BD2AC | |
| UniRef90_UPI00030BD2AC | |
| UniRef90_D3NY47 UniRef90 H6N407 | |
| UniRef90_S7PVK8 | |
| UniRef90_UPI00045420D9 UniRef90_K2G3G6 | |
| UniRef90_UPI000359E2D4 | T D |
| UniRef90_K9PZR7 UniRef90_D9Q057 | T P L |
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| UniRef90_H1PY92 UniRef90_R8EKZ6 | |
| UniRef90_I3DJX3 | |
| UniRef90_K0YW34 UniRef90_C2EVY9 | |
| UniRef90_C4LFJ3 UniRef90_Q8EUG3 | L |
| UniRef90_W7A9Y2 | |
| UniRef90_B6IX40 UniRef90_U1LL12 | |
| UniRef90_A3CYB5 | LEE |
| UniRef90_F8AMF8 UniRef90_E8R091 | |
| UniRef90_UPI000203581B | |
| UniRef90_UPI0003D070E1 UniRef90_UPI0003B73373 | |
| UniRef90_A6UUM3 | |



| UniRef90_U5Y0Y9 UniRef90_F7NEE8 UniRef90_W8RXW5 UniRef90_S4RP83 UniRef90_C9LST3 UniRef90_Q9LST3 UniRef90_Q9EVR0 UniRef90_Q7SI97 UniRef90_U1PEM3 UniRef90_D5RLA5 UniRef90_D7DTV0 UniRef90_UPI0003728EF8 UniRef90_J2W9F4 UniRef90_J2W9F4 UniRef90_UPI0002C669D3 UniRef90_UPI0002C669D3 UniRef90_UPI0003289C0F UniRef90_UPI0003289C0F UniRef90_UPI0002C56CA0 UniRef90_UPI0002C56CA0 UniRef90_UPI0002C56CA0 UniRef90_VPI5B5 UniRef90_UPI00021A6FA8 | DINKNLAIAKAMDLAQMAAVLNLDVDILGGDDYELLRDDI DVNSDKARGEMFDI MQCEAYEPQTLFHAGSYEDTAGSDV DIDTARARAEAEDIAHAVPFAAPALVRHG DYADLDGADV DITPMLGVLEGVVMELQDCALPLLKEVIATDKEEVAFKDL DIDREKAAAQALDIGDAAAYLPYPVKKGVTYAPTAGSEV DLNADLAGGHALDLLHGAPSVADQVITSGG YEHIPDSDV DLNADLAGGHALDLLHGAPSVADQVITSGG YEHIPDSDV DLNEDKAWGEAKDSSHATCIYSTVEGSNTYDDLKDADV DIAESKVKAEALDIAQGVQFAPVSTVEGSNTYDDLKDADV DIAESKVKAEALDIAQGVQFAPVSTVEGSNTYDDLKDADV DLDLARAAGGAALDIAQGVQFAPVSTVEGSNTYDDLKDADV DLDLARAAGGAALDIAQGVQFAPVSTVEGSNTYDDLKDADV DLDLARAAGGAALDIAQGVQFAPVSTVEGSNTYDDLTGAQI DINMQKAEGEALDIAQGVQFAPVSTVEGSNTYDDLTGAQI DINMQKAEGEALDLLHATPFAAPVRVREGSYAELAGADL EKSLNMLEGVKMDIYDALAASGRDRIHSDTYLECNSDM DRSDKLALAQQQDLLHATPFAAPVRVQRGSYSDCAGATL DPKEEVRDAQVDLSDATHENSKVRAGGDYAEAG |
|--|---|
| UniRef90_UPI000252B565 UniRef90_U7U9T2 UniRef90_UPI0004440146 UniRef90_D5APZ5 UniRef90_L8IQ43 UniRef90_F2KRE4 UniRef90_F6VVZ7 UniRef90_C6Q058 | DANEELAKAEAEDI SHGAAFLGNPKI I GTKDYSLARDATV DI IEIKAKAQAMDI EDASAYYPHPVKMSYGSYKDMADRDI DRNAALAQAQAEDI GHAVP FAHPVKLGAGDYEVLAGAGI DVLEDKLKGEMMDLQHGSLFLQTPKI VADKDYSVTANSKI DI AEDI AVGEAMDLTHAAAAFKFPEVKGGSDYSLLKGSDI DI IEDKLKGKVMDLQHGNLFLKTPKI I SSDCAMTANSKL NRNKTKAEGKSIDI SHGAALFGNTRVRSGS YEDIKDSHI |
| UniRef90_C6Q058 UniRef90_UPl000383F975 UniRef90_UPl000383F975 UniRef90_D1J8E6 UniRef90_U1LQZ8 UniRef90_G9YIX6 UniRef90_G9YIX6 UniRef90_R5LUG7 UniRef90_E6L9G5 UniRef90_SF266 UniRef90_X5R8J9 UniRef90_D3LTV8 UniRef90_K2DR66 UniRef90_C7RDJ3 UniRef90_UPl0002492DB2 UniRef90_F9CUI5 UniRef90_F9CUI5 UniRef90_F9CUI5 UniRef90_H2GDF3 UniRef90_H2GDF3 UniRef90_R5RX49 UniRef90_R5RX49 UniRef90_W5L6T4 UniRef90_W5L6T4 UniRef90_U2EXK3 UniRef90_U2EXK3 UniRef90_U2EXK3 UniRef90_U2EXK3 UniRef90_U2EXK3 UniRef90_U2EXK3 UniRef90_UAGC4 UNIREf90_UAGC4 UNIREf90_UAGC4 UNIREf90_UAGC4 UNIREf90_UAGC4 UNIREf90_UAGC4 UAGCA U | NRNKTKAEGKSIDISHGAALFGNTRVRSGS YEDIKDSHI DSFPQVAIAAQAKDLNDAAGSMANNGTFKAGDYSDLKDSDI DLAAAKVEAEVLDLAHAAMPILAAKSIEGGSDLRVLAGSDV DLAAAKVEAEVLDLAHAAMPILAAKSIEGGSDLRVLAGSDV DINKDRAEGEVMDLFHGTSLVAPVEIKAGGYEELNDADI DI NKDRAEGEVMDLFHGTSLVAPVEIKAGGYEELNDADI DI NKDRAEGEVMDLDDAVAACGRDSTVRAGGYEELNDADI DI NKDRAEGEVDLDLSQAAAVFNIPTHIKGYSYELSESEV DVFS PEGVAEEMRQSGFGDVKITATTDAKEAFTNAK DLNDDLLLAKELELSQSJAAALNLDIELLGCDDV DVFS PEGVAEEMRQSGFGDVKITATTDAKEAFTNAK DLNDDLLAKELELSQSJAAALNLDIELLGCDDV DI AEGGIPQGKGLDI AQSSPVDGGFDSRILTGNDYAGIEGGADV DI AEGGIPQGKGLDI AQSSPVDGGFDSRILTGNDYAGIEGADV DI RKDKKAAQAAMDI DDSGSILCGFSTKKSYKDLKDSDV DI RKDKKAAVAEQLDLD LDDATTTTHIKVQQDYQKLLADADL DRNLKKAEGEVLDI LEHGSAFLPYTSFKGTKSYKDLKDSDV DNRKLKKAEGEVLDI LEDATVTTTHIKVQQDYQKLLADADL DRNLKKAAEGEVLDI LEDATVTTTHIKVQQDYQKLLADADL DRNKLKAVAEQULDLEDGQARLDTTTTHKVQQSDI NRTKDKAAIGEALDI SNAVPENSNVSLHGGTHKEAGSCDI DPNTALRAGAAVDL AQATTYHGGGGVRI RGGTHKEAGSCDI DPNTALRAGAAVDL AQATTYHGGGGVRI RGGTHKEAGSCDI DPNTALRAGAVDL AQATTYHGGGGVRI RGGTHKEAGSCDI DPNTALRAGASCLOUSDAAASTTYHGGGGVRI RGGTHKEAGSCDI DPNTALRAGASCLOUSDAATTYHGGGGVRI RGGTHKEAGSCDI DPNTALRAGASCLOUSDAAASTTYHGGGGVRI RGGTHKEAAGCCDI DTKPGGWAALGEALDI SNAVPENSNTSTRIRAGTHKEAAGCCDI DTKPGVAALGEALDI SNAVPPENSNTSTRIRAGTHKEAAGCCDI DTKPGGWAALGEALDI SNAVPPENSNTSTRIRAGGTHKEAAACCDI DVNNSSEGUDI QAAGVIPLGTAAACACACACACACACACACACACACACACACACACAC |
| UniRef90_UPI000249100E UniRef90_E5A5L6 UniRef90_UPI00047187E7 UniRef90_A7JYY7 UniRef90_R5Z1A0 UniRef90_X1MS01 UniRef90_D8J4I4 | D K N E K K V V A E QL D L Q D S L G R L D S N T T I K I Q D Y S E L K D A D I D P K E E L R D A Q V Q D L S D A T F H G N T T V R I R A G T H K E A G Q C D I D P F I Q G L E G V A E E M R H C G F E G L N L T F T D D I E K A F T G T K D K N L E R A E G E V F D F R H T M A F S K N T R I M P S D D Y L D L L E A S L D P Y A P G L E G V A E E L Y H C G F E G V N I T Y T S D L K E A L T D A K D L D Q K R L K G E V M D L E H G L A F V Q P V E I R A G D Y S D C A D A N L D I P E K E D D T V G Q A A D V N H G A Y D A N T T V R Q G G Y E A T E G S D V |
| UniRef90_K2EQ88 UniRef90_Q04EC7 UniRef90_E8SFF7 UniRef90_L9L819 UniRef90_H1LIF6 UniRef90_UPI000465C4E2 UniRef90_E6U6C3 UniRef90_W7VWC8 UniRef90_A6USG8 UniRef90_X1FQ17 | DTNESKVKADALDFEDAMANLPYHTNIFVNDYAELKDTDVDTDRDRIEGEALDHEHFQGLSGTHHRIKVGTYEMLADVDLDNKQSEEWLQSLVSETEYLVSPAVRSVSICTKVEEAHAQVDTREKKVEADATDFEDAMSNLPFHTNITVNDYSALKDADVDQNLKKVQADALDFEDAMANLPYHTNITVNDYSALKDADVDQNLKKVQADALDFEDAMANLPYHTNITVNDYHQLDDADVDRNVQRAEGVALDASHTTSFYSPNVHVHAGTFADCAALGGAEYDNSINKLKGLADDMWHGAGLYGFSTRLSGSDDAALGGAEYDNSINKLKGLKMDLYDSMAASGQDTDIQVFSDSEMSCSDIDVKPGVAEGKALDLWQTSAIFNTRVTGYTDDYEKTRDSGI |

| UniRef90 U5Y0Y9 | 90 100 110 120 VVI T A G K D G Q S R D D L A M M N A K I V S H S S K M V S K F A P K S I I |
|--|--|
| UniRef90_F7NEE8 UniRef90_W8RXW5 UniRef90_S4RP83 UniRef90_F7KI42 UniRef90_C9LST3 UniRef90_A4A2L6 UniRef90_Q9EVR0 UniRef90_Q7SI97 UniRef90_U1PEM3 UniRef90_U5RLA5 | V I I T A G I P R R P R V L L L E R N A R L I A D I V R Q V V N Y S P E C I L V L S C G V P G E T R L A L L E R N A A V F R A V V G E V M A V C P G A L L D A I L V G S M P R E R K D L L K A N V R I F K S Q G A A L N K Y S K K T V K V M V I A V G A K G E T R M D T L A A T A A I I R D V A E E L R Q S G F H G I L V V V I T S G M P R K P G M S R E D V N A K I V K S V V D Q A L K F S P D A Y F I I C I T A G K P D E S R L D L I N R N V D L F L S I L D S V K S A G K K D A I C I V I T A G P S I R P R L K L A G T N A K I M S S V M G E I V K R T K E A M I V I V T A G A P G K S R D D L L P L N N K I M K S I V P K A V E Q A P N A I F L V V V T A G A P G Q S R L D L A G A T I N I M K S I V P K A V E Q A P N A I F L V V V T A G A P G Q T R L E L L H Q N I R I V G Q L I E Q V L K V A P D T L F L |
| UniRef90_D7DTV0 UniRef90_UP10003728EF8 UniRef90_R7F8A9 UniRef90_J2W9F4 UniRef90_N4XSB7 UniRef90_G2WUT6 UniRef90_UP10002C669D3 UniRef90_I9M5S3 UniRef90_B1R0W0 UniRef90_UP100038EC6BC | I I I T S G A K R M S R L D L A K T N A K I I K N Y S Q E I A K H C D T K I I L T A G V P G E T R L E L L D R N T A V F A E I L P Q V L A V T P D P I L I I C I T A G V S Q R S R M E D L H N A S N I F K E L V K S I A T T K F N G I L V I T A G A S P Q G E E S R L S V S A A I V A D C A R R V A E A G F A G V M V V I T A G A K Q K K R T D L I G R N K A I L E S A I S D M K P F R P D T V L V V I T A G V P G Q T R L E L V Q T N Y A L F A D V V P R I A T A A P D T I L I V I V L D D S T D K E V H S L E D C R V P L C R L Y G Y L M E K N A H E S V R V I I A A G P S I M P R L T L A G R N V E V M K D V M T S I T Q Y T K D A V I I V V I S V G I I T K T H D R L D F I O F S I V D S F V K K I V K S G F D G I F I |
| UniRef90_UPI0003289C0F UniRef90_G1X7N9 UniRef90_UPI0002C56CA0 UniRef90_V7I5B5 UniRef90_UPI00021A6FA8 UniRef90_UPI000252B565 UniRef90_U7U9T2 UniRef90_UPI0004440146 | VIVLDDSTVQEVHSLEDCRVPLCQLYGQLLEKNADHSVRVHVIJVSKDMNTLEDCLRSKVPLCRLYGYLIEKNAYESVRVIVITAGAKQKPGETRLDLIEKNYKVLGSVLKQPINPLALISIGTGSVGMDELALVDVNEDKLKGETMDLQHGSPFLKMPVVIAIGEPRLPGQTRLDESSARMLRELTETLKPIGIGGVVVIICTRETAPGESPNVRHNFKVFKKIIPAVARFACKSVICVITIGDREQDPSTLLEQNLNIFKDVIPKVCKYAPNSILLIVTATGDLGKDRLEEYVKFKDATRDYVKEIVDAGFKGIF |
| UniRef90_D5APZ5 UniRef90_L8IQ43 UniRef90_F2KRE4 UniRef90_F6VVZ7 UniRef90_C6Q058 | V I L A A G V P G E S R L S L L S R N A A V F S E V I A K V R A Q A P E A L L I I V V T A R V R Q Q E R L N L V Q R N V N V F K F I I P Q I V K Y S P D C I I I V V S A G K P G M T R L D L A T K N A G I I K D I A K K I V E H S P E S K I V V N I A G A H H H N L N L A Q H N V N I F K F I I P N I V K C S P N C K L V A I T V G Q K N G S R L D V L K D N I E I Y K S I I C N I I K Y N K D C I I V |
| UniRef90_UP1000383F975 UniRef90_UP1000383F975 UniRef90_UT1QZ8 UniRef90_UT1QZ8 UniRef90_UT4KRV9 UniRef90_G9YIX6 UniRef90_G9YIX6 UniRef90_E6L9G5 UniRef90_G5F266 UniRef90_C5F266 UniRef90_C7RDJ3 UniRef90_C7RDJ3 UniRef90_UP10002492DB2 UniRef90_C7RDJ3 UniRef90_UP10002492DB2 UniRef90_F9CUI5 UniRef90_UP10002492DB2 UniRef90_H6BWZ9 UniRef90_H6BWZ9 UniRef90_H2GDF3 UniRef90_H2GDF3 UniRef90_H2GDF3 UniRef90_UT1U44 UniRef90_UT1U44 UniRef90_UT1U44 UniRef90_UT1U44 UniRef90_UT1U44 UniRef90_UT1U44 UniRef90_R6NXP7 UniRef90_UT1U44 UniRef90_R6NXP7 UniRef90_UT1U44 UniRef90_UT1U44 UniRef90_UT1U44 UniRef90_UT1U45 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9 UniRef90_UT1WGB9BBU UniRef90_UT1WGB9BBU UniRef90_UT1WGB9BBU UniRef90_UT1WGGBBBBBU UniRef90_UT1WGGBBBBBBU UniRef90_UT1WGGBBBBBBU UniRef90_UT1WGGBBBBBBBU UniRef90_UT1WGGBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB | VIITAGAPGEPRLALAARNADIVRALVPGIREHAPDAIL VVIITAGAPGEPRLALAARNADIVRALVPGIREHAPDAIL LVMAFGRSRKPGETRLDLVNKNIALVPGIREHAPDAIL LVMAFGRSRKPGETRLDLVNKNIALVPGIREHAPDAIL LVMAFGRSRKPGETRLDLVNKNIALVPNTLIPEIAKY NPNALL VVMAFGRSRKPGETRLDLVNKNIALVPNTLIPEIAKY NPNALL LVMAFGRSRKPGETRLDLVNKNIALVPNTLIPEIAKY NPNALL LVMAFGRSRKPGETRLDLVNKNIALVPNTLIPEIAKY NPNALL LVMAFGRSRKPGETRLDLVNKNIALVPNTLIPEIAKY NPNALL LVNAAGIPRWTRDDLLLKKONOEIAEGLGKNIKEYCPDVKHV VIITAGGPRWTRDDLLKKGNOEIAEGLGKNIKEYCPDVKHV IISSGGAPRKREDLLKGNOEIAEGLGKNIKEYCPDVKHV LVRAAGHVAAAARNADDLKKONOEIAEGLGKNIKKYAPRLKGYKGVI CIVTAFGRSRRPGENRLDDLKKVMEQVGAGLKKVAPRLKGYKGVI CIVTAFGRSRRPGENRLDDLFDDSIRWANEIGKOMAPFCLL VVLAAGGPGQTRILQLLSQNVAILKGNVAELKKVAPRLKGYKGVI VVLTAGGRSRRPGENRLDDIKKAATEMVLDTVPKVVENGYDDGVI LEITSGNIGSLQHNEFEYTRDLVKNIAARSKONOEPPV VVLTAGGRSAGKORSRTDLLGRNKSILQSAFRPDTIL VVISAGAKQKKRADLIGRNKSILQSAFRPDTIL VVISAGGKORSRTDLLGRNKSILQSAFRPDTIL VVISAGGKORSRTDLLGRNKSILQSAFRPDTIL VVISAGGKORSRTDLLGRNKSILQSAFRPDTIL VVISAGGKREHDRVTEMDFTLPAVKKNIAKKVQPSBDTIL VVISAGGKREHDRVTEMDFTLPAVKKNIAKKVQPSDTILL VVISAGGKREHDRVTEMDFTLPAVKKNIAKKVQPSDTILL VVISAGGKREHDRVTEMDFTLPAVKKUVPTILAKKQVPNVEHV VIINAAGGKREDLLGRNVKHNVELYFKKLVQYYSPDTILL VVISAGGKREHDRVTEMDFTLPAVKKUVPTILAKKQVPNVEHV VIINAAGGKREDLLSRNVKHNVELYFKKLVQYYSPDTILL VVISAGGRAPRKREDLLSRNVKHNVELYFKKLVQYYSPDTILL VVISAGGRAPRKREDLLSRNAALILADLSKVVPTVAEEGSPESLL VVINSVGKIEHDRVTEMDFTLPAVKKUVQVSPDTILL VINAAGGRAPKKREDLLSRNAALIRARSVVARAKIRDSGFNGULII VINAAGGRAPKKREDLLSRNAALIRARSVVARAKIRDSGFNGULII VITAGGVRAKKREDLLSRNAALIRARSVVARAKIRDSGFNGULII VITAGGVRAKKREDLLSRNAALIRARSVVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRARSVVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRARSVVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRARSVVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRARSVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRALARSVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRARSVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRARSVARAKIRDSGFNGULII VILTAGGVRAKKREDLLSRNAALIRARSVARAKIRDSGFNGULII VILTAGGRAKARIDLSRNAALIRARSVARARI |
| UniRef90_H1LCB8 UniRef90_T0T884 UniRef90_UPl000249100E UniRef90_E5A5L6 UniRef90_UPl00047187E7 UniRef90_A7JYY7 UniRef90_R5Z1A0 UniRef90_X1MS01 UniRef90_D8J414 | VISAVGNPKHDRFVELPFTKKAVKDVAAKL KASGFNGLL LITAGKVAAGRMGELSFNKMVVADMAPQIKASGFNGIL LVMTAGAAQKKGESRTDLIGKNKKLLQSAINDMAPFRQLL YIVSAGGAPRKREDLLRGNSEIAAELGRNIKRYCPDVHHV VVITAGKQGQTRLDIAEVNAQIGVDLARQIERVAPNAVLI YIINSGKAGMTREDLLKGNAAIAEEFGQNVKKYCPDVKHI IVVTAGAPGQSRLELTQRNADIVKSICNQIKKCDSEAVLV VVITAGSPGQSRLELTQRNADIGSSIEEHNDDYVTI |
| UniRef90_K2EQ88 UniRef90_Q04EC7 UniRef90_E8SFF7 UniRef90_E1819 UniRef90_H1LIF6 UniRef90_UPI000465C4E2 UniRef90_E6U6C3 UniRef90_W7VWC8 UniRef90_A6USG8 UniRef90_X1FQ17 | I I S A L G N I K D D R F A E L P F T S K A V V N V A K K I K A S N F N G K I I I S A S I P S N D R T K L T A Y N T K I I Q E I M A Q I T A V T T S P H I V I L D D S T D Y E V H T L E D C R V P L C R L Y G Y L I E K N A D D S V R V I I S A L G N K N D D R F A E L P F T S K A V K S V A Q K I K D S G F N G I I V I S S V G K L L G G D H P N R F A E L K P T G D D V K A V A K Q T K F N G T L V V I A A G T S V Q P R L S L A A S N A A V I R D T M A E I C P Y T T D A V L I V I T A G R P R Q P G M S R T D V N A E I M T S V C R G I R T H A P N S T L V T Y G S G S R N S R L D L A K E N A K I V K K Y V K D I S K C C D T K L I V I T S G S R N S R D D L I K T N A L I V K D V A D K A M K H S P G A L I I |

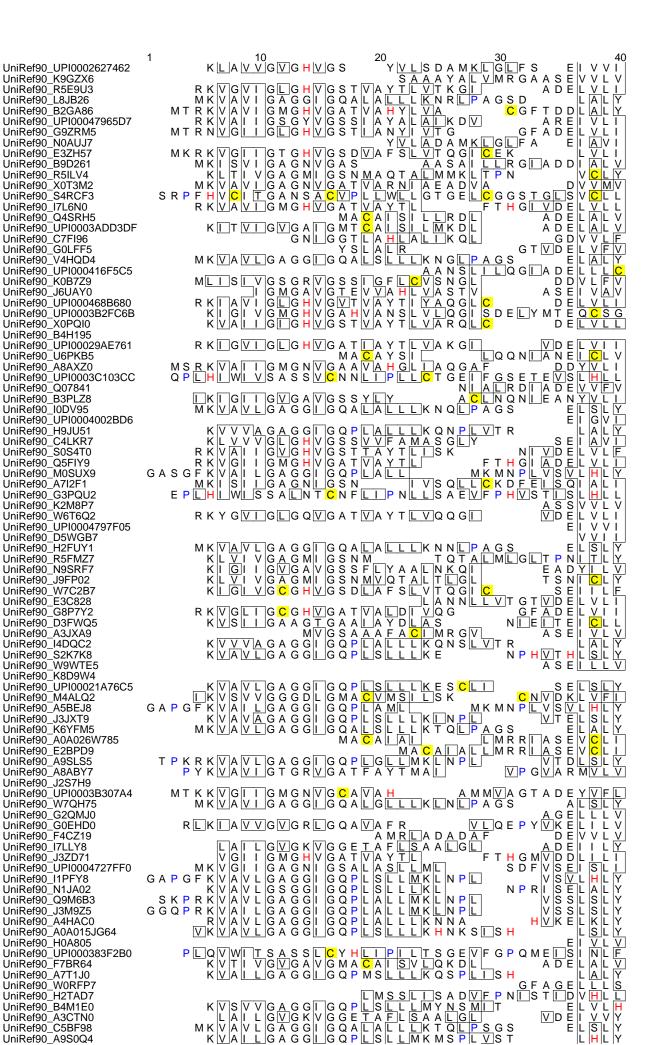
| | | 130 | 140 | 150 | 160 |
|--|--|-----------------------------------|---|--|------------------------------------|
| UniRef90_U5Y0Y9 | TVVTNPLDI | MVYVAF | K E S G F Å R <mark>H</mark> K E V S G <u>F</u> P A S R | VIGMAGEL | DSARFRYY |
| UniRef90_F7NEE8 UniRef90_W8RXW5 | L V A S N P V D I | MGQVTA | R II IS GIL I <mark>P P</mark> G R | VIGSGTIL | DTARFRWL |
| UniRef90_S4RP83 UniRef90_F7KI42 | LVVGNPAN | / I A U V I O | K S A L T I P R E Y L L S W P A G K | | DHNRA DSARLRRV |
| UniRef90_C9LST3 | I I S N P M D Z | MTYLAL | K D S G L P R N R Q R L N L P T S R | I L G Q G G M L | DSSRFRYY DTLRFRAL |
| UniRef90_A4A2L6 UniRef90_Q9EVR0 | FVVSNPVDI | LTYLAA! | Q R L | V I GLGTQL I L G <u>T</u> GT <u>M</u> L | DTLRFRAL ETYRFRRI |
| UniRef90_Q7SI97 | | / M / O I H | $\bigcup A \subseteq A \cap A \cap A \cap A \cap A \cap A \cap A \cap A \cap A \cap$ | | DICPIKVV |
| UniRef90_U1PEM3 UniRef90_D5RLA5 | MVA NPVDY FATNPVDY | / VIT Y A A W / M P A V A V | K | F F G S G T V L | DSSRLRYL DSIRFRDR |
| UniRef90_D7DTV0 | FMVSNPVD | MTYKAL | KISGLPSER RHYGVKPGR MESGYDKSK RLSGLPRHR | V F G L G T H L | DSMRFKVA |
| UniRef90_UPI0003728EF8 UniRef90_R7F8A9 | V A T N P V D V L V A G N P L D V | | | | |
| UniRef90_J2W9F4 UniRef90_N4XSB7 | I VASNPVDZ | MAQVAQ | QYSGLNSNK RASGLPTGQ HFSGLPKQQ | VI GTGTEL | DSARFRRR |
| UniRef90_G2WUT6 | | / L I H A A I | KILISGFPAHR | VIGIGISL | D T T R F R R E |
| UniRef90_UPI0002C669D3 UniRef90_I9M5S3 | V G G K T F V I | VII IK I IV I I I | IRYAPHIIAH | NIV VIAIVIAII (| V E G Q A K A A E T A R F R S I |
| UniRef90_B1R0W0 | NITNPCDI | IAKRVW | N F F G Y P K N K E L S G F N K S K | VFGTGTGL | DSSRFRAV |
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| UniRef90_G1X7N9 | L L V A N P V D V | /LTHFTQ | QMSGLPKNQ | VLGSGTLL | DSDRERGE |
| UniRef90_UPI0002C56CA0 UniRef90_V7I5B5 | TIVSSKVDI VTITNPADI | AAYYVR | Q M S G L P K N Q K L S E F P Q N R R E L D L P R E R | V F G T G T L L | DTARLVKT |
| UniRef90_UPI00021A6FA8 UniRef90_UPI000252B565 | LVTQPTD | /MSYLAW | KLSGFPSNR KLSGFPPHR RTSGFPKNR | V L G I G T L I V V G L G T F L | D S C R F Q Y F |
| UniRef90_U7U9T2 | LVVGNPCDI | - MÃ DĹVŸ | RTSGFPKNR | VIGSGTAL VIGSG <mark>C</mark> NL | DTVRLNTS |
| UniRef90_UPI0004440146 UniRef90_D5APZ5 | VASRVDI | MT EVA Q | KILIS GILI <mark>P</mark> K I R R <u>A</u> S GILI <mark>P</mark> A E R | VIGSG <mark>UN</mark> L VIGTGTLL | DSARFRYL DSARFRAL |
| UniRef90_L8IQ43 UniRef90_F2KRE4 | T V V S N P V D I | | K L S G L P K H R | V L G S G C N L | DSARFRYL |
| UniRef90_F6VVZ7 | LVVSNPVD | Z T Y V A W | RASGLPAER KLSGLPAER KESGKPRNE KLRGFPKN <mark>C</mark> KLSSFPSNH | V I G S G C N L | N S A H L C Y L |
| UniRef90_C6Q058 UniRef90_UPI000383F975 | L V T N P V D I | MAYTAF | K | I VIGTGTILL VIGSG <mark>C</mark> NL | D T S R L K Y F D T A R F R F L |
| UniRef90_D1J8E6 | I ASNPVDI | MATIYQ | QVTKFSPNK RESGLDSAR KLSGFPKNR | VISSGTIL | ETARMKKF DTSRLRWR |
| UniRef90_U1LQZ8 UniRef90_U4KRV9 | L V V S N P V D II | | K L S G F P K N R | V L G S G T V L | DTAR <u>FR</u> S <u>A</u> |
| UniRef90_G9YIX6 UniRef90_I2FD40 | I MI SNPADI | I C F YII IR | R R M N W D W O R | CFCIGISH | ETYRLLRL DGARLGYE |
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| UniRef90_E6L9G5 UniRef90_G5F266 | VITI A N P C D | - L L N L Y Y Y | ESGLFNAKK KLAELEPRQ KFSGLPKTH | V V G S G T A L | D N A R F K Y E D S A R F R H A |
| UniRef90_X5R8J9 UniRef90_D3LTV8 | I CITNPLD7 | A MV WALQ | K F S G L P K T H | V V G M A G V L | DSARFRYF ETYRLLRV |
| UniRef90_K2DR66 | MI VT N P V D | /LTFYAK | RAMGWERQR KFSGFPNHR EVSGFPFER | VEGTGTVL | DTARYRDY |
| UniRef90_C7RDJ3 UniRef90_UPI0002492DB2 | LLATNPVDN DTM NPCD/ | / I A R V V E | E | L V G T G T S L C M A T G T F L | DSARFAQY DTARMQRV |
| UniRef90_F9CUI5 | IVVSNPIDI | LTYVFQ | RTAGVETSK KETKISRNK | V I G A S S L | DSSRFRYL |
| UniRef90_Q0UCM2 UniRef90_H6BWZ9 | L L V A N P V D / L I V A N P C D V | /LTYFAQ | KFSSLPKNQ KYSGLPKSQ TEFGY PK KLSKFPSNR | V I G S G T F L | D S A R L R G I |
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| UniRef90_R5RX49 | NII II N P C DII | VIIRELLIAI | LIMIVIGILIPKGR | V F (3 (3 (3 | ID I 5 KII I 15 A |
| UniRef90_U4TU44 UniRef90_R6NXP7 | I IT I IS N P C DIV | / V A T F II W | KLSGLPKNR HLTGY <u>D</u> PR <u>K</u> | VIGSGINL IIGTGTAL | DTSRFRFL DSARLRNA |
| UniRef90_W5L6T4 UniRef90_D1XVH8 | MVAGDYVNI | KCSLLI | ENAPSVDP <mark>C</mark> IHSGLKP N | RFVAMTTQ | LEYEARAQ |
| UniRef90_Q04GC4 | | / I IT A IV/IV A | D | IV I IC T C T E II | ID S S RII IK K E |
| UniRef90_U2EXK3 UniRef90_G2KV26 | A V T N P V D I | VTY <mark>C</mark> AQ VIASITYO | A E F D Y P R E R OUT GUPKKH | VIGTGTLL VIGTGTLI | DTARLRQM DSARMKRA DSARLRCL |
| UniRef90_T1MGB9 | LVVSNPVD | /LAYAW | KLSGFPSSR | VIGSGIDL | D S A R L R C L |
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| UniRef90_UPI000287B76C | GFHGNPCD | ŊŢŢĠŸĖĞ | MVAGHO K KLSGIPQNR ENTGLSRQQ TTFDYPREK AVTGLPKKH | FATGTEL | DTARMQKV |
| UniRef90_UPI00035C84BE UniRef90_F4FXF8 | | AITSI <u>YQ</u> | 1 | V I G T G T L L | DSSWMKRA |
| UniRef90_UPI0003331C5D UniRef90_F9MQQ1 | IVGGKIFIVII | N L K A V L L | MKYAPSISK RKMGWDRKR | NII VIAIVIAILIG | VEGQAKAI |
| UniRef90_UPI0004704A2D | T V L T N P L D I | MILEML | R A T G F E R E R N E F D Y P K G R | V L G M S G T L | DSARLRQA |
| UniRef90_D5V655 UniRef90_H1LCB8 | LIT NPLD | I MIVIY II A E | N E F D Y P K G R K Y T G L P K K H | V | DSAKLKK <u>V</u> DSSRMKRA |
| UniRef90_T0T884 UniRef90_UPI000249100E | MV A A N P V D | /LITYSTŴ | KYTGLPKKH KFSGFPKER EQLDYPRNK QYSSLPHAQ VHSGLKPS | VIGSGTSL | DSARFRQA |
| UniRef90_E5A5L6 | LI VANPVDI | L T L Y G Q | QYSSLPHAQ | VFGSGTFL | DSARLRGE |
| UniRef90_UPI00047187E7 UniRef90_A7JYY7 | I I I F N P A D I | TGLVTL VAHFIV | QYSSLPHAQ VHSGLKPS TNTGFEPSK LHSGLKPS KQLGWPRER | QVTTLAAL VISSGCVV | DTTRLQS <u>E</u> DTARLMSI |
| UniRef90_R5Z1A0 | VIIFNPADI | TGLIVL | LHSGLKPS | QVŢŢĹĂĂĹ | DSTRLRSE |
| UniRef90_X1MS01 UniRef90_D8J4I4 | MVA NPVDA T TSNPVDI | L N R H L Y | K Q L G W P R E R E T G E R A R E K | VI GFGGR L | DSARFRY V |
| UniRef90_K2EQ88 UniRef90_Q04EC7 | | | QIIT GLPKKH | MTRIL | ID Q N R A IV IY Q |
| UniRef90_E8SFF7 | $MM I SNP V D^{-1}$ | ГМТ Ү І А Е | V Q F N Y P H H K | I MGTGTM L | ESTRFRTL |
| UniRef90_L9L819 UniRef90_H1LIF6 | VGGKTFVI VDISNPVDV | NIL K T A L L / I T S M Y Q | MRYAPKIJAH QI TGLPKKH | NIIAVAMG VIGTGTLL | V E G E A K A A D S S R M K R A |
| UniRef90_UPI000465C4E2 | VVISNPND | /MTSLYQ | QITGLPKKH ELTGLPKER NEFNYPRDH | VIGTGTLL | DGARMKRA |
| UniRef90_E6U6C3 UniRef90_W7VWC8 | IV VIS N PIL IE I | = M I HILIA A ' | QQIGFPEER | IV L IG M A GIV L | ID S A R F C A IL |
| UniRef90_A6USG8 UniRef90_X1FQ17 | FMITNPVD | / MTYKAY | ĒĖŠGYEKNQ KAARNTGN <mark>P</mark> | V F GIL G T HIL | DSMRFKVA |
| יווויס אַראַרוויס _ אורע ו | IVI V I IN PILIU | v_ivi t A A I | | IV IL G IVI A G IL L | יטו טועו דאר |

| | 470 400 400 000 |
|--|---|
| UniRef90_U5Y0Y9 | MSQKLGLSVAQCFGKCV GMHNNAMICLESSIKFKNQSIC |
| UniRef90_F7NEE8 UniRef90_W8RXW5 | ÜSREFTVNARDI DAYVI GEHGETMVPVASNIKIKGISLE IGRHLGISPRSVHAY VLGEHGDSEVLAWSNARAGSVALT |
| UniRef90_S4RP83 | |
| UniRef90_F7KI42 UniRef90_C9LST3 | TAEAAGVSTEDVEGYAL GEHGESQIAAWSTVSVQGRTLS TEAGYPATPTDIDGMVLGGHSDKTMVPLVSHATLRGVPVT |
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| UniRef90_J2W9F4 | ILIA DRILIGIVIA PIVISIVIE G.M. IVILIGE H.G.D.S.EIVIAIVIE S.GIVIRILIGGIVI |
| UniRef90_N4XSB7 UniRef90_G2WUT6 | ILIGHHEGILIS PRSIVIHAFILLL GEHGDSQILIPIVIWSILIANILIS GMRILIP |
| UniRef90_UPI0002C669D3 UniRef90_I9M5S3 | LARKLGTTPSSIKDVIIWGNISGNNYVDLRKAKVYRHESA MANKYKVDPKNVHGY MLGEHGNSAFPAWSLVNLAGVPYN |
| UniRef90_B1R0W0 | L A R E T G V D H K S I Q G Y |
| UniRef90_UPI00038EC6BC UniRef90_UPI0003289C0F | LARKIKTAPS <mark>C</mark> IKNVIIWGNITGNHHVDLRKTRVYNQPSP LARKIKTTPSAIKD <u>V</u> IIWGNISGNNYVDLRKAKVYRYESA |
| UniRef90_G1X7N9 | LAQRLNVSDNSINAYVI GEHGDSQ <mark>C</mark> VAWSSATVSG AIGQKLGIHSES <mark>C</mark> HG WVLGEHGDSS <u>VPV</u> WSGVNIAGVPLK |
| UniRef90_UPI0002C56CA0 UniRef90_V7I5B5 | |
| UniRef90_UPI00021A6FA8 | VSRRLNVARSSVTCMVV GAQGDMAVPI WSSI QVGGMKLR |
| UniRef90_UPI000252B565 UniRef90_U7U9T2 | I A Q K L G I S A S S V Q A S V I C E N G P T S V P I W S A V T V M G I K L K L S K V L N V D P S A L R G V I L G E H G E S Q F V A W S N I F V N N L K L E |
| UniRef90_UPI0004440146 UniRef90_D5APZ5 | V S R R I N V A R S S V T C M V V G A Q G D M A V P I W S S I Q V G G M K L R I A Q K L G I S A S S V Q A S V I C E N G P T S V P I W S A V T V M G I K L K L S K V L N V D P S A I R G V I L G E H G E S Q F V A W S N I F V N N L K L E I G E K L G V H P T S C H G W I I G E H G D S S V P L W S G V N V A G V T L R L A G H L G V A A H S V H G F V L G E H G D S E V L A W S S A R V G A E P L D |
| UniRef90_L8IQ43 | WAENEGII II FOO <mark>UII O WII EIGEII GDO</mark> |
| UniRef90_F2KRE4 UniRef90_F6VVZ7 | NA RGIRADKL FILGEHGDSMFV MGEKLIGIHSSSCHG WILAEHGDSSVPLWSGVNVAGVSLK |
| UniRef90_C6Q058 UniRef90_UPI000383F975 | II ICD V V NII IN S S EII IE T <mark>C</mark> IVII C E <mark>II</mark> C D S OIVITII IWS <mark>II</mark> T K II IN NIVI <mark>D</mark> II IK |
| UniRef90_D1J8E6 | L S E K I G I K A H S I T G F V I G E H G A R <mark>C </mark> L I P F S K I R I G L G S L K |
| UniRef90_U1LQZ8 UniRef90_U4KRV9 | ILIS EIL VIGIVIA PRSIVIA AILI VI GEAGDSEFPILIWSRAKII IGPIVL VIR |
| UniRef90_G9YIX6 | I IGNIL IT G Y S R H S II IQ G F <mark>C I</mark> L I G E H G N S S F II IA W S T IV IR II IN G R P F IL I |
| UniRef90_I2FD40 UniRef90_R5LUG7 | SKVLLNDFQTPIKPYVI GSHSDDMLPLLRHSLYGAENLA LAKKFNVMQSEIKG <mark>C</mark> ATYGGHGEQMAVFGSHVTVDGKPLT |
| UniRef90_E6L9G5 | LAKKFNVMQSEIKG <mark>C</mark> ATYGGHGEQMAVFGSHVTVDGKPLT LAKKLKVKTSSVDTR LMGFHNDDMVLLKSHSSVGNRKLT LWDATGYNPNSITSWMI GEHGASQFAAWSHVSFGATPLA |
| UniRef90_G5F266 UniRef90_X5R8J9 | L AEE <u>F</u> K V S <u>V </u> ED V TA |
| UniRef90_D3LTV8 UniRef90_K2DR66 | L S R |
| UniRef90_C7RDJ3 | ILIAILIET GENIVIA DILIN A YIVILI. GEH GN SSIVIAIVIWSN A NILIN GILIGILID |
| UniRef90_UPI0002492DB2 UniRef90_F9CUI5 | VAEQFGVNYKNVSGY VMGEHGESQFVAWSTVRVNNHPLV LSEKFNLNQSQINNVIVLGEHGDSMVPIFSRVKINKMNLL |
| UniRef90_Q0UCM2 UniRef90_H6BWZ9 | L A A R A D V A A S S V D A Y V L G E H G E S Q F V A W S L A R I G G M P L L S E K I G V D A S S I D A Y V L G E H G E T Q M V A W S C V T I G A V P L I G T E L G I D P K S V T G Y M M G E H G S T S V P I L S Q V N V Q G L R W E |
| UniRef90_H2GDF3 | I GTELGI DPKSVTGY MMGEHGSTS <mark>VPI I</mark> SQV NVQGLRWE LSQKLGLARTSI S <mark>C</mark> MN GAQGDTSVSLWS <u>S</u> I HVAGTKIR |
| UniRef90_E2AWM8 UniRef90_R5RX49 | IL IA R Q T GII ID H K SII IT <mark>C</mark> Y |
| UniRef90_U4TU44 | I S Q K L G V A P S S V H G W L T G E H G D S S V A T W S G V N V A G W R L R I A K R V N V D Q R S I G A Y M L G E H G N S Q F A Y W S N V N I A G K P L D |
| UniRef90_R6NXP7 UniRef90_W5L6T4 | I A K R V N V D Q R S I G A Y M L G E H G N S Q F A Y W S N V N I A G K P L D L A E K L S V K T T D I T D I I V W G N I S G S S H V D L Q R A K V F G F S Q Q L A D E F G V Q Q D K V V G A H T Y G G H G E Q M A V F A S K V S I D G K P L S I G E R F K I D P R S V S G F V I G E H G N S Q F P A W S S I R I F D N P I S I A A S C H V D G K N V H G Y V L G E H G N S Q F P A W S S I R I F D N P I S I A E K L N L D S R S V I G Y N L G E H G N S Q F T A W S T V R A L D K P L T A E K L N L D S R S V I G Y N L G E H G N S Q F T A W S T V R A L D C M P V D C A F M W S S V R A L D C M P V D C |
| UniRef90_D1XVH8 UniRef90_Q04GC4 | LADEFGVQQDKVVGAHTYGGHGEQMAVFASKVSIIDGKPLS |
| UniRef90_U2EXK3 | I A A S CHVD G K NVH G Y V LG E H G G G A F VP WG V DV A G V P V D |
| UniRef90_G2KV26 UniRef90_T1MGB9 | |
| UniRef90_A1HSK3 UniRef90_Q7MTK2 | |
| UniRef90_UPI00036FB93B | LAKHFGIKQSLVTNTRTYGGHGEQMAVFASTAKVNGTPLT I AQHFKVNPADVNALVI GEHGTSVFLWSGVTLGGRPLA I GQKLSI HAGSC LGWVLGEHGDSGVPVW VSDKFDVDPKNVSGY VYGEHGESQFTAWSTVQVNGLAVT LANKYHVDTKNI HGY VLGEHGNSAFPAWSTVDVAGLGLE VAKKLHLDPRSVAGYNL GEHGNSQFTAWSTVRVVNKRV |
| UniRef90_L5MHF2 UniRef90_UPI000287B76C | I G Q K L S I H A G S |
| UniRef90_UPI00035C84BE UniRef90_F4FXF8 | LANKYHVDTKNIHGY VIGEHGNSAFPAWSTVDVAGLGLE |
| UniRef90_UPI0003331C5D | VARKLHIDDERSVAGYNL GEHGNSGFTAWSTVRVLGKPIT VARKLKTTAS <mark>C</mark> IKD <u>VI</u> VWGNISGNNYIDLRKAKVYNYESA |
| UniRef90_F9MQQ1 UniRef90_UPI0004704A2D | LISRRTGIINRRDIINGF <mark>C</mark> MGEHGNSGFIIVWSHVYLRNTPIILIA QAARVDAGDII DAIAIGSHGREMIPIIJSIIARIIRGRSIID |
| UniRef90_D5V655 | V A R K L H D P R S V A G Y N L G E H G N S Q F T A W S T V R V L G K P T V A R K L K T T A S C K D V W G N S G N N Y D L R K A K V Y N Y E S A L S R R T G N R R D N G F C M G E H G N S G F V W S H V Y L R N T P L L A Q A A R V D A G D D A A L G S H G R E M P T S L A R R G R S L D V A D M Y N D P K S V T G Y M M G E H G K T A F P V L S R L N A G L S F T V A Q E L D D P R S V D G Y N L G E H G N S Q F T A W S A V R V L G H P T L A E K L D V D A R S V H A Y I M G E H G D S E F A V W S H A N V A G V N L E V G Q S F G V S A N N V S G Y A L G E H G A S Q F T A W S T V Q V N G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G A S C F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G A S C F I P W S L A S L S G V P L S V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S V A R E T G V A S S I T A Y V L G E H G A S C F I P W S L A S L S G V P L S V A R E T G V A S S I T T A Y V L G E H G A S C F I P W S L A S L S G V P L S V A R E T G V A S S I T T A Y V L G E H G A S C T T A W S T V L G T T T T T T T T T T T T T T T T T T |
| UniRef90_H1LCB8 UniRef90_T0T884 | |
| UniRef90_UPI000249100E UniRef90_E5A5L6 | V G Q S F G V S A N N V S G Y A L |
| UniRef90_UPI00047187E7 | LAKHEGVLQSKVTNCRTYGGHGEMMAVFASTAQVEDTPLS |
| UniRef90_A7JYY7 UniRef90_R5Z1A0 | V A D MY N I D P K S V T G Y MM G E H G K T A F P V L S R L N I A G I S F T V A Q E L D I D P R S V D G Y N L G E H G N S Q F T A W S A V R V L G H P I T L A E K L D V D A R S V H A Y I M G E H G D S E F A V W S H A N V A G V N L E V G Q S F G V S A N N V S G Y A L G E H G E S Q F T A W S T V Q V N G V P I R V A R E T G V A A S S I T A Y V L G E H G E S Q F I P W S L A S L S G V P L S L A K H F G V L Q S K V T N C R T Y G G H G E M M A V F A S T A Q V E D T P L S V A G R V D L D P K N V F G Y V L G E H G S H C F T P K S L I S I A G Q P A D L S K Y F Q I S M D S V E N C R T Y G G H G E Q M A V F A S T A K V N G K P L S L S K Y F Q I S M D S V E N C R T Y G G H G E Q M A V F A S T A K V N G K P L S L S K Y F Q I S M D S V E N C R T Y G G H G E Q M A V F A S T A K V N G K P L S L S K Y F Q I D G V K N L V I L G E H G D S Q V P V F S K V R V D G R D P E I A K K A K V P I D G V K N L V I W G N H S A T L V P D F S N I L I Q D K K I C V A K R L K I D P R S V V G Y N L G E H G N S Q F T A W S T V R V L G K K I S L A N H Y Q V D P K N V E A F V I G E H G N S Q F T A W S T V R V L G K K I S L A N H Y Q V D P K N V E A F V I G E H G K T T Y P D L R K A R P H N Y S R P L A R K L K T T P S C I K D V I W G N I S G N N Y I D L R K A R P H N Y S R P |
| UniRef90_X1MS01 | L S R H C G V D T R N V H A Y T L G E H G D S E V A A W S M T H V A G V S M K |
| UniRef90_D8J4I4 UniRef90_K2EQ88 | I AKKAKVPI DGVKNLVI WGNHSATLVPDFSNI LI QDKKI C |
| UniRef90_Q04EC7 UniRef90_E8SFF7 | VAKRLKI DPRSVVGYNL GEHGNSQFTAWSTVRVLGKKI S LANHYOVDPKNVEAEVI GEHGKTTVPVWSRVRI AGMSI E |
| UniRef90_L9L819 | LARKLKTTPSCIKDVIIWGNISGNNYIDLRKARPHNYSRP VAKELGIDPRSVSGYNL GEHGNSQFTAWSTVRVLGHPIT |
| UniRef90_H1LIF6 UniRef90_UPI000465C4E2 | LARKLKTTPSCIKDVII WGNISGNNYIDLRKARPHNYSRPVAKELGIDPRSVSGYNL GEHGNSQFTAWSTVRVLGHPITVGKAFHVDPRSVEGYNL GEHGNSQFTAWSTVKVLDQPVA |
| UniRef90_E6U6C3 | VAKELGIDPRSVSGYNL GEHGNSQFTAWSTVRVLGHPITVGKARPAVSRTVLGHPITVGKAFHVDPRSVEGYNL GEHGNSQFTAWSTVRVLDQPVAIAEEYAVDTKNVHGY LGEHGDTAFAVWSMVSIAGVSLPVGLTGKARPQDVRA VALGSHGPEMVIPLSQAFVGDRPLEVAKYFKVHIDDVRTRIV GEHGDSMVPLMSATSIGGIPARLANALNVSPLDIQAL LMGGHGDTMVPLPRYTSIAGIPLT |
| UniRef90_W7VWC8 UniRef90_A6USG8 | V G L I G K A K P Q D V K A V A L G S H G P E M V I P L S Q A F V G D R P I E V A K Y F K V H I D D V R T R I V G E H G D S M V P L M S A T S I G G I P A R |
| UniRef90_X1FQ17 | L A N A L N V S PLD I Q A L L M G G H G D T M V P L P R Y T S A G L P L T |

| | 040 000 000 000 |
|--|--|
| UniRef90_U5Y0Y9 | KDELKKYFE DIKLNTKSGGSNIVKLMGTSAFYAPA |
| UniRef90_F7NEE8 UniRef90_W8RXW5 | QFPAYSD KILTDIIDHVIATSG EVIALKGGTVFAPAV DFAAQIGAALTADVRIDTGVRNAAYTIIEGKGATWYGIGG |
| UniRef90_S4RP83 UniRef90_F7KI42 | ELREENKEKYGRID WESLEVRGGGWTI LEGKGSTEFGIGA |
| UniRef90_C9LST3 UniRef90_A4A2L6 | QL LSKEALT DVVE KTKVGGATLTKLLGTSAWMAPG LDKFPGWTPNKAT <u>EL</u> FT <u>RT</u> RGSGAEVIKKKGGAGFAVGL |
| UniRef90_Q9EVR0 UniRef90_Q7SI97 | DLDEYFHRTEKHEAVEQELVQVAYDVIN KKGFTNTGLAM EFLNNKKLTDQELDALFDRTLNTALEIVNLHASPYVAPAA |
| UniRef90_U1PEM3 | QWGQTVDGRMLDDSVREALHHRSAYEI LEGKGVTNYAIGL |
| UniRef90_D5RLA5 UniRef90_D7DTV0 | QWGQTVDGRMLDDSVREALHHRSAYELLEGKGVTNYALGL DFAAQRGKPLDAAMRAQLHVRTSAYRLKAGKGVSNFGLGG RLP NYENFPYYDLLNSLKTHGKRLNGLKNGSEYGPAS |
| UniRef90_UPI0003728EF8 UniRef90_R7F8A9 | SLAAQQGKDDIVKARIDAGVRRAAYIII IEGKGAI WEGII GA NYLSHEDMUNUEDETRNEGEK |
| UniRef90_J2W9F4 | ALDQL RDGAML DRAEL ARETMRAGYAL AFGKGHTSYGVAT |
| UniRef90_N4XSB7 UniRef90_G2WUT6 | <u>E</u> Y |
| UniRef90_UPI0002C669D3 UniRef90_I9M5S3 | OILIDS VEOPNEPILIDTEKTA GIVLISIVIA V DIVLINII IK GCT N S GILIA M |
| UniRef90_B1R0W0 UniRef90_UPI00038EC6BC | ELEDPDHFAHLDKQALLKEVIGAGWVTFAGKGATEFGIAS YSRPLLDLIFDSEWLKTEFVTTLKTLTATGKHFGSILAAH IWGPPHNLICDSEWLNREFVSNLKMLTATGKQFGGILAAH |
| UniRef90_UPI0003289C0F UniRef90_G1X7N9 | TWGPPHNLICDSEWLNREFVSNLKMLTATGKQFGGILAAH HISLIDDISEEEKVEIGKLVSGKANAIIKAKGFTSYGIGA |
| UniRef90_UPI0002C56CA0 | NIL IN S DII IG T D Q D P E Q WK NIVI <mark>H</mark> K D A S A Y EII I IK M K G Y T S W A II IGIL I |
| UniRef90_V7I5B5 UniRef90_UPI00021A6FA8 | SYPGL DKEYLLERTRMTGMDLING KDSTEFGIGQ DINPRIGEQDDPEKWYEINVKNVGTQLEEKKGSCCWGVAV DINKDLGTKADPESWGELHAKVCDNDLISRKGYRCWGMGL |
| UniRef90_UPI000252B565 UniRef90_U7U9T2 | KYILIEQNPANFSRDAIVIENILVIRERAWRIVI IDGKQHTQ <mark>C</mark> GII IGS |
| UniRef90_UPI0004440146 UniRef90_D5APZ5 | S L N P S L G T D S D K E Q W K L I H K Q V S A Y E I T K R K G Y T S W A I G L R L A S Q L G V A L T E E V R A K L D V R Q A A Y R L I A G K G A T W Y G L G A |
| UniRef90_L8IQ43 | |
| UniRef90_F2KRE4 UniRef90_F6VVZ7 | AKS AGV DVD WS EVLQET RNIA A EVIK RKGAT FGPAV SLHPALGT DGHLEH WKDVHKQESAYEVIKLKGYTS WAI GL |
| UniRef90_C6Q058 UniRef90_UPI000383F975 | DYINKNCNKDFDEKFLENKTKRAGWDIRACDEHSCFGISM ELNLDIGTDKDPEQWKNVHKDASAYEIIKMKGYTSWAIGL DWLANGTITNEWLSQLNEMVKKEAFEILAGKGLTNYGLGE |
| UniRef90_D1J8E6 UniRef90_U1LQZ8 | EWREDGEII IREPEDRII IADEIVIMHAAYRII LIEGKGATS SAILIG |
| UniRef90_U4KRV9 UniRef90_G9YIX6 | EYCAKENCEIDFEQRITDEVKHAAYEIIKRKGFTNYAVAV EFIKDKKELSNVDPEEQTQVKRAGDLEVDFKGCTEFGLAN |
| UniRef90_I2FD40 | D <u>RILIDE QQNLI REIKNGGAKII VISY</u> YQQGSAYFAPA |
| UniRef90_R5LUG7 UniRef90_E6L9G5 | ETIGTPEFTNEEWEQMKVDVKGGAKIIELRGRSSFQSPAY ELLSE EEFEDAENEVKTGGAKVIKHLKNSAYLAPAS |
| UniRef90_G5F266 UniRef90_X5R8J9 | ELEKSDPKHFSFDKDIEEAARMGGYVTYAGKQ <mark>C</mark> TEYSVAN DLIKMGWTSKEKDQIVQRTRDGGAEIVGLLKTG HILQEDKKYKELDAALQEEVKMAGDVEIDGKG <mark>C</mark> TEFGIAN |
| UniRef90_D3LTV8 UniRef90_K2DR66 | |
| UniRef90_C7RDJ3 UniRef90_UPI0002492DB2 | QFIDNID DSYKDKVGEMIRDKAFRIIKGKGAT HFGIAN DFAKANGKKLDYDALEEELRKGGWAVFSG KGYTSFGIAT |
| UniRef90_F9CUI5 UniRef90_Q0UCM2 | EMILIDETEONIL LITTEILIRNYWKS ILIRKEKSRSOEGILIAK |
| UniRef90_H6BWZ9 | DSALPKDVKLDREAI AEETKNKATEI I NNKGVTNY GIGDQCLPPNVTLDRKALARETKDKAAKLIEAKGAT AYGI AAELEAWHGKPLPTAPEMQEKVVRAAYDVLLSKGWTNAGVAR |
| UniRef90_H2GDF3 UniRef90_E2AWM8 | DII IN P R M G E A D D P E K W R DII ISIVIKII ID D E IL IN R K K K G P S C W A IL IG F |
| UniRef90_R5RX49 UniRef90_U4TU44 | T WAARDERFRFDRDALQKESIGGGWVTFSGKF <mark>C</mark> TEYGIAT EINAAVGTESD <u>P</u> ENWKDI <mark>H</mark> KQMSAYDVIKLKGYTSWAIGL |
| UniRef90_R6NXP7 UniRef90_W5L6T4 | QLAQDDPQRFALDKDTEQDARRGGYRVYAGKECTEYALAA VLEMIYDKKWLETDFLSLVALRRRAISLKTNRTAANSATN EMGL SEEKWAAIKLRTTQGGSNIIKLRGRSSFQSPAY |
| UniRef90_D1XVH8 UniRef90_Q04GC4 | EMGL SEEKWAAIKLRTTQGGSNIIKLRGRSSFQSPAY |
| UniRef90_U2EXK3 | SF AKENSVNIDDLEEKTKEDAFRVIDGKGYTNIAIATA KLHTAFDLPAPLNRDLLEKTKAAGFEI ITRKGYTSAGIAA ELAKERHLDLDA LDNEARHGGYTIFKGKGYTSYGVAT SYLQKTHSLFDAEALEIRRAVVGGAGEVTLKGYTSWAIGY LTALPGYDQAKLAPIIENVVQASSQVIALKGGTVFAPAT |
| UniRef90_G2KV26 UniRef90_T1MGB9 | SYLQKTHSLFDAEALEIRRAVVGGAGEVTLKGYTSWALGY |
| UniRef90_A1HSK3 UniRef90_Q7MTK2 | DLIGIDKINEQWA <u>ELI</u> KQ <u>RIVV</u> KGGANII <u>I KI</u> LIKGKSSFQSP <u>S</u> Y |
| UniRef90_UPI00036FB93B UniRef90_L5MHF2 | E MLPGDKTSFQKKLEQEVKF ANLTLLEGNNASQYGLG |
| UniRef90_UPI000287B76C UniRef90_UPI00035C84BE | ELARQRGLDLTA LEEAARRGGWEVYVGKHYTNWALAT HLDEYFHLTEKLDRAVEKELVOVAYDVINWKGFTNTGLAM |
| UniRef90_F4FXF8 UniRef90_UPI0003331C5D | ELADKEGLDLDK IDEDARMGGFVVFRGKGYTNYALAS |
| UniRef90_F9MQQ1 | HIHKDAFSEDDKQTIQEEVRWAGDMEVEN KGCTEFGLAN |
| UniRef90_UPI0004704A2D UniRef90_D5V655 | DLNKYFDEKDQAEALQKELVSAAYKVMNGKGWTNAGVAQA |
| UniRef90_H1LCB8 UniRef90_T0T884 | K V A K E R N I D L A E |
| UniRef90_UPI000249100E UniRef90_E5A5L6 | ELARQRGLDLTA LEEAARRGGWEVYVGKHYTNWAIIAT HLDEYFHLTEKLDRAVEKE VQVAYDVINWKGFTNTGIAM ELADKEGLDLDK I DEDARMGGFVVFRGKGYTNYAIIAS I WGPPQYSQPVLNLIFEWVQKEFVETLKNLKKYGGLLAAH HIHKDAFSEDDKQTLQEEVRWAGDMEVEN KGCTEFGIAN AFLSPAEIESC I HKAINGGGEI VALKKTGSATIAPA DLNKYFDEKDQAEAIQKEIVSAAYKVMNGKGWTNAGVAQA KVAKERNIDLAE LDEIAKAGGYTVFHGKHYTNYGIAS SYLKDVQNVDEAELVEFEGVRDAAYSIINKKGATFYGIAV TLQHSHNVD LDKFEEAIRLGGVMVFEGKGYTNFAVATC SALMPGSSTLDKEALASRVKNKASRIIDS KGSTNYGIGG TLIGTDKLSNEEWILKERVVKGGANIIKERRKQNTVHGIAA |
| UniRef90_UPI00047187E7 UniRef90_A7JYY7 | TEIGTDKESNEEWILKERVVKGGANLIKERGRSSFQSPSY |
| UniRef90_R5Z1A0 | Y Y C D I H NI E RI D P H A L LE AV K Q A G Y E I F R R K Q N I V H G I A A E L I G T E V L S K E Q WE I Q Q K V I K G G A N I I A L R G R S S F Q S P A Y D Y C A I C D P E K G H A E I A H R V R D S A Y H I I D Y K F S D A E K E E I L D E L Q E S A M N V I E R K G A T E W G P A T N F I E D E E W L K T T F M Q L I Q Q R G A K L I E K R K K S S A A S A S Q E I A V D K K L D L D E I N R E A K V G G Y T V F H G K K Y T N Y G I A S E Y E Q L N G T P I S K Q G I R D Q I D K V S F D V M R K K G W T N S A I S R V V L S L I F D S E W L K K E F V E T L K K E I A K Q R G I D L N K L D K A A R E G G F N V F H G K K Y T N Y G V A N D A A R I F R R P V H L D R F A I V R F V R A G V H I V O L K G Y T N A G V A N |
| UniRef90_X1MS01 UniRef90_D8J4I4 | FSDAE KEELLDELQESAMNVIE RKGATEWGPAT |
| UniRef90_K2EQ88 UniRef90_Q04EC7 | N F I I E D E E WL K T T F M Q L I I Q Q R G A K I I I E K R K K S S A A S A S Q E I A V D K K L D L D E L N R E A K V G G Y T V F H G K K Y T N Y G I A S |
| UniRef90_E8SFF7 UniRef90_L9L819 | EYEQLNGTPISKQGIRDQIDKVSFDVMRKKGWTNSAISRV VLSLIFDSEWLKKEFVETLKK |
| UniRef90_H1LIF6 UniRef90_UPI000465C4E2 | EI AKQRGIDLNK LDKAAREGGFNVFHGKKYTNYGVAT |
| UniRef90_E6U6C3 | DLAAKQGLD LDQINEDVRMGGFTVFNGKGYTNYGVSTA DAARIFRRPVHLDREALVREVRAGYHIVQLKGYTNAGVAN S MFDAEALKGIVERARESGGEVVKLLKGSAYFSPAE RLPGYENFPYYETL ERIRGYGKEI IDLKNGSEYGPAS |
| UniRef90_W7VWC8 UniRef90_A6USG8 | S MFDAEALKGII VERARESGGEV VKL LKGSAYFSPAE RLPGYENFPYYETL ERIRGYGKEII IDLKNGSEYGPAS |
| UniRef90_X1FQ17 | ELLG SEETEKIVERTAKGGGETVKLLGTS |

| | 250 260 270 280 |
|--|---|
| UniRef90_U5Y0Y9 UniRef90_F7NEE8 | A GIV VIK M C E CI I Q N I N D E TIL IS C S V L D E N L I P T G R F IV I |
| UniRef90_W8RXW5 | GLARIVGAIA GDEQAVLSVSTVEAEVLGVP DVALSLPR |
| UniRef90_S4RP83 UniRef90_F7KI42 | A L A E V R A V W E D K G T I L P V S T L L N G E Y G Q H G V Y A S V P A A A A A M M V E A I A L D A K K L I P C C V G L D G E Y G E K D L A I G V P V A I R D V I E A I A L D K N Q V L P V S S V Q N G C Y G I R N V A L S V P T A A C R F I K S V L Y D E H T I L P C S A V L E G E Y G I K D V A L S L P R A I I E M A E S Y I R D L R K V L I C S T L L E G Q Y G H K D I F A G T P L S V A S I L A S I V R D E H R I M P V S S L L E D W L G I S D V C M S V P T C I A R L A R A I L M D E R V V F P V S T Y L P E F L G V R E T C I S L P H A I V N I V K C M A N N D R R I L T L S T Y L E D E I E G I E G N A C V G V P V G L A R M V R A I A R D E R A V M T I S Q V E D K I E G V G P V A L S L P R A L T R I T S A I I A D E K A I I C V S S T A L I A D E K A I I C V S S T A L I A D E K A I I C V S S T A L I A D E K A I I C V S S T A L I A C G G V A G V Y I S I P C C I S L P C C I S L P C C I S L P C C I S L P C C I S L P C C I S L P R C C C G V A G V Y I S I P C C C C C C C C C C C C C C C C C C |
| UniRef90_C9LST3 | A L A E V V R A V W E D K G T I L P V S T L L N G E Y G Q H G V Y A S V P A A A A A M M V E A I A L D A K K L I P C C V G L D G E Y G E K D L A I G V P V A I R D V I E A I A L D K N Q V L P V S S V Q N G C Y G I R N V A L S V P T |
| UniRef90_A4A2L6 UniRef90_Q9EVR0 | AACRFLKS VLYDEHTILPCSAVLEGEYGI KDVALSUPR |
| UniRef90_Q7SI97 | AFTEMAESYIR DLRKVLI <mark>C</mark> STLLEGQYGHKDIFAGTPL SVASILASIVR DEHRIMPVSSLLEDWLGI SDV <mark>CM</mark> SVPT |
| UniRef90_U1PEM3 UniRef90_D5RLA5 | CIARLARAILM DERVVFPVSTYLPEFLGV RETCISLPH |
| UniRef90_D7DTV0 UniRef90_UPI0003728EF8 | AI VNI VK CMANNDRRI LTLSTYLEDEI EGIEGNACVGVPV GLARMVRAI AR DERAVMTI SQVEDKI EGV GPVALSLPR |
| UniRef90_R7F8A9 | ALTRITS ALIA DE KATI CVSS YDPVQKI FISTPS |
| UniRef90_J2W9F4 UniRef90_N4XSB7 | A I VRILCEA VRRDEQVVLPVSTLAQGACGV AGVYLSLPC |
| UniRef90_G2WUT6 | VIVSL VEPLVKDSDAI MTVSQV GDYAGVEDVALSMPC |
| UniRef90_UPI0002C669D3 UniRef90_I9M5S3 | A A C H L A R A V L F N E R S I F P V S T T L Q G E Y G L H N V A L S L P C |
| UniRef90_B1R0W0 | TLARI VNCIFHDEKQIMPVTILMEGQYGIE GLETSTPC |
| UniRef90_UPI00038EC6BC UniRef90_UPI0003289C0F | SI ATTLKYWYHGSPPEI VSLGI 5 SEGQFGI PEGI VFSMPV |
| UniRef90_G1X7N9 UniRef90_UPI0002C56CA0 | TAANICEAI LFDQRPVYPLS <mark>CWH</mark> E EHQ <mark>CC</mark> ISLPA |
| UniRef90_V7I5B5 | ALT ALCAS ILGOEROVFPLSVLLEGEYG QRDVNCGVPC |
| UniRef90_UPI00021A6FA8 UniRef90_UPI000252B565 | SIAE II VIDAII VIRNTKIV V LIPASTHII LIS <mark>C</mark> AHGTDKDIVIY MSIV P <mark>C</mark> CAAE IV VIDAII VIRNTCII <mark>C</mark> VITIVISTYILIK GCRHGII FKDIVIY MSII PC |
| UniRef90_U7U9T2 | AVCSMIDSLVN DRKELLLVSTLLNGMYGLNDLY LSTPC |
| UniRef90_UPI0004440146 UniRef90_D5APZ5 | GLARMVRAIIAR DERAVMTISQVEDKIEGVGPVALSLPRALTRITSALIADEKALICVSS YDPVQKIFISTPSALITRITSALIADEKALICVSS YDPVQKIFISTPSALIVRLCEA VRRDEQVVLPVSTLAQGACGVAGVYLSLPCVAASICKS LFDQRNIRPVSHYQD DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLVEQ DLNVCLSVLAVIVSLATIVSQV GDYAGVEDVALSMPC SLATMLKYWYHGSPPEIVSLGVLSEGQFGVPEGIVFSMPVVAACHLARAVLFNERSIFPVSTTLQGEYGL HNVALSLPCTLARIVNCLFHDEKQIMPVTTLMEGQFYGL HNVALSLPCTLARIVNCLFHDEKQIMPVTTLMEGQFGIPEGIVFSMPVSIATTLKYWYHGSPPEIVSLGISSEGQFGIPEGIVFSMPVSIATTLKYWYHGSPPEIVSLGISSEGQFGIPEGIVFSMPVSIATTLKYWYHGSPPEIVSLGISSEGQFGIPEGIVFSMPVSIATTLKYWYHGSPPEIVSLGUSEGVLSEGVFGIPKGIVFSMPVTAANICEAILLFDQRPVYPLSCWHE EHQCCISLPASVACASILLKNLRRVHPVSTIIKGLYGINEEVFLSVPCALTALCAS LLGERQVFPLSVLLEGEYG QRDVNCGGVPCSTAEIVDAIVRNTKVVLPASTHILSCAHGTDKDVYMSVPCCAAEVVDAIVRNTKVVLPASTHILSCAHGTDKDVYMSVPCCAAEVVDAIVRNTKVVLPASTHILSCAHGTDKDVYMSVPCCAAEVVDAIVRNTKVVLPASTHILSCAHGTDKDVYMSVPCCAAEVVDAIVRNTKVVLPASTHILSCAHGTDKDVYMSVPCCAAEVVDAIVRNTKVVLPASTHILSCAHGTDKDVYMSVPCCAAEVVDAIVRNTKVVLPASTHILSCAHGTDKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAIVRNTCICVTVSTYLKGCRHGLEKDVYMSVPCCAAEVVDAI |
| UniRef90_L8IQ43 UniRef90_F2KRE4 | OLV D MUKAVIED TREET DA SVVIO CEV CO S DVISVO CONDU |
| UniRef90_F6VVZ7 | CIYRMVKAVIEDTKEEI PASVVLQGEYGI SDVSVGVPV SVADLGESIM KNLRRVHPISTML YGINEDVFLSVPC CISKIIEAIIL DKKIVLPVSTFFKGEYDI SDIFMGTPA SVADLTESI LKNLRRVHPVSTRIKGLYGINEEVFLSVPC NLAEITQA ILYDRQRIYSLGVQLPKEYK HAGVYFGLPV VSTARIVEAILRDERAVLPVSSVLGGELGLE GVALSLPT AVTRICTA ILRDEKSILTTSSYLEGHYGTDDIYLSVPS AALMIIRAVLHDQKLIWPCSTVLTGQYGEKNVVAGVPC SAVVKMLELIANPQDEEVVCSVYIQGEYGLQGIYIGLPI LSVEMIRAVMGGEPFKYPVGTVVSNLFKYNHIMMAMKTTL |
| UniRef90_C6Q058 UniRef90_UPI000383F975 | CI S K E A L D K K V L P V S T F F K G E Y D S D F M G T P A S V A D T F S D K N R R V H P V S T R K G V G N F F V F S V P C |
| UniRef90_D1J8E6 | NLAELTQA LLYDRQRIYSLGVQLPKEYK HAGVYFGLPV |
| UniRef90_U1LQZ8 UniRef90_U4KRV9 | AVTRICTA LLRDEKSILTTSSYLEGHYGTDDIY LSVPS |
| UniRef90_G9YIX6 UniRef90_I2FD40 | A A L MI TRAV L H D Q K L I WP C S TV L T G Q Y G E K N V V A G V P C S A V V K MI E L L A N P O D E E V V C S V V L O G E Y G L O G L Y L G L P L |
| UniRef90_R5LUG7 | LSVEMIRAVMGGEPFKYPVGTYVSNEKYN HIMMAMKTTL |
| UniRef90_E6L9G5 UniRef90_G5F266 | ACLRMLEAMR SGEFLPMSVILNGEFGTKNK AFGVMA AATELVKA VVQDSKLITPAGTLLEDVYGESGHYS SIPC |
| UniRef90_X5R8J9 | |
| UniRef90_D3LTV8 UniRef90_K2DR66 | VVN MIIT AVFHDQKLLW PCSVALNGEYG EKDVA AGVPC |
| UniRef90_C7RDJ3 UniRef90_UPI0002492DB2 | CLLAFTRAILL DEKRVLMASAKLSGEYKNEGLYT GVPT |
| UniRef90_F9CUI5 | CALKLAQAV LSDAQLECPVSS YNSKYDTYLGQPANTFDVISSIIKNNELIVPASIVLNGEYG EKDVSMGIPVAVVASLCKSILFDKRDVVPVSHWQE ELGLCLSMPA |
| UniRef90_Q0UCM2 UniRef90_H6BWZ9 | AVVASLCKSI LFDKRDVVPVSHWQE ELGCCLSMPALSASICKS I LFDQRNVRPI SHWVD ELGCCLSLPVSANELAK CVLLNERAVHPLCTPLHGEYGLE DVSLSVPTCTAELVDALVRNTKLVLPASTYLHSCSHGTDKDVYMSVPC |
| UniRef90 H2GDF3 | SANELAK CVLLNERAVHPLCTPLHGEYGLE DVSLSVPT |
| UniRef90_E2AWM8 UniRef90_R5RX49 | I A A R M A Y A V L H D E K V I L P A S A E L I G E Y G E A G L F A G V P C |
| UniRef90_U4TU44 UniRef90_R6NXP7 | SVASL ASSILRNSNNVHAVSTYVKVW |
| UniRef90_W5L6T4 | GILAVLNA WSNCYSSRVFSLGVVSSGNFGVPAGLVFSVPV |
| UniRef90_D1XVH8 UniRef90_Q04GC4 | A A TIL I E MIL LIS D S H S E V I VIS HYNKK F GILYI I SILPA |
| UniRef90_U2EXK3 | SVARVVK GILLDERCILPLSTAQNGACGL SGVALSLPS |
| UniRef90_G2KV26 UniRef90_T1MGB9 | SAASLARS LLRDORRVYPVSVLSKGFVPGNHEVFLSLPA |
| UniRef90_A1HSK3 UniRef90_Q7MTK2 | A A C A V L E A II V R D S R A V L P V C T Y N P Q Y G V A L S L P T V S I E MI R A A M G G F A F R W P A G C Y V N V P G F F H I M M A M F T |
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| UniRef90_L5MHF2 UniRef90_UPI000287B76C | CAVKLSQAVLADAR AAYICSCYSEKYGTYVGQPA |
| UniRef90_UPI00035C84BE UniRef90_F4FXF8 | A A CR F V K A I I L Y D E H T I L P M S A V L E G E Y G I K N V A L S I P R A A V R I A N V V L N D A R T F I D V S N V R E |
| UniRef90_UPI0003331C5D | STATTLKYWYHGSPPELVSLGVLSEGEFGLPVGTVFSMPV |
| UniRef90_F9MQQ1 UniRef90_UPI0004704A2D | V VIN QIL VIA DILI F G D Q K R M H P CSIVIA IL K G E Y G QILD VIA VIGIV P C H A TILEIL LD H L R G A R H G A V P V SIVIMILIA G E Y GIT E G VIA VIGIV P A |
| UniRef90_D5V655 | AVTMA QAVLLDERSVYPTSTTLRGQYGHDGDVALSMPC |
| UniRef90_H1LCB8 UniRef90_T0T884 | ALARITKAII LNDENAVLPLSVFQEGQYANVTDCYIIGQPA |
| UniRef90_UPI000249100E UniRef90_E5A5L6 | A V K L A M A V F S D A K L A C P V S A Y S D A Y K V Y I G Q P A V T A S I C K S V I C D E K V I R A V S V F K O F I C C C I S V D V |
| UniRef90_UPI00047187E7 | VSVKMI A A A M G G E P F V Q P S G C Y V A N E K Y N H I M M A M E N |
| UniRef90_A7JYY7 UniRef90_R5Z1A0 | C A V K L S Q A V L A D A R A A Y I C S C Y S E K Y G T Y V G Q P A A A C R F V K A I I Y D E H T I L P M S A V L E G E Y G I K N V A L S I P R A A V R L A N V V L N D A R T E L P V S N Y R E E L G S Y L S Y P A S A V R L L A N V V L N D A R T E L P V S N Y R E E L G S Y L S Y P A S Y |
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| UniRef90_D8J4I4 UniRef90_K2EQ88 | GVG HMVEAVIRDTGEVFPASVPLSGEFG HSGVGLGVPAALIDTVKSIYSKNQ DLFSLAV <mark>C</mark> SDSNYGLEKDLIFSFP <mark>C</mark> |
| UniRef90_Q04EC7 UniRef90_E8SFF7 | A A V V L Y Q A II I S N S M T E M P V S N Y R E E Y K S Y L S Y P A A V D I A F A I F Y D F N R I I P I S T V H O N V Y D Y T N V A F S I P T |
| UniRef90_L9L819 | SLATTLKY WYHGSPPE VSLGVMSEGQFGLPEGLVFSMPV |
| UniRef90_H1LIF6 UniRef90_UPI000465C4E2 | A A V R L A M A V I N D A H E E L P I S N Y R T E Y G T Y L IS Y P A A V R L A M A V I N D A H E E L P I S N Y R T E Y G T Y L IS Y P A |
| UniRef90_E6U6C3 | A A V V L Y Q A I I S N S M T E M P V S N Y R E E Y K S Y L S Y P A A V D L A E A I F Y D E N R I L P I S T V H Q N V Y D Y T N V A F S L P T S I A T T L K Y W Y H G S P P E I V S L G V M S E G Q F G I P E G I V F S M P V A A V R L A N T V I S D A R T Q L A V S N Y R E E L D T Y L S Y P A A V R L A M A V I N D A H E E L P I S N Y R T E Y G T Y S V G R I A K A V M L H E R S V L P V S T T L T G E Y G I H D V A L S L P C A A V A M V R A M V R D S S E V I A A C V R S R G A Y G A V D T R V G L P V A I L N I I R C I S Q D E K R L L T L S A Y V E D E I E G I S G G S C I G V P V |
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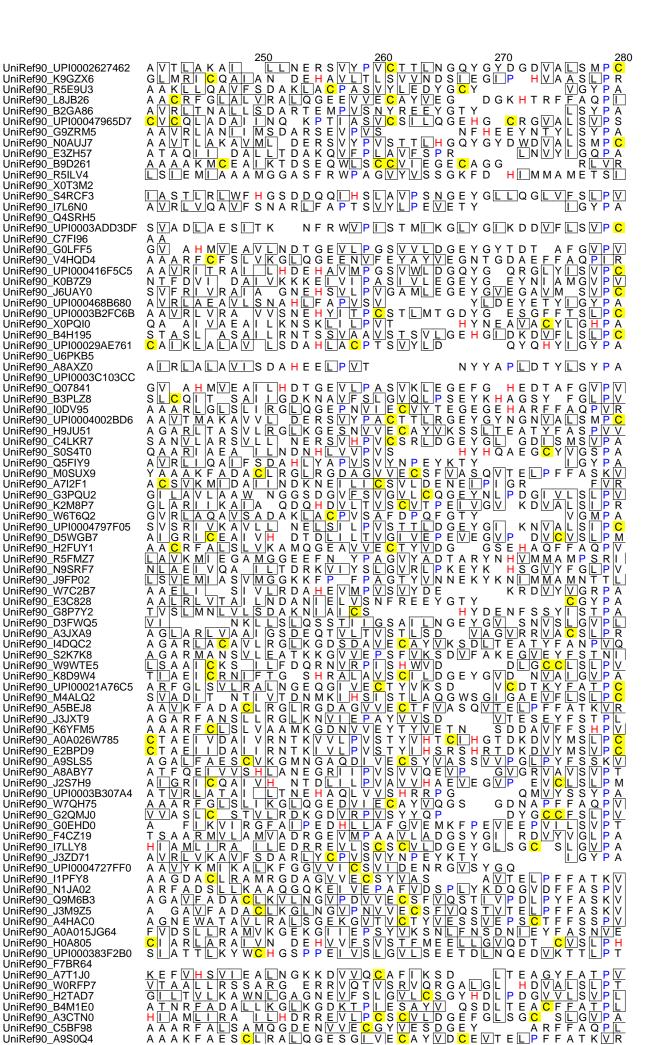
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|---|---|
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| UniRef90_K8D9W4 UniRef90_UPl00021A76C5 UniRef90_M4ALQ2 UniRef90_A5BEJ8 UniRef90_A5BEJ8 UniRef90_A5BEJ8 UniRef90_A0A026W785 UniRef90_E2BPD9 UniRef90_A9SLS5 UniRef90_A9SLS5 UniRef90_UPl0003B307A4 UniRef90_UPl0003B307A4 UniRef90_UPl0003B307A4 UniRef90_UPl0003B307A4 UniRef90_UPl0003B307A4 UniRef90_UPl0003B307A4 UniRef90_UPL0003B307A4 UniRef90_UPL0003B307A4 UniRef90_UPL0003B307A4 UniRef90_ITLLY8 UniRef90_ITLLY8 UniRef90_IPLY8 UniRef90_IPLY8 UniRef90_UPl0004727FF0 UniRef90_UPl0004727FF0 UniRef90_UPl0004727FF0 UniRef90_IPFY8 UniRef90_IPFY8 UniRef90_A0A015JG64 UniRef90_A0A015JG64 UniRef90_A0A015JG64 UniRef90_H0A805 | DI VHTPGV A A DL S HINTPSKVKGYTGPDELKDCKGAQL DVAESSSKGATDLEI FNLPKVQVSRDISSSAGSKV DVVNAPGVT A DI SHMDGAVVRGFLGQPQLESALTGMDL DI VHTPGV A A DL SHIPTDVKVQGFGKDDLASALGGCDI DVAA PVVPGVAVDLSHIPTDVKVQGFGKDDLASALGGCDI DQNLDRASAEAEDI QHAGIFLGCPLVTGTSDIYKLKDSAV DQNLDRASAEAEDI QHAGIFLGCPLVTGTSDIYKLRDSSV DQNLDKAAAEAEDI QHASMFIRGCPLVTGTSDIYKLRDSSV DQNLDKAAAEAEDI QHASMFIRGCPLVTGTSDIYKLRDSSV DDAVPGLSKGVMEDI SHINTGANVKGFAGEEDLAKAKGCDLA DAVPGLSKGVMEDI SHINTGANVKGFAGEEDLAKAKGCDL DHTEEKVVANQLDFEDAMANLTHHASIRVNDWSALADADI DHTEEKVVANQLDFEDAMANLTHHASIRVNDWSALAADADV DII APVTP GVAKDLAADVAYGLGSGTRVRAAATHREAGQCDI DI REDFVQGGI AEEFRHYVAI ASMHDVEVVSDASEVAGADU DI REDFVQGGI AEEFRHYVAI ASMHDVEVVSDASEVAGADU DL DEGRATGI ALDL THTAALSGFTT RVRAGGVSDE E AGRODY DNAYDPL RAQVLD LADVAYGLGSGTT RVRAAATHREAGQCDI DKNEDKVNAEYNDL HDTLARNDTYVNNVRKQD WBGLEDAADI DKNEDKVNAEYNDL HDTLARNDTYVNNVRKQD WBGLEDAADI DKNEDKVNAEYNDL HDTLARNDTYVNNVRKQD WBGLEDAADI DKNEDKVNAEYNDL HDTLARNDTYVNNVRKQD WBGLEDAADI DVNNTPGVVAAADLAHINTKSKVTGHDVTVREGELGGADL GEALEGSDV DI KGAPGVAADUSHINTRSQVXQEELDKKAVQANTDL DI NAAPGVAAADUSHINTRSQVXQEELDKKAVQANTDL DI NAAPGVAAADUSHINTRSQVXQEELDKKAVQARTDL DI NTPGV AADUSHINTRSQVXGEGCODOKAA DV I E DKLKGE MMDL AHGAAFYP AATVRAAAPFDELLAATNA DL VNVKGG MMDL SHINTASKVTSHQEPDDKAAIEGAADU DV I E DKLKGE MMDL AHGAAFYP AATVRAAAPFDELLAATNA DL VNVKGO SADL SHINTAAXAVYRGE DO ASPALVGAADI DV I E DKLKGE BV DA ADUSHINTAA SKOT GE GE DA AN AN DA DI DV NTPGV |

| | 90 100 110 120 |
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| UniRef90_UPI0002627462 UniRef90_K9GZX6 UniRef90_R5E9U3 UniRef90_L8JB26 UniRef90_B2GA86 UniRef90_UPI00047965D7 UniRef90_G9ZRM5 UniRef90_N0AUJ7 UniRef90_E3ZH57 UniRef90_B9D261 UniRef90_R5ILV4 UniRef90_X0T3M2 UniRef90_S4RCF3 UniRef90_I7L6N0 | I I VA A G P K K P D R A M L A E E N G K N L R E V M S G T K Y T T E A I I A A G A N Q K P G E S R M E L L G R N A D V F A Q I I P R V L G A A P G T I L V I T A F G A D G G N R F L E Y S F N C Q Q A K Q V G T A L K E A G F H G V L V L I S A G V P G M D R A D L F N V N A G L I K S L A E R I A V V C P K A C V V V S T L G K P D H D R F A E F K F T R T Q V P L V A K K L V D N G F H G K L V I V I T A G K P G E S R L D L T N E N V A I M K N V V T S I Q Q Y Y T R G V I V I S A V G N K E H D R F I E L P F T K E A V K S V S E K I K A S G F N G I L I I C A A G D T M P D R V Q L A V I N S E V I R E V M T G I T K Y T K D A I L I V I A V G P E R E D R M E E L L E T S K A V A B L V P K I L A T G F D G I F I V V V T A G S P R K E G Q T R E D K N A G I V K G T V E K I A K F A P N C V I Y I V S S G K A G M T R E D L L K G N A E I A A Q F G K D I R S Y C P N V Q H V V V T A G F P R K P G M S R D D L N S K V V S S V A A Q I K R H A P D A V V V I V L D N V A P G L G Q E W S D A G A P L C A A Y G S A L G R R A G P D V R V L V I A A T V K T G D R F G E F D I N A A N A K E V G O K I K D S G F K G I L I |
| UniRef90_Q4SRH5 UniRef90_UPI0003ADD3DF UniRef90_C7FI96 UniRef90_G0LFF5 UniRef90_V4HQD4 UniRef90_UPI000416F5C5 UniRef90_K0B7Z9 UniRef90_J6UAY0 UniRef90_UPI000468B680 UniRef90_UPI0003B2FC6B UniRef90_X0PQI0 UniRef90_B4H195 | V V V T A G V R Q Q E R L N L V Q R N V N V F K S I I P Q I I K Y S P N C T L I A I I T A G A E G E S R L N L I Q R N L N I F K F I I P N I V K Y S P N C K L L V I V T A G V P R K P G M S R D D L N I K V M Q A V G E G I K H N C P N A F I V I T A G S P G Q T R D L A G D N A P I M A D I G S S L A A H N E E F V S I V L I P A G M P R K P G M D R A D V N A S I V R T L A E G I V K N C P K A F V I I N A A G N V K L A A V S R D G E L F A T V D S A R T F V G R L A A F E G F W V V I T A S V D L K D R T E N I G L Q V K M V K D I A E K I K E Y C P S A I V V V I T A G A Q G E S R D V L V E V N T K V I R D I I A R V E A T S P N A I V V I I E A S V K S G D R F A E L P I N R A A A K E V G Q K I K A A G F K G V V I V N A A G K A S K D R D G E L F Y T T E T A K T F I K P I A D A G F D G V W I I F A A G D L T T D R F A E L T Y T R T T V E Q W A P I I K A A N F K G V I Y S P D T I L |
| UniRef90_UPI00029AE761 UniRef90_U6PKB5 UniRef90_A8AXZ0 UniRef90_UPI0003C103CC UniRef90_U7841 UniRef90_B3PLZ8 UniRef90_I0DV95 UniRef90_UPI0004002BD6 UniRef90_UPI0004002BD6 UniRef90_C4LKR7 UniRef90_S0S4T0 UniRef90_Q5FIY9 UniRef90_M0SUX9 UniRef90_A7I2F1 | |
| UniRef90_G3PQU2 UniRef90_K2M8P7 UniRef90_W6T6Q2 UniRef90_UPl0004797F05 UniRef90_D5WGB7 UniRef90_H2FUY1 UniRef90_R5FMZ7 UniRef90_N9SRF7 UniRef90_J9FP02 UniRef90_W7C2B7 UniRef90_E3C828 UniRef90_E3C828 UniRef90_G8P7Y2 UniRef90_D3FWQ5 UniRef90_A3JXA9 UniRef90_I4DQC2 | DVISDOGEEQKKNVKGMSDRYIEYGQLIDTRANKEVKV I LAAGVPGESRLALLERNAAVFKDVVGNVLAVAPD AIL LIVASGNIKKGRFGEYDSNQAIVRDIAPKIVASGFKGILI I VMTAGPSIKPRLLLADKNVKVMNSVMSSITQYTKDAVIV VVITAGAPGETRLHLAKTNADIATEIVGRLAPLAPEAIYL VLISAGVPGMDRADLFNVNAGIVKNLIEKAAA ACPQACI YIISGGAPRKEGMTREDLNSKAATELGDNIKKYCPDAKFC I VITASVKPKDRLELLTDNAKLIAEIAKNVKKSGFNGITI VITASVKPKDRLELLTDNAKLIAEIAKNVKKSGFNGITI VI SGGAPRKEGMTREDLNSKAATELGNNIKTYCPDVKHV I VMAIGPTREDRMEELKETSAAVRSIVPQIMK AGFDGIF VVIAVGDAKHDRFMELKVTSRAAKEVGTKLKEVGFKGVLV VLSTLGKPGGDRFTELKANIPEIKEVSEQLNRI NFKGIL VVITAGIPNRSRNEFLEGNLKLFKEFGKKLSIHAPDALL VVITAGIPNRSRNEFLEGNLKLFKEFGKKLSIHAPDALL |
| UniRef90_S2K7K8 UniRef90_W9WTE5 UniRef90_K8D9W4 UniRef90_UPl00021A76C5 UniRef90_M4ALQ2 UniRef90_A5BEJ8 UniRef90_J3JXT9 UniRef90_K6YFM5 UniRef90_A0A026W785 UniRef90_A0A026W785 UniRef90_A9SLS5 UniRef90_A9SLS5 UniRef90_A8ABY7 UniRef90_J2S7H9 UniRef90_UPl0003B307A4 UniRef90_UPl0003B307A4 | VVI PAGVPRKPGMTRDDLNASI VRDLASAAAKYCPNAHFL VVI SAGAKQRSRTDLLGRNLAILKS ATDDMKPFRDDIVI VI I PAGVPRKPRDDLFDTNASI VRDLTKAIAE ASPKAII I VVTANSWNNDESYLVQTNVDLYRGI I PNLVHLSPN AIL VI I PAGVPRKPGMTRDDLNAGI VRTLCEGI AKCCPN AIV I I PAGVPRKPGMTRDDLNAGI VRTLCEGI AKCCPN AIV I I PAGVPRKPGMTRDDLNAGI VRTLCEGI AKCCPN AIV VI I PAGVPRKPGMTRDDLNAGI VRNLVEGI ADNCPEACT VVI AVCETKPGEELNVKHNVEVFKKI I PI I AKVA YKAVL VVI AACEKKPGEKLDVKNNVDVFKRI I PL I AKLA GKAVL VI I PAGVPRKPGMTRDDLNAGI VRSLASAI AEHCPG ALV I VI TAGKPRKSRRDLAKVNAQI I RDI GDKLRDRYPGAFY I VI TAGKVQATRLDLAKVNAQI I RDI GDKLRDRYPGAFY L VI TAGKVQATRLDLAKVNAQI I RDI GDKLRDRYPGAFY L VI TAGKVQATRLDLARTNAAI KSLAGKVADVI VI TAGKVQATRLDLAKTNAAI KSLAGKVADVI VI TAGKVQGTRLDLARTNAAI KSLAGKVADVI VI TAGKVQGTRLDLARTNAAI KSLAGKVADVICPK |
| UniRef90_G2QMJ0 UniRef90_G0EHD0 UniRef90_F4CZ19 UniRef90_I7LLY8 UniRef90_J3ZD71 UniRef90_UPl0004727FF0 UniRef90_I1PFY8 UniRef90_N1JA02 UniRef90_Q9M6B3 UniRef90_J3M9Z5 UniRef90_A4HAC0 UniRef90_A0A015JG64 UniRef90_H0A805 | V |
| UniRef90_UPI000383F2B0 UniRef90_F7BR64 UniRef90_A7T1J0 UniRef90_W0RFP7 UniRef90_H2TAD7 UniRef90_B4M1E0 UniRef90_B4M1E0 UniRef90_C5BF98 UniRef90_A9S0Q4 | TAGT SLKPGQTRLDLLAANIHVVSSVLERVLAVAPETVLLHVIHVDKEINSLEDCIRSRAPLCQLYGSLIEKNAHNFAKIDLLTAGILIGGFFCILIGPRELGNSQHASPFIICYILLGFVAIPAGVPRKPGMTRDDLNASIVKNLSEACAKHCPKAIILVIAAGKPGESRLDLLRDNASIVKNLSEACAKHCPKAIILVIAAGKPGESRLDLLRDNARVMRDVGARLRDYRGLVDVIITVDERELKKQKIDAISERYREYGRLIDTQTKKEVKVVVIITAGMPGMTREQLFELNAKIILQTVNAIAKNSAHALIFVFAAGTPRKTRADLLEANIPVAKRCSELLEGFPGVVVIISAGVPRKPGMTRDDLNAGIVRTLIEGVAKHCPRALI |

| UniRef90 UPI0002627462 | 130 140 150 160 I L <u>I</u> T N P L D T M V Y V A E N E F G Y P K G R I F G T G T M L D S A R L R H V |
|---|--|
| UniRef90_G110002027402 | I VATNPVDVMTOVATRUSGLAPGRVLGSGTVI DTARFRGI |
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| UniRef90_L8JB26 | GLITNPUNTTUALAADKAGVYDKRKLFGVTTLDVIRSETF |
| UniRef90_B2GA86 | DVTNPCDVITSMYQKLTGLPKEHVLGTGTLLDSARMRAC |
| UniRef90_UPI00047965D7 UniRef90_G9ZRM5 | L V I S N P V D I L T Y K V T E WME L P D G M V F G S G C I L D S S R F V R T I D I T N P C D V I T T M Y Q H F T G L P K N H V M G T G T L L D S S R M R R A |
| UniRef90 N0AUJ7 | FILIT N PILID T MIVIYII IA E N E F G Y P K G RII IF G T G T MILID S A RILIR KII |
| UniRef90_E3ZH57 | NILIT NDCDIVITEELIOKIITGEDUSDIVEGTGTSIIDTADMDDI |
| UniRef90_B9D261 | <u>N V T N P L D A L T Y L V Y K</u> T S G <u>F</u> D K N R <u>V</u> L G M <u>A</u> G E L D S A R L K Y E |
| UniRef90_R5ILV4 UniRef90_X0T3M2 | V V V F N P A DII T G L I T L L Y S G L K P N Q V S T L A A L D S T R L Q N E |
| UniRef90_S4RCF3 | I MVT NPLDVMA YVA MKETGFPRERVLGMAGVLDSARLRFF LVAAAKGANLQLLATAAAPHVPRRNFVALSTHLERRAKGL |
| UniRef90_I7L6N0 | N II IS N P C D A II IS I II L IQ E I I G IL IS K K Q IV IF G I G I F IL ID I A R M Q R II |
| UniRef90_Q4SRH5 | VVS N PVDVLTYVTWKLS GLPKHRVTGS GT NLDS A R F R YL |
| UniRef90_UPI0003ADD3DF UniRef90_C7FI96 | I CLITNPI DI MVNMI OKESGAPDNKI VGMAGVI DSARERTE |
| UniRef90_G0LFF5 | T TSNPVDLLNRHLYETGDRERHTVIGFGGRLDSARFRYVGLITNPVNGTVPLVFKKAGTYDAARVFGVTTLDVLRAETF |
| UniRef90_V4HQD4 | GITT NPVNGTVPIVFKKAGTYDAARVFGVTTLDVIRAETF |
| UniRef90_UPI000416F5C5 UniRef90_K0B7Z9 | IVINIVIA N P C DIV VIS A FIVIH RILIS GILIP I N HILLIG I G I CILID S A RILIR LIV |
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| UniRef90_UPI000468B680 | I INII IS N P C DIV I IT SII I I IQ H F T QII IP K N QIV I IG T G T F II ID T A R M Q R T |
| UniRef90_UPI0003B2FC6B | T I SNPCDV VATELWKLSGMDPNRI I GTGTALDSSRLKYA LNI TNPCDVLTQYMQQLTGFSKNRVLGTGTTLDTARMQLV |
| UniRef90_X0PQI0 UniRef90_B4H195 | L NI I I N P C D V I I Q Y M Q Q L I G F S K N R V L G I G I I L D I A R M Q L V L M V S N P V D I M T Y V A W K L S G L P K N R V L G S G T N L D S S R F R F L |
| UniRef90_UPI00029AE761 | INIT NPCDVITTI LQQQIGLSKQQVFGTGTFLDTARMQRA |
| UniRef90_U6PKB5 | MIV VIS N P V D V L T Y V T W K I IS G L P K E R V F G S G T N L D S A R F R F L |
| UniRef90_A8AXZ0 | ALLIT N PIVIDIV VIT SILIY O H Y T GILIP K E RIV LIG T G TILLID T A R M K R A |
| UniRef90_UPI0003C103CC UniRef90_Q07841 | E LVAGNTFVNLRYVIMQNAPSVPQCNFVGLAKQLESQVQGN T TSNPVDLLNRHLY EAGDRSREQVIGGGRLDSARFRYV TASNPVDLMASVYQQATQFDASKVISSGTLLETARLKKF GIITNPVNTTVAIVLKKAGVYDKNRLFGVTTLDLLRSNTF |
| UniRef90_B3PLZ8 | TASNPVDLMASVYQQATQFDASKVISSGTILETARLKKF |
| UniRef90_I0DV95 | GILLIT N P V N T T V A II V L K K A G V Y D K N R L F G V T T L D L L R S N T F |
| UniRef90_UPI0004002BD6 UniRef90_H9JU51 | ALLIT N PIV N S TIV PIL A S K K A GIVIY D P N RIV L GIVIT TIL DIV VIR A A T F |
| UniRef90_C4LKR7 | |
| UniRef90_S0S4T0 | LNITNPCDVITQYLQELTELPQERVIGTGTSLDTGRMKHA |
| UniRef90_Q5FIY9 UniRef90_M0SUX9 | LNITNPCDVITQUARE TELPQERVIGTGTSLDTGRMKHALNISNPCDAVAQILQETTGLSKNQVLGTGTFLDTARMQRINVISNPVNSTVPIVFKKAGTYDSKRLLGVTMLDVVRANTFLITNPVDTLAFVAYKASGFKKEKIIAMAGELDSARLRYEIVSADSFANWCSLLLEHACSIDSHQFITMATQLENEAKAI |
| UniRef90_A7I2F1 | LIT NPVDTLAFVAYKASGFKKEKIIAMAGELDSARLRYE |
| UniRef90_G3PQU2 | I V S A D S F A N W C S L L L E H A C S I D S H Q F L T M A T Q L E N E A K A I |
| UniRef90_K2M8P7 | |
| UniRef90_W6T6Q2 UniRef90 UPI0004797F05 | D |
| UniRef90_D5WGB7 | I ATNPCDVLTGAVYDQLRCERERVISTGTSLDTGRLRSL |
| UniRef90_H2FUY1 | GILLITN PIVIN T TIVIPIL V LIKKA GIVIY DKN KILIF GILIT TILIDIV LIR A E T F |
| UniRef90_R5FMZ7 UniRef90_N9SRF7 | IV VI IF N P A DII IT GII VITII VIH S GII IK P N QIVIA TII IA AII ID S T RII IK G A |
| UniRef90_J9FP02 | VIIFNPADLITGEVITELYSGEKP NQVITTEAALDTTREQSA |
| UniRef90_W7C2B7 | MNII IT N P C DIV I IT OII I I A K E S GII IG K E RIVIE G T G T A II ID T M R M R S T |
| UniRef90_E3C828 | S I S N P C D V I A A L F Q K Y T G L P K K R V I G T G T L L D T A R L K K V L A T T N P N D V I V N L Y S Q L L N L P K S Q L I G T G T Y L D T A R M K A Q |
| UniRef90_G8P7Y2 UniRef90_D3FWQ5 | T A S N P V D I L N Y Y L Y K E F G F S R H K L I G Y T M N D S L R F E W A |
| UniRef90_A3JXA9 | |
| UniRef90_I4DQC2 | AI I T N P V N S M V P I A S K K A G V Y D P A K V L G V T T L D V V R A A A F I I S N P V N S T V P L F A K K A G V F N P K R L Y G V T T L D V V R A S R F L L V A N P V D V L T Y F C Q K F S G L P Q G Q I I G S G T F L D S A R L R G I V A T N P C D I T W Q V W K L S G L P R N Q V I G T G V W L D T T R L R R T L I S N P V N S T V P I A S K K A G V Y D P N R V F G V T T L D L V R A S T F L I S N P V N S T V P I V F K K A G T Y D P K R L L G V T M L D V V R A N T F G I I T N P V N S T V P I A C K Q A G K F D P K R L L G V T M L D V V R A N T F G I I T N P V N S T V P I A C K Q A G K F D P K R V F G V T S L D I V R A S T F L I T N P V N S T V P I A C K Q A G K F P S S R V L G T G T L L D S S R F Q D L L V V S Q P I D V M S Y V T W K L S K F P S S R V L G T G T L L D S S R F Q D L L V V S Q P I D V M S Y V T W K L S K F P S H R V L G T G T L L D S C R L Q D L N M I S N P V N S T V P I V F K Q K G T Y D P K R L F G V T T L D V V R A R T F M V I T N P V D V M T M I L S D V I G N K G T V I G T G T L L D T G R L R S L L Q N L T S V V F D R L R C A R E R V I S T G T S L D T Y R F R S A I L A T N P C D V L T S V V F D R L R C A R E R V I S T G T S L D T G R L R S L I V V S N P L D V I A T L F Q S L T G L P A N Q V I G T G T L L D T A R F R S I L A T N P V D A M T M V F K R A G V Y D P K R L F G V T T L D V I R A E T F I L A T N P V D A M T M V F K R A S T F Q S F P A Q R V V G M A G V L D T A R F R S I L A T N P V D A M T M V F K R Y A R V E K V Y G F G T M L D T A R F R S I L A T N P V D A M T M V F K R Y A R V E K V Y G F G T M L D T A R F R S I L A T N P V D A M T M V F K R Y A R V E K V Y G F G G G L D S A R F A C L L T I N P M D A N N Y G L W K V M G I D R R Q C L G F G G G L D S A R F A C L L T I T N P M D A N N Y G L W K V M G I D R R Q C L G F G G G L D S A R F A C L L T I T N P M D A N N Y G L W K V M G I D R R Q C L G F G G G L D S A R F A C L L T I T N P M D A N N Y G L W K V M G I D R R Q C L G F G G G L D S A R F A C L L T I T N P M D A N N Y G L W K V M G I D R R Q C L G F G G G L D S A R F A C L L T I T N |
| UniRef90_S2K7K8 UniRef90_W9WTE5 | III SN PIVINS I VIPILIFA KKA GIVIFN PKKILIY GIVIT TILIDIV VIRA SR F |
| UniRef90_K8D9W4 | VÁTNPCDĽÍT WQVWKĽS GLPŘNQVIGT GVWLDTTRLRRT |
| UniRef90_UPI00021A76C5 | ALLS NPVNSTVPLASKKA GVYDPNRVF GVTTLD VRASTE |
| UniRef90_M4ALQ2 UniRef90_A5BEJ8 | LIASQPVDIMIHVAWRQSGLPPTRVIGAG <mark>C</mark> NLDSERLSHV |
| UniRef90_ASBEJ8 | GI I T N P V N S T V P I A C K Q A G K F D P K R V F G V T S I D I V R A N T F |
| UniRef90_K6YFM5 | CI I TNPVNTTVAL A A ETLGVYNKNKL F GVTTLDVIRAETF |
| UniRef90_A0A026W785 UniRef90_E2BPD9 | L V V I Q P I D V M S Y I T W K L S K F P S S R V L G T G T L L D S S R F Q D L |
| UniRef90_E2BPD9 UniRef90_A9SLS5 | NMI SNPVNSTVPI VEKOKGTYDPKRI EGVTTI DVVRARTE |
| UniRef90_A8ABY7 | MVLTNPVDVMTMILSDVIĞNKGT VIĞTSLDTYR <u>F</u> RS <u>A</u> |
| UniRef90_J2S7H9 | LIATNPCDVLTSVVFDRLRCARERVISTGTSLDTGRLRSL |
| UniRef90_UPI0003B307A4 UniRef90_W7QH75 | I V V S N P L IDIV I A I L IF Q S L I G L IP A N Q IV I G T G T L L ID T A R L Q R L GI I T N P IV N T T IV P I V I K A G IV V D P K P II E G IV T T I D IV I P A E T E |
| UniRef90_W/QH/5 | TVVSNPVDLLTSI AQELSGLPRFQVFGSGTFLDSVRITRGI |
| UniRef90_G0EHD0 | I AT NPVDAMT MVFKRYARVEKVYGFGTM LDTARFRSI |
| UniRef90_F4CZ19 | |
| UniRef90_I7LLY8 UniRef90_J3ZD71 | N I SNPCDAITQI LQETTGLKKNRVFGTGTGTFLDTARVQRI |
| UniRef90_UPI0004727FF0 | MVT NPLDVLTYYAYKKSGFKPSKVIGMAGELDSARANLN |
| UniRef90_I1PFY8 | NL I S N P V N S T V P I V F K K A G T Y D P K R L L G V T T L D V A R A N T F |
| UniRef90_N1JA02 UniRef90_Q9M6B3 | LII SNP V N ST V P I V A KKA G C YN PKRL FG V T T L D V V R A SR F NMI SNP V N ST V P I V FKKA G T Y D EKKL FG V T T L D V V R A K T F |
| UniRef90_J3M9Z5 | ITITNPMDANNYGLWKVMGIDRRQCLGFGGQLDSARFACL N ISNPCDAITQLLQETTGLKKNRVFGTGTFLDTARVQRI MVT NPLDVLTYYAYKKSGFKPSKVIGMAGELDSARANLN NLISNPVNSTVPIVFKKAGTYDPKRLLGVTTLDVVARANTF LIISNPVNSTVPIVFKKAGTYDPKRLFGVTTLDVVRASRF NMISNPVNSTVPIVFKKAGTYDEKKLFGVTTLDVVRAKTF NMISNPVNSTVPIVFKKAGTYDEKKLFGVTTLDVVRAKTF NMISNPVNSTVPIVFKKAGTYDEKKLFGVTTLDVVRAKTF GVISNPVNSTVPVTLKKLGAYDPGRLFGVTTLDVVRARTF TVISNPVNSTVPIIYKKYNIYDPRRILGITTLDVVRASRF |
| UniRef90_A4HAC0 | GVISNPVNSTVPVTLKKLGAYDPGRLFGVTTLDVVRARTF |
| UniRef90_A0A015JG64 | T V I S N P V N S T V P I I Y K K Y N I Y D P R R I L G I T T L D V V R A S R F F A T N P V D V M P A V A V R R F G V P P G R A I G T G C A L D S A R F R D R |
| UniRef90_H0A805 UniRef90_UPI000383F2B0 | F A T N P V D V M P A V A V R R F G V P P G R A I G T G C A L D S A R F R D R I V G G K T F V N L K T A L L M K Y A P T F A H N I I A V A L G V E G Q A K A A |
| UniRef90_F7BR64 | V V R Q Q P I DI L T Y V A W K I S G F P K N R V I G S G C N L D S A R F R Y L |
| UniRef90_A7T1J0 | CILLIS N PIVIN S LIVIPIL VIY K K A GIVIY D P G RILLIGIVIL LILIDIL VIR A H L F |
| UniRef90_W0RFP7 UniRef90_H2TAD7 | VVVTNPVDVLTYVVAESSGLPVERVIGTGTMLDSARLRQA LVSGESFVNL <mark>C</mark> SLLLDYTHSLHSHQIVALATQLENEARAL |
| UniRef90_H21AD7 | AI VIT N PI N T L V P M A A E V L K R F D P N R L F G V T T L D C V R A F R F |
| UniRef90_A3CTN0 | AL VIT NPI NTL VP MAAEVLK RF DPN RL F GVT T LL DCVR AE RF LSVT NP MD ANNY GLWK MMGI DRRRCI GF GSQL DSARFAGF GI I T NP VNT MVP I V LKKAGVY NP NKL F GVT T L DI I RS NT F NI I S NP VNS T VP I V LKKAGVY DPK RL F GVT T L DV VR ANT F |
| UniRef90_C5BF98 | GILLIT N P V N T M V P ILV L K K A G V Y N P N K L F G V T T L D T I R S N T F |
| UniRef90_A9S0Q4 | NII I S N P V N S I <u>V P I V L K K A G V Y D P K R L F G V I I I L ID V V R A N T F</u> |

| UniRef90 UPI0002627462 | 170 180 190 200 V A S N Y N D P K S V T G Y MMGE H G M T A F P V F S R L N V Y G F G E K |
|--|--|
| UniRef90_K9GZX6 | I A WHI GI S S K S W H G V W I G E H G D S E W I C W S S S I A G S W P W E |
| UniRef90_R5E9U3 | V S M S L D Q N P H N I A G Y V L G E H G E S Q F A A W S T I T V Q G E P I T V A E L K G I D P G Q V R V P V I G G H S G V T I L P L L S Q V E G V E F T E E |
| UniRef90_L8JB26 | VAELKGIDPGQVRVPVIGGGGGGVILLPLLSQVEGVEFIE |
| UniRef90_B2GA86 UniRef90_UPI00047965D7 | V G E A L N V D S R S V V G F N L G E H G N S Q F T A W S T V R V L G K Q V V G E H G D G M V P V W S H V T V G G D F D D C C C C C C C C |
| UniRef90_G9ZRM5 | VSSELIGI DPRSVGGYNL GEHGNSQFTAWSSVRVLGQPIT |
| UniRef90_N0AUJ7 | V G E AL N V D S R S V V G F N L G E H G N S Q F T A W S T V R V L G K Q V V I A D Y A E L S T G V I N G Y I V G E H G D G M V P V W S H V T V G G I P I D V S S E L G I D P R S V G G Y N L G E H G N S Q F T A W S S V R V L G Q P I T I A T N F D I D P K S V T G Y M M G E H G H T A F P V L S R L N V Q G V G E K V G E T L H I N P K S V D G Y V L G E H G E S Q F V A W S T V R I G G I N I A I S Q K T G L K N S A F S A H I I G S H N D D M V A L Q S N V S V V C K P L N S A F S A H I I G S H N D D M V A L Q S S N S V V |
| UniRef90_E3ZH57 | V G E T L H I N P K S V D G Y _ V L G E H G E S Q F V A W S T V R I G G L N L A I S Q K T G L K N S A F S A H L I G S H N D D M V A L Q S N V S V |
| UniRef90_B9D261 UniRef90_R5ILV4 | |
| UniRef90_X0T3M2 | A A E G V R P A D V S A M V L G G H G D G M V P L S H T T V G G V G V T |
| UniRef90_S4RCF3 | L A A K L K V N S A G V E D V V V W G D A G G S T Y T Q L S A A R L R G Y D G A |
| UniRef90_I7L6N0 UniRef90_Q4SRH5 | VAEELDEDPRNVQGFVLGEHGASQFTAWSTVSVNGKKAT MAERLGIHASSF NGWVLGEHGDTSVPVWSGANVAGVNLQ |
| UniRef90_UPI0003ADD3DF | WS G A N V A G V S L K N L H |
| UniRef90_C7FI96 | |
| UniRef90_G0LFF5 UniRef90_V4HQD4 | L S E F D T A V Q N V E A T I L G E H G D A Q V P A F S K V R I D G T D P T I A E L K G L D V S E V K V P V I G G H S G T T I L P L L S Q I S L T T K L A P E S I Q A Y M I G E H G D S M V P I F S G V S V G G N P L F V S E H V G L D P K N I F G W V L G D H S H T A F I P W S L C N V C G L E V D |
| UniRef90 UPI000416F5C5 | I SLTIKLAPESI QAYMI GEHGNTQI AAWSANSFAGVPMK |
| UniRef90_K0B7Z9 | I SETLSVPQSSISNALVLGEHGDSMVPTFSGVSVGGNPLF VSEHVGLDPKNI FGWVLGDHSHTAFIPWSLCNVCGLEVD |
| UniRef90_J6UAY0 | V S E H V G L D P K N |
| UniRef90_UPI000468B680 UniRef90_UPI0003B2FC6B | V G E A M N Q D P R N V A G Y V L G E H G N S Q F L A W S T V V V N N K A A S L S R A T G Y D Q H S I C A Y M L G E H G S S M F A A W S A V N F G G K P L A V G N H F G V S P N A L T G Y V L G E H G N S Q F V A W S G V R V G S E D I T M S Q R L G V A P T S C H G W I L G E H G D S S V P V W S G V N I A G V R L R R V C S C V P V W S T V C F R R R R R R R R R R R R R R R R R R |
| UniRef90_X0PQI0 | VGNHFGVSPNALITGY VLGEHGNSQFVAWSGVRVGSEDIT |
| UniRef90_B4H195 | MSQRILIGIVAPTSCHGWIII GEHGDSSVPVWSGVNIIAGVRLR |
| UniRef90_UPI00029AE761 UniRef90_U6PKB5 | V G Q A L H E D P K N V S G Y V L G E H G E S Q F T A W S T V E V K G H P I T L S E K L H I A P S S C H G W I I G E H G D S S V A V W S G V N V A G V T L S C H G T T T T T T T T T |
| UniRef90_A8AXZ0 | VGVRFEVDPRSVYGYNL GEHGNSQFTAWSQVRVKGQPLS |
| UniRef90_UPI0003C103CC | IL A R KLINVN PS GIVK DVI I WG NI S G S T FI DL Q R A RIVY G H D S A |
| UniRef90_Q07841 UniRef90_B3PLZ8 | MSQRLGVAPTSCHGWIIGEHGDSSVPVWSGVNIAGVRLRVGQALHEDPKNVSGVVLGEHGESQFTAWSTVEVKGHPITLSEKLHIAPSCHGWIIGEHGDSSVAVWSGVNVAGVTLSVGVRFEVDPRSVYGYNLGEHGDSVAVWSGVNVAGVTLSVGVRFEVDPRSVYGYNLGEHGNSQFTAWSQVRVKGQPISLARKLNVNPSGVKDVIIWGNISGSTFIDLQRARVYGHDSALSEEFDAPVQNVEGTILGEHGDAQVPVFSKVRVDGTDPEIAEKLNIKASAISGVVIGGHGARCIIPFSQIRLGMSSVAEKKRASAISGVVIGGHSGVILIPFISQIRLGMSS |
| UniRef90_I0DV95 | VAELKGKKPHEI EVPVIGGHSGVTILPLLSQIPGVSFTDE |
| UniRef90_UPI0004002BD6 | FANAYDVDPKSV VGYMMGEHGATAFPVLSKLNIQGVAYE VGELNGVDPTSVAVPVIGGHSGLTLIPILSQCQPA |
| UniRef90_H9JU51 UniRef90_C4LKR7 | VAELKGKKPHEIEVPVIGGHSGVTLPLLSQIPGVSFTDE FANAYDVDPKSV VGYMMGEHGATAFPVLSKLNIQGVAYE VGELNGVDPTSVAVPVIGGHSGITLIPILSQCQPA VAQELGIDPKSVTGY MMGEHGTTAVPILSNLNVQGVSWS |
| UniRef90_S0S4T0 | II IS K S M K IV IH P S A II ID G Y IV I I G E H G E S Q F IV IA W S S IV IR II IG G I P II IS |
| UniRef90_Q5FIY9 | I G E K L G Q D P K N V E G W V L G E H G S S Q F L A W S T V R V N N |
| UniRef90_M0SUX9 UniRef90_A7I2F1 | V A EVLGI D P R D V N V P V V G G H A G V T I L P L L S Q V N P P C S F T P I A K S E N V N V T D I K A S V V G A H N D E M Q I L E D E L Y K F G K K |
| UniRef90 G3PQU2 | LATKLKVRTSDIRNVIVWGNLSGSFYIDLQWTKVFNYDQP |
| UniRef90_K2M8P7 | L G R H L G I S P Q S V H A Y V L G E H G D S E V L A W S N A K V G S L S L A |
| UniRef90_W6T6Q2 UniRef90 UPI0004797F05 | V G Q A T Q T N G K N V A G Y V Y G E H G N S Q F V A W S T V S V N G Q P I K L A M K Y L V D T K N V H G Y V L G E H G G S A F A T W S L V N V A G I P Y S |
| UniRef90_DF10004797F03 | LSERFGVVASAIHAY_VLGEHGESAVIQWSAATVCGMPLE |
| UniRef90_H2FUY1 | IVIA E A K GIL INIVIA DIVIKIVIPIV I IG G H S GIVITII L IPIL L IS QIVIE G A S F S D E |
| UniRef90_R5FMZ7 UniRef90_N9SRF7 | II IAKHEGIVIS () AIV VIKNAY LYGGHGEKMAIVIEAS PILIVID GIVIKII II |
| UniRef90_J9FP02 | L A K K F G V M R N E I T G <mark>C</mark> A T Y G G H G E Q M A V F G S A V K V A G R A L L |
| UniRef90_W7C2B7 | II IG E H E DIVIA P T SILIT G Y I VI IG E H G E S O E ILIA WS SIVIRII IA N |
| UniRef90_E3C828 UniRef90_G8P7Y2 | V G Q A L D V D P R S V S G Y A L L G E H G N S Q F A A W Q V R V L G Q Q T L V S R A L E I D A R S V E G Y V L G E H G N S Q F T A W S T V R V G G Q S F L |
| H-'D-(OO DOEMOE | |
| UniRef90_A3JXA9 | L G R HL N I A P R S V H A Y V L G E H G D T E V L A W T A A R A G S V S L E |
| UniRef90_I4DQC2 UniRef90_S2K7K8 | I GEINCVDPTTVKIPVIGGHSGVTIIPVLSQSCPA |
| UniRef90_W9WTE5 | LAAKVGVDAGSVDAY VLGEHGESQ <u>VVA</u> WS <mark>C</mark> VTIGAVPLD |
| UniRef90_K8D9W4 | LAEALEI GPQSI DAFI LGEHGDTQFPVWSHSSVYGSPVA |
| UniRef90_UPI00021A76C5 UniRef90_M4ALQ2 | L DENENTH KPAWVIGEES DNKVPVIS NVGES SNGAF |
| UniRef90_A5BEJ8 | VAEVLGLDPREVDVPVVGGHSGVTILPLLSQVKPPCSFTP |
| UniRef90_J3JXT9 UniRef90_K6YFM5 | II A D G K G L IN P K D IV S II P V I G G H S G V T II I P L I S R A T |
| UniRef90_A0A026W785 | LISQKLIGLIARTSIISCVNII GAQGDSVISII WS SII HVIAGTRIIC |
| UniRef90_E2BPD9 | VISQKLIGIVARKSI ISCVNI GAQGDTSVPI WSSVNVAGTRI C |
| UniRef90_A9SLS5 UniRef90_A8ABY7 | ILIAHKKGLINIVIR DIVIDIVIPIV VIGGHAGILITII LIPILIF SQAT |
| UniRef90_J2S7H9 | LISERLIGIVIA PAIL HAY VIGEHGESALI DWSGATIVISGMPILD |
| UniRef90_UPI0003B307A4 | LIGQALIQVIDPRSII QGY VIJGEHGNSQVVAWSTVKALIGQPIQ |
| UniRef90_W7QH75 | II A E A K G K S T Q DII K V DIV I G G H S G V T II L P L L S Q |
| UniRef90_G2QMJ0 UniRef90_G0EHD0 | LARELIGIVE PSRIVITGE FIVE GEHGESGFIVIA WSTIVIVINGIVI HIVIN |
| UniRef90_F4CZ19 | AS LAGAGPAEVVGAWALGSHGEEMVVPLSQATADGRPLL |
| UniRef90_I7LLY8 | L R E A GVP G P A WV L G E H G E H Q V P L F S K T |
| UniRef90_J3ZD71 UniRef90_UPI0004727FF0 | I GENELO QUENNIVEGEN COO QENA WONELA FILA KEQUIS PILK DSA YIVI GTHDD FMI VI |
| UniRef90_I1PFY8 | VAEVLGUDPKDVNVPVVGGHAGVTILPLSQVHPPCSFTP |
| UniRef90_N1JA02 | VS EILK NTDPENENITVVGGHSGATIVPLFSQSS |
| UniRef90_Q9M6B3 UniRef90_J3M9Z5 | YAGKANVPVT EVNVPV VGGHAGII TII LPLF SQAIPKSNNLS |
| UniRef90_A4HAC0 | VA E ALIGRS PY DLIDVPV VIG GHS GETII VIPILLIS GFPS LISK E QV |
| UniRef90_A0A015JG64 | V S E L K G T D P S N E K V T V V G G H S G V T L I P L L S Q T |
| UniRef90_H0A805 UniRef90_UPI000383F2B0 | IL ARKILKI TPSCIKDVI AN V LIGEHGDSEVMHWSGAQII AGMPLT |
| UniRef90_F7BR64 | MGQKFGI HIQSCHGWVI GEHGDSSVPVWSGVNVAGVSLK |
| UniRef90_A7T1J0 | VAEAKGLOVNNIKLPVIGGHSGVTLLPLLSQTTPNVTFTQ |
| UniRef90_W0RFP7 UniRef90_H2TAD7 | I GEALHVAPASVIAAHVV GEHGDSEVVLWSSAWVGGRPVAKKI NVRPADVRDVI VWGNISGSFYVDIOKTKVENVDGP |
| UniRef90_B4M1E0 | R K M |
| UniRef90_A3CTN0 | LREVGIPG PAWVLGEHGDRQVPVFS |
| UniRef90_C5BF98 UniRef90_A9S0Q4 | VIG E IL IK HIL ID P A I IL IDII IPIV I IG G H S GIVITII LIPIL LIS QIL P GIVIS LIS E R |
| บาแกษเฮบ_AฮอบQ4 | UN DU I GIV DE K MVDVE VLIGGEN A GILII IL LIFII LIO QA I |

| | 210 220 230 240 |
|--|--|
| UniRef90_UPI0002627462 UniRef90_K9GZX6 | E |
| UniRef90_R5E9U3 UniRef90_L8JB26 | EI AKDQHLELSELDKAARGGGWLVFNGKKYT <mark>C</mark> YAIAT <mark>C</mark> EIKA LTPRIQNAGTEVVEAKGGSATLSMGQ |
| UniRef90_B2GA86 | DILI AKERHIVINILIADIVIEERSRKGGYMIVIYKGKKYTNYGIVIATA |
| UniRef90_UPI00047965D7 UniRef90_G9ZRM5 | DYCSDMGIEWNDGIKSDITNKTRGSEI IAGKGRTHYGIAT EVAKQRNIDLAK LDEVARAGGYTVFHGKHYTNYGIAA |
| UniRef90_N0AUJ7 | E L D Q V F Q G N E P R D H I K K Q V V Q T A F D V L N G K G W T N A G V A Q |
| UniRef90_E3ZH57 UniRef90_B9D261 | D F K T E K P L D L A A L K D A V R G G G W N I L T G K G W T S F G I A T D L G G E F D A V A Q E A K T G G A K I V K L L G T S A Y Y A P G |
| UniRef90_R5ILV4 UniRef90_X0T3M2 | EIIGSNAMPIEWNDLKHSVIQGGKHLIDLRGRSSFQSPAY DLIGK |
| UniRef90_S4RCF3 | VWGPLNDREWLENEFPAALQARGSLQAKAQGYATTALNAA ELFD EEKLEELSAQPNKNSMKVAFGKGYTSYAVAT <mark>C</mark> |
| UniRef90_I7L6N0 UniRef90_Q4SRH5 | K L N P D I G T D D D K E E W R A T H K |
| UniRef90_UPI0003ADD3DF UniRef90_C7FI96 | DLGTDADKEQWKE <u>VYKQVV</u> DS AYEVIKLKGYTSWALGL RLVQEGKLTQERDAIVAR <u>T</u> RSGGGEIVALLKTGSAYYAPA |
| UniRef90_G0LFF5 UniRef90_V4HQD4 | F D S D E R E T I L S D L Q A S A M D V I E R K G A T Q W G P A T V E G V E F T D E E V A S L T T R L Q N A G T E V V E A K G G S A T L S M G A |
| UniRef90_UPI000416F5C5 | N V S K P G F S D L K P D E V Q A K <u>A</u> R D G G Y <u> V A</u> Y R G K E <mark>C</mark> T E Y A |
| UniRef90_K0B7Z9 UniRef90_J6UAY0 | SLIDSRDT I TENVRNYWKTLRNFKSRSQFGI AK TF <mark>C</mark> RLNG <u>H</u> APLDRA <u>AVRGRVLQIGLDI</u> FAGKGNTN <u>HGI</u> AA |
| UniRef90_UPI000468B680 UniRef90_UPI0003B2FC6B | DLFTPEEI EKLDKLPVEGAWKVAFGKGYTSYAVATC QLEEQPE <u>R</u> FGFDEAQVEQEARHGGYVT <u>Y</u> AGKQ <mark>C</mark> TEFAVAD |
| UniRef90_X0PQI0 UniRef90_B4H195 | KLSD <u>AN</u> TLAGFEDAAK <u>A</u> DAW <mark>H</mark> TIK <u>A</u> KGYTSYGVA <u>D</u> |
| UniRef90_UPI00029AE761 | K M A Q E IL IA IL ID IL ID E |
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| UniRef90_UPI0004002BD6 | E L D Q Y F D R D P Q V D E D I K K N V V S A A Y D V F N G K G W T N A G V A Q |
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| UniRef90_M0SUX9 | E EII IS YIL IT N RII IQ N G G T EIV VIE A K G A G S A TIL IS M A |
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| UniRef90_A3JXA9 UniRef90_I4DQC2 | S F A A Q I R T A D V R E R I D K G V R N A A Y T I I E G K G A T WY G I G VNL T D Q S K I E A L T K R I Q E A G T E V V K A K G G S A T L S M A Y |
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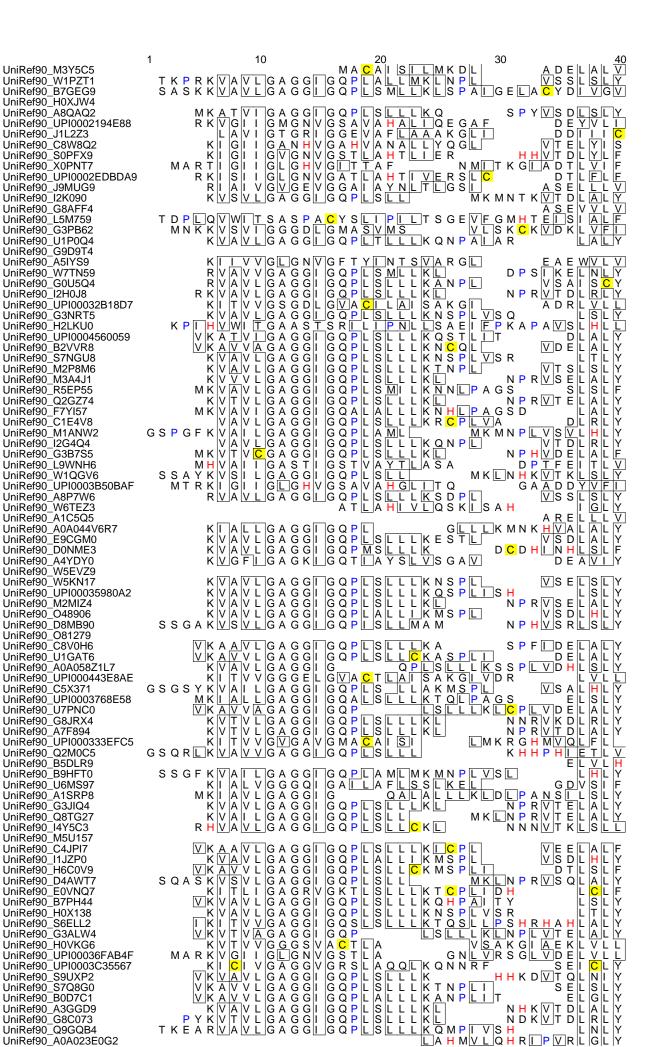
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| UniRef90_M3Y5C5 UniRef90_W1PZT1 UniRef90_B7GEG9 UniRef90_H0XJW4 UniRef90_A8QAQ2 UniRef90_UPI0002194E88 UniRef90_J1L2Z3 UniRef90_C8W8Q2 UniRef90_S0PFX9 UniRef90_X0PNT7 UniRef90_UPI0002EDBDA9 UniRef90_J9MUG9 UniRef90_J9MUG9 | DVMGDKKM MDLQHGSIFLRTPKLVSGKDYDVTANSKLDLTPGVAADVSHINTRSQVAGFTGEDQLGQALEGG DLAADLSHIPTRARVSGCLPAAGAWPPRGNEGLGEALTGADVELQHCSLSLLKDIATGKKEVSFKDLDDVVNAPGV AADLSHINTASPVQGFLPENDGLAKAVSDLDVNRAEEKVRAEALDFEDAKANQNESYQLTVNDYSALDDADVDAVRSLEHAQALDL AHASFDVGIETDTLLVRDADVDTNEVLCKAQVNDLLDAMPFYPHPARVFELDDRYEELAGCDQKPERCLAEQQDLICAQIGQNTTATIHIGEKYELAQLDIDKDERCLAEACQDLICAQIGQNTTATIHIGEKYELAQLDIDKDECLAEACQDLICAQIGQNTTATIHIGEKYELAQLDIDKDLAEACQDLICAQIGQNTTATIHIGEKYELAQLDIDKDLAEACQDLICAQIGQNTTATIHIGEKYELAQLDIDKDECLAEACQDLICAQIGGNTYTKIIHNDYAALKDADVDKKEGLAEACQSDIDLDLTLRNAQVEDLSDVAYSTGGSTRVRAATFRETAQSDIDLDLTLRNAQVEDLSDVAYSTGGSTRVRAATFRETAQSDIDLKLAKGVAADV |
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| UniRef90_G8AFF4 UniRef90_L5M759 UniRef90_G3PB62 UniRef90_U1P0Q4 UniRef90_G9D9T4 UniRef90_A5IYS9 UniRef90_W7TN59 UniRef90_G0U5Q4 UniRef90_I2H0J8 UniRef90_UPI00032B18D7 UniRef90_G3NRT5 UniRef90_H2LKU0 UniRef90_UPI0004560059 UniRef90_UPI0004560059 UniRef90_B2VVR8 | D MN E K L A A A Q A Q D I A H A V P F A A Q V R H E K L A A A Q A Q D I A H A D N K Q A E K T L Q N L A L E V Q D L V S P V L R S I S I C T R V E D A F R Q A D V N D S S T K G G S T D L E I F R L P Q V E V S R D L S A S A G S R V D L Q G T P G V A A D L S H I D S A Q V T G H T G T A E L D G A L D G A D V D K N V Q L A E A H A H D F E D M V S L M P R N G F R P G T L L E D S K D A D V D I V H T P G V A A D L S H I P F P A K V T G Y K G A D S H A A L E G C D V D I R G A P G V A A D L S H I C S P A K V S G Y V K D E I S N A L R G A D L D L K G A T G V A A D L S H I P T N S V V N G Y T P E N D G L S T A L K D A D P S E G T K G G T M D L D I F N L P N V E I S K D L S A S A H S K V D L D E N E E L Q R L R E E T Q S L A L S M L R R V T V H T D P Q Q A F R E A D V V N A P G V A A D L S H I S T P A T V K G Y L P K D D G L K D A L T G A D I D V V N T P G V A A D L S H I S T P A T V K G Y L P K D D G L K D A L T G A D I |
| UniRef90_S7NGU8 UniRef90_M2P8M6 UniRef90_M3A4J1 UniRef90_R5EP55 UniRef90_Q2GZ74 UniRef90_F7YI57 UniRef90_C1E4V8 UniRef90_I2G4Q4 UniRef90_I2G4Q4 UniRef90_L9WNH6 UniRef90_W1QGV6 UniRef90_UPI0003B50BAF UniRef90_A8P7W6 UniRef90_A8P7W6 UniRef90_A8P7W6 UniRef90_A8P7W6 UniRef90_A8P7W6 UniRef90_A8P7W6 UniRef90_A9B7W6 UniRef90_B8P7W6 UniRef90_B8P7W6 UniRef90_B9CGM0 UniRef90_A0A044V6R7 UniRef90_D0NME3 UniRef90_D0NME3 | DI A H T P G V A A D L S H I E T R A S V K G Y L G P E Q L P D C K G C D L DI R G A P G V A A D L S H I D T A S E V N G Y P A D Q L D Q A L E G V E V DI R L A P G V A A D V S H V D T A S E V N G Y P A D Q L D Q A L E G A D V DI R G A P G V A A D V S H V N T K S N V K G Y E P T A S G L A S A L K D A E I D V A P F T P G V A A D L S H I P T D V S I K G Y A G E D P T P A L E G A D V D V T P G V A A D L S H I P T P V S I K G Y A G E D P T P A L E G A D V D V V P L A A G V A A D L S H I P T P V S I K G Y A G E D P T P A L E G A D V D V V P L A A G V A A D L S H V N T P S T T T G Y Q A D Q L E D A L T G D L D V R L A P G V A A D L S H V N T P S T T T G Y Q A D Q L E G A L K N V E V D L V N V H D L N H I N T P A K V T G H Q P K D K A D Q S A V R A A L E R S D L D K A E E P A W A H A V D V T H S V G S L G T V R A V G A D E I G D L D Q P D L D L R L G A G V A T D I S H I P T N S V V K G Y G P E D D G L S K A L E G A D V D P N E K K V Q A E A L D F A D A N A N L A Y Q V N I T V N D W T A L D D A D L D I R G A P G V A D U S H V D T A S E V K G Y A D Q L D Q A L E G A K V D V N K D A L Q G K L W D L E E A S V I G G Y E G N I I I H D L D A F E L F D V D V K P L R N A Q V Q E L S D V S N M S G G A E T R I R A G T Y E E A G Q C D I D I K D T P G V A A D L S H I N T K S T V K G Y T G M E Q A G E A L E G A D V D V N T P G V A A D L S H I N T K S T V K G Y T G M E Q A G E A L E G A D V D L I P E L P D K F E H E L R H A F A T K G I K A N V L G T N S D D V S G M D I |
| UniRef90_W5EVZ9 UniRef90_W5KN17 UniRef90_UPl00035980A2 UniRef90_M2MIZ4 UniRef90_O48906 UniRef90_D8MB90 UniRef90_O81279 UniRef90_C8V0H6 UniRef90_U1GAT6 UniRef90_A0A058Z1L7 UniRef90_UPl000443E8AE | DIL A H T P G V A A D L S H I E T R A K V T G Y I G P D Q E A A L K G C E V D I A H T P G V A A D L S H I E T R P K V T G H M G D E Q L A D C K D A D L D I K G A P G V A A D I S H I N T K S I V K G Y E P G A E G I K E C L T G A Q I D I A N V K G V A A D I S H C N T P S K V L D F T G A S E L A N C L K G D V D I V R T P G V A C D L S H I D H P C K V E G Y N G P E N L A K V D G S D V D V V N T P G V A A D L S H I S S V A K I S G Y L P K E D G L K N A G T D I D V V N T P G V A A D L S H I S S I A K I S G Y L P K D D G M K H A G A D I D V V N T P G V A A D L S H I S S I A K I S G Y L P K D D G M K H A G A D I D V V N T P G V A A D L S H I P S K A K V T G H V G A E N G E A L K G A K V D L S D G T K G G T M D L D L F N L P N V E I S K D L F A S A Q S K V |
| UniRef90_C5X371 UniRef90_UPl0003768E58 UniRef90_UPl0003768E58 UniRef90_G8JRX4 UniRef90_A7F894 UniRef90_UPl000333EFC5 UniRef90_Q2M0C5 UniRef90_B9DLR9 UniRef90_B9HFT0 UniRef90_U6MS97 UniRef90_A1SRP8 UniRef90_G3JIQ4 UniRef90_G3JIQ4 UniRef90_G3JIQ4 UniRef90_I4Y5C3 UniRef90_I4Y5C3 UniRef90_I4T5C3 | DL S D G T K G G T M D L D L F N L P N V E L S K D L F A S A Q S K V D L A N V E P V T A D L S H C N T P A Q V A G F T G K D A L A G C S G A D V D L A P L T P G V A V D L S H L P T A V K V T G F S G E N P S P A L K N A D L D V V N T P G V A A D L S H L S S N A K L A G F L P A N D G A K T A F K D A D L R G A K G V A A D L S H L P T N S K V S G Y S P D G L R N A L D N A D V D L R G G P G V A A D L S H L P T N S K V S G Y S P D G L R N A L D N A D V D L R G G P G V A A D L S H L D T S A V V Q H F Q G P K K L A A L K G S D L D L T A T K G F G Q D L S H L D T S A V V Q H F Q G P K K L A A L K G S D L D L T A T K G F G Q D L S H L D R A C Q V K S F F G E D Q M A A L K G A D L D V V N A P G V T A D L S H L D T S A V V R G F L G Q Q Q L E D A L L G D L D V V E G L P Q G V A K D L S H L D T S A V V S G S N H S A L Q G A D V D L A P V T P G V A K D L S H L P T S V K V E G F A G T D P T A A L E G A D V D L R G G P G V A A D L S H L N T N S T V T G Y Q P T P E G L R D A L K G S E L D L K G A P G V A A D L S H L N T N S T V T G Y Q P T P E G L R D A L K G S E L D L K G A P G V A A D L S H L N T N S T V T G Y Q P T P E G L R D A L K G S E L D L K G A P G V |
| UniRef90_C4JPI7 UniRef90_I1JZP0 UniRef90_H6C0V9 UniRef90_D4AWT7 UniRef90_D4AWT7 UniRef90_B7PH44 UniRef90_B7PH44 UniRef90_G3ALW4 UniRef90_G3ALW4 UniRef90_UPl0003G5AB4F UniRef90_UPl0003C35567 UniRef90_S9UXP2 UniRef90_S9UXP2 UniRef90_S9UXP2 UniRef90_B0D7C1 UniRef90_B0D7C1 UniRef90_B0D7C1 UniRef90_G8C073 UniRef90_Q9GQB4 UniRef90_Q9GQB4 UniRef90_Q9GQB4 | D V V N T P G V T |

| JAMERSON WIPSTT VI P A G V F R K P G MT R O D D M A G V K S C T A A K V G P H A C J M M M M M M M M M M M M M M M M M M | UniDatoo Mayees | 90 100 110 120 VIIITAGSCQQEGESC LNF I L NI IKYSPN CNL |
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| JIRRESO, ABOAGO, UniRef90_W1PZT1 UniRef90_B7GEG9 | V |
| June 800 Jun | UniRef90_H0XJW4 UniRef90_A8QAQ2 | VIIIPAGMPRKPRDDILIFNANASII VIYGII IAEGII IAK AAPKAFII |
| JARRENGO SUPPROY V. F. S. A. G. D. T. A. N. D. R. T. T. E. L. E. F. T. K. A. A. K. E. W. A. A. B. L. V. F. Y. S. T. S. A. L. V. F. Y. S. T. S. T. S. T. L. T. S. T | UniRef90_J1L2Z3 | CVFAAGRPRKTRADLLNSNLPVLDECCDHLP SFGGIM |
| June | UniRef90_S0PFX9 | V V F S A G D B G G D P T S ELL P T T K K A A K K K A S G F H G V L V V F S A G D L G G D P T S ELL P T T K K A A K V E V L P OL K A S G F H G V L |
| June 890 Jun | UniRef90_UPI0002EDBDA9 | I VIFAPGDQKNNDRII I IFFKYTKT <mark>C</mark> AFFWGKKII IKFSNFKGII I |
| Junkengo Gayberd Junkengo Gay | UniRef90_I2K090 UniRef90_G8AFF4 | IVIP F A R A R P G F T RII IQII I IF R N A GIVI IV V I IA A GIVIA Q R P G F T RII IQ |
| JINRE90, GSDST4 VI V P A GV P R K S R D D L PELT N A S I V K D D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A K T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A K T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A A C A K T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A C A C A K T A G P K A S I V P A G W P R K S R D D L PELT N A S I V K D L V A C A C A C A C A C A C A C A C A C A | UniRef90_L5M759 UniRef90_G3PB62 | H V L D D P Y T ME E |
| JUNESSO WYTHSO V V P A G V P R K P G M T R D D L N A G V K T L A E A S A K V D P K A L L D D M S G M T R D D L N A G V K T L A E A S A K V D P K A L L L D D S W S M S M D D M S M S M S M D D M S M S M | UniRef90_G9D9T4 | REELIIGIVINAGII VIKSIVIAENILLIKYSPNAII I VI |
| Junkelgo G.SHARID VI IP A G.V.P.R.F.P.G.M.F.N.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.R.P.B.R.P.B.D.R.R.P.D.B.R.R.P.D.B.R.R.P.D.B.R.R.P.B.D.R.R.R.P.B.D.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R | UniRef90_W7TN59 | I V VIP A GIVIP R K P G M T R D DII IN A GII VIK TII IA F A S A KIVIA P K A <mark>C</mark> YII I |
| Junkelgo G.SHARID VI IP A G.V.P.R.F.P.G.M.F.N.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.N.D.R.R.P.D.B.S.R.P.B.R.P.B.D.R.R.P.D.B.R.R.P.D.B.R.R.P.D.B.R.R.P.B.D.R.R.R.P.B.D.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.P.B.D.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R | UniRef90_I2H0J8 | ÉVIPAGVPRKSRDDLFSINAGIVRDLÁTAAANNCPNAS VILTVNSLIGNSQSYLDQSNVDMFRALVPALIG HYSQHSVL |
| Junkergo BZV/NRB V V I P A G J P R K P G D T L F K I N A G I V K N D L IE G W S K F C P K A F V Junkergo BZV/NRB V V I P A G W P R K P G D T R D D L F K I N A T I V A N D L IE G W S K F C P K A F V Junkergo BZV/NRB V V V P A G W P R K P G M T R D D L N A S I V K N D L IE G W S K F C P K A F V Junkergo BZV/NRB V V I P A G W P R K P G M T R D D L N A S I V K N D L A K A V A R V S P D A A M U Junkergo BZV/NRB V V I P A G W P R K P G M T R D D L N A S I V K N D L A K A V A R V S P D A A M U Junkergo BZV/NRB Junkergo BZV/NRB V V I P A G W P R K P G M T R D D L N A S I V K N D L A K A V A R V S P K A C I V I N A G W P R K P G M T R D D L N A S I V K N D L A K A V A R V S P K A C I V I N A G W S P K P R F G M T R D D L N A S I V K N D L A K A V A R V S P K A C I V I N A G W P R K P G M T R D D L N A S I V K N D L A K K I A V V R P K A C I V I N A G W P K F F G M T R D D L N A S I V K N D L A K K I A V V R P K A C I V I N A G W P K F F G M T R D D L N A S I V K N D L A K K I A V V R P K A C I V I N A G W P K F F G M T R D D L N A S I V K N D L A K K I A V V R P K A C I V I N A G W P K F F G M T R D D L N A S I V K N D L A K K I A V V R P K A C I V I N A W I V I P A G W P K F F F G M T R D D L N A S I V K N D L A K K I A V V R P K A C I V I N A W I V I P A G W P K F F F G M T R D D L N A S I V K N D L W A K I L R A T A M A W I V I P A G W P K F F F G M T R D D L N A S I V K N D L W A K I L R A T A D A W I V I P A G W P K F F F G M T R D D L N A S I V K N D L W A K I L R A T A D A D M A W I V I P A G W P K F F F G M T R D D L N A S I V K N D L W A K I L R A T A D A D M A W I P A G W P R K F F G M T R D D L N A S I V K N D L A K K I C R A T A D A D M A W I P A W I P A G W P R K F F G M T R D D L N A S I V N D L A K A C A A M A M A M A M A M A M A M A M A | UniRef90_G3NRT5 UniRef90_H2LKU0 | DV I V |
| Junkergo M. M. M. M. M. M. M. M. M. M. M. M. M. | UniRef90_UPI0004560059 UniRef90_B2VVR8 | VVI PAGII PRKPRDDII IFKII INAGII VIKDII I IFGIVISKE <mark>C</mark> PK AFIV |
| Junkel90 QCZCZ74 VI P A GV P R K P G M T R D D L F N I N A G I V R D L A K T C P K A Q V P G M A G V P G M R D D L F N I N A S I V R D L A K A C A E S A P N A N I Junkel90 C PY157 VL V S A GV P R K P G M T R D D L K N A S I V R D L A K A C A E S A P N A N I Junkel90 C PY157 VL V S A GV P R K P G M T R D D L N A S I V R D L A K A C A E S A P N A N I Junkel90 C PY157 VL V S A GV P R K P G M T R D D L N A S I V R D L A K A C A E S A P N A N I Junkel90 C PY157 VL V S A GV P R K P G M T R D D L N A S I V R D L A K A C A E V A P K A C V V D Junkel90 Q C A C V V P A G V P R K P G M T R D D L N A S I V R D L A K A C A E V A P K A D V P R K P G M T R D D L N A S I V R D L A K A C A E V A P K A D V P R K P G M T R D D L N A S I V R D L A K A C A E V A P K A D V P R K P G M T R D D L N A S I V R D L A K A C A E V A P K A B L Junkel90 L S B S S S S V L P A G V P R K P G M T R D D L N A S I V R D L A K A C A E V A P K A B L Junkel90 L S B S S S S S V L P A G V P R K P G M T R D D L N A S I V R D L A K A C A E V A P K A B L Junkel90 L S B S S S S S S S S S S S S S S S S S | UniRef90_M2P8M6 | V V I P A G V P R K P G M I R D D L N A I I V A N L I A A C A Q N C P E A M I V V I P A G V P R K P G M I R D D L N A S I V R D L A A A V A R V S P Q A H V |
| JAINGERGO LOS CAGAGA V V I P A G V P R K P G M T R D D L IN A G I V K I L C E G A A G V P K A H L JAINGERGO CAGAGA JAINGERGO LOS CAGAGA V V I P A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P K A H L JAINGERGO CAGAGA JAINGERGO LOS CAGAGA V V I P A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L X K A G V P K A F I V I V I P A G V P R K P G M T R D D L IN A G I V K I I P A G V P K A F I V I V I P A G V P R K P G M T R D D L IN A G I V K I I P A G V P K A F I V I V I P A G V P R K P P G M T R D D L IN A G I V K I I P A G V P K A F I V I V I P A G V P R K P P G M T R D D L IN A G I V K I I P A G V P K A G I V I V I P A G V P R K P P G M T R D D L IN A G I V X I I X A A A A A A A A A A A A A A A A | UniRef90_R5EP55 | VVI IPAGIVIPG MTRDDILIFNII INAGII I IANIL VIRNII IAKT <mark>C</mark> PK A <mark>C</mark> II I |
| JAINGERGO LOS CAGAGA V V I P A G V P R K P G M T R D D L IN A G I V K I L C E G A A G V P K A H L JAINGERGO CAGAGA JAINGERGO LOS CAGAGA V V I P A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P K A H L JAINGERGO CAGAGA JAINGERGO LOS CAGAGA V V I P A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L A K A G V P R K P G M T R D D L IN A G I V K N I G L X K A G V P K A F I V I V I P A G V P R K P G M T R D D L IN A G I V K I I P A G V P K A F I V I V I P A G V P R K P G M T R D D L IN A G I V K I I P A G V P K A F I V I V I P A G V P R K P P G M T R D D L IN A G I V K I I P A G V P K A F I V I V I P A G V P R K P P G M T R D D L IN A G I V K I I P A G V P K A G I V I V I P A G V P R K P P G M T R D D L IN A G I V X I I X A A A A A A A A A A A A A A A A | UniRef90_F7YI57 UniRef90_C1E4V8 | V L V S A G V P G M D R A D L F N V N A G I V K A L A E K L A V V C P K A C V V V I P A G V P R K P G M T R D D L N A G I V R D L V A A C A K T C P N A V L |
| JAIRGERO LOWNING JAIRGERO LOW | UniRef90_M1ANW2 UniRef90_I2G4Q4 | VVIPAGIVPRKPGMIRDDILINAGIIVIKI ILI <mark>C</mark> EGII IAK <mark>CC</mark> PKAII I IVI |
| JURINGHOU OJSBOUDAT JURINGHOU AD STYNE VI PAG W PR K P G M T R D D L N A S I V R D L A A R I G R V S P K A H I J R R W S V I P A G W P R K P G M T R D D L N A S I V R D L A A R I G R V S P K A H I J R R W S V I P A G W P R K P G M T R D D L N A S I V R D L A A R I G R V S P K A H I J R R W S V I P A G W P R K P G M T R D D L N A S I V R D L A A K N C P K A L I V I T A G R P R M D R K D L L K E N A S I L Q A I I A R E V K N F K O V C I T A G R P R M D R K D L L K E N A S I L Q A I I A R E V K N F K O P K A L I V I T A G R P R M D R K D L L K E N A S I V R N M G I V R D L A A K N C P K A L I V I T A G R P R M D R K D L L K E N A S I V R N M G I V R D L A A K N C P K A L I V I T A G R P R M D R K D L L K E N A S I V R N M G I V R D L A G K I R R D T R D L I N A S I V R N M G I V R D L A G K I R R D T R D L I N A S I V R N M G I V R D L A G K I R R D T R D T R D L I N A S I V R N M G I V R D L A G K I R R D T R D T R D L I N A S I V R N M G I V R D L A G K I R S R P R M D R M R P R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A S I V R D L A G K I R S R P R M I T R D D L I N A G I V R S I V R D L A G K I R R M I T R D D L I N A G I V R D L A G K I R R M I T R D D L I N A G I V R D L A G K I R R M I T R D D L I N A G I V R D L A G K I R R M I T R D D L I N A G I V R D L A G K I R R M I T R D D L I N A G I V R D L I T R T R D D L I N A G I V R D L I T R T R D D L I N A G I V R D L I T R T R D D L I N A G I V R D L I T R T R D D L I N A G I V R D L I T R T R D D | UniRef90_L9WNH6 | VVIPAGVPRKPGMTRADLINASIIIRDLVKNIIGLITCPDASII AVETAAAPRPDREAELEANRGIVDDVAEQLI RSIDPIPI |
| Johrsendo Artosos Johrsendo Artosos Johrsendo Artosos Johrsendo Artosos Johrsendo Egogmo VVI PAG SK GETS WOLDH NY RN MG II VQ DL II PAMR PF RP K A V Johrsendo Egogmo VVI PAG VP RK PG MT RD DL IN AG SI V RD LI SE AAA K N C P K A E V Johrsendo Egogmo VVI PAG VP RK PG MT RD DL IN AG SI V RD LI SE AAA K N C P K A E V Johrsendo Artoyo VVI PAG VP RK PG MT RD DL IN AG SI V RD LA AG K I P R K P P A A I I Johrsendo Artoyo VVI PAG VP RK PG MT RD DL IN AG SI V RD LA AG K I I P A MR P F R P R P K A I I Johrsendo Artoyo VVI PAG VP RK PG MT RD DL IN AG SI V RD LA AG K I I P A MR I V Johrsendo Wosknit7 VVI PAG VP RK PG MT RD DL IN AG SI V RD LA AG K I I P A MR I V Johrsendo Wosknit7 VVI PAG VP RK PG MT RD D L IN AG SI V RD LA AG K I I P A MR I V Johrsendo Wosknit7 VVI PAG VP RK PG MT RD D L IN AG SI V RD LA AG AG AG AG AG P K A AM I Johrsendo Wosknit7 VVI PAG VP RK PG MT RD D L IN AG SI V RD LA K AG AG AG AG AG AG AG AG AG AG AG AG AG | UniRef90_UPI0003B50BAF | I I VIAILIGKPSHDRFII IEILIPFI AKUIVIPI IVIAEKILIKA I AFUGIVLI I |
| Johrefon Gordon V V I P A G K P G MT R D D IL F N T N A S II V R N L IS E A A A K N C P K A E IV Johrefon Donmes V V I P A G V P R K P G MT R D D IL N A G II V M N L IS E A A A K N C P K A E IV Johrefon Donmes V V I P A G V P R K P G MT R D D IL N A G II V M N L IS E A A A A Q H C P K A M M L Johrefon Donmes V V I P A G V P R K P G MT R D D IL N A G II V M N L IS E A A A A Q H C P K A M M L Johrefon Westers V V I P A G V P R K P G MT R D D IL N A G II V M N L IS E G E G V A K C P K A M M L Johrefon Westers V V I P A G V P R K P G MT R D D D IL N A G II V R D L A A A Q H C P E A M M L Johrefon Westers V V I P A G V P R K P G MT R D D IL N A S II V A D IL L D S C A Q N C P K A M M Johrefon Westers V I P A G V P R K P G MT R D D IL N A S II V A D IL ID S C A Q N C P K A M M Johrefon Westers V I P A G V P R K P G MT R D D IL N A S II V A D IL ID S C A Q N C P K A M M Johrefon Westers V I P A G V P R K P G MT R D D IL N A S II V A D IL ID S C A Q N C P K A M M Johrefon Westers V I P A G V P R K P G MT R D D IL N A S II V A D IL ID S C A Q N C P K A M M JOhrefon Westers V I P A G V P R K P G MT R D D IL N A S II V A D IL ID S C A Q N C P K A M M JOHREFON WESTERS V I P A G V P R K P G MT R D D IL N A S II V A D IL IN A G I V T A V A D N C P N A M M M JOHREFON WESTERS V I P A G V P R K P G MT R D D IL N A G II V R D IL IN A G I V T A V A D N C P N A G I I JOHREFON WESTERS V I P A G V P R K P R D D IL F K IN A G II V R D IL IN A G I V T A V A D N C P N A G I I JOHREFON WESTERS V I P A G V P R K P R D D IL F K IN A G II V R D IL IN A G I V T A V A D N C P N A G I I T T T T T T T T T T T T T T T T T | UniRef90_W6TEZ3 | L V I T A GREAT SUO HMYRNMGI VQALIPAMREF REDILI |
| JAIRGE90AYDY0 | UniRef90_A0A044V6R7 UniRef90_E9CGM0 | VVIPAGKPGMTRDDII IFNTNASII VIRDII ISFAAAKN <mark>C</mark> PK AFIVI |
| Jniref90_WSKN17 V | UniRef90_D0NME3 UniRef90_A4YDY0 | V V I IS A G K P R K P G M S R R D D N A KII IMII IDIL IA Q KIL IP S K N P G A II IYIL I |
| JAIRE690_048906 V V I P A G W P R K P G M T R D D L N A SI V R D L K K A A A D A G P D A N M JAIRE690_048906 V V I P A G W P R K P G M T R D D L N A GI V R D L V T A Y A D N C P N A F I JAIRE690_081279 V I I P A G W P R K P G M T R D D L N A GI V K T L C T A I A K Y C P N A F I JAIRE690_081279 V I I P A G W P R K P R D D L F K I N A GI V K T L C T A I A K Y C P N A F I JAIRE690_081279 V I I P A G W P R K P R D D L F K I N A GI V K T L C T A I A K Y C P K A F I JAIRE690_081279 V I I P A G W P R K P R D D L F K I N A G I V K T L C T A I A K Y C P R A F I JAIRE690_081279 V I I P A G W P R K P R D D L F K I N A G I V K D L V K G I A E Y S P K A F I JAIRE690_081217 JAIRE690_0832117 JAIRE690_0832117 V V I P A G W P R K P R D D L F K I N A G I V K G L A E A A E H G P D A H L JAIRE690_083271 JAIRE690_083271 V V I P A G W P R K P R D D L F K W N A G W K G L A E A A A E H G P D A H L JAIRE690_083271 JAIRE690_083271 V V I P A G W P R K P R D D W N A G W K G L A E A A A E H G P D A H L JAIRE690_083271 JAIRE690_083271 V V I P A G W P R K P R D D W N A G W K G L A E A A A E H G P D A H L JAIRE690_083271 JAIRE690_083271 V V I P A G W P R K P R D D W N A G W R D L W A A W A D A P P G A L V W A JAIRE690_083281 V V I P A G W P R K P R D D W N A G W R D L W A W A D A P P G A L V W A JAIRE690_083281 JAIRE690_08327 V V I P A G W P R K P R D D W N A G W R D L A K A A A E S A P N A N I JAIRE690_083281 JAIRE690_080000000000000000000000000000000000 | UniRef90_W5KN17 | V V I IP A GIVIP R K P G M T R D D N T N A T II V IA T IL IS D A <mark>C</mark> A R A <mark>C</mark> P E A MII I |
| Jurikef90_081279 VIIPAGVVPRKPRDDLFKTNAGIVRDAGNIAMNLLAKAGQQQSQFKAQIJIRKef90_0801279 VIIPAGVVPRKPRDDLFKINAGIVRDAGNIAMNLLAKAGQQQSQFKAAQIJIRKef90_101GAT6 UVIPAGVVPRKPRDDLFKINAGIVRDAGNIAMNLLAKAQQQSQFKAAFIJIRKef90_101GAT6 UVIPAGVVPRKPRDDLFKINAGIVRDAGNIAMLAKAQQQSQFKAAFIJIRKef90_1010004328842 VIITVINASQFTAGNIAMAGQSQTAT JURIKEf90_UP10003768585 VIIVPRGVPRKPRDDLFKINAGGIVRDAGNIAMAGQAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | UniRef90_M2MIZ4 | V L I P A G V P R K P G M T R D D L N A S I V R D L A K A A D A C P D A N M |
| Juriker90 U1GAT6 UNI PAGI PRKPRDDLFKINAGIVRDLVKGILAEFYPDAH UNI PAGI PRKPRDDLFKINAGIVRDLKKGILAEFYPDAH UNI PAGIVPRKPRDDLFKINAGIVRDLKKGILAEFYPDAH UNI TVN SLGSSQSYLDQSNVDDMFRTLIPALIG HYSQHSVL JURiker90 U2DN000443E8AE UNI TVN SLGSSQSYLDQSNVDDMFRTLIPALIG HYSQHSVL JURiker90 U2DN0003788E58 JURIker90 U2DN000 JURIKER90 U2DN000 JURIKE | UniRef90_D8MB90 | VII PAG V PRKPRDD L FKTNAG I AMN L AKACAQSCPK AC I |
| JniRef90_UP10003768E8 | UniRef90_C8V0H6 UniRef90_U1GAT6 | V V I P A GI P R K P R D D L F K I N A GI V R D L V K G I A E Y S P K A F I |
| Jnikef90 | UniRef90_A0A058Z1L7 UniRef90_UPI000443E8AE | V |
| Jnikef90 | UniRef90_UPI0003768E58 | V V I P A G V P R K P G M T R D D V N A G I V R D L V A A V A D H A P G A L V V L I S A G V A R K P R A D L F N I N A G I I K N L V T S V A E T C P K L G L I |
| JAIRE190 | UniRef90_G8JRX4 | VI I PAGVPRKPGMTRDDLNAGI VRDLASALGDYSPKAS V |
| JAIRE690 B5DLR9 | UniRef90_UPI000333EFC5 UniRef90_Q2M0C5 | V V V P A G K P R K P G M I R A D A N A SII IAIVIAIVIA N AIVIS I A C P G A L L I |
| JniRef90_Q8IG2/ JniRef90_I4Y5C3 JniRef90_M5U157 JniRef90_M5U157 JniRef90_M5U157 JniRef90_PRKPRDDLFNINASIVRDLVKAVAEHAPKASI L JniRef90_H6C0V9 JniRef90_D4AWT7 JniRef90_D4AWT7 JniRef90_E0VNQ7 JniRef90_B7PH44 JniRef90_B7PH44 JniRef90_B7PH44 JniRef90_H0X138 VS_CI_GS_FL_GMT_RDDLNASIVRDL AAAAAAACAQAC_PKAFL JniRef90_H0X138 VS_CI_GS_FL_GMT_RDDLFNINASIVRDL AAALAAACAQAC_PKAFL JniRef90_H0XK66 JniRef90_UP100036FAB4F JniRef90_UP100036FAB4F JniRef90_S9UXP2 JniRef90_S9UXP2 JniRef90_S7Q8G0 VVI_PAGVPRKPGMT_RDDLFNINASIVRDL AAAACAQAAC_PKAFV JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAAACAQAC_PKAFL JniRef90_A3GCD9 JniRef90_A3GCD9 JNIRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAAACAQAC_PKAFL JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAAACAQAC_PKAFL JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAALAYSPDGVLI JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AATGI_AATAPK_AFV JniRef90_B0D7C1 VVI_PAGVPRKPRDDLFKI_NAGI_VRDL AATGI_AATAPK_AFV JniRef90_G8C073 VVI_PAGVPRKPRDDLFKI_NAGI_VRDL AATGI_AATAPK_AFV JniRef90_G8C073 VVI_PAGVPRKPRDDLFKI_NAGI_VRDL AAAAEN_APNAAV JniRef90_Q9GQB4 VVI_PAGVPRKPGMT_RDDL_NASI_VRDL AAAAEN_APNAAV JniRef90_Q9GQB4 | UniRef90_B5DLR9 UniRef90_B9HFT0 | VMITAGMPRKPGQTRFDTNAPIVAKAAGLVSQHAAH AMV |
| JniRef90_Q8IG2/ JniRef90_I4Y5C3 JniRef90_M5U157 JniRef90_M5U157 JniRef90_M5U157 JniRef90_PRKPRDDLFNINASIVRDLVKAVAEHAPKASI L JniRef90_H6C0V9 JniRef90_D4AWT7 JniRef90_D4AWT7 JniRef90_E0VNQ7 JniRef90_B7PH44 JniRef90_B7PH44 JniRef90_B7PH44 JniRef90_H0X138 VS_CI_GS_FL_GMT_RDDLNASIVRDL AAAAAAACAQAC_PKAFL JniRef90_H0X138 VS_CI_GS_FL_GMT_RDDLFNINASIVRDL AAALAAACAQAC_PKAFL JniRef90_H0XK66 JniRef90_UP100036FAB4F JniRef90_UP100036FAB4F JniRef90_S9UXP2 JniRef90_S9UXP2 JniRef90_S7Q8G0 VVI_PAGVPRKPGMT_RDDLFNINASIVRDL AAAACAQAAC_PKAFV JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAAACAQAC_PKAFL JniRef90_A3GCD9 JniRef90_A3GCD9 JNIRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAAACAQAC_PKAFL JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAAACAQAC_PKAFL JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AAALAYSPDGVLI JniRef90_B0D7C1 VVI_PAGVPRKPGMT_RDDLNASIVRDL AATGI_AATAPK_AFV JniRef90_B0D7C1 VVI_PAGVPRKPRDDLFKI_NAGI_VRDL AATGI_AATAPK_AFV JniRef90_G8C073 VVI_PAGVPRKPRDDLFKI_NAGI_VRDL AATGI_AATAPK_AFV JniRef90_G8C073 VVI_PAGVPRKPRDDLFKI_NAGI_VRDL AAAAEN_APNAAV JniRef90_Q9GQB4 VVI_PAGVPRKPGMT_RDDL_NASI_VRDL AAAAEN_APNAAV JniRef90_Q9GQB4 | UniRef90_A1SRP8 | VIVITAGVPRKPGMSRDDLINSKI VADVAEAI KMYCPEAFV LLISAGVPGMDRSDLFNI NAGI IKNLVAKVAEVAPE ACI |
| JniRef90_M5U157 | UniRef90_Q8TG27 | VIIPAGVPRKPGMIRDDENASIVRDLAKAVAKSAPKAKILI VIIPAGVPRKTRDDENASIVRDLAKA AADA <mark>C</mark> PNANI |
| JniRef90_11JZP0 | UniRef90_I413C3 UniRef90_M5U157 UniRef90_C4JPI7 | VII PAGIPRKPRDDIFKINAGIVKFI VOGVADH <mark>C</mark> PK AFV |
| JniRef90_E0VNQ7 JniRef90_B7PH44 JniRef90_H0X138 VI | UniRef90_I1JZP0 UniRef90_H6C0V9 | V V I P A G V P R K P G M T R D D L N A G I V R D L V S A V A D N S P D A F I V I I P A G V P R K P R D D L F K I N A G I V K D L I V A C T K Y C P K A F I I |
| JniRef90_H0X138 | UniRef90_D4AWT7 UniRef90_E0VNQ7 | VIIIPAGIVIPRKPGMTRDERNASII VIRDII IAKAAAEHCPN ANII |
| JniRef90_H0VKG6 | UniRef90_H0X138 | VISCH GSEILIGMT PDDILIENT NATH VIATH IT AACAOHCDE AMILL |
| JniRef90_S7Q8G0 | UniRef90_G3ALW4 UniRef90 H0VKG6 | V V I P A G V P R K P G M T R A D L N A S L V R D L V A N L A R T A P N A A L V F T V N S L G H S E S Y L D Q G N V D M F R A L V P A L A H Y S P D G V L L |
| JniRef90_S7Q8G0 | UniRef90_UPI00036FAB4F UniRef90_UPI0003C35567 | L V V A V G D I G D N P D R W V E I S I N I E N A K E I A K A T K F S G V I M V L T G G Q S H S K R E Q M F E A N A K I M V K L L E A L V K A N K E Q P H I |
| JniRef90_A3GGD9 | UniRef90_S9UXP2 UniRef90_S7Q8G0 | VIIIPAGIVIPRKPGIVITRIJII IN A NII VIJIII IA S AIVIGKN S PK AII I I |
| JniRef90_Q9GQB4 VLIPAGVPRKPGMTRDDLNAGIVRDLASAAAEN APNAAI | UniRef90_A3GGD9 | V V I P A G V P R K P R D D L F K I N A G I V R D L A T G L A A T A P K A F V I V I P A G V P R K P G M T R D D L N A S I V R D L A K A A A E N A P N A A V |
| | UniRef90_G8C073 UniRef90_Q9GQB4 UniRef90_A0A023E0G2 | V |

| Ha:Dafoo MoVEOE | Tyyle N Dlyle | 130 | 140 | 150 | 160 |
|---|--|---|---|---|---------------------------------------|
| UniRef90_M3Y5C5 UniRef90_W1PZT1 UniRef90_B7GEG9 | L V V S N P V N M I S N P V N A I I S N P V N | DVLT ISTVPIVFK IST <mark>V</mark> PLAAE[| K A G T Y D E K K L L L G V Y N P R K L | F GVT T L DVV C GVT T F DVI | CYL RAKTF RANTF |
| UniRef90_H0XJW4 UniRef90_A8QAQ2 UniRef90_UPI0002194E88 | V V I T N P C | IPN <mark>C</mark> PAPIK ISMVPIFAE DAIAALYQK | A A P D D P K K N P V L K A H N P K R T E T G Y P K E K V I C L D L E P A R C I L T G A D P Y K V I L T S F D P K K V I N L G L P Q N Q I I L S G V P R E R V I M S G L P K S Q V I V F G V F N P K K L L S G V P P S R V I | F G V T T L D V V I C G V T T F D V I F S S L T S L D H N F G V T S L D L V A T G T L L D T A | Q A E A R R A S T F R M K R A |
| UniRef90_J1L2Z3 UniRef90_C8W8Q2 UniRef90_S0PFX9 | NIIA NPC | VNNYYLHR VVTTELQY | <mark>C</mark> LDIEPAR <mark>C</mark> I LTGADPYKVI | GFGGQLDSA GSGTTLDSA GTGTSLDTA GTGTALDTY | R L R H A |
| UniRef90_X0PNT7 UniRef90_UPI0002EDBDA9 | VISILIT N P C D | VITHYMQK VATTYWSE VIADYLQK | NLGLPQNQII LSGVPRERVI | GTGTALDTY GTGTLLDTA | R M R R A R M K N A |
| UniRef90_J9MUG9 UniRef90_I2K090 UniRef90_G8AFF4 | L V I A N P V I C V I C N P V N L L E R N P L I | DLLTSIAQE ISTVPIVRE DVMTQIATR | M S G L | GTGTLDTA GSGTSLDTS FGVTTLDTL GSGTLLDTA | R L R G M R A N R F R F R A L |
| UniRef90_L5M759 UniRef90_G3PB62 UniRef90_U1P0Q4 | L L E R N P L C I V G G K T F V I A S Q P V C A I I T N P I N | VMTQIATR NLKTLLLM OLMTHVAWR ISTVPIACE | RYAPSIVHNI QSGLPPTQVI | GSGTILDTA VAVALGVEG GAGCNLDSQ FGVTMLDIV | RLSHL |
| UniRef90_G9D9T4 UniRef90_A5IYS9 | V V A A N P C C | T M T Y L A L K | S P F R V H N I S G P P T Q V H N I Q S G P T Q V T T T T T T T T T | G M G G A L D S S S A G T N L E T G | R A Q T F R F K Y F R L K K M |
| UniRef90_W7TN59 UniRef90_G0U5Q4 UniRef90_I2H0J8 | GIISNPVN LVISNPVN | ISTVPIFAK ISTVPITLK ISTVPVTFR | K A G T Y N P K K L K A G V F D P T R L K L G V Y N P R K L | F G V T M L D S V G M G G A L D S S S A G T N L E T G L F G V T T L D V V L F G V T T L D S V C F G V T T L D S V | RANTF RARTF RASRF |
| UniRef90_UPI00032B18D7 UniRef90_G3NRT5 UniRef90_H2LKU0 | LIASQPVE CVIANPVN IVSGDSVN | INAYVAWKI | LSAFPANRVI KYGVYNPNK\ | GIGCNLDSQ /FGVATTLDIV | R L Q Y L R A N A F E A P A V |
| UniRef90_UPI0004560059 UniRef90_B2VVR8 | L V I S N P V N | ISTVPI VAEI | V L G V F D P K R L K A G V F D P K K L | F G V T T L D I V | RASTF RAETF |
| UniRef90_S7NGU8 UniRef90_M2P8M6 UniRef90_M3A4J1 | CVI ANPVN LIISNPVN | ISTVPI VAE ISTVPI TFK | K | F G V T L D V V F G V T L D V V F G V T L D A V | R A N A F R A R R F R A S R F |
| UniRef90_R5EP55 UniRef90_Q2GZ74 UniRef90_F7YI57 | CIITNPVN LVISNPVN GIITNPV | S T V P L A A E S T V P | V | - F G S V L D V L - F G V T T L D V V | RSETF RASRF RSETE |
| UniRef90_C1E4V8 UniRef90_M1ANW2 | NVISNPV NIISNPV | ISTVPI AAEI | VAGVYDPRRL MAGTFDPRRL | MGVTHLDVM LGVTMLDVV | R A R T F |
| UniRef90_I2G4Q4 UniRef90_G3B7S5 UniRef90_L9WNH6 | L I I S N P V N L I I S N P V N L V M T N P I D | ISTVPLVEK ISTVPLVLK DRLTYRLWR | K A G V Y N P N K L K L G V F N P S K L R L E W P R G H F | F G V T T L D S V F L G Y S L S E T A | |
| UniRef90_W1QGV6 UniRef90_UPI0003B50BAF UniRef90_A8P7W6 | CVISNPV VITNPV LIISNPV | ISTVPIVAE DVITTLFQR ISTVPIVAA | <u>V L </u> | _ | R A S R F R M Q R A R A A R F |
| UniRef90_W6TEZ3 UniRef90_A1C5Q5 | V I V T N P V C | LMTRFFSY LLTTVAQQ | L L S L P K T Q V L L S G L P P T Q V L | G M A G V L D E A | R M A L Q R L R G L |
| UniRef90_A0A044V6R7 UniRef90_E9CGM0 UniRef90_D0NME3 | A I I T N P V N A I I A N P V N | ISTVPIVEK ISTVPITEK | K A G V Y D P K R I K A G V Y D P K R I | | R A N T F R A A T F |
| UniRef90_A4YDY0 UniRef90_W5EVZ9 UniRef90_W5KN17 | MVA NPV NLISNPV CIIANPV | D M M A S V F M K I S T V P I V F K I S T V P I M M K | Y | SAGDQVETM LGVTTLDVA /FGVTTLDIV | R M R S F R A N T F R A N A F |
| UniRef90_UPI00035980A2 UniRef90_M2MIZ4 UniRef90_O48906 | GIITNPVN LIISNPVN | ISTVPI ASE ISTVPI I FK | <u>V L G V Y D K N R \</u> S K G V Y N P K R L | / F G V T T L D V V - F G V S T L D V V | R S N T F R A S R F |
| UniRef90_D8MB90 UniRef90_O81279 | L V I C N P V N N M I T N P V N | ISTVPI FFK | K M G V H D P R K I K A G T Y D E K R L | MGVTELDSV FGVTTLDVV | R A R K F R A K T F |
| UniRef90_C8V0H6 UniRef90_U1GAT6 UniRef90_A0A058Z1L7 | L I I S N P V N L V I S N P V N | ISTVPITLK ISTVPIVAK | A A G V F D P A R L Q A G V F N P K K L K A G V Y S P K R L | - | R A E T F R A E T F R A R T F |
| UniRef90_UPI000443E8AE UniRef90_C5X371 UniRef90_UPI0003768E58 | L V A S Q P V E H V I S N P V N T N P V N A T V | ISTVPIAAE | L S A F P P S R V I V L G A Y D P R R L F K G V Y D S A R I | G | R L Q Y I R A N A F R S N T F |
| UniRef90_U7PNC0 UniRef90_G8JRX4 | L V I S N P V N L V I S N P V N | ISTVPI VAE | VAGVFNPQRI VLKSYNPKKI | F G V T T L D I V | RAETF |
| UniRef90_A7F894 UniRef90_UPI000333EFC5 UniRef90_Q2M0C5 | L V V S N P D Y A F I T N P I N | KSSANSKL ITI VPI VAE | V | QEGESRLDLV FGVTTLDVV | QRN RSKTF |
| UniRef90_B5DLR9 UniRef90_B9HFT0 UniRef90_U6MS97 | NI I SNPVNI CITNPLE | I A V V A V A M K I S T V P I V F K D A M V Q L M R E | K | | R |
| UniRef90_A1SRP8 UniRef90_G3JIQ4 UniRef90_Q8TG27 | GIITNPVN VIANPVN | ITTVAIAAE ISTV <mark>PIC</mark> AE | V A G V Y N K N K L V F G V Y N P K T L V F G V Y N P K B L | F G V T T L D V V | RAEEF RASRF RASRF |
| UniRef90_I4Y5C3 UniRef90_M5U157 | QVVSNPV IMVTNPV | STVPLVLK DVMTYEALR | KAGVFDANKL LTGFPPERVI | F GVT TL DVT G T G T L V D S I | RASTF RYRSL |
| UniRef90_C4JPI7 UniRef90_I1JZP0 UniRef90_H6C0V9 | QI I S N P V N C V I S N P V N | S | V | - F G V T T L D V V - F G V T T L D V V - F G V T T L D V V | R A E I F R A N T F R A E N F |
| UniRef90_D4AWT7 UniRef90_E0VNQ7 UniRef90_B7PH44 | L V I S N P V N L I T N P I N C I I S N P V N | ISTV <mark>P</mark> IVAE ILMSEIYQA ISTVPIVFK | V | F G V T T L D V L F G L T T L D V V F G V T S L D I V | R A S R F R A N T F R A N A F |
| UniRef90_H0X138 UniRef90_S6ELL2 UniRef90_G3ALW4 | CIIANPVN LLISNPIN | ISTIPITEK ISLVPVLVK | KHGVYNPNKI HAPGLPVRR\ | F G V T T L D V V V V V V V V V | RANTF RASTF |
| UniRef90_UPI00036FAB4F | VASQPVE VVVSNPC | MTYVTWK AVTTVLQR | LSTFPANQVI | | R L Q Y L R L K N Q |
| UniRef90_UPI0003C35567 UniRef90_S9UXP2 UniRef90_S7Q8G0 | G V I S N P V N L V I S N P V N | S | <u>L L GI </u> | - | R A R T F R A S T F |
| UniRef90_B0D7C1 UniRef90_A3GGD9 UniRef90_G8C073 | L V I S N P V N L V I S N P V N | ISTVPIVEK ISTVPIVEK | K A G V Y D P K R L V F G V Y N P K K L Q K G V Y N P K K L | F G V T T L D V V F G V T T L D V L | RSSTF RASRF RSSRF |
| UniRef90_Q9GQB4 UniRef90_A0A023E0G2 | GI I T N P V N V I V T N P V D | ISTAPLASE DLMARFFSD | V L G V Y D P R R A L H P L P S S R L L | F GVT TL DVV G M A GVL D E G | R S N T F R M A Y H |

| | 170 180 190 200 |
|---|---|
| UniRef90_M3Y5C5 UniRef90_W1PZT1 | MGERILIGIVIH PITS CHG WILTIGEHS DS SIVIPIVIWS GIVIN MA GIVISITIK |
| UniRef90_B7GEG9 | YAGKAKVPVEQVNVPVVGGHAGITILPLFSQANPKSNALS AAAHMGVDPASVDVTVIGGHAGITILPL |
| UniRef90_H0XJW4 UniRef90_A8QAQ2 | TALKEGVT ANDVKDVI FWGNYSSNQRPDVNLAKVKPQEYL VSEAAGADAANYHVPVIGGHSGVTLVPLLSQAK |
| UniRef90_UPI0002194E88 | IVIG A A F GIVIT P K SIVIS G Y NILL G E H G N S Q F S A W S T IVIRIV L IE Q P I I K |
| UniRef90_J1L2Z3 UniRef90_C8W8Q2 | L G K E G T S G A A S V L G E H G E H Q V P V F S R L E T A V P A I K L S G A T G Y P A S C I N A WML G E H G N G M F A C W S H V S I G C L T L D |
| UniRef90_S0PFX9 | LSGATGYPASCI NAWMLGEHGNGMFACWSHVSIGCLTLDLSLAFEVAPNTIRAL VLGEHGATQFVPWDYVKSINPQLDVAKVVNVNVADVRGFN MGEHGESQFTAWSTVRVNNKPIT |
| UniRef90_X0PNT7 UniRef90_UPI0002EDBDA9 | VARKIVNI DPNSVDGYVI AEHGNSQFVAWSQVSI ATKPI IV |
| UniRef90_J9MUG9 | VASRGSVSPSSI GVEVVGVHGEDQVTAWSTATVGAVPIS |
| UniRef90_I2K090 UniRef90_G8AFF4 | I SETVGSDPTEEDVTVVGGHSGLTLVPLISKTQYKGKIPKLADRLGVTPKSVHAHVV GEHGDSEVLLWSGATVACLPVDLARKMKTSPSYLKDVIIWGNISGNCYVDLRKAKIYKYESA |
| UniRef90_L5M759 UniRef90_G3PB62 | LARKMKTSPSYLKDVII WGNISGN <mark>CYVDL</mark> RKAKI YKYESA LDINLNTH KPAWVIGELSDNKVAVMSSSGVQPEIAA |
| UniRef90_U1P0Q4 | IVIS EIL IK GILIDIVIT K T RILIPIV LIG G H S GIVITIL LIPIL LIS R M E P S C K E S D |
| UniRef90_G9D9T4 UniRef90_A5IYS9 | LSQALGCNANEVEGMVIGGHGDTTMIPLARLATYKGQPVS LAAKFNTSPDALRAS VLGEHGATAMIAWSTVKVGETTLE VAENQGTDVLQTNVITVVGGHAGTTILPLLSQVKGASFTPD |
| UniRef90_W7TN59 | VAENQGT DV LQT NVT V V G G H A G T T T L P L L S Q V K G A S F T P D |
| UniRef90_G0U5Q4 UniRef90_I2H0J8 | VAEATGKNSYDIDVPVVGGHSGPTIIPLISQS ISELQNTDPTKEFVSIIGGHSGLTIIPLLSQTKYSEELTP |
| UniRef90_UPI00032B18D7 | I IT NIV I IO A O T S G K DIV IWIV I IG E O G E N K IV IP M W S G O E A IV IS P N |
| UniRef90_G3NRT5 UniRef90_H2LKU0 | V A E L K G D P A R V N V P V G G H A G K T I I P L I S Q C T P K V E F P A V A E K L G V R P T E V T E V V W G N L S G L S Y I D L Q R A K V F N F P Q P A T T T T T T T T T |
| UniRef90_UPI0004560059 UniRef90_B2VVR8 | VAELKGLDPARVNVPVIGGHAGKTTIPLTSQCTPKVEFPAVAEKLGVRPTEVTEVIVWGNISGLSYIDLQRAKVFNFPQPISEAAGKPTESLKYKIVIGGHSGVTIVPLISQSQPSIDVSVAEITGKNPGKLYIPVIGGHSGATIVPLFSQAKPSVELPA |
| UniRef90_S7NGU8 | VAELKGLDPAKVNVPVIGGHAGKIII I PLISQUI |
| UniRef90_M2P8M6 UniRef90_M3A4J1 | II IA GIVIT N N H P K D T GIVITIV VIG G H S G K TII VIPII I IS Q T A Y |
| UniRef90_R5EP55 | L A E E L G I S N Q R I L V P V V G G H S G T T I V P L I S K |
| UniRef90_Q2GZ74 UniRef90_F7YI57 | VSEIKKTDPAD <u>EK</u> ITVVGG <mark>H</mark> SGVTIVPLFSQSN VAALKDKNPSEI <u>I</u> VPVIGGHSGVTILPLLSQLEGVEFTAE |
| UniRef90_C1E4V8 UniRef90_M1ANW2 | VISRSKGGDPNTII DII PVVGGGHAGIVITII LIPILLISQTRP |
| UniRef90_I2G4Q4 | VAEVLGLDPREVDVPVVGGHAGVTILPLLSQLKPPCSFTPLSGISGKKPSETIVPVVGGHSGVTLVPLLSQANGG |
| UniRef90_G3B7S5 UniRef90_L9WNH6 | LSGISGKKPSETIVPVVGGHSGVTIVPLLSQANGG LGDLVGEPAPEVKGRIVIGGHSGDTIIPLVNITTSISQKV IGELRDVDPETV YCPVMGEHGNGIVPIFSKLRIDGEPAT |
| UniRef90_W1QGV6 | LSEVVGTNPVHEHVTVVGGHSGTTLVPLTSQTNHKNCPKE |
| UniRef90_UPI0003B50BAF UniRef90_A8P7W6 | L S E V V G T N P V H E H V T V V G G H S G T T I V P L T S Q T N H K N L P K E V G Q A L K L D P R S V S G Y N L G E H G N S Q F T A W S T V R V L N Q P I V V G E V T G K N P L D T P L T V V G G H S G P T I V P L L S Q S P T G K T I S G |
| UniRef90_W6TEZ3 | |
| UniRef90_A1C5Q5 UniRef90_A0A044V6R7 | VAKTTGVAPDSVDLY VAKTTGVAPDSVDLY VAEAKNLDVEQTNIPVIGGHAGITIIPILSQVKPSCKFSD |
| UniRef90_E9CGM0 UniRef90_D0NME3 | VAQARDLDPQAVNVPVIGGHAGITILPLISQSSP VADNQKWNPRDTNVKVIGGHAGTTILPLLSQLQGGKFSDE |
| UniRef90_A4YDY0 | II IA K KII IKII IPIVIT SIVI D G FIVIG G F H G F D AIV V I IWS TIVIKII IK G K PIVID |
| UniRef90_W5EVZ9 UniRef90_W5KN17 | VAEVLGVDPREVNVPVVGGHAGVTTLPLLSQVSPPCSFTP VAELKGLDPARVNVPVIGGHAGKTIIPLISQCT |
| UniRef90_UPI00035980A2 UniRef90_M2MIZ4 | I A E A K G L D V N K V F C P V I G G H S G L T I V P V I S Q C S I S Q L K N T D P A N E N I T V V G G H S G A T I V P L L S Q A |
| UniRef90_O48906 | VAQKKNLRLIDVDVPVVGGHAGITILPLLSKTK |
| UniRef90_D8MB90 UniRef90_O81279 | LA E A LGME PS A CNL PVI GGHAGTTI I PLLSQLPDNK A KLYAGKANVPVAGVNAPVVGGHAGLTI LPLFSQATPKALFDD |
| UniRef90_C8V0H6 | T Q E F S G K D P S A IVIT IVIPIV V IG G H S G E T II V IPIL IF S K IV IS P A F Q II IP A |
| UniRef90_U1GAT6 UniRef90_A0A058Z1L7 | VQDITGERDPSKTVIPVIGGHSGTIVPLFSQAK VAGKKDVDPTTLKVPVIGGHAGTTILPLLSQNSA ITNVLKARISG KEVWVIGEQGEDKVSIWGSQEGLSHN |
| UniRef90_UPI000443E8AE UniRef90_C5X371 | I T NV L K A R I S G K E V W V I G E Q G E D K V S I W G S Q E G L S H N |
| UniRef90_UPI0003768E58 | VAETQGLNPEDYEVPVIGGHSGLTILPLL SQSGCEFT |
| UniRef90_U7PNC0 UniRef90_G8JRX4 | V A E V G A N P Q E L I V P V G G H S G E I I V P L F S Q V K P S V S I P A I S E L Q G T D P T Q E Y V P V G G H S G I T I I P L I S D T D H K I P K F |
| UniRef90_A7F894 | V A G K K D V D P T T L K V P V I G G H A G T T I L P L L S Q N S A I T N V L K A R I S G K E V W V I G E Q G E D K V S I W G S Q E G L S H N V A A R K G L P V A E V D V P V V G G H A A A T I L P L L S K A R V A E T Q G L N P E D Y E V P V I G G H S G L T I L P L L S Q S G C E F T V A E I V G A N P Q E L T V P V I G G H S G E T I V P L F S Q V K P S V S I P A I S E L Q G T D P T Q E Y V P V I G G H S G I T I I P L I S Q T Q H K I P K E V S E I K K T D P A D E N I V V V G G H S G V T I V P L F S Q S S V N I M K S I I P P L V Q H C I M L L V S N P V P L W S G V N V A G V P L K L G E S G V E P E E V T I P V I G G H A G L T I L P V L S Q C D |
| UniRef90_UPI000333EFC5 UniRef90_Q2M0C5 | VNIMKSI I PPL VQH <mark>C</mark> I ML VSNPVPL WSGVNVA GVPLK LGESLGVEPEEVTI PVI GGHAGLTI LPVLSQCD IGDHMSI HPGKVRI PVI GGHAGTTI VPI FSQCQ VAEIMGLDPREVDVPVVGGHAGVTI LPLLSQVKPLCSFTQ |
| UniRef90_B5DLR9 UniRef90_B9HFT0 | II IG D H M S II IH P G K IV IR II IPIV I IG G H A G T T II V IPII IF S Q C Q IV A E I M G L D P R E IV D V P V V IG G H A G V T II I I I I I I S O V K P I C S F T O |
| UniRef90_U6MS97 | LAQRIRVSVADVQAM |
| UniRef90_A1SRP8 UniRef90_G3JIQ4 | V A E L K G L P S E D V R V N V G G H S G T T I L P V L S Q L Q G V S F T D Q V S A I K G T D P K D E N I T V V G G H S G V T I V P L F S Q S S |
| UniRef90_Q8TG27 UniRef90_I4Y5C3 | I SEVKNTDPANEEVTVVVGGHSGVTIVPLTSQSNIAESSGKPTEGPNYTVVYGGHSGTILPLISQAQPKTELQK |
| UniRef90_M5U157 | LSAELQIHADDIRAY I LGEHGDDQFAAYSVAMTGGEKFF |
| UniRef90_C4JPI7 UniRef90_I1JZP0 | TKEFSGQKDPSKTVIPVIGGHSGTIVPMFSQAKPAFNLPA VAQRKNLKLIDVDVPVVGGHAGITILPLLSKTR |
| UniRef90_H6C0V9 UniRef90_D4AWT7 | VAELLGQKDSSKFNI PVVGGHSGNTI VPLFSQTQPSVNIP VSELKNTDPADEKI PVVGGHSGVTL I PLISQSN |
| UniRef90_E0VNQ7 | |
| UniRef90_B7PH44 UniRef90_H0X138 | V G E V V R K D P N D I I V P V I G G A S Q E T I V P V I S Q M P C C R K R N V A E A K G L D P A T V N V P V V G G H S G V T I V P L L S Q A T V A E L K G L D P A R V N V P V V G G H S G V T I V P L L S Q C T P K V D F P Q L H E R A G S T P K S N T Y V P V I G G H A G K T I I P L I S Q C T P K V D F P Q L H E R A G S T P K S N T Y V P V I G G H S G D T I V P L I N Y D S E I S N K A K L T N V L N A Q T G G K E V W V I G E Q G E D K V A T W G G Q E V M N H S Q A M A K A S G L A P Q S I Q G Y V L G E H G D S Q F T A W S T V N L A E H M G V D P R Y V E V P V I G G H S G E T I V P L L S K Y P E L S A E Q V V S E I L G S L A P S I K V P V V G G H S G V T I V P L L S Q S S V A E K I G S L S K D V V V P V V G G H S G V T I V P L L S Q S S V S E I L G S L A P S I K V T V V G G H S G I T I V P L L S Q S S V S E I A G T N P V N E K V T V V G G H S G I T I V P L L S Q T N I S E I V N T D P T T E K V D V V G G H S G I T I I P L L S K T K Y Y I A E A K G L D V S K T N V P V I G G H S G I T I I P L L S Q C T P P V S F P P I K A F S G L K G Q S V R P C V I G P H S D R M V P L Q A I K V G P G N L Q |
| UniRef90_S6ELL2 | LHERAGSTPKSNTYVPVIGGHSGTIVPLFSLVPGASDLSK |
| UniRef90_G3ALW4 UniRef90_H0VKG6 | I T N V L N A Q T G G _ K E V WV I G E Q G E D K V A T W G G Q E V M N H S Q A |
| UniRef90_UPI00036FAB4F | MAKASGLAPQSIQGY VLGEHGDSQFTAWSTVN |
| UniRef90_UPI0003C35567 UniRef90_S9UXP2 | VS E A I G K A P V E V D V P V I G G H S G E T I V P L L S K Y P E L S A E Q V |
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| UniRef90_UPI0003C35567 UniRef90_S9UXP2 UniRef90_S7Q8G0 UniRef90_B0D7C1 UniRef90_B0D7C1 UniRef90_G8C073 UniRef90_Q9GQB4 UniRef90_A0A023E0G2 | A A A E F A D A A L R A L K G E Q V A V Y T F V K S E V N P K C E Y F S S L V E A E F A E K L L R A A K G E K G I V A P T Y V H L S K E I G K D L D Y F S A P V A I L R A V K G E E G I V A P S Y V S L E A D P V G E L G A E L A Y F S S N I E A R F A G A V L D G L S G E K D V I E P S F V D S P L F K S E G V E F F S S K V A R F A D S V L R G F A G E K N V I E P S F V D S P L F K S E G I E F F A S P V A E F C K S L I E A L N G Q E G K V Q C A Y V R S E T E A K Y F A T P V S A C F R M |

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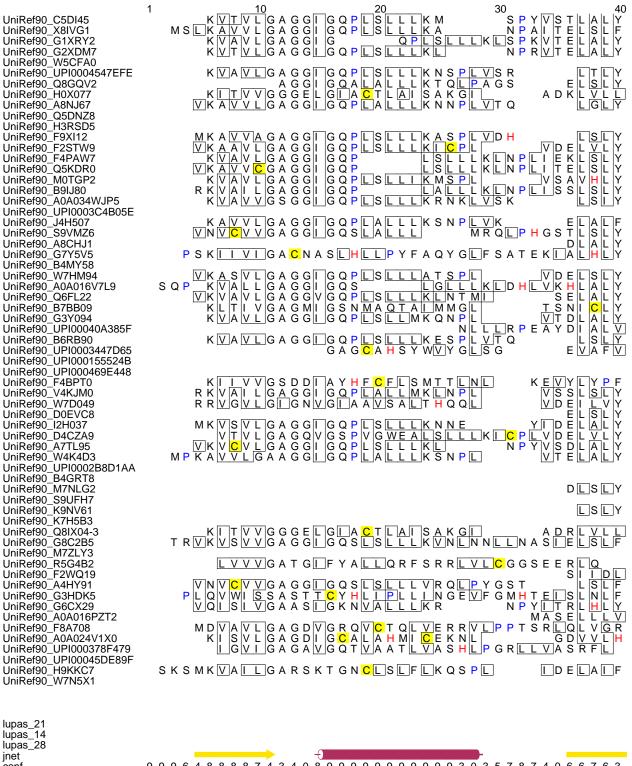
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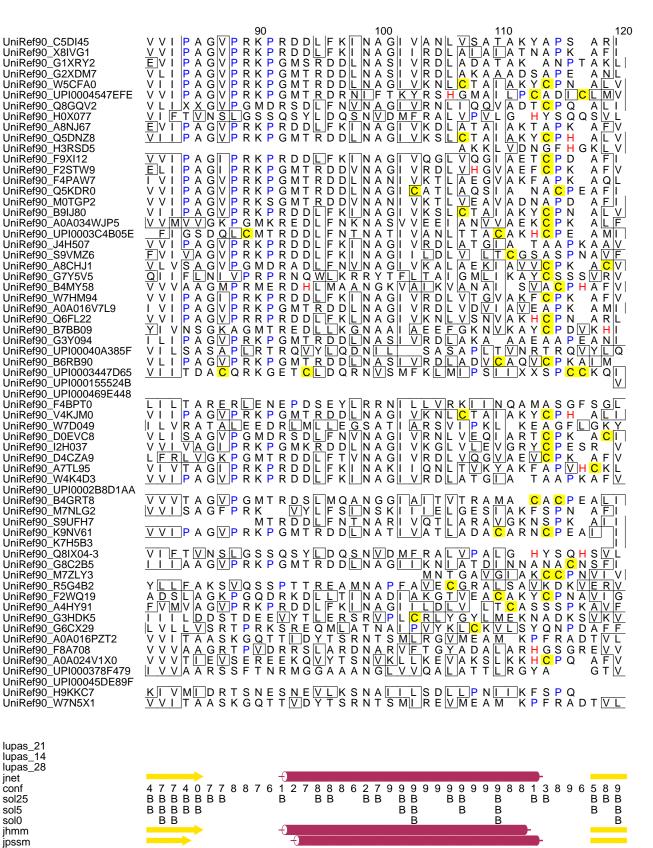
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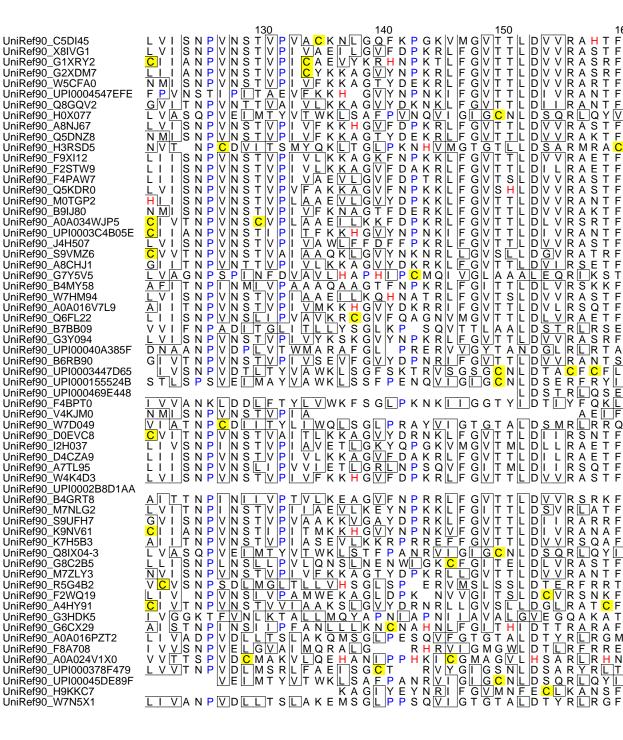
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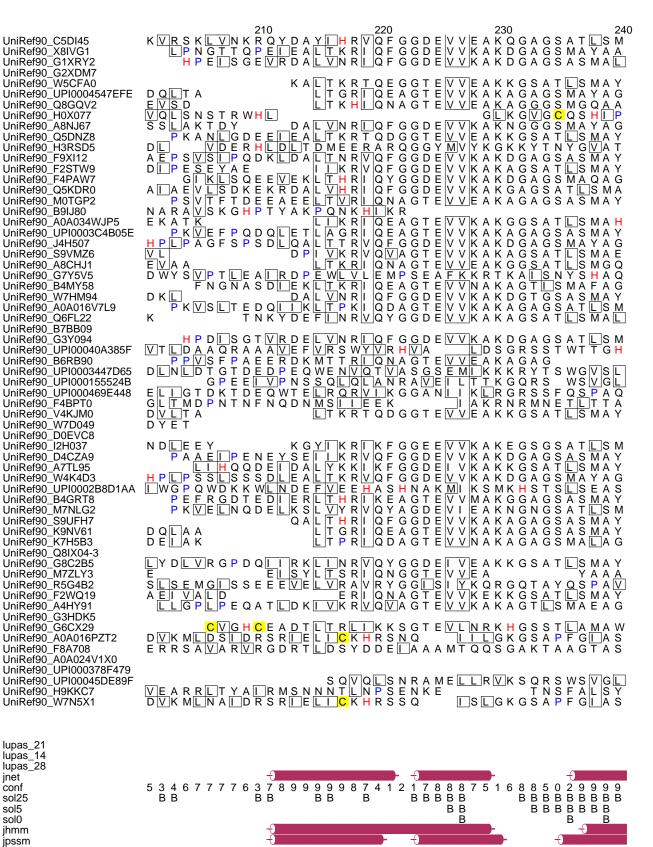
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