| QUERY UniRef90 UPI0002B49E89 | 1 10 20 30 LPSYVDWRSAGAVVDIKSQGECGGCWAFSAI ATVEGLPESMDWRTRGAVAPVKNQGSCGSCWAFSTI AAVEG | 40 N K N Q |
|--|---|-------------------------------|
| UniRef90_A0A059BXH3 UniRef90_T1J339 | 10 | N Q I Q H F R |
| UniRef90_I1ILW5 UniRef90_R4WD68 UniRef90_B4FS90 | L P S N V D WR K K G A V I P V K N Q G Q C G S C WA F S T I A A V E S L P S N V D WR K K G A V I P V K N Q G Q C G S C WA F S S T G A V E S | NKI QHFR VNQI |
| UniRef90_Q6J270 UniRef90_A0A059B053 | L PVSVDWRKKGAVTPVKNQGQCGCCWAFSAVAAI EGLPEAVDWRLKGAVNPVKDQGTCGSCWAFSTVAAVEG | |
| UniRef90_A5HII7 UniRef90_J9QSA1 UniRef90_Q1EP12 | L P K T V D WR K K G A V T P V K D Q G C G S C WA F S A T G S L E G V P D S V D WR S K G A V T P V K D Q G C G S C WA F S A T G S L E G V P D S V D WR S K G A V T P V K D Q G L C G S C WA F T V V A A V E G | NKI QHFL TKI |
| UniRef90_M8BM33 UniRef90_UPI00032ABD9A | L P K S V D W R K K G A V T E V K N Q G Q C G S C W A F S T V A A V E G V P A A L D W R Q K G A V T P I K D Q G Q C G S C W A F S A V A A T E G | I NAI |
| UniRef90_Q9FGR9 UniRef90_B9HH86 UniRef90_UPI0002659950 | L P A E V D WR G K G A V N P I K D Q G S C WA F S T V A A V E G L P A E V D WT Q K G Y V T E V K N Q G Q C G S C WA F S T T G S L E G | I NQI I NQI QVFK |
| UniRef90_V4UK98 UniRef90_M1XYA5 | V P A S I D W R K N G A V T G V K D Q G Q C G C C W A F S A V A A ME G L P N E V D W R K H G Y V T P I K D Q G Q C G S C W S F S A T G S L E G | Q H F R |
| UniRef90_UPI000383330D UniRef90_V4THV9 UniRef90_B6TLR1 | V P A T M D W R K N G A V T P I K N Q G P C G S C W A F S A V A A T E G V P A S V D W R Q K G A V T D V K D Q G Q C G S C W A F S T I A A V E G | QVKL TQL NAI |
| UniRef90_A0A059ALL9 UniRef90_K3W7R0 UniRef90_I1PJE6 | L P A A V D W R T K G A V N K V K D Q G A C G S C W A F S T L A A V E G L P E N V D W V E K G A V T P V K N Q G Q C G S C W A F S T T G A V E G L P A S V D W R G K G A V N P V K D Q G D C G C C W A F S A V A A M E G | I N Q I A A F V A V K L |
| UniRef90_R4FQ86 UniRef90_l3J685 | L P A S L D WR K N G A V T P V K D Q G Q C G S C WA F S T T G S L E G L P D T V D WR D K G Y V T E V K D Q K Q C G S C WA F S T T G V L E G | QLFL QHFR DNQL |
| UniRef90_K7UVN9 UniRef90_H2MAW2 UniRef90_UPI000234FE62 | L P A S V D WR G K G A V N P V K D Q G D C G C C WA F S A V A A M E G L P A S L D WR K N G A V T P V K D Q G Q C G S C WA F S T T G V L E G L P A S L D WR K N G A V T E V K D Q K Q C G S C WA F S T T V A A V E G C P A A V D WR D K G Y V T E V K D Q K Q C G S C WA F S T T V A A V E G C L P W S V D WR K K G A V T P V K D Q K Q C G S C WA F S T T V A A V E G C L P W S V D WR K K G A V T P V K N Q G E C G S C WA F S T T V A A V E G C L P W S V D WR K K G A V T P V K D Q G Q C G S C WA F S T T V A A V E G C L P W S V D WR K K G A V T Q V K D Q G Q C G S C W A F S T T V A A V E G C L P T E V D WR K K G A V T Q V K D Q G Q C G S C W A F S T T V G S L E G C L P T S V D W R K K G A V T Q V K D Q G Q C G S C W A F S T T G S L E G C L P T S V D W R K K G A V T P V K D Q G Q C G S C W A F S T T G S L E G C L P K S V D W R K K G A V T P V K D Q G Q C G S C W A F S T T G S L E G G V P D T V D W R K K G A V T P V K D Q G Q C G S C W A F S T T G A L E G G L P S S L D W R K K G A V T P V K D Q G Q C G S C W A F S T T G A L E G G L P S S L D W R K K G A V T P V K D Q G Q C G S C W A F S T T G A L E G G L P S S L D W R K K G A V T P V K D Q G Q C G S C W A F S T T G A L E G G L P S S L D W R K K G A V T P V K D Q G Q C G S C W A F S T T G A L E G G L P S S L D W R K K G A V T P V K D Q G G C C W A F S T T G A L E G G L P S S L D W R K K G A V T P V K D Q G G C C W A F S T T V A A V E G G L P S S L D W R K K G A V T P V K D Q G G C C W A F S T T V A A L E G G L P T T V D W R T K K G A V T P V K D Q G G C C W A F S T T V A A L E G G L P T T V D W R T K K G A V T P V K D Q G G C C W A F S T T V A A L E G G C V T P V K D Q G G C C W A F S T T V A A L E G G C C W A F S T T V V A A V E G A L E A C W A F S T T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A L E A C W A F S T V V A A V E G A C W A F S | NQL QTFR NQI |
| UniRef90_UF10002341 E02 UniRef90_Q6F6A7 UniRef90_UP100042B244C | L P Q S V D WR E K G A V A P V K D Q G Q C G S C WA F S T V A A V E G V P A S I D WR N K G A V T Q I K D Q G H C G S C WA F S T V A A V E G | I N Q I L A K L |
| UniRef90_T1G9A2 UniRef90_W9RKI3 UniRef90_Q9SUS9 | V P A S I D W R N K G A V T Q I K D Q G H C G S C W A F S T V A A V E G L P T E V D W R K K G L V T Q V K D Q S Y C G S C W A F S T T G S L E G L P T S V D W R K K G A V T G I K D Q G N C G S C W A F S A V V A V E G L P K S V D W R N E G A V T G I K D Q G N C G S C W A F S A V V A V E G | Q H M R V N Q I L N K I |
| UniRef90_W1Q0E8 UniRef90_W4Y020 | L P K S V D WR N E G A V T E V K D Q G C R S C WA F S T V G A V E G V P S A V D WR L K G A V T P V K D Q G Q C G C C WA F S A V A A I E G V P D T V D WR T K G Y V T P V K N Q G Q C G S C WA F S T T G S L E G | QTFK |
| UniRef90_Q43423 UniRef90_W5EEA4 UniRef90_M5XEM6 | V P D T V D WR T K G Y V T P V K N Q G Q C G S C WA F S T T G S L E G L P E S V D WR K K G A V S H V K D Q G Q C G S C WA F S A T G A V E G L P A T M D WR A K G A V T P V K D Q G Q C G C C WA F S A V A A T E G L P S S L D WR K K G A V T N V K D Q G S C G A C WA F S T T G A I E G L P S S L D WR K K G A V T N V K D Q G S C G A C WA F S T T G A I E G | |
| UniRef90_B4KQX9 UniRef90_K3YC46 | L P D S F D WR E K G G V T P V K F Q G D C G S C WS F A A T G A L E G L P T T V D WR T K G A V T P L K N Q G Q C G C C WA F S A V A A ME G V P P T V D WR K K G A V T P V K D Q G K C G S C WA F S T V V A V E G | HVFR VKL |
| UniRef90_B2CDE1 UniRef90_F7DW05 UniRef90_K1R5E7 | V | QVKL QHFR NKI |
| UniRef90_B9HLD6 UniRef90_Q7F3A8 | ILIPRAIVID WRRKGAIVIT GIVIK DOGKCGSCWAFSTIV VISIVIFG | I N K I I N A I |
| UniRef90_G9F9V4 UniRef90_M3ZNL6 UniRef90_A2BF64 | L P K S V D WR Q K G A V T P V K D Q G Q C G S C WS F S A T G S L E G L P T S V D WR T S G L V G P V R N Q G L C G S C WA F S A L G A L E G V P D T L D WR D K G Y V T S V K N Q G A C G S C WA F S S V G A L E G | NAI QLFL QMKR QLMK |
| UniRef90_UPI00042B1198 UniRef90_Q3YPH2 | L P D S I D WR E K G A V A A V K D Q G G C G S C WA F S A L A A V E G | INKI QHAR |
| UniRef90_V4L944 UniRef90_Q70EW9 UniRef90_V4L5V2 | A A V D WR K Q G A V T P V R N Q G R C G G C WA F A A V A A I E G L P S K F D WR E K G A V T E V K D Q G S C G S C WA F S T T G T V E G V P S V D WR E K G A V T D V K N Q Q D C G S C WA F S T V A A V E G L P K S V D WR E K G A V T D V K N Q Q D C G S C WA F S T V A A V E G L P D S I D WR E K G A V T G V K D Q G S C G S C WA F S T I A A V E G L P D S I D WR E K G A V T G V K D Q G S C G S C WA F S T I A A V E G I P A A L D WR T K K A V T P V K D Q G S C G S C WA F S A V A A WE G | I N Q I A Y F L |
| UniRef90_H2ZRS7 UniRef90_A2PZE2 | L P K S V D WR E K G C V T S V K Y Q G S C G A C WA F N S V G A L E G L P D S I D WR E K G A V T G V K D Q G S C G S C WA F S T I A A V E G | QLKI VNQL |
| UniRef90_A0A059CCE2 UniRef90_Q3ZCX6 UniRef90_G7ITE7 | | QHYK |
| UniRef90_B9SGK5 UniRef90_UPI00035A2B52 | L P Y S M D W R R K G A V T S I K D Q R E C G S C W A F S A V A A T E G L P D S V D W R R K G F V T P I K D Q G Q C G S C W A F S A I G S L E G | V H K L Q H F N |
| UniRef90_V4MPP9 UniRef90_G4Y630 UniRef90_A9U938 | L P D S V D WR R K G F V T P I K D Q G Q C G S C WA F S A I G S L E G L P E S V D WR N E G A V S E I K D Q G T C N S C WA F S S V A S V E G L P A S V D WR K Q G A V T G V K N Q G K C G S C WA F S T V V G V E G L P K N V D WR T K G A V T P I K D Q G Q C G S C WA F S A T G A L E G | I N K I I N K I Q T F R |
| UniRef90_V7AGS7 UniRef90_UPI0003C29356 | | L H H I QL K L |
| UniRef90_W4FUA9 UniRef90_A5AUR6 UniRef90_G8A001 | V | TQI |
| UniRef90_UPI0002657C81 UniRef90_C5Z8C8 | D Y WLE G Y V T P V K D Q G Q C G S C WA F S T T G S L E G L P D A V D W R Q Q G A V T G V K N Q L D C G G C WA F S A V A A M E G V P D S I D W K K G A V N L I K D Q G Q C G S C WA F S A V A A V E G | Q H F K |
| UniRef90_A0A059C6R8 UniRef90_UPI00005EC1BE UniRef90_I1KEJ5 | L P | Q W F R |
| UniRef90_UPI0002657694 UniRef90_F0WE78 UniRef90_H2ZK39 | L S E A I D W R Q Q G Y V T P V K N Q G N C G S C W A F S A T G A V E G L P E S V D WVE K G A V T G V K N Q G M C G S C W A F S T T G A I E G P T S V D W R K K G F V T P V K D Q K Q C G S C W A F S T T G S L E G I P E S V D W R E K G A V T P V K D Q G G C G S C W A F S T T G S V E G | QHFK ATFL |
| UniRef90_R4WEB5 UniRef90_I3J400 | I PESVDWRKKGFVIFVKDQKQCGSCWAFSTTGSLEG I PESVDWREKGAVTPVKDQGGCGSCWAFSTTGSVEG L PNTVDWRDKGYVTEVKDQKQCGSCWAFSATGALEG | QHFR |
| UniRef90_I3J674 UniRef90_O02586 UniRef90_W4YG80 | L PKTVDWRKQGYVTKVKHQKECGSCWSESANGALEG | QHFR AIQI QQFK |
| UniRef90_K7QTY9 UniRef90_R4WMP3 | L P | QTFK Q <u>H</u> FR |
| UniRef90_UPI0003C44A3C UniRef90_T1FNC9 UniRef90_Q6DJC1 | | QLKK QHFR QLML |
| UniRef90_UPI0003299CB5 UniRef90_V4W908 | L PASV D WR D K GL V T PV K K Q G C C C WAFS A G A L E G L P R S I D WR A R G A V T PV K K Q G C C C WI F S A V A A V E G P F MVD WR K K G A V T R I K D Q G Q C G C C WAFS A V A A I E G | QLKK ITKI |
| UniRef90_UPI0003D2975D UniRef90_F2DJL2 | P F MVD WRKKGAVTRI KDQGQCGCCWAFSAVAAI EGSMD WRAMGAVTGVKDQGSCGCCWAFSAVAAVEG | L N K I L T K I |

| | 90 100 110 120 |
|--|---|
| QUERY UniRef90_UPI0002B49E89 | G G |
| UniRef90_A0A059BXH3 UniRef90_T1J339 | GGL HKEEDYPYTMEEGTCEMTKDQSEVVTTTGYKDVPVNN GGLDTEDSYKYEMQVGPCRFKKSSVGATVTGFVDVTTGDE |
| UniRef90_I1ILW5 UniRef90_R4WD68 | G G V T S E A N Y P Y Q G Q Q N T C D Q A K E N T H D VA I D G Y E D V P A N D H G I D T E K S Y P Y E G E D E Q C R F Q R R S I G A T D T G F M D I P Q G D E G G I D T E D D Y P Y R A V D G K C D M N R K N A R V V S I D G F E D V P E N D |
| UniRef90_B4FS90 UniRef90_Q6J270 | GGI DTEDDYPYRAVDGKCDMNRKNARVVSI DGFEDVPEND GGLTTESNYPYKGEDGTCNFNKTNPLAVSI TGYEDVPAND |
| UniRef90_A0A059B053 UniRef90_A5HII7 UniRef90_J9QSA1 | G G L T T E S N Y P Y K G E D G T C N F N K T N P I A V S I T G Y E D V P A N D G G M D T E Q D Y P Y N G I G G K C D A S R V N S K V V T I D G Y E D V P P Y E G G I N T E D N Y P Y T A Q D G Q C D W Y R K N Q R Y V T I D N Y E Q L P A N N D G I D T E E S Y P Y E A M D G D C R F K K E D V G A T D T G F V D I Q Q G S E |
| UniRef90_Q1EP12 UniRef90_M8BM33 | GGI TSEANYPYEEWQRLCNAHNASFVVATIESHEDVPTND GGLHTE <u>EA</u> YPYLM <u>E</u> EG <mark>C</mark> GDAKKAESE <u>AV</u> TISGFEDVPAND |
| UniRef90_UPI00032ABD9A UniRef90_Q9FGR9 | K G L T T E V V Y P Y Q G V D G T |
| UniRef90_B9HH86 UniRef90_UPI0002659950 | G G L D T E K D Y P Y L G N D D T C D R D K M K T K A V S I D G F E D V L P F D G G I D T E A A Y P Y T G S D G T C R F L E N K V G A T V S G F V D V K S G D E |
| UniRef90_V4UK98 UniRef90_M1XYA5 | GGIDTEAAYPYTGSDGTCRFLENKVGATVSGFVDVKSGDEKGLATEAKYPYKASDGSCNKKEANPSAAKISGYEDVPSNNGGIMSEADYPYKHVKGNCSYNRNRAVAHAVSYVNIPPQNENGIDADDAYPYRAENGTCQYNASARAATCSKYIELPYADE |
| UniRef90_UPI000383330D UniRef90_V4THV9 UniRef90_B6TLR1 | N G I D A D D A Y P Y R A E N G T C Q Y N A S A R A A T C S K Y L E L P Y A D E D G I T T E A N Y P Y Q A A D G T C N K T K E A S H V A K I K G Y E T V P A N S G G V A A E D A Y P Y R A R Q A S C K K S P A P V V T I D G Y E D V P A N D |
| UniRef90_A0A059ALL9 UniRef90_K3W7R0 | G G D T E E D Y P Y L G V D G T C D A S G V T S K V V S D G Y E D V P A F A G G C S D T E Y E Y H A Q Q S T C R T C K E |
| UniRef90_I1PJE6 UniRef90_R4FQ86 | G G L A A E S D Y P Y T A S D D K |
| UniRef90_I3J685 UniRef90_K7UVN9 | G <u>L R</u> S E E A Y P Y <u> L </u> M E E G D <mark>C</mark> D D R A R D G <u>E V L V </u> T <u> L </u> S G <u>Y E D V </u> P A N D |
| UniRef90_H2MAW2 UniRef90_UPI000234FE62 UniRef90_Q6F6A7 | GGI DTEESYPYEAEDGECRYKPDAVGATCTGYVDVSSGDE LGI HTDDDYPYLMEEGYCKEKQPQSKVVTI SGYEDVPENS GGI DTEDDYPYKGVDGQCDQNRKNAKVVTI NGFEDVPQND |
| UniRef90_UPI00042B244C UniRef90_T1G9A2 | H GIL IA E E T R Y P Y K K K D G T C S P R K A AII IK AIVIQII L IG Y E DIVIP H K N |
| UniRef90_W9RKI3 UniRef90_Q9SUS9 | GGI TTEKNYPYQARDGT <mark>C</mark> DSSRTNAPLVVI DGYEMVPEND |
| UniRef90_W1Q0E8 UniRef90_W4Y020 | HGLTTEKKYPYQAADGTCNSNALAYHVATIKGYKDVPANN HGIDSEDCYPYDAEDETCHYKASCDSAEVTGFTDVTSGDE |
| UniRef90_Q43423 UniRef90_W5EEA4 UniRef90_M5XEM6 | G G I D T D K D Y P Y K A T D G S C D S N R K N A K V V T I D G L E D V P A N N G G L T M E S S Y P Y T A A D G K C K A G S N S A A T I T G F E D V P A N N N G I D T E E D Y P Y K G W D D T C I K K K L K R N A V T I D D Y T D V P S N D |
| UniRef90_B4KQX9 UniRef90_K3YC46 | DGI AVGSKYPYIVIDKKDT <mark>C</mark> KYTSSI ISGAOII ITGEAIVI I <mark>PPK</mark> DE |
| UniRef90_B2CDE1 UniRef90_F7DW05 | GGI NTEENYPYMAEGGE <mark>C</mark> DIOKRNSPVVSI DGHEDVPPND |
| UniRef90_K1R5E7 UniRef90_B9HLD6 | NGI DSDADYPYKAKDGQCQYNPASRAATCSKYTELPYGSEGGLESEEDYPYKPKQGTCKFDDTKVAATDTGCVDVESGSEGGLTSENTYPYRAKEEPCDSNKMNSPVVNIDGYEMVPENDGGITTESAYPYRAANGTCDAVRARRAPVVIDGHQNVPANS |
| UniRef90_Q7F3A8 UniRef90_G9F9V4 UniRef90_M3ZNL6 | K GILID LESSYPYEARDYA <mark>C</mark> REKKDKWGGGLDKGYWDILIPEGDE |
| UniRef90_M32N20 UniRef90_A2BF64 UniRef90_UPI00042B1198 | GGVDSESSYPYEHQNGKCRYSLQGKAAHCSNFHVLPRGNE GGIDSESSYPYQGTQGSCRYDPSQRAANCTSYKFVSQGDE GGIDTEEDYPYTGRDGTCDPYRKNARVVSLDAYEDVPVND |
| UniRef90_Q3YPH2 UniRef90_V4L944 | N G V D K E L D Y P Y K A K T G K K C L F K R N D V G A T D T G F F D I E G D E G G L T T E T D Y P Y T A A E G T C D Q E K A K N K V V T L Q G Y Q K V A Q N E |
| UniRef90_Q70EW9 UniRef90_V4L5V2 | G G I M S E N D Y P Y E G [D D K <mark>C</mark> R F D S S K V A A K I S N F T Y [K K N D E G G I K T E E T Y P Y N P Y D [G F C R K N [E G E T V T I] D G H E H V P E N D |
| UniRef90_H2ZRS7 UniRef90_A2PZE2 | K G I D S D A S Y P Y V A Q D R P C R Y N P A N K A A T C S S Y Q E L P Y G S E G G I D S E E D Y P Y T G K D G C D S Y R Q N N A K V A S I D G Y E E V P V N N |
| UniRef90_A0A059CCE2 UniRef90_Q3ZCX6 UniRef90_G7ITE7 | G G L T T E A N Y P Y Q G I D G T C N T A K T A N Q A A S I T G Y Q D V P A N N K G I D T E A S Y P Y K G R D G R C R F K S E D V G A T D T G F V D I P E G N E N G L S T E A E Y P Y Q G V D G T C N K T E V G S S A A T I S G Y E N V P V N D G G I T T E A N Y A Y R G R D G K C D T K K E A S H V A K I T G Y Q V V P E N S |
| UniRef90_B9SGK5 UniRef90_UPI00035A2B52 | K GII ID I E K S Y P Y K P E D R P C N F K S A D IV IG A R E K A F Q D IV I I S G S E |
| UniRef90_V4MPP9 UniRef90_G4Y630 | N G L D S Q M N Y P Y N A V Q G C N H Q K N N S T K L V T L D G Y E D V P A N D G G L T T E R L Y P Y K A R D G S C D S S K M N A P A V T L D G H E M V P A N D |
| UniRef90_A9U938 UniRef90_V7AGS7 | G G I D T E E S Y P Y D A E D E K C H Y N P R A A G A E D K G F V D V R E G S E G G I A S E T Y Y P Y K G V N K S C K V K K E S H G V A K I K G Y E K V P G N S N G I D S D S A Y P Y T A Q N G R C H Y D A A T R A A T C S R Y F D L P Y G D E |
| UniRef90_UPI0003C29356 UniRef90_W4FUA9 UniRef90_A5AUR6 | KGL CKEEDYTYHA NASVICTVESCTPVTKVLGYYDVIT 9ND HGLASEATYPYEGDDGTCNSKKEAHPAAKI KGYEDVPANN |
| UniRef90_G8A001 UniRef90_UPI0002657C81 | G G L T T E Q D Y P Y E G V D G T |
| UniRef90_C5Z8C8 UniRef90_A0A059C6R8 | G G D T E A D Y P F <u> </u> G T N G T <mark>C</mark> D A <u> </u> R E K R K <u> </u> V <u> </u> S D S Y E N P T N D Q G A S E D T Y A Y Q E K D G T <mark>C</mark> N R R K A A Q H A A Q K H F A D P P G E |
| UniRef90_UPI00005EC1BE UniRef90_I1KEJ5 | G G I D T E E <mark>C</mark> Y P Y V A Q D T E <mark>C</mark> K Y K P E <mark>C</mark> S G A N I T G F V D I P S M D E G G L A S E I S Y P Y K A N N K T C M V K K E T Q G V A Q I K G Y E N V P S N S G G I N T E D S Y P Y <u>E</u> A F D G <u>S C</u> R F R E D <u>S</u> I G A T V S G Y Q T I P K G S E |
| UniRef90_UPI0002657694 UniRef90_F0WE78 UniRef90_H2ZK39 | DGI CSFFDYAYIHSQSI CRS <mark>C</mark> KPVVS |
| UniRef90_R4WEB5 UniRef90_I3J400 | GGI DTEESYPYEADDKK <mark>C</mark> RFKKSSVGATVSGYVEVPEGSE |
| UniRef90_I3J674 UniRef90_O02586 | R G I D T E E F Y P Y E A K N G L C R Y K R D S I G A T C S G Y I I V K R F E E G G L D T E D S Y P Y K A K D G I C H Y N P N S V G A I C S G H V D V S P D E Y G V E A E V D Y R Y T E R D G V C R Y R Q D L V V A N V T G Y A E L P E G D E |
| UniRef90_W4YG80 UniRef90_K7QTY9 | G G D T E A T Y S Y R A <u>V </u> D G N |
| UniRef90_R4WMP3 UniRef90_UPI0003C44A3C | K G I A T E Q A Y P Y N G R D N M C Q T E K G S D V I V T G I M K V P R D E N G I D S E K S Y P Y E G Q N K N C R Y K T S G R V A T C V S Y K T V P M G N E G G I D T E E S Y P Y V G Q D Q Q C K F N E K T I G A T V S G L V Q L P Y G D E |
| UniRef90_T1FNC9 UniRef90_Q6DJC1 UniRef90_UPl0003299CB5 | K GII D S D S Y Y P Y H A M D E K <mark>C H</mark> Y D P T G K A S T C A K Y T E II V P G T E |
| UniRef90_V4W908 UniRef90_UPI0003D2975D | Q G I A S E D A Y P Y I G K H N Q C K Y N P L Y R A A N C S G Y C C L P R G D E Q G L T D E R V Y P Y Q R R E G Y C N W Q L G A M K A A R I R S Y Q D V P T S E N G I T S E N S Y P Y K G I N S T C N K K K L F N Q I A K I Y R Y E D V P S N S |
| UniRef90_F2DJL2 | G G L T T E S S Y P Y R G T D G S C R R S A S A A S L R G Y E D V P A N N |

| QUERY UniRef90_UPI0002B49E89 | 130 140 150 160 E WALQTAVTYQPVSVALDAAGDAFKQYASGIFTGPCGTAV E E S L K K A V A H Q P V S V A I E A S G L A L Q L Y Q S G V F T G K C G S A L E Q G L L K A L A N Q P L S V A I E A S G R D F Q F Y S G G V F D G H C G S E L |
|--|---|
| UniRef90_A0A059BXH3 UniRef90_T1J339 UniRef90_I1ILW5 | |
| UniRef90_R4WD68 UniRef90_B4FS90 UniRef90_Q6J270 UniRef90_A0A059B053 | NALAEAVAT VGPVSVAI DASDPDFQHYSVYYKPDCSSINL ESALQKAVAYQPVSVAI BASGQDFQFYSEGVFTGQCTTDL EALQKAVATVGPVSVAI BASGGDFQFYSEGVFTGGCCTTDL EALQKAVAHQPVSVAI BAGGREFQLYKSGVFSGSCTTNL EQALMKAVAHQPVSVAI BAGGSDFQFYSSGVFTGECGTEL SALKKAVAHQPVSVAI BASGGRAFQLYTSGILYTGECGISL EWVLQNAVAYQPITVGLESEGGKFKLYTSGILYTGYCGTAI DDLQKAVATVGPISVAI DASHSSFQLYSVYDEPNCSSEEL EKALRKAVANQPVSVGI DAGSDFQLYSGGVFSGECGTDLD EKALRKAVANQPVSVGI DAGSDFQLYSGGVFSGECGTDLD |
| UniRef90_A5HII7 UniRef90_J9QSA1 UniRef90_Q1EP12 | E WV LQNAVAYQPI TVGLESEGGKFKLYTSGI YTGYCGTAI DDLQKAVATVGPI SVAI DASHSSFQLYSVYDEPNCSSEEL EKALRKAVANQPVSVGI DAGSDFQLYSGGVFSGECGTDLD EQALIKALAHQPVSVAI EASGRHFQFYSGGVFDGPCGAQL |
| UniRef90_M8BM33 UniRef90_UPI00032ABD9A UniRef90_Q9FGR9 | E Q A L T K A L A H Q P V S V A I E A S G R H F Q F Y S G G V F D G P C G A Q L E S A L L K A V A N Q P I S V A I D A S G S E F Q F Y S S G V F T G T C G T E L E D D L M K A V A N Q P V S V A I D A G G D F Q F Y S E G V F T G R C G T E L N E K A L Q K A V A H Q P V S V A I E A S G M A L Q F Y Q S G V F T G E C G T A L |
| UniRef90_B9HH86 UniRef90_UPI0002659950 UniRef90_V4UK98 | NALKEAVATVGPISVAI BASGMALQFYQSGVFTGECGTAL NALKEAVATVGPISVAI DASSIFFQFYRGGVYWFCSSTEL BAALMKAVANQPVSVAI DASGSDFQFYSSGVFTGQCGTEL SALKMAVATVGPISVAI DASAPTFRFYKVYYSPTCSSFRL |
| UniRef90_M1XYA5 UniRef90_UPI000383330D UniRef90_V4THV9 UniRef90_B6TLR1 | DALKEAVANVGPVSVAI DASQPFFLYKSGVYDDPQCSQEV EEALLKAVANQPVAVSI DASGSAFQFYSSGVFTGDCGTEL ESALKKAVAHQPVSVAI EASGHFQFYSEGVFSGRCGTEL |
| UniRef90_A0A059ALL9 UniRef90_K3W7R0 UniRef90_I1PJE6 | DALKEAVANVGPVSVAI DASGSAFQFYSSGVFTGDCGTEL ESALLKAVANQPVSVAI EASGHFQFYSSGVFTGDCGTEL ESALKKAVAHQPVSVAI EASGHFQFYSEGVFSGRCGTEL ERALKKAVAHQPVSVAI EAGNRDFQLYESGVFTGECGTAL EHALQVAVAQQPVSVAI EADQRAFQFYKSGVFNLTCGTQL EEALLKAVANQPVSVAI EADQRAFQFYKSGVFNLTCGTQL |
| UniRef90_R4FQ86 UniRef90_I3J685 UniRef90_K7UVN9 | NALKEAVVNIGPISVAIDAGNMSFQFYSVYNEPDCSDTQL ETLKKAVATLGPISVGIDASRHSFQFYQVYDDPDCSKTVL EQALVKALAHQPVSVAIEASGRHFQFYSGGVFDGPCGSEL |
| UniRef90_H2MAW2 UniRef90_UPI000234FE62 UniRef90_Q6F6A7 UniRef90_UPI00042B244C | NALKEAVVNIGPISVAIDASRHSFQFYSVYNEPDCSDTQLETLKKAVATLGPISVGIDASRHSFQFYQVYDDPDCSKTVLEQALVKALAHQPVSVAIEASGRHFQFYSGGVFDGPCGSELDALQEAVATIGPISVGIDASHISFQLYESYDEPQCSSSELEVSLLKALAHQPISVGIAAGSKDFQFYKRGVFEGSCGTELEKSLKKAVAHQPVSVAIEAGGRAFQLYESGIFNGLCGTDL |
| UniRef90_T1G9A2 UniRef90_W9RKI3 UniRef90_Q9SUS9 | EKLQEALAT VĞPVSVAL DASHKSFMFYKVYDEPECNPEHL ENALMKAVANQPVSVSI DAGGKDFQFYSEGVYTGSCGTEL EAALMKAVAHQPVTAVVDSSSREFQLYESGVFDGTCGTNL |
| UniRef90_W1Q0E8 UniRef90_W4Y020 UniRef90_Q43423 | EKALQQAVAQQPVSVGIEASAAFQFYSGGVFTGDCGTNLNQALMEAVASVGPVSVAIDASHQSFQLYEVYDEPECSSSEL EKALQKAVAHQPVRLAIEAGGRDFQLYKSGVFTGSCGTSL |
| UniRef90_W5EEA4 UniRef90_M5XEM6 UniRef90_B4KQX9 UniRef90_K3YC46 | D D L Q K A VIA T VIG P I S V A I D A S H S F Q L Y S Q V F S G G G T A Q L E K A L R K A V A H Q P V S V A I D A S G S D F Q L Y S G G G V F T G G G G T A L L K A L A H Q P V S V A I D A S G S D F Q F Y S G G G V F T G G G G T A L L K A L A H Q P V S V A I D A S G S D F Q F Y S G G G V F T G G G G T A L L K A L Q K A V A N Q P V S V A I D A S G S D F Q F Y S G G V F T G G G G T A L L K A L Q K A V A N Q P V S V A I D A S G S E F Q F Y S G G V F T G G G G T A L L K A L Q K A V A H Q P V S V A I D A S G S E F Q F Y S G G V F T G G G G G T A L L K A L Q K A V A H Q P V S V A I D A S G S M A L G F Y Y G S G V F T G G G G G T A L L K A L Q K A V A H Q P V S V A I D A S G S M A L G F Y Y S G G G G V F T G G G G G T A L L K A L K K A V A T Q P V S V A I D A S G S M A L K M A A V A T V G P V S V A I D A S G S A F F Q F Y S G G G G T G G T G C G T G L L K A L K M A V A T V G P V S V A I D A S A Q P T F F L Y K S G G V F T T G G G G G T G L L L K A V A T Q Q P V S V A I D A S G S A F F Q F Y S E G G V F T T G G G G T G L L L L K A V A T A Q Q P V S V A I D A S G S A F F Q F Y S E S G V F T T G G G G T G L L L L K A V A T A Q Q P V S V A I D A S G S A F F Q F Y S E G G V F T T G G G G T T G L L L L K A V A T A Q Q P V S V A I D A S G S A F F Q F Y S E G G V F T T L T G G T T G L L L L K A V A T A Q Q P V S V A I D A S G S A F F Q F Y S E G G V F T T L T G G T T G L L L L K A V A T A Q Q P V S S V A I D A S G S A F F Q F Y S E G G V F T T L T G G T T G L L L K A V A T A Q Q P V S S V A I D A S G S A F F Q F Y S E G G V F T S L L L K K K A V A T A Q Q P V S S V A I D A S G S A F F Q F Y S E G G V F T S L L L K K K A V A T A Q Q P V S S V A I D A S G S A F F Q F Y S G G V F T T L T G G T T G L L L K K K A V A T A Q Q P V S S V A I D A S G S R F G G F Y S E G G V T T T T L L T T T T T T T T T T T T T |
| UniRef90_R3TC40 UniRef90_B2CDE1 UniRef90_F7DW05 UniRef90_K1R5E7 | E G S L L K A V A N Q P V S V A I Q A S G S D F Q F Y S E G V F T G D C G T E L D V L K E T V A N V G P V S V A I D A S P T F F L Y K S G V Y F D P S C N N T V S A L K K A V S E V G P V S V A I D A S H S S F Q S Y A G G V Y P E C S S E Q L |
| UniRef90_B9HLD6 UniRef90_Q7F3A8 UniRef90_G9F9V4 | ENALMKAVANQPVAIAMDAGGKDLQFYSEAIFTGDCGTEL EAALAKAVANQPVSVAIDAGDQSFQFYSDGVFAGDCGTDL KALQNALATVGPISVAIDASHESFHFYSVYNEPYCSSYDL |
| UniRef90_M3ZNL6 UniRef90_A2BF64 UniRef90_UPI00042B1198 UniRef90_Q3YPH2 | Q A L K E A L A N L G P V S V A I D A T P Q F L F Y R S G V Y D D P S C T Q K V E T A L K K A V A N Q P V S V A I D A G R A F Q L Y Q S G I F D G K C G T Q L E K L K I A V A T Q G P A S V A I D A G H R S F Y T H G V Y F E K E C S P E N L |
| UniRef90_V4L944 UniRef90_Q70EW9 UniRef90_V4L5V2 | A S L R L A A A Q Q P V S V G I D A G G F L F Q L Y S S G V F T G Y C G S N L D D L K N A V L A K G P L S V A L D A S F N F O L Y D S G V S D F N S L D A S T T T T T T T T T |
| UniRef90_H2ZRS7 UniRef90_A2PZE2 UniRef90_A0A059CCE2 | TALQKALAI VGPI AVAI DATRTFFLYKRGVYDDPSCSHSVEKSLQKAVANQPVSVAI EAGGYDFQLYSSGIFTGSCGTDLEKALLQAVANQPVSVSIEGGGYNFQFYSSGVFTGSCGTDI |
| UniRef90_Q3ZCX6 UniRef90_G7ITE7 UniRef90_B9SGK5 UniRef90_UPI00035A2B52 | T L L E A A L A T V G P V S V A L D A A S F Q F Y S H G V Y Y D R S C S P E Y L E Q A L Q K A V A N Q P V S V A L D A S G S D F Q F Y K S G V F T G S C G T E L E A A L L K A V A H Q P V S V S L D A G S M S F Q F Y Q S G L Y A G S C G S D L D E L Q K A V A G V G P L S V A L D A S H G S F Q L Y S G G V Y P E C S S T Q L |
| UniRef90_V4MPP9 UniRef90_G4Y630 UniRef90_A9U938 | DELQKAVAGVGPISVAIDASHGSFQLYSGGVYPECSSTQLEASLKKAVAHQPVSVGFDKKSQEFMLYKSGIYNGPCGTALENALMKAVANQPVSVAIDASDMQFYSEGVYAGDSCGNELDHALKKAVATVGPVSVAIDASHFQFYSHGVYIEPECSPEML |
| UniRef90_V7AGS7 UniRef90_UPI0003C29356 UniRef90_W4FUA9 | HALKKAVAT VĞPVSVAI DASHFQFYSHGVYTEPECSPEMLEKALLKAVAHQPVSAYVEAGGSAFQFYSSGIFTGKCGTEI AALKDAVANIGPVSVII DARPSFYFYKSGVYDDPRCTHYV EEELKAAVAHQPVAVAI EADQKEFQFYKSGVFDKTCGTSL EKALQKAVAHQPVAVAI DAGGFEFQFYTSGVFTGQCGTEL |
| UniRef90_A5AUR6 UniRef90_G8A001 UniRef90_UPI0002657C81 UniRef90_C5Z8C8 | E E A L L K A V A H Q P V S V A I D A G S S D F Q L Y S E G V F T G E C G T Q L T A L Q K A L A I V G P I A V A I D A T R T F F L Y K R G V Y D D P S C S H S V E K S L Q K A V A N Q P V S V A I D A A G G Y D F Q L Y S S G I F T G S C G T D I E K A L L Q A V A N Q P V S V S I E G G G Y N F Q F Y S S G V F T G S C G T D I T L L E A A I A T V G P V S V A I D A A S F Q F Y S H G V Y Y D R S C S P E Y L E Q A L Q K A V A N Q P V S V A I D A A S G S D F Q F Y K S G V F T G S C G T E L E A A L L K A V A H Q P V S V S I D A G S M S F Q F Y K S G I Y A G S C G S D L D E L Q K A V A G V G P I S V A I D A S G S D F Q F Y K S G I Y A G S C G S D L D E L Q K A V A G V G P I S V A I D A S S G S D F Q F Y K S G I Y A G S C G S D L E A S L K K A V A H Q P V S V G F D K K S Q E F M L Y K S G I Y N G P C G T A L E N A L M K A V A N Q P V S V A I D A S D M Q F Y S E G V Y A G D S C G N E L D H A L K K A V A T V G P V S V A I D A S D M Q F Y S E G V Y D D P R C T H Y V E E E L K A A V A H Q P V S V Y I D A R P S F Y F Y K S G V F D K T C G T S L E K A L L K A V A H Q P V A V A I D A G G F E F Q F Y K S G V F D K T C G T S L E K A L Q K A V A H Q P V S V A I D A G G F E F Q F Y K S G V F D K T C G T S L E K A L Q K A V A H Q P V S V A I D A G G F E F Q F Y K S G V F D K T C G T S L E K A L Q K A V A H Q P V S V A I D A G G F E F Q F Y S E G V F S G I C G K Q L E A K L K A A A A H Q P V S V A I D A G G F S F Q F Y S E G V F S G I C G K Q L E A K L K A A V A H Q P V S V A I D A S N D S F Q L Y K I Y D E P A C S S T Q L E E A L Q K A V A N Q P |
| UniRef90_A0A059C6R8 UniRef90_UPI00005EC1BE UniRef90_I1KEJ5 | D E L K A V Q Q V S V G I S S G Q E F Q S Y S S G F N G D C S G E D R A ME A V A T V G P I S V G I D S A N P S F K F Y Q V Y Y E P D C S S S Q E K A L K A V A N Q P V S V I D A G A L Q F |
| UniRef90_UPI0002657694 UniRef90_F0WE78 UniRef90_H2ZK39 | MAI MKAVA EVG PI SVAI DAGHKS E QHY QSGVY NK I CG I QL |
| UniRef90_R4WEB5 UniRef90_I3J400 UniRef90_I3J674 UniRef90_O02586 | Q A L K E A V A T V G P I S V T I D A S R P S F Q L Y E V Y Y D D G C G S I F L A A L K Q A V A T I G P I S I A V D A S H E S F Q L Y Q V Y D E H C N K K H V |
| UniRef90_W4YG80 UniRef90_K7QTY9 UniRef90_R4WMP3 | S DL QS A VA I V G PI A V A I DASHMS F QLYK S GVY HY CSQ I KL |
| UniRef90_UPI0003C44A3C UniRef90_T1FNC9 UniRef90_Q6DJC1 | T Y L E K T V A S V G P V S V A L D A S L S S F H H Y H V Y Y D P N C N P S N I E K L K E A V A T V G P I S V G M D A G H D S F M F Y F G G I F P K C S S V N L D N I K Q A I G S I G P I S V A L D G T P S F F L Y R S G V Y S D P T C S H F V |
| UniRef90_UPI0003299CB5 UniRef90_V4W908 UniRef90_UPI0003D2975D UniRef90_F2DJL2 | FALKEAVALVGPIAVAVDASPQFRFYHRGVYMDNTCTQKV LALRYAV SRQPVSVAIDASSPGFRYYSGGVFAGPCGNSL ESALVKAIANQPISVAIDAGGSDFQFYSSGVFTGHCGNEL EAALMAAVAHQPVSVAINGGDSVFRFYDSGVGSGCGTELN |

| | 170 180 190 200 |
|---|--|
| QUERY | DHAIVIVGYGTEGGVDYWIVKNSWDTTWGEEGYMRILRNV DHGVVAVGYGKENGVDYWLVRNSWGTSWGEDGY <u>F</u> KLERNV |
| UniRef90_UPI0002B49E89 UniRef90_A0A059BXH3 | D H G V A A V G Y G S S K G L D Y I I V K N S W G P K W G E K G Y II R M K R N T |
| UniRef90_T1J339 UniRef90_I1ILW5 | D H Ġ V L V V Ġ F Ġ T Ď E K Q D F WL V K N Ś W Ġ A S W Ġ D E Ġ Y I K M A R N R D H G V A A V G Y G T R D G T K Y W I V K N S W G L D W G E K G Y I R M Q R G V |
| UniRef90_R4WD68 UniRef90_B4FS90 | DHGVLVVGYGTTDGEDYWLVKNSWGTRWGEDGYIKMARNR DHGVVAVGYGAENGKDYWIVRNSWGPKWGEAGYIRMERNV |
| UniRef90_Q6J270 | D |
| UniRef90_A0A059B053 UniRef90_A5HII7 | DHGVTVVGYGSENGVDYWIVRNSWGTNWGEDGYIRMERNV DHGVTLVGYGTERGLDYWIVKNSWGTNWGENGYIRMQRNL |
| UniRef90_J9QSA1 UniRef90_Q1EP12 | D H G V L A V G Y G V K N G K K Y W L V K N S W A E T W G D N G Y I L M S R D K H A V T V V G Y G T T S D G T K Y W L A K N S W G E T W G E N G Y I R M E R D V |
| UniRef90_M8BM33 UniRef90_UPI00032ABD9A | D H G V A A V G Y G S D K G H D Y [|
| UniRef90_Q9FGR9 | HGVAVVGYGTTLDGTKYWIVKNSWGEEWGEKGYIRMQRG <u>R</u> |
| UniRef90_B9HH86 UniRef90_UPI0002659950 | D H G V V V G Y G T E K G L D Y W L V R N S W G T E W G E H G Y I K M Q R N V D H G V L V V G Y G T E G G K D Y W L V K N S W G S S W G L K G Y I K M V R N _ |
| UniRef90_V4UK98 UniRef90_M1XYA5 | D H Ġ V T A V Ġ Y Ġ T D D Ġ T K Y WL V K N Ś WĠ T T WĠ E N Ġ Y I R MQ R D I D H G V L A A G Y G V L D G Q D Y WL V K N S WG T V F G D A G Y I R M S R N R |
| UniRef90_UPI000383330D UniRef90_V4THV9 | N H G V L A I G Y G T M D G K D Y WL V K N S W G V R F G D E G Y I R M A R N R D H G V T A V G Y G T A N G T K Y WL V K N S W G T S W G E E G Y I R M K R D I |
| UniRef90_B6TLR1 | H G V A A V G Y G V T A D G T K Y W L V K N S W G P E W G E K G Y I I R M A R D V |
| UniRef90_A0A059ALL9 UniRef90_K3W7R0 | D H G V L A V G Y G T D N G Q K F W K V K N S W G A S W G E Q G Y I R L A R G L |
| UniRef90_I1PJE6 UniRef90_R4FQ86 | DHAII TAV GY GV S D G T K Y WL MK N S WG T S WG E D G Y V R ME R G V D H G V L V V G Y G T E N G H D Y WL V K N S WN A G W G Q N G Y I K M S R N K |
| UniRef90_I3J685 UniRef90_K7UVN9 | D |
| UniRef90_H2MAW2 UniRef90_UPI000234FE62 | D H G V I A V G Y G S F N G O D Y WIL V K N S W G L T W G D O G Y IL K M S K N |
| UniRef90_Q6F6A7 | D H G V V A V G Y G T F D G K D Y WIL V R N S W G P N W G F N G Y L R L F R N V |
| UniRef90_UPI00042B244C UniRef90_T1G9A2 | N H A V T V V G Y G T E D G S K Y WL I K N S W G K S W G E N G Y M R I K R D F N H A V L A V G Y G S I E G K D Y Y I V K N S W A T S W G D K G Y V Y M S R N N H G V A I V G Y G A T D G T K Y W L V K N S W G T E W G E R G Y L R I Q R G V |
| UniRef90_W9RKI3 UniRef90_Q9SUS9 | N H GIV V V V IG Y G T F N G R D Y WII V IK N S R G D T W G F A G Y M K M A R N II I |
| UniRef90_W1Q0E8 UniRef90_W4Y020 | H GVT AV GY GK E GDGT N Y WL V K N S WGQS WGE E GY T K M Q R DV D H GV L V V G Y G T D G G K D Y WL V K N S WGE T WGLS G Y I K M S R N |
| UniRef90_Q43423 UniRef90_W5EEA4 | DHG VVA V GYGTDDGKDYWI VRNSWGDDWGEDGY RMERNT DHG AA GYGKTDGTSYWLMKNSWGTTWGEDGYLRMEKD |
| UniRef90_M5XEM6 UniRef90_B4KQX9 | DHAVLIVGYGSENGVDYWIVKNSWGTHWGMNGYMHMLRDH NHSVLVVGYGSENGQDFWIVKNSWDKLWGEDGYFRLPR |
| UniRef90_K3YC46 | D H G A A G Y G V E D G T K Y W L L K N S W G T T W G E K G F L R M E K D S |
| UniRef90_B2CDE1 UniRef90_F7DW05 | DHGVATVGYGTTDRTKYWIVKNSWGPEWGEKGYIRMQREI NHGVL <u>V</u> VGYGNLDGKDYWLVKNSWGLNFGEQGYIRMARNS |
| UniRef90_K1R5E7 UniRef90_B9HLD6 | D H G V L C V G Y G T D D G Q D Y W V K N S W G A E W G E D G Y V K M S R N N H G V A L V G Y G T Q D G T K Y W V K N S W G T D W G E K G Y R M Q R G [] |
| UniRef90_Q7F3A8 UniRef90_G9F9V4 | D H G V A V G Y G T N D G T E Y W V K N S W G T A W G E G G Y R M Q R D S D H G V L A V G Y G T E N G Q D Y W L V K N S W G P S W G E S G Y K A R N H |
| UniRef90_M3ZNL6 UniRef90_A2BF64 | NHAVLVVOGYGTDRGQDYWLVKNSWGTAWGEGGFIRIARN NHGVLAVGYGTUSGQDYWLVKNSWGAGFGDGGYIRLARNK |
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| UniRef90_V4L944 | N |
| UniRef90_Q70EW9 UniRef90_V4L5V2 | N H G V |
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| UniRef90_A0A059CCE2 UniRef90_Q3ZCX6 | DHGIV LIAIVIG YN TKDGKQYYIL VIKN SWSEDWGDDGYIL LIMSRRK |
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| UniRef90_A9U938 UniRef90_V7AGS7 | DHSIVITIV VIGYGKGDGPKY WIL VIKNSWGTEWGEKGYII IRMKRDH |
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| UniRef90_A5AUR6 UniRef90_G8A001 | D |
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| UniRef90_H2ZK39 UniRef90_R4WEB5 | D H G V L A V G F G T E D G K D F W L V K N S W G P V W G M E G Y I M M S R N D H G V L A V G Y G T E N G O D Y W L V K N S W N S D W G D K G Y I K M A R N K |
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| Jankedo D. 1900-283504 J. P. T. L. Y. J. D. W. R. R. G. G. N. Y. T. D. Y. K. D. G. C. T. G. C. W. A. F. S. A. J. M. A. L. G. L. T. G. L. J. M. J. M. J. M. J. M. J. W. R. R. G. G. A. V. T. D. V. K. D. G. C. G. G. G. W. A. F. S. A. J. M. A. L. G. L. T. G. L. J. M. J. M. J. M. J. M. J. W. R. R. G. G. A. V. T. D. V. K. D. G. G. G. G. G. W. A. F. S. A. J. M. A. L. G. L. J. G. J. J. M. J. M. J. W. R. R. G. G. A. V. T. D. V. K. D. G. G. G. G. G. W. A. F. S. A. J. M. A. L. G. L. J. G. J. J. M. J. M. J. W. R. R. G. G. A. V. T. D. V. K. D. G. G. G. G. G. W. A. F. S. A. J. G. A. V. G. G. J. V. R. J. M. J. W. R. R. G. G. A. V. T. D. V. K. D. G. G. G. G. G. W. A. F. S. A. J. G. A. V. G. G. J. V. R. J. M. J. W. R. G. G. G. W. J. F. S. A. V. G. G. G. G. G. W. J. F. S. A. J. G. A. V. G. G. J. V. R. J. W. J. W. R. G. G. G. W. J. F. S. A. V. G. G. G. G. G. W. J. F. S. A. J. G. A. V. G. G. J. V. R. J. W. J. W. R. G. G. G. J. W. J. F. J. W. D. W. R. G. G. A. V. T. D. V. K. D. G. G. G. G. G. G. W. J. F. S. A. J. G. A. V. G. G. J. V. R. J. W. J. W. J. W. G. G. G. G. G. G. W. J. F. S. A. J. G. A. V. G. G. J. V. R. J. W. J. W. J. W. G. G. G. G. G. G. W. J. F. S. J. J. W. J. W. J. W. G. G. G. G. G. G. W. J. F. S. J. J. W. | | 1 10 20 30 40 |
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| JAINERIO CASLINA JAINERIO SAKNOS JAINERIO SAKNOS JAINERIO DIPIODO4448748 JAINERIO DIPIODO449 JAINERIO DIPIODO449 JAINERIO DIPIODO449 JAINERIO DIPIODO4582277 JAINERIO DIPIODO458227 JAINERIO DIPIODO45824277 JAINERIO DIPIODO45829 JAINERIO DIPIODO45824277 JAINERIO DIPIODO45829 JAINERIO DIPIODO458249 JAINERIO DIPIODO45824 JAINERIO DIPIODO45829 JAINERIO DIPIODO4582 | | WP I SILID WR D K G AIVII PII K N Q K E C G C C WA F A A V A A IV E GILII KIL |
| JAINERIO CASLINA JAINERIO SAKNOS JAINERIO SAKNOS JAINERIO DIPIODO4448748 JAINERIO DIPIODO449 JAINERIO DIPIODO449 JAINERIO DIPIODO449 JAINERIO DIPIODO4582277 JAINERIO DIPIODO458227 JAINERIO DIPIODO45824277 JAINERIO DIPIODO45829 JAINERIO DIPIODO45824277 JAINERIO DIPIODO45829 JAINERIO DIPIODO458249 JAINERIO DIPIODO45824 JAINERIO DIPIODO45829 JAINERIO DIPIODO4582 | UniRef90_I1W259 | LPETKDWREDGIVSPVKNQGHCGSCWTFSTTGALEAAYTQ |
| JAINERIO CASLINA JAINERIO SAKNOS JAINERIO SAKNOS JAINERIO DIPIODO4448748 JAINERIO DIPIODO449 JAINERIO DIPIODO449 JAINERIO DIPIODO449 JAINERIO DIPIODO4582277 JAINERIO DIPIODO458227 JAINERIO DIPIODO45824277 JAINERIO DIPIODO45829 JAINERIO DIPIODO45824277 JAINERIO DIPIODO45829 JAINERIO DIPIODO458249 JAINERIO DIPIODO45824 JAINERIO DIPIODO45829 JAINERIO DIPIODO4582 | UniRef90_O60911 | LPKSVDWRKKGYVTPVKNQKQCGSCWAFSATGALEGQMFR |
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| JAIRE190_MABU13 | UniRef90_D3BCE4 | L P A T V D WR Q Q G C V T R V K D Q G V C G S C WT F G S T G S C E G V S C L |
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| JniRef90_11GI88 JniRef90_11SV5 P A S V D WR A K G A V T A I K N Q G K C G S C W A F S T T G S L E G Q H F L J NiRef90_L1SMHS4 JniRef90_LSMHS4 JniRef90_L9D100032AF550 JniRef90_UP100032AF550 JniRef90_UP1000441B9EC JniRef90_UP1000443E336 JniRef90_UP1000443E336 JniRef90_UP1000443E336 JniRef90_UP1000443E336 JniRef90_HSSV D WR K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F R L P S S V D W R K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F R L P S S V D W R K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F R L P S S V D W R K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F R L P S S V D W R K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F R L P S S V D W R K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F K L P S S V D W R K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F K L P S S V D W R K K G V V T P V K N Q G D C G S C W A F S A T G A L E G Q M F K L P S S V D W R E R G A V T A V K N Q G D C G S C W A F S A T G T V E S A H C I V P S N V D W R E R G A V T A V K N Q G D C G S C W A F S A T G T V E S A H C I V P D N I D W V E K G V V N A I K Y Q G C G S C W A F S A T G T V E S A H C I V P D N I D W V E K G V V N A I K Y Q G C G S C W A F S A T G S V E G A H Q I D N R E R G A V T E V K D Q G C G S C W A F S T T G S V E G A H Q I D N R E R G A V S P I K D Q G C G S C W A F S T T G A L E G Q M F R J T T G A I E G Q M F A | UniRef90_K1QJ27 | L P D T V D WS K E G Y V T P V K N Q G Q C G S C WA F S T T G G L E G Q H Y R |
| F A S V D WR A K G A V T P V K N Q G C G C WA F S A V A A V E G V T K L D WR E G A V T P V K D Q G C G C WA F S A V A A V E G V T K L D WR E G A V T P V K D Q G C G C WA F S A V A A V E G V T K L D WR E G A V T G V K N Q G D C G S C WA F S A T G A L E G Q M F R D N E G D W B E K G Y V T P V K D Q G D C G S C WA F S A T G A L E G Q M F R D W E G D W B E K G Y V T P V K D Q G D C G S C WA F S A T G A L E G Q M F R D W E G D W B E K G Y V T P V K D Q G D C G S C WA F S A T G A L E G Q M F R D W E G D W B E K G Y V T P V K D Q G D C G S C W A F S A T G A L E G Q M F R D W E G D W B E K G Y V T P V K D Q G D C G S C W A F S A T G A L E G Q M F K D Q G D C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F K D Q G C G S C W A F S A T G A L E G Q M F R D W D W D W R C K G A V S P L K D Q G C G S C W A F S A T G S L E G Q M F R D W D W R C K G A V S P L K D Q G C G S C W A F S A T G S L E G Q M F W D W R E E G Y V T P V K D Q G C G S C W A F S A T G A L E G Q M F W D W R C K G A V S P L K D Q G C G S C W A F S A T G A L E G Q M F W D W R C K G A V S P L K D Q G C G S C W A F S A T G A L E G Q M F W D W R C K G A V S P L K D Q G C G S C W A F S A T G A L E G Q M F W D W R C K G A V S P L K D Q G C G S C W A F S A T G A L E G Q M F W D W R C C G S C W A F S A T G A L E G Q M F W D W T S V K D Q G C G S C W A F S A T G A L E G Q M F W D W T S V K D Q G C G S C W A F S A T G A L E G D T T T T T T T T T T T T T T T T T T | UniRef90_I1GI88 | A T V D WR E K G A V T A I K N Q G K C G S C WS F S T T G S L E G Q H F L |
| P P S V D WR K K G C V T P V K D Q G G C G S C WA F S A T G A L E G Q M F R V D WR Q K G A V T G V K N Q G M C G S C WA F S A T G A L E G Q M F R V D WR Q K G A V T G V K N Q G M C G S C WA F S A T G A L E G Q M F R J D WR Q K G A V T G V K N Q G M C G S C WA F S A T G A L E G Q M F R J D WR Q K G A V T D V K D Q G D C G S C WA F S A T G A L E G Q M F R J D WR E F G A L D WR F K G V V T D V K D Q G D C G S C WA F S A T G A L E G Q M F R J D W R D W F S V D W R F S A T G A L E G Q M F K J D W R F S V D W R F S A T G A L E G Q M F K J D W R F S V D W R F S A T G A L E G Q M F K J D W R F S V D W R F S A T G A L E G Q M F K J D W F S V D W R F S A T G A L E G Q M F K J D W F S V D W R F S V D W R F S A T G A L E G Q M F K J D W F S V D W R F S V D W R F S A T G A L E G Q M F K J D W F S V D W R F S V D W R F S A T G A L E G Q M F K J D W F S V D W R F S V D W R F S A T G A L E G Q M F K J D W R T S V D W R T S V S V S V D W F S V D W F S V D W F S V D W F S V D W F S V D W F S V D W F S V D W F S V D W F S V S V S V S V S V S F S T T G S V E G A H Q D W F R J D W F S V D W F S V S V S P I K D Q G Q C G S C W A F S A T G A L E G Q M F K J D W F W J T S V K N Q G S C G S C W A F S A T G S L E G Q M F R J T T G A L E G Q M F R J T T G A L T T T G A L T T G A L T T G A L T T T G A L T T G A L T T T G A L T T T G A L T T T G A L T T T G A L T T T G A L T T T G A L T T T G A L T T T T T T T T T T T T T T T T T T | UniRef90_I1ISV5 UniRef90_M4CML6 | SKDWRSEGAIVIT PIVIK Y Q G Q C G C C WA F S A IV IA A IV IF GIVIT KII |
| JniRef90_R4WCH2 | UniRef90_L5MHS4 | I P P S V D WR K K G C V T P V K D Q G G C G S C WA F S A T G A L E G Q M F R |
| JniRef90_UP1000441B9EC JniRef90_UP1000443E336 JniRef90_UP1000443E336 JniRef90_W5FSU1 JniRef90_M5FSU1 JniRef90_T0RRE8 JniRef90_F6ZKC3 JniRef90_Q9U0C8 JniRef90_Q9U0C8 JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_H3AU66 | UniRef90_R4WCH2 | VID WR Q K G AIVIT GIVIK N Q G M C G S C WA F S VT G S L E G H H Y V |
| L P S S V D W R K K G V L T P V R N Q G E C G S C Y A F G A L A A L E A Y H K K J N R R R R R R R R R R R R R R R R R R | UniRef90_UPI00032AF550 UniRef90_UPI000441B9EC | I PKYVDWRPSGYVT PVKDQGDCGSCWAFSATGALLEGUMFK |
| JniRef90_UPI000443E336 JniRef90_W5FSU1 P A S V D WR R K G Y V T P V K D Q G K C G S C WA F S T T G T L E G Q M F K JniRef90_A0A059C819 JniRef90_A0A059C819 JniRef90_Q9U0C8 JniRef90_D3BJ60 JniRef90_UPI00032A3D6E JniRef90_UPI00032A3D6E JniRef90_UPI00032A3D6E JniRef90_UPI00032A3D6E JniRef90_H3AU66 P K S V D W R R K G Y V T P V K D Q G K C G S C WA F S T T G T L E G Q M F K V P D N I D W V D K K C V N P V K N Q G S C G S C WA F S A T G T V E S A H C I V P D N I D W V D K G V V T S V K N Q G S C G S C W A F S T T G S V E G A H Q I V P K D W R A N G A V S P I K D Q G Q C G S C W A F A T T G N I E G Q W F R V D Y R K K G M V T S V K N Q G S C G S C W A F S T T G S V E G A H Q I V P K T L D W R D K G Y V T P V R N Q G K C G S C W A F S T T G A I E G Q M F W V D Y R N M G Y V T P V K D Q G Y C G S C W A F S A T G S L E G Q M F R V P K T L D W R D K G Y V T P V K D Q R C G S C W A F S A T G S L E G Q H F R | UniRef90_A8NCV6 | LPSSVDWRKKGVLTPVRNQGECGSCYAFGALAALEAYHKK |
| JniRef90_TORRE8 JniRef90_A0A059C819 JniRef90_F6ZKC3 JniRef90_D3BJ60 A T V D WR A N G A V T E V K D Q G N C G S C WA F S A T G T V E G I V G I L C Q W K K D S K G V N P S I V D W R A N G A V T E V K D Q G M C G S C W A F S T T G S V E G A H Q I D W R Q K G A V S P I K D Q G Q C G S C W A F A T T G N I E G Q W F R D W R G S C W A F S T T G S V E G A H Q I D W R G S C W A F S T T G S V E G A H Q I D W R G S C W A F S T T G S V E G A H Q I D W R G S C W A F S T T G S V E G A H Q I D W R G S C W A F S T T G S V E G A H Q I D W R G S C W A F S T T G S V E G A H Q I D W R G S C W A F S T T G S V E G A H Q I D W R G S C W A F S T T G A I E G Q M F W J T S V K D Q G T C G S C W A F S T T G A I E G Q M F A T T C T T T T T T T T T T T T T T T T | UniRef90_UPI000443E336 | PASVDWRRKGYVTPVKDQGKCGSCWAFSTTGTLEGQMFK |
| JniRef90_A0A059C819 | UniRef90_VV5FSU1 UniRef90_T0RRE8 | NVDWKENSAVITAVKNQGNCGSCWAFSIVAVVEGITYQII |
| P A S D W K Q G U V S V K N Q G S C G S C Y A F G T V G A L E C Q W K K | UniRef90_A0A059C8I9 | VPDNIDWVEKGVVNAIKYQGKCGSCWAFSVVAAVEGIVGI |
| JniRef90_D3BJ60 JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E JniRef90_UP100032A3D6E VD Y R N M G Y V T P V R N Q G K C G S C WA F S A A G A L E G Q W F W V R N Q G K C G S C WA F A A A G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G A L E G Q W F W V R N Q G K C G S C WA F S T T G S L E G Q W F W R N Q G K C G S C WA F S T T G S L E G Q W F W R N Q G K C G S C WA F S T T G S L E G Q W F W R N Q G K C G S C WA F S T T G S L E G Q W F W R N Q G K C G S C WA F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F W R N Q G K C G S C W A F S T T G S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q W F S L E G Q | UniRef90_F6ZKC3 | PASILDWRIQGUVISVKNQGSCGSCYAFGTVGALECOWED |
| JniRef90_UPI00032A3D6E I P K S V D Y R K K G M V T S V K N Q G S C G S C W A F S S A G A L E G Q L A K JniRef90_Q9R014 L P D Y K D W R E E G Y V T P V R N Q G K C G S C W A F A A A G A I E G Q M F W JniRef90_H2L7M6 V D Y R N M G Y V T E V K D Q G Y C G S C W A F S T T G A I E G Q V V K JniRef90_H3AU66 V P K T L D W R D K G Y V T P V K D Q R L C G S C W A F S A T G S L E G Q H F R | UniRef90_D3BJ60 | ATVDWRQKGAVSPIKDQGQCGSCWSFSTTGSVEGAHQI |
| JNIKET9U_Q9KU14 | UniRef90_UPI00032A3D6E | IPKSVDYRKKGMVTSVKNQGSCGSCWAFSSAGALEGQLAK |
| JniRef90_H3AU66 VPKTLDWRDKGYVTPVKDQRLCGSCWAFSATGSLEGQHFR | UniRet90_Q9R014 UniRet90_H2L7M6 | LPUYKDWREEGYVII PVRNQGKCGSCWAFAAAGAII EGQMFW VDYRNMGYVTEVKDOGYCGSCWAFSTTGAII EGOII VIK |
| | UniRef90_H3AU66 | VPKTLDWRDKGYVTPVKDQRLCGSCWAFSATGSLEGOHFR |

| UniRef90 UPI00042B35D4 | 50 60 70 80 KKGK L S L SEQQ LV D <mark>C</mark> D <u>I K</u> GEDEG <mark>C</mark> EGG L MDNAFQF <u>T K</u> TN |
|---|---|
| UniRef90_C1MZ34 | KTGD LI S L SEQE LV S <mark>C</mark> AK I GGNNG <mark>C</mark> KGG L MDNGFEW IV EN |
| UniRef90_S4S197 | KT GVL V S L S E Q N L V D C S S A E G N N G C K G G L M D L A F T Y I K K N R S H N L V A L S T Q Q L L D C S T G R N N H G C N R G D M D E A F R Y I T S N |
| UniRef90_Q5VP99 UniRef90_G7KQI7 | R S H N L V A L S T Q Q L L D C S T G R N N H G C N R G D M D E A F R Y I T S N T S G N L V S L S E Q E L V D R V R S N W T N G C N G G Y L I D A F E F V L E N |
| UniRef90_Q0WVJ5 | VIT G DII I ISII IS F Q FII I I D C D K S Y N A G C N G GII IMD Y A F F F IV I IK N |
| UniRef90_F1L4M4 | KII IG SII VISII IS E Q NII VID <mark>C</mark> S R K Y G N N G <mark>C</mark> N G GII IM D Y A F E Y II IK D N |
| UniRef90_UPI0002657693 | KTGQLVSLSEQNLVDCDRSSDGCE GGYFYESFEYI RSN |
| UniRef90_UPI0002B43733 UniRef90_M5WG86 | KTGQLVSLSEQNLVDCDRSSDGCE GGYFYESFEYIRSN KAGKLISLSEQELVDCDVTSGNQGCNGGYMYKAFEFIKRT KTGNLISLSEQQLLDCTSGNYGC GGGSLPTTFEYIQQS |
| UniRef90_B9H4H0 | VTGSLVSLSEQÊLIECDKSYNDG CGGGLMDYAFQFVIÑN |
| UniRef90_I1GSS7 | KT G QL V S L S E Q E L V D C D D A D D G C G G G L P E L A M E WV A H N |
| UniRef90_G3TYA0 UniRef90_Q7YT27 | KAGKLISLSEQELVDCDVTSGNQGCNGGYMYKAFEFIKRT KTGNLISLSEQQLLDCTSGNYGC GGGSLPTTFEYIQQS VTGSLVSLSEQELIECDKSYNDG CGGGLMDYAFQFVINN KTGQLVSLSEQELVDCDDADDGCGGGLPEI AMEWVAHN KTGKLVSLSEQNLVDCSWREGNEGCNGGLMDNAFQYVKDN KSGTLVSLSEQNLMDCSRKGGNKGCKGGLMDQAFKYIKTN |
| UniRef90_A9LJ19 | SIGVLII SILISE QNIL VID <mark>U</mark> SII ISYGNNGUE GGIL IMDYAF QYII IKDN |
| UniRef90_B5X3V4 UniRef90_V4RMW9 | TTGKLIDI SSQNL VDCSSKYGNKGCNGGFMSQAFQYVIDN VTGNLTALSEQELLSCDTNNFGCE GGLLFYAFEYI ASN |
| UniRef90 G1KNM8 | KTGKILVISILISEQNILVID <mark>C</mark> SRPEGNQG <mark>C</mark> NGGILIMDQAFEYII IADN |
| UniRef90_V4TEU3 | DCCNILIOLICECOLLID <mark>C</mark> CTNICNNIC <mark>C</mark> LIC CCDEKAEAVILION |
| UniRef90_UPI0000E47DBA UniRef90_I1W259 | KTGKLVSLSEQNLVDCSGKEGNMGCEGGLMDQAFQYILDV |
| UniRef90_O60911 | ATGKPVSLSEQQLVDCAGAYNNFGCNGGLPSQAFEYIKHN KTGKLVSLSEQNLVDCSRPQGNQGCNGGFMARAFQYVKEN |
| UniRef90_Q6A1I0 | K M G R L V S L S E Q N L M D C S S R F G N H G C K G G [M D D A F R Y V] S N A T G K L R P L S E Q Q L V D C S H K Y G T N G C F G G F M A D A Y K Y L K S A |
| UniRef90_C5LKN8 UniRef90_B4KNQ5 | ATGKLRPLSEQQLVDCSHKYGTNGCFGGFMADAYKYLKSA KTGKLVSLSEQNLVDCSTLRYFNRGCNGGMPFRALKYVRD |
| UniRef90_E1Z3J4 | ATGKI VISI ISEOMI VID <mark>C</mark> DREYDTG <mark>C</mark> RG GEMDSAEDEI VINN |
| UniRef90_UPI000444874B UniRef90_S8C022 | KTGQLVSLSEQNLVDCSKDEGNEGCNGGLMDQAFQYVKDN VTGSLVSLSEQELIDCDHSYNQGCNG GLMDYAYEFILKN KTGKLVSLSEQNLVDCSQAEGNEGCNGGLMNNAFQYVKDN |
| UniRef90_M3VX87 | KTGKILVISILISEQNILVID <mark>C</mark> SQAEGNEG <mark>C</mark> NGGILIMNNAEQYIVIKDN |
| UniRef90_P20721 | VTGNLISLSEQELVDCDRSYNEGCDG GLMDYAFEFVTKN KTGNLVSLSEQQVLDCTGGGSKGCLGGFMDEAFRFLIHNG |
| UniRef90_W1NRE5 UniRef90_G7ILI6 | VTGNLISLSEQELVDCDRSYNEGCDG GLMDYAFEFVTKN KTGNLVSLSEQQVLDCTGGGSKGCLGGFMDEAFRFLIHNG NTGELISLSEQQLVDCDERNSGCH GGNMDSAFKYIIQK |
| UniRef90_UPI0003598CCE | KIGKII VIIII IS EOOII VID <mark>O</mark> S GNYGDOGONGGII IMDYA EEYII I IDA |
| UniRef90_Q0GZR6 | A T G K L V S L S E Q Q L V D <mark>C</mark> D H V <mark>C C</mark> D S G <mark>C</mark> N G G L M T S A F E Y T L K A |
| UniRef90_W5K2X6 UniRef90_M4FAU1 | KTGRLVSLSEQQLVD <mark>C</mark> TTRNFG <mark>C</mark> D GG <u>YL</u> DRAFDY <u>VM</u> KN KTGKL <u>V</u> SLSEQELVDCDTSYNEGCNG GLMDYAFQFIIDN |
| UniRef90_A0A059CD85 | KTGKL VSL SEQEL VDCDTSYNEGCNG GLMDYAFQFI I DN KTGNLPELSEQQL V DCTSRNNGCNGGWMDTTFEYI VQN |
| UniRef90_R0HPK3 | AKGEIL VISILISE QQIL VI — DUNKENKGUGGGII IMWKAFNYII I INN |
| UniRef90_U6INH9 UniRef90_UPI0003EC0324 | K S É K L V S L S E Q Q L V D C S F D Y G N E G C N G G L M D N A F R Y V K E V T T G K L V D L S P Q N L V D C S G K Y G N E G C N G G Y I D R A F Q Y V I D N |
| UniRef90_D3ZKC3 | KIGKI VISII ISE ONI VID <mark>O</mark> S WSYGNII IG <mark>O</mark> N GGII IMEE AE OYIVKEN |
| UniRef90_UPI0002B42E70 | |
| UniRef90_A7UGE2 UniRef90_A0T069 | TTGK V D SPQN V D <mark>C</mark> SGKYGNHG <mark>C</mark> DGGFMTNAFQY VI FN |
| UniRef90_A0A059D2H9 | T T G K L T <u>S</u> L S E Q E L V D <mark>C</mark> D R S G E D Q G <mark>C</mark> G G G L M D D A F Q F I <u>I</u> S N |
| UniRef90_W5NAF9 UniRef90_H0VE49 | KTGNII VISII ISEONII VID <mark>C</mark> SRPOGNOG <mark>C</mark> NGGII IMDEAEOVIVIKDN |
| UniRef90_U4UDS9 | K |
| UniRef90_UPI0004419124 | RTGKLVSLSPQNLVDCSNFYGNHGCNGGYMPAAFQYIIDN |
| UniRef90_A9P285 UniRef90_A7RRH6 | STGKLVSLSEQELVACDATNYGCE GGDMDYAFTWVIQN KTGSLVSLSEQNLIDCSGSYGNNGCQGGLMDNAFRYIESN NTGELVSLSEQQLVDCSTNGNNNGCGGGTMEDAFQYVIGN TTGKLESFSEQELVDCCDGGTATCNRGGEMSHGFTEILEN |
| 11-1D-100_OEV000 | KTGSLVSLSEQNLIDCSGSYGNNGCQGGCMDNAFRYIESN NTGELVSLSEQQLVDCSTNGNNNGCGGGGTMEDAFQYVIGN |
| UniRef90_T0R639 UniRef90_Q9LXW3 | TTGKLESFSEQELVD <mark>CC</mark> DGGTAT <mark>C</mark> NRGGEMSHGFTEILEN TTGELVSLSEQELIDCDRGNDNFG <mark>C</mark> AGGGAVWAFEFIKEN |
| UniRef90_Q6NV96 | KTGKLVPLSTQNLVDCSRLEGNFGCFKGSTFLALKYVWKN |
| UniRef90_E1A0V0 | KNKKLLSFSEQQLVDCSSDFRNEGCNGGWMDNAFKYLTAN |
| UniRef90_Q9GU62 UniRef90_UPI0002C32AD7 | NT G EL V S L S E Q G L V D C C T G G G T M E D A F Q Y V I G N T T G EL V S L S E Q EL V D C C D G G T M E D A F G T T E I K E N K K K L V S L S E Q E L I D C D R G N D N F G C A G G G A W M A F E F V W M K N K K L V S L S E Q E L I D C D R G N D N F G C A G G G A W M A F E F V W M K N K K L L S F S E Q E L V D C C S S D F R N E G C N G G G M M D N A F K Y L I A N K K N K K L L S F S E Q G L V D C C S S D F R N E G C N G G G M M D N A F K Y L I A N K K N K K L L S F S E Q G L V D C D T E Q D C D E G G M M D N A F K Y L I K N N K K L L S F S E Q G L V D C D T E Q D K G C S G G M M D N A F K Y L I K N N K K L L S F S E Q G L V D C D T E Q D K G C S G G G M M D N A F K Y L I K N N K K L L S F S E Q G L V D C D T E Q D K G C S G G G M M D N A F K Y L I K N N K K S L V S L S E Q Q L V D C D T E Q D K G C S G G G M M D N A F K Y L I K N N K K T G K L V S L S E Q Q L V D C D T E Q D K G C S G G G M V D S A F K Y I K A N K K T G K L V S L S E Q Q L V D C D T E Q G G C M M G C N G G G M V D S A F K Y I K A N N K K K K K K L L V D L S E Q Q L V D C D T E Q G G G M M G C N G G G M W D S A F K Y I K A N N K K T G K L L E L S E Q Q L V D C D T E Q G G C M M G C N G G G M M D F A F Q Y L L M A N C K T G K L L E L S E Q Q L V D C C S R A Q G N M G C N G G G M M D A A F A F L K M N K T G K L L E L S E Q Q L V D C C T L N G G G M M G C N G G G M M D A A F R Y I L M N K T G K L L E L S E Q Q L L D C C D A Q D F D N H G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G M M D N A F R Y V L E A S G N M G C N G G G G M M D N A F R Y V L E A S G N M G C N G G G G M M D N A F R Y V L E A S M N M A M M N N A M M M N N A M M M N N A M M M M |
| UniRef90_A8J7T7 | VT GSL VSLSEQEL VD CDTEQDKGCSG GLMDYAYAWILKN |
| UniRef90_I1GI89 | KTGHLVSLSEQQLMDCSVKYGNNGCDGGNMRSAFQYIKDA |
| UniRef90_A8DS38 UniRef90_A0A059CCD7 | KKEKL VPLSVQEL VDCDDNEDGCW GGHVDSAFFFILIGK |
| UniRef90_Q6LBE7 | KYGELVSLAEQQLDCAGGUYYNQGCNGGWVNQAFKYIKAN |
| UniRef90_I3NG90 UniRef90_A0A059CCF5 | KIGKILISI SEQNIL VDCSRAQGNMGCNGGILMDFAFQYIKDN |
| UniRef90_W8C780 | KTGKLPVLSEQNLIDCGTVDFGLAGCDGGYQEYAFAFIKQ |
| UniRef90_J9HU29 | KTKVLEEYSEQELLDCDAVDSACQ GGYMDDAYKAIEKL |
| UniRef90_V4AF12 UniRef90_D0NHS4 | KIGUL VISILISE QNIL VID <mark>U</mark> S RPE GNMG <mark>U</mark> A G GILMD QA F S YII K MN STGTI IESILISE QEIL VID <mark>O</mark> TTINGII DT <mark>O</mark> NHOGE MSE GVEELLIH K |
| UniRef90_D3BCE4 | ĂTĞKLVSLSEĞQLVD <mark>C</mark> AYLGQSQ <mark>GC</mark> NGG <u>F</u> ASDAFQYI MNF |
| UniRef90_M4BUI3 | KHGEFILLSEQNLLDCAQDFDNHGCNGGLPSHAFEYVKYN |
| UniRef90_G1TCT0 UniRef90_K1QJ27 | KIGKLVSLSEQNLLDCSWPAGNHGCRGGLIDHAFQYVKDN KTGKLVSLSEQNLLDCSKFNMGCNGGLPOK AYKYIIKFN |
| UniRef90_I1GI88 | KŢĠŢĹĹŚĹŚĖĠĠĔVĎ <mark>Ċ</mark> ŚŢĶŦĠŇ <mark>Ħ</mark> ĠĊĸĠĠŢMDNĀĒŖŶĹĔŢŨ |
| UniRef90_I1ISV5 | RTGNILISILSEQEILVDCDTLDYGCDGGVSYH ALEWIASN |
| UniRef90_M4CML6 UniRef90_L5MHS4 | KTGKLVSLSEQNLVDCSRAQGNEGCSGGI MDNAFOYVKDN |
| UniRef90_R4WCH2 | KNNEL VALSEQNL VDCGPKYRNQGCGGGWMTDSFRYILDN |
| UniRef90_UPI00032AF550 | KTGKILVISILISEQNILVIDCSKSQGNMGCNGGILMDNAFEYVKEN |
| UniRef90_UPI000441B9EC UniRef90_A8NCV6 | RTGKLVNLSPQNVIDCTWEHGNNGCDGGFMVPVFTYAKSH |
| UniRef90_UPI000443E336 | KTGKLVSLSEQNLVDCSVSQGNLGCSGGLMNNAYRYIMDN |
| UniRef90_W5FSU1 UniRef90_T0RRE8 | QIGKLASLSEQELVID <mark>C</mark> DKLDHG <mark>C</mark> NGGVSYRALQWITSN |
| UniRef90_A0A059C8I9 | TKGTL PVLSEQQLID CDTTNYGCRGGYPD NSFDYI VQN |
| UniRef90_F6ZKC3 | K M G T L V S F S P Q E L V D C S Y T E G N N G C K G G Y L Q A S F R Y M K K Y |
| UniRef90_Q9U0C8 UniRef90 D3BJ60 | K S G N M V E L S E Q N L V D C S T S F G N M G C N G G I M D Y A F F Y I I T N |
| UniRef90_UPI00032A3D6E | QTGQLVDLSPQNLV DCVTENDGCGGGYMTNAFQYVKEN |
| UniRef90_Q9R014 | KTGNLTPLSVQNLLDCSKTVGNKGCQSGTAHQAFEYVLKN |
| UniRef90_H2L7M6 UniRef90_H3AU66 | KIGULLBLBEQNLVDGSRPFGNDGGGGGVMDLAFFVVOLN |
| | O O O C C C C C C C C |

| UniRef90_UPI00042B35D4 | 90 100 110 120 RGLTTEANYPYRGSEGECKNKHATPAATLAGYEDVPANNE |
|--|--|
| UniRef90_C1MZ34 UniRef90_S4S197 UniRef90_Q5VP99 UniRef90_G7KQI7 | R G V D D E E D W G Y L A K D R C N W F K K R R A K A A S I D G F K D V P R N D G G I D S E A S Y P Y T A K D E N C K Y N P K N K A A E D T G F V D I P S G N E G G I A A E S D Y P Y E D R A L G T C R A S G K P V A A S I R G F Q Y V P P N N G G I A T E A S Y P Y R G V K G N N S K K V S R Q V Q I K S Y E Q V P R N S |
| UniRef90_Q0WVJ5 UniRef90_F1L4M4 UniRef90_UPI0002657693 UniRef90_UPI0002B43733 | GGI ATEASYPYRGVKG NNSKKVSRQVQI KSYEQVPRNSHGI DTEKDYPYQERDGT CKKDKLKQKVVTI DSYAGVKSNDHGVDTEASYPYKGKEMKCHFNKKTVGAEDEGYVDLPEGDEGGI ATESSYGYEATAGSCRFTADSI GATVSGRDSVASGDEGLTTELEYPYQGAESACNEQKEKYQFVSI SGYEKVPVND |
| UniRef90_M5WG86 UniRef90_B9H4H0 UniRef90_I1GSS7 UniRef90_G3TYA0 | HGI DTEEDYPYEAEQGI CNANQPAVQIIIGYEQVPANS GGLTTEANYPYTGKAGKCDRGKASNHAAKIAAQMVRANS GGLDSEESYPYTATDTODCRYNPKYSAANDTGEVDULPPOE |
| UniRef90_Q7YT27 UniRef90_A9LJ19 UniRef90_B5X3V4 UniRef90_V4RMW9 | GGIDTEEGYPYKGKDEKECDYKSSCSGATIISSFIVDKAGDE GGIDTEDKYPYEAEDDTCRFSPDNVGATDSGYVDVDSGDE GGIDSDQSYPYKGVOQCSYNPAQRAANCSKYSFLPEGDE |
| UniRef90_G1KNM8 UniRef90_V4TEU3 UniRef90_UPl0000E47DBA UniRef90_I1W259 | GI H T E E D Y P F V G D Q P D Q A N S S C K A A E V Y T I S G Y Q N V P E N D G G I D S E E S Y P Y I A K D D E D C L Y K S E F N A A N D T G F V D V P E G E Q G I A T E D E Y P Y Q A V P G T C S A A Q K P A A A K I S N Y E E V P S G D E G G I D T E M S Y P Y T A M D G Q C H F N K A N I G A T D T G Y T D V T T G S E G G L D T E E S Y P Y K G V N G L C Q F N K A S N V G V K V L D S V N I T L G A E G G L D S E E S Y P Y V A V D E L C K Y R P E N S V A N D T G F T V V A P G K E |
| UniRef90_O60911 UniRef90_Q6A110 UniRef90_C5LKN8 UniRef90_B4KNQ5 | GGLDSEESYPYVAVDELCKYRPENSVANDTGFTVVAPGKEHGVDTESSYPYTAKDGYCRFNQNNVGATETSYRDIARGSEGLDQESTYPYKGVNEPCRPREKKADGIPVRFVLDTKTNGGIDTEYSYTYEAKQLSCRYDPLHIGAQVTDVVRVAAGE |
| UniRef90_E1Z3J4 UniRef90_UPI000444874B UniRef90_S8C022 | GGI D I E D D Y P Y R A E D GI C Q D N R I R R HIV V I I D G Y Q D V P P N D K G L D S E D S Y P Y Q G T D G Q C H Y D P K F S A A N D T G F V D I P S G S E K G I D T E E D Y S Y K G R D A S C S Q N K I N K R IV V I I D S Y V D I I P E K N |
| UniRef90_M3VX87 UniRef90_P20721 UniRef90_W1NRE5 UniRef90_G7ILI6 | G G L D S E E S Y P Y H A Q D E S C K Y K P Q D S A A N D T G F F D I P Q Q E G G I D T E E D Y P Y K E R N G V C D Q Y R K N A K V V K I D S Y E D V P V N N G L A R E T D Y P Y Q S I Q G G T C D A Q K S S S K A A T I T D Y H D V P P A D G I V S E A D Y P Y Q E G S Q T C Q L N D Q M K F E A Q I T N F I D V P A N D |
| UniRef90_UPI0003598CCE UniRef90_Q0GZR6 UniRef90_W5K2X6 UniRef90_M4FAU1 | GIVSEADYPYQEGSQTCQLNDQMKF EAQITNFIDVPANDGGLESEESYPYEAEDDTCRFEKSRVVATISACSDVVPENEGGLEREEDYPYTGTDHSKCKFDKTKIAVSASNFSVVSLDERGLDTEASYPYEDRQWKCRFNPKTVGATCTGYRSTRSGDEGGIDTEEDYPYAATDVNMCNSKKNTRVVTIDGFEDVPEND |
| UniRef90_A0A059CD85 UniRef90_R0HPK3 UniRef90_U6INH9 UniRef90_UPI0003EC0324 | GGITSEANYPYQKADGTCDTSAASSIEATVTSYKDVPTNN QGITTEDSYPYQASQQTCDSTHSIAATISAYETVPQND GGVDTEKEYPYQEPNDNCSFNAASALGKVTGLFDIASGSE HGIDSDASYPYTGHDDQCHYNPATRAANCSSYQCLPEGDE |
| UniRef90_D3ZKC3 UniRef90_UPI0002B42E70 UniRef90_A7UGE2 UniRef90_A0T069 | RGLDTGESYAYEAQDG LCRYNPKYSAANVTGFVKVPLSEKGIDSEVGYPYYARALGYCYYNQQYNVASDTFVDIPSGDEGGLDTEQAYPYTAVDGACKFSSENVGVRVLDSVNITLNDEQGIESEASYPYLGLEQQCHYNPEESAANCSQYHFLPEKDEHGLTTEANYPYQAVDNTCNARKAASTAAKISGYEDVPSNS |
| UniRef90_A0A059D2H9 UniRef90_W5NAF9 UniRef90_H0VE49 UniRef90_U4UDS9 | KGLEAEKSYPYVGKDG ECKYKPELSAANDTGFVDVPQRE QGI EAEATYPYRMSEDVCQANETLTEVRI QSFVNI EENNE |
| UniRef90_UPI0004419124 UniRef90_A9P285 UniRef90_A7RRH6 UniRef90_C5Y698 | H GI N S E A S Y P Y T A K D G Q C H Y N P A E R A A T C S R Y II L L P S G S E G G I D T E K D Y S Y T G V D S T C N T N K E A K K I V S I D G Y T D V S P D D G G I D T E S S Y P Y L G Q Q G S C H F S S S H V G A R V T G Y Q D I P Q G S E N G I A T E A A Y P Y T A M O G M C O N V O P A V A V R S Y O O V P R D D |
| UniRef90_T0R639 UniRef90_Q9LXW3 UniRef90_Q6NV96 UniRef90_E1A0V0 | H G G K II D P Y P Y T M E S K G V C H A K D D Q A I G H F T A Y A N V T S G D E G G I V S D E V Y G Y T G E D T A A C K A M K T T R V V T I N G H E V V P V N N S P B G I E A E S T Y P Y K G T D G H C R Y W P E P S A A P I T S S S E V S N S P |
| UniRef90_Q9GU62 UniRef90_UPI0002C32AD7 UniRef90_A8J7T7 UniRef90_I1GI89 | K G I A T E D T Y P Y T A T D G V C V Y N K T M A A G R I S S F K D V K H G S E N G I V S E A S Y P Y E A I Q G D C R T T N D K A V L H I Q G Y N E V Y P S E G G L E Q E K D Y P Y T G T D R G T C K F D K S K V V A T V S N F S V V S L D E K G I N T E E D Y P Y T A M D G Q C D V A K M K R R V V T I D S Y E D V P E N D G G D D T E E S Y P Y T A K A S Y C R F D P K K V G A T D E G Y V R I P S G D E G G I D T E A N Y P Y K A V Q G P C R A A K K V V R I D G Y K G V P H C N |
| UniRef90_A8DS38 UniRef90_A0A059CCD7 UniRef90_Q6LBE7 UniRef90_I3NG90 | G G L T T E E D Y P Y Q A I D G T C N T A K T <u>V N P V</u> A S L T G Y Q D V P A D N G G I D T E S S Y P Y E A R D N T C R F N S N S <u>V A</u> A T <u>C</u> S G F <u>V S I A</u> Q G S E G G I F S F D S Y P Y F A K D G F C R Y K P F N S <u>V A</u> N N T G V I Y I P K H F |
| UniRef90_A0A059CCF5 UniRef90_W8C780 UniRef90_J9HU29 UniRef90_V4AF12 | GGI T S E T K Y P Y II A T N G T C H IV P T A S L S IV A K II V IG Y E D IV P A N N K G L A P G G S Y P Y L D K K D T C K Y S P A S K A A E V K G F A A II K P K D E G G L E I E S E Y P Y L A K K O K T C H E N S T E IV H IV IS IV K G A IV D L P K N E |
| UniRef90_D0NHS4 UniRef90_D3BCE4 UniRef90_M4BUI3 UniRef90_G1TCT0 | GKI DREEVYRYTAESKGV <mark>C</mark> NAKDDKALGHFTSYANVTSGD |
| UniRef90_K1QJ27 UniRef90_I1Gl88 UniRef90_I1ISV5 UniRef90_M4CML6 | GGLDTEDSYSYEAKEGKCKFNTHHVGAQVDQVVNITSQDEGGLDSEDSYPYEARNLPCRYDPQKSVANGTGFVRIPRQEGGIDTEESYPYLGKKETCSFRPSEVGATCTGFVQVTAGDESGDETEMMYPYTAEDGFCKFRSTEGKVKCEGYKDIPRDDEGGIATEADYPYTGKDGACVANKLPLHAAAISGFARVATRSQGNASEASYSYQGSDERCRSNARPAARISSFQSVPSNN |
| UniRef90_L5MHS4 UniRef90_R4WCH2 UniRef90_UPI00032AF550 UniRef90_UPI000441B9EC | EGLDTEESYPYYGTDDT CKYKPEFSAANDTGFWDII HKDE GGIDTAASYPYEARNGRCRFNNETII GARWSGYT <u>EIP</u> KDDE GGIDSFFSYPYFAWDFT CKYRPFCSAANDTGFWDII OO HF |
| UniRef90_A8NCV6 UniRef90_UPI000443E336 UniRef90_W5FSU1 UniRef90_T0RRE8 | K GI NLEHT Y P Y E A E D G P C R F N P Q D R V V T C A G L V N I T K H S E G I V A E S K Y P Y V F T A K R S C K W R K A D V V A T D K G Y L E I R D G D E G G L E S E Q S Y P Y E A E E G E C R Y N P K Y S V A N V T G F V D V P Q N E G G I T S Q E D Y P Y T A K D D T C D T T K L S H H A A S I S G F Q R V A T R S G C L S K D Y P Y T S G K S G Q T G S C K S S C T K Q K L A L G A T V N L K G |
| UniRef90_A0A059C8I9 UniRef90_F6ZKC3 UniRef90_Q9U0C8 UniRef90_D3BJ60 | GIMEESSYPYEGVAGICDAIKAAEHAAQIEGFIDVPSGE GIMEESSYPYTAKEGR <mark>C</mark> KKDKPSNVG <u>VVK</u> TFY <u>VVP</u> AGKE GGL MSEKDYPYEAMKEQSCHLRRPNISAYINGSATLPSDE NGLDTESSYPYTASSGTTCKYNKANSGATLSSYNIITAGSE |
| UniRef90_UPI00032A3D6E UniRef90_Q9R014 UniRef90_H2L7M6 UniRef90_H3AU66 | GGI DSEAAYPYVGQDQTCRYNASGMAAQCKGYKEI PVGNEKGLEAEATYPYEGKDGPCRYRSENASANITDYVNLPPNEGLQTTDSYPYTSVDTQPCFYDSRLAVAHIKDYRFI PQGDEGGIDSEASYPYLGRDQKCHYDPRYNSANDSGFVDLEKGSE |

| UniRef90_UPI00042B35D4 | 130 140 150 160 KALLQAVANQPVSVAIEGSGWAFQFYESGVFSGECGTYLD |
|--|---|
| UniRef90_C1MZ34 UniRef90_S4S197 | FDAILIKKAIVISQQPIVIAIVIAILIFADHRFFQILIYSGGIVIFDGF <mark>C</mark> GTNIL |
| UniRef90_Q5VP99 | FTAILLIAIVIAHQPIVISIVIAILIDIVISQFFSSGIVIFGAMQNFT <mark>C</mark> TTDILL |
| UniRef90_G7KQI7 UniRef90_Q0WVJ5 | E |
| UniRef90_F1L4M4 | EKILKI AVATOGPI SVAI DAGHPSFOMYRVYYEPOCSSESL |
| UniRef90_UPI0002657693 UniRef90_UPI0002B43733 | EALTKAVASIGPISVTIDVIDTFRHYSSGVYYDE <mark>C</mark> SSSSR EKSLKAAVANQPVSVAIDAEGNNFQFYSGGIFSG <u>N</u> CGN <u>Q</u> L |
| UniRef90_M5WG86 | F F DILLIK AIVIS M Q PIVISILIAILID A S G F F F K H Y R S GIVIF S N C G T TILID |
| UniRef90_B9H4H0 UniRef90_I1GSS7 | EKQLLQAVAAQPVSVGI CGSERAFQMYSKGI FTGPCSTSL EAELERAVARQPVAVAI NAPDSLMFYKSGVYSGPCTAEFD |
| UniRef90_G3TYA0 | KAILIMKAIVIATIVIG PII ISIVIAII IDAGQIVIFQFYSSGII IYFDPACRILITIVI |
| UniRef90_Q7YT27 UniRef90_A9LJ19 | E A L M Q A A A T I G P I S F G I D A S H P S F Q L Y D H G V Y H R C S S K K L D A L K E A C A A N G P I S V A I D A S H E S F Q L Y E S G V Y D E C S S I E L G V L K E A L A T I G P I S V A I D A T R P F T F Y R S G V Y N D P T C T K K I |
| UniRef90_B5X3V4 UniRef90_V4RMW9 | GVLKEALATIGPISVAI DATRPFTFYRSGVYNDPTCTKKI |
| UniRef90_G1KNM8 | E G S L L K A L A N Q P V S V G I E A S S K D F Q H Y S G G I F D G S C G T Y P R A L M K A V A A V G P V S V A I D A S H F Q F Y E S G I Y Y D P D C S S E E L Q A L L K A V S M Q P V S I A I A A Y S T E F Q S Y K E G I F N G V C G T Q L D |
| UniRef90_V4TEU3 UniRef90_UPI0000E47DBA | Q A L L K A V S M Q P V S I A I A A Y S T E F Q S Y K E G I F N G V C G T Q L D S A L Q M A V A <u>S V G P I S V A I D A S H</u> Q S F <u>Q L Y K V Y</u> N E P A <mark>C S</mark> S T <u>L L</u> |
| UniRef90_I1W259 | N E L K D A V G L V R P V S V A F E V I N G F R L Y K S G V Y T S D H C G T T P |
| UniRef90_O60911 UniRef90_Q6A1I0 | K A L M K A V A T V G P I S V A M D A G H S S F Q F Y K I Y F E P D C S S K N L S S L T Q A S A Q I G P I S V A I D A S H R S F Q F Y K V Y Y E P S C S S S R L |
| UniRef90_C5LKN8 UniRef90_B4KNQ5 | S S L T Q A S A Q I G P I S V A I D A S H R S F Q F Y K V Y Y E P S C S S S R L E Q S L M K A L A D A P V S V A M Y A S D F F H L Y L S G V Y S S T T C N G E L P H L A V A V A S K G P I S V G I H A S N N F R N Y R D G V L N D R Q C N K A A |
| UniRef90_E1Z3J4 | ENALMKAVAHQPVSVAI EADQLAFQLYGGGVFDAECGTAL |
| UniRef90_UPI000444874B UniRef90_S8C022 | R A L M K A V A A V G P I S V A I D A G H E S F Q F Y K L Y Y E K E C S S E E L F O M L L E A V A S O P V S V G L S G G D A P F O F Y S O G L F T G P C S T S L |
| UniRef90_M3VX87 | KALMVAVAT KGPI SVGI DASHFTFQFYHLYYDPDCSSEDL |
| UniRef90_P20721 UniRef90_W1NRE5 | K A L MV A V A T K G P I S V G I D A S H F T F Q F Y H L Y Y D P D C S S E D L E K A L Q K A V A H Q P V S I A L E A G G R D F Q H Y K S G I F T G K C G T A V E D S L L L A V A N Q P V S V G I D G S A F G F K H Y S E G V F T G D C G T Q L |
| UniRef90_G7ILI6 UniRef90_UPI0003598CCE | EQQILLIQAIVIAQQPIVISIVIGII IEIVIGDEFQHYMGDIVIYSGT <mark>C</mark> GQSMN |
| UniRef90_Q0GZR6 | NOILIA A NIL VIT N G PILIAILIGII IN A M F M O T Y ILIG GIVIS C P Y ILIC S K R ILILI |
| UniRef90_W5K2X6 UniRef90_M4FAU1 | K A L Q E A V A T L G P I S V V I D A G Q V F Q H Y T S G V Y N E P H C S S G K E K S L K K A L A H Q P I S V A I E A G G R E F Q L Y Q S G V F T G T C G T A L |
| UniRef90_A0A059CD85 | EGELTKAVAMQPVSIALDASGQLQSYSSGLFNGDCGTAMT |
| UniRef90_R0HPK3 UniRef90_U6INH9 | E E A L L K A V S Q Q P V S V A I D G S G A A F K H Y S G G I F E D C G T H L T E D L Q E A L A F Y G P I S V A I N A G P L S F M M Y H E G I Y D D P D C K G G N A L K Q S L A T I G P I S V L I D A R P T F I L Y R S G V Y N D P S C S Q N V |
| UniRef90_UPI0003EC0324 UniRef90_D3ZKC3 | N A L K Q S L A T I G P I S V L I D A R P T F I L Y R S G V Y N D P S C S Q N V D D L M S A V A S V G P V S V G I D S H H Q S F R F Y S G Y Y E P D C S S T E M |
| UniRef90_UPI0002B42E70 | N A L K V A V A T V G P I S V A L D <u>A T</u> K A S F <u>M</u> S Y Q S <u>G</u> V Y <mark>C</mark> G N <u>G</u> I E N L |
| UniRef90_A7UGE2 UniRef90_A0T069 | E E L K H A V A F V R P V S V A F Q V V Q D F R L Y K S G V Y T S E T C P M D V E A L K E A L A T L G P L S V A L D A S P T F T F Y S S G V Y D D P T C S E V L |
| UniRef90_A0A059D2H9 | E S A L <u>L </u> K <u>A V </u> A |
| UniRef90_W5NAF9 UniRef90_H0VE49 | M G M V D A V A R F N P V S F A Y E V T S D F M H Y R D G V Y E C H N T T D K V K V V Q K A L A T V G P L S V A L D A G S F Q F Y K E G I Y Y D P G C S S R D L |
| UniRef90_U4UDS9 UniRef90_UPI0004419124 | KVVQKALATVGPLSVAIDAGSFQFYKEGIYYDPGCSSRDLDALLAAVGLIGPVSVAFDASQMQFYKEGIYESSTCSQTELLFLKDALAKIGPVSVAINANQFFLYKQGVYNDPRCTAEHL |
| UniRef90_A9P285 | SALLICAAGSQPVSVGIIDGSALIDFQLIYIGGIIYDGDCNPDDII |
| UniRef90_A7RRH6 UniRef90_C5Y698 | Q A L |
| UniRef90_T0R639 UniRef90_Q9LXW3 | DALKTAASSSGVISVAIDASSFMFQLYRHGVFSWPLCKNKEMSLKKAVAYQPISVMISAANMSDYKSGVYKGACSNLWGDKDLMRAVATIGPISVGIDARHKSFRLYRIYYEPKCSSNLI |
| UniRef90_Q6NV96 | K DL MR A VATI G PI SV GI DARHKSFRLYRIYYEPK CSSNLI |
| UniRef90_E1A0V0 UniRef90_Q9GU62 | D Q L K L A V A Q I G P I S V A I D A S D F Q F Y K K G V Y V D E E C S S K Y L E A L R Q A V G T V G P I S A A I WA E P L Q F F S S G I Y D D P N C Y V E Y L D Q I A A N L V H N G P L A I G I N A V F M Q T Y I G G V S C P Y I C G K N H L |
| UniRef90_UPI0002C32AD7 UniRef90_A8J7T7 | DQIAANLVHNGPLAIGINAVFMQTYIGGVSCPYICGKNHL |
| UniRef90_I1GI89 | EVALKKAAAHQPVAVAI EADAKFQLYGGGVYDDPTCGTSL VSLMHALYEVGPISVAMDAGTFQFYKKGIYSDYLCSNTHL ENALKKAVASQPSVVAI DASSKQFQHYKSGIFSGPCGTKL |
| UniRef90_A8DS38 UniRef90_A0A059CCD7 | E N A L K K A V A S Q P S V A I D A S S K Q F Q H Y K S G F S G P C G T K L E R A L Q A V A N Q P V S V A I E G G G F F Q F Y S N G V F S G S C G T D I D |
| UniRef90_Q6LBE7 | ERAL LQAVANQPVSVAI EGGGFFQFYSNGVFSGSCGTDID SPEVRRTTNTGPISVAI DAAHRSFQSYSVYYEPSCSSSQL EALKKAVAAVGPISVSI DASSFQFYKKGLYYDPDCKSSEL |
| UniRef90_I3NG90 UniRef90_A0A059CCF5 | EGELLKAVAMQPVSVSI DGSRREFHLYSSGVFNGNCGTEV |
| UniRef90_W8C780 UniRef90_J9HU29 | E GEILKAVA MQPVSVSI DGSRREFHLYSSGVFNGNCGTEVKTMKEIVGTLGPLACSVNALETLLLYKEGIYDDECNKGEVTAMAQYLVANGPISIGLNANAMQFYRGGISHPWKCSKKNL |
| UniRef90_V4AF12 | ANLQQAVATVGPVSVALDASSTFHFYKSGVYSDPECSSTR |
| UniRef90_D0NHS4 UniRef90_D3BCE4 | PALQNAVATVGPVAIALSSFIFQLYRHGVYSWPLCPDAL PALQNAVATVGPVAIALDASAPDFRFYSSGVYYSSVCKNG |
| UniRef90_M4BUI3 UniRef90_G1TCT0 | VELL MVA V G T V G P V S I A F Q V V S D F R F Y K S G V Y E C H S G E K D V N A I M E A V A T V G P I A V A I D A G H P S F O E V V I V V E P N A S S V H H |
| UniRef90_K1QJ27 | LALKKAVASVGPITVCIDASQPSFQLYKGGVYDECNPLVF |
| UniRef90_I1GI88 UniRef90_I1ISV5 | D A L K E A V A I V G P I S V A I D A G H S S F Q L Y K V Y Y N P T C S S T K L E P S L A N A V A A Q P V A V S I E A G G A N F Q H Y V K G V Y N G P C G T R I |
| UniRef90_M4CML6 | ERALLEAVSROPVSISMDASGDGFMHYSGGVYDGPCGTSS |
| UniRef90_L5MHS4 UniRef90_R4WCH2 | DAL RDAVQNKGPVSVALDASLETTRFYRVYQDPLCGLAGL |
| UniRef90_UPI00032AF550 UniRef90_UPI000441B9EC | T A MA Q Y L VA N G P I S I G L N A N A M Q F Y R G G I S H P W K C S K K N L A N L Q Q A V A T V G P V S V A I D A S S T F H F Y K S G V Y S D P E C S S T R E A A L Q A A I A T K G V Q A V A I S S F T F Q L Y R H G V Y S W P L C P D A L P A L Q N A V A T V G P V A I A L D A S A P D F R F Y S S G V Y Y S S V C K N G V E L M V A V G T V G P V S I A F Q V V S D F R F Y K S G V Y E C H S G E K D V N A L M E A V A T V G P I A V A I D A G H P S F Q F Y K L Y Y E P N C S S K H H L A L K K A V A S V G P I T V C I D A S Q P S F Q L Y K G G V Y D E C N P I V F D A L R E A V A T V G P I S V A I D A G H S S F Q L Y K V Y Y N P T C S S T K L E P S L A N A V A A Q P V A V S L E A G G A N F Q H Y V K G V Y N G P C G T R L E R A L L E A V S R Q P V S I S M D A S G D G F M H Y S G G V Y D G P C G T S S R S L M K A V A S V G P I S V A I D A S L E S F Q F Y E I Y Y D P D C S S E D L D A L R D A V Q N K G P V S V A I D A S L E S F Q F Y K V Y Y D K E C S S K E L K A L L K A V A T V G P I S A A I D A S L F R F Y R V Y Q D P L C G L A G L K A L L K A V A R I G P V S V A V D A S D F M F Y K S G I F F R K G C G R F L N |
| UniRef90_A8NCV6 | UGLKHAVAKHGPVVVGI SGHQRSFRFYKSGUYSSNTCTKP |
| UniRef90_UPI000443E336 UniRef90_W5FSU1 | ELSLTNAVAMQPVAVSIEAGGANFQHYRNGVYNGPCGTRL |
| UniRef90_T0RRE8 UniRef90_A0A059C8I9 | E G P L E T A L K T Q P V A V A V E A G N D V W Q Y Y K G G V V S Q C P G A Q S D E L M K A V A Q Q P V S V L L S A G C Q E E Q S Y S G G V E N S E C G Q Q E D |
| UniRef90_F6ZKC3 | LLLMKVLGTVGPVSVAICSREGFRMYKSGVYYDPYCTTKV |
| UniRef90_Q9U0C8 UniRef90_D3BJ60 | A K L A A W L V Q N G P I S V G V N A N F L Q F Y L G G I S H P P H C S E A G L S D L A D A V K N A G P V S V A I I D A S H N S F Y S H G I I Y Y D A S C S S V N I |
| UniRef90_UPI00032A3D6E | K A L ME A V A T V G P I S V G I D A M H D T F R F Y N G Y Y E P N C S S E S L E L S L T N A V A M Q P V A V S I E A G G A N F Q H Y R N G V Y N G P C G T R L E G P L E T A L K T Q P V A V A V E A G N D V W Q Y Y K G G V V S Q C P G A Q S D E L M K A V A Q Q P V S V I I S A G C Q E F Q S Y S G G V F N S E C G Q Q L D L L L M K V L G T V G P V S V A I C S R E G F R M Y K S G V Y Y D P Y C T T K V A K L A A W L V Q N G P I S V G V N A N F L Q F Y L G G I S H P P H C S E A G L S D L A D A V K N A G P V S V A I D A S H N S F Y S H G I Y Y D A S C S S V N L R A L A V A L Y K V G P V S V G I D A S S F Q F Y K H G V Y Y D P N C N K D D V L Y L W V A V A S I G P V S A A I D A S H D S F R F Y N G Y Y E P N C S S Y F V Q A L A D A V A T I G P I T V A I D A D H F L F Y S S G I Y D E P N C D P N R L R T L M K A V A A V G P I S V G I D A S Q D S F H L Y H L Y Y D P A C S S T K L |
| UniRef90_Q9R014 UniRef90_H2L7M6 | QAL ADAVATI GPI TVAI DADHFLFYSSGIYDEPNCSSYFV |
| UniRef90_H3AU66 | R T L M K A W A A W G P I S V G I D A S Q D S F H L Y H L Y Y D P A C S S T K L |

| UniRef90 UPI00042B35D4 | 170 180 190 200 H A V T A G Y G T S S D G T K Y W M V K N S W G T D W G E K G F M R L K R D V |
|---|---|
| UniRef90_C1MZ34 UniRef90_S4S197 UniRef90_Q5VP99 | DHGVLVVGYGYDGHKHYWTVKNSWGAKWGEEGYTRIARGG DHGVLVVGYGVDDDEKFWIVKNSWGTKWGDHGYILMARDK NHAMTAVGYGTDHGTKYWLMKNSWGTDWGEGGYMKIARDV |
| UniRef90_G7KQI7 UniRef90_Q0WVJ5 | H A V I I V G Y G T S N D G T K Y WL V K N S W G L R W G E K R Y L R M K R D L D H A V L I V G Y G S Q N G V D Y WI V K N S W G K S W G M D G F M H M Q R N T |
| UniRef90_F1L4M4 UniRef90_UPI0002657693 UniRef90_UPI0002B43733 | DHGVLVVGYGTDEDGDYWIVKNSWGPGWGEKGYVRIARNR NHAVLVVGYGTEAGGDYWLVKNSWGTSFGEQGYIKMARN NHGVAIVGYGETSNQAYWLVKNSWGTDWGESGYIR <u>MK</u> RDT |
| UniRef90_M5WG86 UniRef90_B9H4H0 UniRef90_I1GSS7 | HAVTVVGYGTTEDGTKYWLLKNQWGESWGENGYMKILRDA DHAVLIVGYGSENGVDYWIVKNSWGTGWGMRGYMHMQRNS HAVTVVGYGADNKGHKYWIIKNSWAETWGEKGY <u>G</u> RMQRGV |
| UniRef90_G3TYA0 UniRef90_Q7YT27 | NHGVLAVGYGFPDKNKYWLVKNSWGKSWGADGYTKTAKDR DHGVLVVGYGTHGNKDYWLVKNSWGAEWGMEGYIMMSRNK DHGVL <u>V</u> VGYGT <u>D</u> SGGDYWIVKNSWGLSWGQEGYIWMSRNK |
| UniRef90_A9LJ19 UniRef90_B5X3V4 UniRef90_V4RMW9 | N |
| UniRef90_G1KNM8 UniRef90_V4TEU3 UniRef90_UPI0000E47DBA | D H G V L V V G Y G F D N K K K Y W I V K N S W S D K W G D K G Y I L M A K D R H A V T I V G F G T T E D G A N Y W L I K N S W G N T W G D A G Y M K I V R D D H G V L A V G Y G T S D G T D Y F F F F H S W G A A W G M N G Y L W M S R N K |
| UniRef90_I1W259 UniRef90_O60911 UniRef90_Q6A1I0 | M H A V L A V G Y G V E N G V P Y W L K N S W G A D W G D E G Y F K M E M D H G V L V V G Y G T E G G Q D Y F L V K N S W G T R W G M D G Y M M S R N R M G T T T T T T T T T |
| UniRef90_C5LKN8 UniRef90_B4KNQ5 UniRef90_E1Z3J4 | D H Á V V Á V G Y G A D É G S D Y F I L K N S WG S S WG M G G Y F F L K R G V N H A V L V V G F G R P Q G G D F WL V K N S WG A S WG D G G Y I R M S R N R D H A V L V V G Y G T T H N L P Y W L V K N S W G A E W G E K G Y I R L L R N L |
| UniRef90_UPI000444874B UniRef90_S8C022 UniRef90_M3VX87 | DHGVLVVGYGFQDGKKYWIVKNSWGEGWGDKGYVYMAKDR DHAVLIVGYDSKNGKDYWIVKNSWGKSWGMDGYMYVQRNT DHGVLVIGYGTEIGKTYWIVKNSWGANWGIDGYIKMAKDR |
| UniRef90_P20721 UniRef90_W1NRE5 | DHGVVIAGYGTENGMDYWIVRNSWGANCRENGYLRWQRNV NHAVTIIGYGTEDGVDYWLIKNSWGEAWGDNGYMKLKR HAVTAVGYGVSEDGTKYWLIKNSWGKGWGEEGY <u>M</u> KLLRES |
| UniRef90_G7ILI6 UniRef90_UPI0003598CCE UniRef90_Q0GZR6 | D |
| UniRef90_W5K2X6 UniRef90_M4FAU1 UniRef90_A0A059CD85 | Y |
| UniRef90_R0HPK3 UniRef90_U6INH9 UniRef90_UPI0003EC0324 | HAVTI VGYGTSEEGIKYWLLKNSWGEQWGEDGYMRIKRDV NHGVLLVGYGQENGIPYWLIKNSWGSGWGENGYVRIKR NHAVLAVGYGTUNGQDYWLVKNSWGTSFGDQGYIRMARNQ |
| UniRef90_D3ZKC3 UniRef90_UPI0002B42E70 UniRef90_A7UGE2 | D H A V L V V G Y G E E D G G K Y WL V K N S W G E D W G M D G Y K M A K D Q D H A V L V V G Y G T E E G R D F W I V K N S W D T T W G D Q G Y I K M S R N M N H A V L A V G Y G V E N G V P Y W L I K N S W G Q S W G D N G Y F K M E Y |
| UniRef90_A0T069 UniRef90_A0A059D2H9 UniRef90_W5NAF9 | N H G V L A V G Y G T Q S T Q D S WL V K N S W G T Y F G D S G Y T R M S R N D H G V T A V G Y G T E N G T K Y WL V K N S W G T G W G E E G Y T R M Q R D T N H A V L A V G Y G E E N G T P C W V K N S W G K Y W G T N G Y F Y T E R |
| UniRef90_H0VE49 UniRef90_U4UDS9 | NHGVLLVGYGTDGKGDYWLIKNSWGTTWGADGYVKIARNR NHGVLIVGYGSLNGTDYWIIKNSWGLHFGIEGYMLMKRGV NHAVLVIGYGTENGMDYWLVKNSWGVNFGHQGYLKVARNQ |
| UniRef90_UPI0004419124 UniRef90_A9P285 UniRef90_A7RRH6 | DHAVLVIGYSAKNGKDYWIVKNSWGYDWGLEGYFYILRNT DHGVLVIGYSAKNGKDYWIVKNSWGYDWGLEGYFYILRNT DHGVLVIGYGNYNGQDYWLVKNSWGYSWGVEGYIMMSRNK HAVTAVGYGTAEDGTPYWLLKNQWGSTWGEEGYLRLQRGV |
| UniRef90_C5Y698 UniRef90_T0R639 UniRef90_Q9LXW3 | D |
| UniRef90_Q6NV96 UniRef90_E1A0V0 UniRef90_Q9GU62 | N |
| UniRef90_UPI0002C32AD7 UniRef90_A8J7T7 UniRef90_I1GI89 | D H G V L L V G Y G R F K E K P Y WI I K N S W G Q S W G E E G Y Y K I C R N H G V L V V G Y G K D S G S N Y WI V K N S W G A E W G D A G Y I R L K M G T N H G V T L I G Y G E S D G S P Y W L V K N S W G K D W G I D G Y F M L A R Y V |
| UniRef90_A8DS38 UniRef90_A0A059CCD7 UniRef90_Q6LBE7 | NHGVVIVGY WKDYWIVRNSWGRYWGEQGYIRMKR V QEVTVIGYGKTSGGNKYWLLKNSWGTGWGERGYMRILRDV DHAVLAVGYGSEGGQDFWLVKNSWGTSWGSAGYINMARNR |
| UniRef90_I3NG90 UniRef90_A0A059CCF5 UniRef90_W8C780 | NHGVLLVGYGFPNKNKYWLVKNSWSKGWGMDGYLKIARDR THAVAIVGYGTRDCTNYWKIRNSWGETWGEAGYMRIQRDY NHAVLVVGYGSEKGKDYWIVKNSWDKNWGEDGYFRLPR |
| UniRef90_J9HU29 UniRef90_V4AF12 | DHGVLIVGYGFNKTMPYWIVKNSWGPKWGEQGYYRIFR LDHGVLAVGYGTEGSDYWLVKNSWGTVWGMEGYIMMSRNK DHGVAAAGYGVYKKKDYWLVKNSWGNSWGMKGYIMMSRNK |
| UniRef90_D0NHS4 UniRef90_D3BCE4 UniRef90_M4BUI3 | DHEVLAVGYGTLNGADYWLVKNSWGTHYGAEGYLLMSKNK DHEVLAVGYGTLNGADYWIVKNSWSTHYGAEGYLLMSKNK NHAVLAVGYGVEDGKDHWIVKNSWGPKWGLDGFFQIAR NHAVLVVGYGYEDSNKYWLVKNSWGKRWGEAGYLRLAKDR |
| UniRef90_G1TCT0 UniRef90_K1QJ27 UniRef90_I1GI88 | NHAVLVVGYGYEDSNKYWLVKNSWGKRWGEAGYIIRIIAKDR DHAVLIVGYGVYQGKDYWLVKNSWGTSWGMDGYIIMMSRNQ DHGVLAVGYGTYEGEEYWLVKNSWGPSWGMEGYIIMMSRNR NHGVTGYGEEEGDGEKYWIVKNSWGKKWGDGGYFRMKKDV |
| UniRef90_I1ISV5 UniRef90_M4CML6 UniRef90_L5MHS4 | N H A IV IT F IV IG Y G M Q D G T K Y WIL IA K N S W G E T W G E N G Y II IR II IR R D IV I |
| UniRef90_R4WCH2 UniRef90_UPI00032AF550 UniRef90_UPI000441B9EC | NHGVLVVGYGFMDNNKYWIVKNSWGTKWGMDGYIKMAKDL NHAVLAVGYGHHKKADYWLVKNSWGTAWGDSGYIKMRRNH DHGILVVGYGHPNITKYWLVKNSWGPEWGIDGYVKMIRDK HGMLAVGYGSIRENKKYWILKNSWSETWGENGYMRLARRA |
| UniRef90_A8NCV6 UniRef90_UPI000443E336 UniRef90_W5FSU1 | HGMLAVGYGSIRENKKYWILKNSWSETWGENGYMRLARRA SHAVLIVGYGTHRTHDYWIIKNSWGTHWGVKGYGYMARN GHAVLVVGYGSPSRRNYWIVKNSWGKTWGLNGYVKMSKDM |
| UniRef90_T0RRE8 UniRef90_A0A059C8I9 | NHGVTVVGYGEDEGESYWIVKNSWGEKWGDSGYLRMKKGIDHAVIAVGYGSENGKDFFKIRNSWGANWGEKGYLKLQRGVHAVVVVVGYGTSEGTDFWKIRNSWGEQWGERGYMRIQRGR |
| UniRef90_F6ZKC3 UniRef90_Q9U0C8 UniRef90_D3BJ60 | DHAVLVVGYGTDNGKDYWLVKNSWGVGYGDKGYIKMARNR DHAVLLVGYGVSTFRPYWIVKNSWGGGWGEKGYFRMYR DHGVLVVGYGTDDTKNYWIVKNSWGTSWGDKGFIYMSKDR |
| UniRef90_UPI00032A3D6E UniRef90_Q9R014 UniRef90_H2L7M6 | N |
| UniRef90_H3AU66 | DHG VLA V GYGFMGNNKYW IV KNSWGEHWGDNGY T YMAKDR |

| UniRef90_UPI00042B35D4 | 210 A K Q G L C G V A M K A S Y P L |
|--|---|
| UniRef90_C1MZ34 | MGPG <mark>QC</mark> G V AMQASYP <u>T</u> K |
| UniRef90_S4S197 | D N L CG I A T A A S Y P L |
| UniRef90_Q5VP99 UniRef90_G7KQI7 | A N T G L C G L A M Q P S Y P V D K E G L C G I P M D A S Y P |
| UniRef90 Q0WVJ5 | N S D G V C G I N M L A S Y P I K |
| UniRef90_F1L4M4 | D NHCGII ASKASYPII |
| UniRef90_UPI0002657693 UniRef90_UPI0002B43733 | K G N N C G I A S E A G Y P L D R Q G T C G I A M M A S Y P T K |
| UniRef90_M5WG86 | G P E G L C G L A R D A Y Y P T |
| UniRef90_B9H4H0 | G N Q G V C G I N M L A S Y P V K |
| UniRef90_I1GSS7 UniRef90_G3TYA0 | A K E GLCGI A T H A S Y PV N N H C GI A R A A S Y P T |
| UniRef90_Q7YT27 | D NQCGIATQASYPV |
| UniRef90_A9LJ19 | D NQCGII ATSASYPT |
| UniRef90_B5X3V4 UniRef90_V4RMW9 | D NQCGI ALYGCYPV GPGGLCAI NKLASFPI KF |
| UniRef90_G1KNM8 | N NHCGIATAASYPL |
| UniRef90_V4TEU3 | E GLCGI GTRSSYPL |
| UniRef90_UPI0000E47DBA UniRef90_I1W259 | D NQCGIATKASYPL GKNMCGVATCASYPI |
| UniRef90_O60911 | N NHCGIATAASYP |
| UniRef90_Q6A1I0 UniRef90_C5LKN8 | RNNCGIASQASYPI GGHGECNILEYMVVPT |
| UniRef90_C3ERN8 UniRef90_B4KNQ5 | SNQCGIASNAVYPL |
| UniRef90_E1Z3J4 | G K E G Q C G L A M Y A S F P I K |
| UniRef90_UPI000444874B UniRef90_S8C022 | K N H C G I A T A A S Y P L G N Q N I C E I N M M A S Y P V K |
| UniRef90_M3VX87 | K N <mark>H C</mark> G I A <u>T</u> M A S F P V |
| UniRef90_P20721 | SSSGLCGLALEPSYPVK |
| UniRef90_W1NRE5 UniRef90_G7ILI6 | G D D L C G I A D L A S Y P V L G P G G Q C G I A A H A S Y P I I |
| UniRef90_UPI0003598CCE | N NQCGVASQASFPV |
| UniRef90_Q0GZR6 | GRNICGMDSMVS KYNQCGIATEPYYPL |
| UniRef90_W5K2X6 UniRef90_M4FAU1 | DSSGKCGVAMMASYPTK |
| UniRef90_A0A059CD85 | G P E G L R G L A M H P S Y P V |
| UniRef90_R0HPK3 UniRef90_U6INH9 | D P E G A C G L A K L A F Y P L L G I N L C G V A T A A S F P L I |
| UniRef90_UPI0003EC0324 | N DQCGIARDACYPV |
| UniRef90_D3ZKC3 | N NNCGI ATYADYPT |
| UniRef90_UPI0002B42E70 UniRef90_A7UGE2 | S N Q C G I A T K A S Y P I G K N M C G V A T C A S Y P V |
| UniRef90_A0T069 | K G N Q <mark>C</mark> G L A L Y G <mark>C</mark> Y P L T |
| UniRef90_A0A059D2H9 UniRef90_W5NAF9 | D GKNM <mark>C</mark> GLAG <mark>C</mark> SSYPI |
| UniRef90_W3NAF9 | N NHCGVATAASYPL |
| UniRef90_U4UDS9 | N Q C G V A L D P S Y P V L |
| UniRef90_UPI0004419124 UniRef90_A9P285 | G NRCGIASYGSYPLT EPYGVCAINAMASYPTK |
| UniRef90_A7RRH6 | N NQCGIASSASYPL |
| UniRef90_C5Y698 UniRef90_T0R639 | G A C G V A K D A S Y P V N N Q C G I A T D A S Y P I |
| UniRef90_Q9LXW3 | E P T G K C A V A V A P V Y P I K |
| UniRef90_Q6NV96 | N NHCGII IASYAIVIYP |
| UniRef90_E1A0V0 UniRef90 Q9GU62 | A I CGI A Q M A S Y P V |
| UniRef90_UPI0002C32AD7 | GRNIVI <mark>C</mark> GIVIDSMIVIS |
| UniRef90_A8J7T7 UniRef90_I1GI89 | DAEGLCGIAMAPSYPVK G_NMCGVATDASYPI |
| UniRef90_A8DS38 | G G C G L C G I A R L P Y Y P T K |
| UniRef90_A0A059CCD7 | SKAG <mark>L C</mark> GLATEPFFPT |
| UniRef90_Q6LBE7 UniRef90_I3NG90 | N N C G I A T D A S Y P T N V C G I A T A A C Y P T |
| UniRef90_A0A059CCF5 | APEGLCGIAMHASYPV |
| UniRef90_W8C780 UniRef90_J9HU29 | G S N F C G I A E E C S Y P L G D N T C G V S E M A S S A V |
| UniRef90_V4AF12 | N NQCGIATSASYPL |
| UniRef90_D0NHS4 | D NOCGILALDALYPILL |
| UniRef90_D3BCE4 UniRef90_M4BUI3 | G NNCGVASQPTYPV GHNMCGLADCASYPV |
| UniRef90_G1TCT0 | N NHCGII ASHASYPT |
| UniRef90_K1QJ27 | N NQCGIANHAVYPT ENNCGIATMASYPT |
| UniRef90_I1GI88 UniRef90_I1ISV5 | ENNCGIATMASYPT AGEGLCGIAIRPSFPL |
| UniRef90_M4CML6 | A P Q G M C G V A Q Y A F Y P V |
| UniRef90_L5MHS4 UniRef90_R4WCH2 | D NHCGI ASMASYPT KNHCGI ATFASYP |
| UniRef90_UPI00032AF550 | D NHCGIASAASYP <u>T</u> |
| UniRef90_UPI000441B9EC | H N H C G V A S M A S Y P I I |
| UniRef90_A8NCV6 UniRef90_UPI000443E336 | K G N M C H V A S M G S F P L D N N C G I A T S A S Y P T |
| UniRef90_W5FSU1 | KPEGLCGIALRPSFP |
| UniRef90_T0RRE8 UniRef90_A0A059C8I9 | G G K G M C N V A E E P A Y P G S E G C R V A S K A <u>S</u> Y P T |
| UniRef90_F6ZKC3 | G NNCAIASHAVYPT |
| UniRef90_Q9U0C8 | G D G T <mark>C</mark> G I N A D P T |
| UniRef90_D3BJ60 UniRef90_UPI00032A3D6E | D N N C G I A S C A S Y P I N R G N V C G I T N L A S Y P I |
| UniRef90_Q9R014 | N N H C G I A S L A S Y P N I F |
| UniRef90_H2L7M6 UniRef90_H3AU66 | G S N T C G I A S Y A L Y P I G N N C G I A T S A S Y P L |
| 0111110100_110A000 | O NINO OF A TOROTE |

| UniRef90_K3W9N3 UniRef90_V4LNA5 UniRef90_H2RM84 UniRef90_W5ANZ6 | 1 | 40 A L K I A K |
|---|---|--------------------------|
| UniRef90_C5YI39 UniRef90_A9NKS7 UniRef90_S4RFQ7 UniRef90_C5LUC1 | VPAKWDWRRHGAVTPVKNQGQCGSCWAFSMVGSVEGIN LPEDFDWREKGAVTEVKNQGSCGSCWAFSTTGALEGAN PDTMDWRLYGAVTPVKDQACCGSCWAFSTTGTLEGSL LPTSVDWRSKGVLTPIKNQGACGSCWAFSSTGTLESKY | A I F L A I |
| UniRef90_024641 UniRef90_Q0IIR8 UniRef90_V5I8D1 UniRef90_F6YW01 | S D W R D Y G A V T E V K D Q N P C G S C W A F S A I A T V E G I Y | K I K K A I K K |
| UniRef90_UPl0002C37664 UniRef90_P25804 UniRef90_UPl00039550A2 UniRef90_UPl0001DE720D | I P A S I D WR E H G A V T P I K D Q G K C G A C WA F T V V A A V E G I T L P E D F D WR E K G A V T P V K D Q G S C G S C WA F S T T G A L E G A H L P E S L D WR M Y G A V T P V K D Q A V C G S C WS F A T T G A M E G A L P A S I D WR T K G C V T P V R K Q G D C G S C Y A F S T V G A M E C Q V | K I Y L F L K K |
| UniRef90_A1YJR6 UniRef90_UPl0004541C8A UniRef90_M4DB45 UniRef90_A3EXY2 | N F D WR Q K G A V T H V K N Q G Q C G S C W S F S T T G S T E G A N I P K T L D WR T Q G Y V G P V R R Q N G C G A C W A F A L A G S I E G Q M L P E S V D WR K E G A V T A V K D Q G S C S S C W A F S S V A A V E G I N K K G A V T E V K D Q G D C G S C Y A F S T T G S I E G Q Q | FL FK KL FR |
| UniRef90_G7ILI4 UniRef90_M4EXK8 UniRef90_Q9VN93 UniRef90_C4B4C8 | V P T N F D WR E K G V V T D V K N Q R Q C G C C WA F T A V A A V E G V V L P T D F D WR D K G A V T P V K N Q G S C G S C WS F S A T G A L E G A H L P K E F D WR Q K D A V T Q V K N Q G S C G S C WA F S V T G N I E G L Y P D S F D WR D H G A V T G V K D Q G S C G S C WA F S V T G N I E G Q W | K I F L A V K M |
| UniRef90_B5KVP9 UniRef90_Q10716 UniRef90_Q9ET52 UniRef90_UP100023B3412 | L P D D F D WR D H G A V G P V K N Q G S C G S C W S F S A S G A L E G A H L P K F V D WR K K G Y V T R V R R Q K F C N S C W A F A V N G A L E G Q M L P S T M D WR K K R T V T H I K N Q L Q C G G C W A F S A V A A M E G L A | K I Y L F K K L |
| UniRef90_Q86GF6 UniRef90_D8M736 UniRef90_A0A044S4M0 UniRef90_A8I598 | ESI DWR EK GAVT PVK DQGQCGSCWAFSTTGALEGAN ESI DWR EK GAVT PVK NQGSCGSCWAFSATGALEGGN LPKHI DWR DVGAVTGVK DQGNCGSCWTFSSTGALEGQH VPTSI DWR ESGYVTEVK NQGGCGSCWAFSTTGAMEGQY | F L M K |
| UniRef90_A3FMG6 UniRef90_J9HL09 UniRef90_V4BWX2 UniRef90_A9TTL3 UniRef90_B5XGB8 | VN WVE QGAVTPVK DQGQCGSCWSFSATGAMEGHA LPTEVDWRKRGLVTPSIJYQGECGDGWAFAAADAVYGQL LPPSFDWREKGAVGPVK NQGSCGSCWSFSTTGAVEGAH EVDWRKVNAVSPVK DQGNCGSCWSFSTTGAMESQY | K K K I V K F L |
| UniRef90_Q0WYE6 UniRef90_A8E4X3 UniRef90_I1GXR7 UniRef90_K7F3Q8 | LPESIDWREKGAVAPVKNQGQCGSCWAFSAVSTWESIN PDQWDWRDHGAVTEVKNQGMCGSCWAFSVIGNIEGQW VPPSIDWRARGAVTSVKDQHLCACCWAFSSAAAVEGIH LPEFLDWRLYGAVTPVKDQAVCGSCWTFAVTGTMEGAL | Q I F L |
| UniRef90_K7J503 UniRef90_G4VBC3 UniRef90_I1FBX8 UniRef90_UPI00022CA8F2 | V | F K F R |
| UniRef90_M4EMC6 UniRef90_J3N066 UniRef90_Q70EX0 UniRef90_Q7YXL2 | VPESIDWREKGAVNPVRDQEQCGSCWAFSAAGALEGQR LAASVDWRS NAVSEVKDQGQCGSCWSFSTTGAVEGQID | A I F L A L |
| UniRef90_F6RXJ3 UniRef90_Q9U520 UniRef90_D3ZZ07 UniRef90_J9HM17 | I P T H V D WR R R G V T S V K D Q G D C G S C W A F S A T G A M E G V Y | A L C A |
| UniRef90_W4WA21 UniRef90_R4WCK9 UniRef90_U4U4T9 UniRef90_M8AH84 UniRef90_A0A022RK00 | L PK S V D WR D H G AV S P V L N Q G R C G G C Y A F S T A A A V E G A Y V P P S F D WR Q K G V T P V K N Q G Q C G S C WA F S V T G N V E G Q Y V P E E V D WR Q Q G A V T P V K N Q A A C G S C WA F S A T G A L E G Q H L P N A T D WR N E G A V T R V K D Q G S C G S C WA F S T V A A V E G I N S S R S F R K K G A V T E V K N Q G Q C G S C WA F S T V A A V E G I N L P N E V D WR K N G A V T R V K D Q G C G S C WA F S T V A A V E G I N L P N E V D WR K N G A V T R V K D Q G C G S C WA F S T V A A V E G I T V A C C G S C WA F S T V A A V E G I T V A C C G S C WA F S T V A A V E G I T V A C C G S C WA F S T V A A V E G I T V A C C G S C WA F S T V A A V E G I T V A C C G S C WA F S T V A A V E G I T V A C C G S C WA F S T V A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C G S C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C WA F S T V A A A V E G I T V A C C C C C C WA F S T V A A A V E G I T V A C C C C C C C WA F S T V A | F R Y L I |
| UniRef90_A8P4Q6 UniRef90_Q76EL0 UniRef90_UP10002658EE1 UniRef90_W5B2D9 | PKKIDYRDLGYATPVKDQGQCGSCWAFSTTGAMEGQL | FR |
| UniRef90_D3DEQ3 UniRef90_C5LIY3 UniRef90_W9R6H3 UniRef90_UPl00038C4F10 | PNSVDWRARGAVTPVKYQGHCGSCWAFAAVAATEGLVESIDWRTKGAVTSIKYQAQCGASYAFAATGALEGASLPTSVDWRKKGVLNPVKDQGYCGSCWAFSALGALEPRYPPYMDWRERGAVTPIKHQHYCGSCWAFSAAAAVEGLTVPKSVDWREKGFITPVRFQGRCSSCWAFSAAGIGALEGQMLPKSVDWREKGFITPVRQQGRCGSCWAFSATGAVEGQL | A L A I Q L Y K |
| UniRef90_G3VG72 UniRef90_B5LT52 UniRef90_P14080 UniRef90_F0YC80 | PDIVDWRIKDAVIKVKDQSQCGASYAFSAVGALEGAN PQSIDWRAKGAVTPVKNQGACGSCWAFSTLATVEGLN | A L K I E I |
| UniRef90_UPI00035A2E6A UniRef90_Q23EG5 UniRef90_UPI000350F6EA UniRef90_K3Y348 | I P A A V D WS E K G Y V I D A K D Q G D C C WA F S T G A V E S A N L D A A V D WS E K G Y V T D A K D Q G D C C WA F S A T A A V E S I N | I R A L F L |
| UniRef90_B4G780 UniRef90_UP10002C67AE5 UniRef90_G1Q5B6 UniRef90_A0024GAD9 | I P E S L D WR R K G F T T P S Q N Q Q S C G S C Y A F S I A E S I E G Q I P E S V D WR E K G S X T P V K D Q G L C G S C WA F S A T G A L E G H T I P P T V D WR E E G Y V T P M K N L S H C G S C WA V S A T G A L E E Q M V P D I WD WR S H D A V T P V K N Q G Q C G S C WA F S A V A A L E S V Y P E S L D WR T K G A V T S V K N Q G D C G A S Y A F S A I G S L E G A L L P K M V D WR L R G V V T P V K H Q G K C G T C WA F A I L G A T E A Q Y | F W |
| UniRef90_Q9U554 UniRef90_D6WR26 UniRef90_G3IHL8 UniRef90_R0GQ16 UniRef90_A2I407 | T S K D WR A F G A V T P V K S Q G S C G S C WA F S A V A A V F G L T | F K K II |
| UniRef90_A21407 UniRef90_018348 UniRef90_A8WQK9 UniRef90_C5KZ17 UniRef90_Q717S0 | P D S V D WR T K G L V G P V G K Q V N C S S G Y A W S A L G A L E G Q L L P K Y V D WR K R G Y V T P A K E Q G L C G S C Y A F A A A A A L E A Y N L P D S F D WR D H G A V T Q V K N Q G N C G S C W A F S T T G N V E G A W P K S V D WR A G A V T P V R K Q A G C G C C Y A M A T T E A T E G L F D A V D W R K E G A V T P V K N Q G H C G S C W A F S A V G A L E G Q F P G S V D W R S K R C V Q Y V K N Q G S C G S C Y S F S A L G A L E T S Y | OIL |
| UniRef90_UPI0002657311 UniRef90_G3SFF1 UniRef90_D6WPZ3 | D A V D WR K E G A V T P V K N Q G H C G S C WA F S A V G A I E G Q F P G S V D WR S K R C V Q Y V K N Q G S C G S C Y S F S A L G A L E T S Y P T S V D WR E K G Y M T P V K D Q G Q C G S C WA F S A T G A L E G Q V L P K E F D WR K K N V V T E V K N Q E Q C G S C WA F S V T G N V E G Q Y P S S L D WR K K G I V T P I K D Q G S C G S C WA F S S T G G I E G I N | CN FW AL |

| | 50 00 50 |
|---|--|
| UniRef90 K3W9N3 | 50 60 70 80 STGK L ES L SEQE LV D <mark>C </mark> VL GG DT <mark>C</mark> NHGGEMHDGFEE I HK |
| UniRef90_V4LNA5 | AHGKILVISILSEQQILID <mark>C</mark> DREYDRG <mark>C</mark> NG GI MSDAFNYII I QN |
| UniRef90_H2RM84 | KTGKL VDL SPQNL V DCVKENDGCGGGYMTNAFRYVATN |
| UniRef90_W5ANZ6 UniRef90_C5YI39 | KTGTLVPLSEQQLVD <mark>C</mark> DKYD GG <mark>C</mark> NRGYYHRAFQW <u>I</u> MEN KTGKLQTLSEQEVLD <mark>C</mark> SAGT <mark>C</mark> KGGNTYKSFDHAMRPGLAL |
| UniRef90_C51139 UniRef90_A9NKS7 | KTGELVSLSEQQLVD <mark>C</mark> DHE <mark>CC</mark> DSG <mark>C</mark> NGGLMTSAYQY <u>AL</u> KS |
| UniRef90_S4RFQ7 | K T G Q L I R L S Q Q M L V D <mark>C</mark> T W G F G N N A <mark>C</mark> D G G E E W R A F E W I M K H |
| UniRef90_C5LUC1 | <u>E</u> ŢĢQLRŞFSEQQLVD <mark>C</mark> SRGYGTGG <mark>C</mark> AGGW <u>M</u> YQAFDYVKDK |
| UniRef90_O24641 | VT GYL VSL SEQEVLD CAVSNGCDG GFVDNAYDFILISN |
| UniRef90_Q0IIR8 UniRef90_V5I8D1 | KKGKLVDLSPQNLV DCVKKNDGCGGGYMTNAFEYVRDN STGNLVSLSEQNLMDCATANWGC DGGWMQTAFDYVRE |
| UniRef90_F6YW01 | KTVRL VT FSPQEL VD CSDGEGNHGCNGGKI E KAFKY MKKY |
| UniRef90_UPI0002C37664 | KTGKILI ISE SEQQIL VID <mark>C</mark> DVQNNG <mark>C</mark> DAS DII DVAFEYIIKQN |
| UniRef90_P25804 UniRef90_UPI00039550A2 | |
| UniRef90_UPI0001DE720D | KTGRLVILSPQELVD <mark>C</mark> SYTEGNNG <mark>C</mark> INGNLLSAFRYMEKY |
| UniRef90_A1YJR6 | KRGTLVSLSEQNLID <mark>C</mark> SGSYGNNG <mark>C</mark> NGGLMDYAFEYLINN |
| UniRef90_UPI0004541C8A UniRef90_M4DB45 | KTGKMTQLSVQNLID <mark>C</mark> SRTYGTNG <mark>C</mark> KGGRLYNAFQYVKNN VTGELISLSEQQLVD <mark>C</mark> NTGNYG <mark>C</mark> DRGYMDISFKFLINNNI |
| UniRef90 A3EXY2 | K S G I L K S L S E Q Q I I I D C S I V K Y G N G G C E G G I V IM E N A F N Y I V I I D N |
| UniRef90_G7ILI4 | KNGNLTSLSEQQLVDCDRQSSGC GGGDFVLAFDSLIKS |
| UniRef90_M4EXK8 UniRef90_Q9VN93 | A T K E L V S L S E Q Q L V D <mark>C</mark> D H E <mark>C C</mark> D S G <mark>C</mark> G G G L M N N A F E Y T L K A K T G E L K E F S E Q E L L D C D T T D S A C N G G L M D N A Y K A I K D I |
| UniRef90_Q9VN93 UniRef90_C4B4C8 | KTGDLVSLSEQELVD <mark>C</mark> DKLDQG <mark>C</mark> NGGLP DNAYRAIIEQL |
| UniRef90_B5KVP9 | KTGDLVSLSEQELVD <mark>C</mark> DKLDQG <mark>C</mark> NGGLP DNAYRAI EQL TTGKLVSLSEQELID <mark>C</mark> DPYD GG <mark>C</mark> NLGYFVNGYRWVIQN |
| UniRef90_Q10716 | ATGKLEVLSEQQFVD <mark>C</mark> DHE <mark>CC</mark> DSG <mark>C</mark> NGGLMTTAFSYLQKA |
| UniRef90_Q9ET52 UniRef90_UPI00023B3412 | KTGKLTPLSVQNLVD <mark>C</mark> TKTQGNDG <mark>C</mark> QWGDPY[AYEYVLNN QTSK <u>S</u> SLSEQELVD <mark>C</mark> D[FGSN[]G <mark>C</mark> EGG <mark>CM</mark> DDAFKF |
| UniRef90_Q86GF6 | KHGDLVSLSEQNLVDCSTENSGC NGGVVQWAYDYIKSN |
| UniRef90_D8M736 | ATGK LV S L SEQQ LV D <mark>C</mark> DTEDAG <mark>C</mark> GGGFMDTAFEY V MKK |
| UniRef90_A0A044S4M0 UniRef90_A8I598 | LHGKLVSLSEQNILD <mark>C</mark> SSNDTYGNLG <mark>C</mark> GEMTDAFHYLTDS SQRINISFSEQQLVDCSGDFGNHGCSGGLMEKAYEYL RH |
| UniRef90_A3FMG6 | N |
| UniRef90_J9HL09 | QFGTLYSLSEQQLVD <mark>C</mark> SQAEGNEG <mark>C</mark> GGGWMDQAFQYVEQT |
| UniRef90_V4BWX2 UniRef90_A9TTL3 | K E G K <u>H T I </u> |
| UniRef90_B5XGB8 | KYGKMKLFSEQQLVDCDRQNDDQGCNGGFPVAAFEYIREF |
| UniRef90_Q0WYE6 | VTGEMVTLSEQEL VECDINGGSSGCNGGLMDDAFEFI IKN |
| UniRef90_A8E4X3 UniRef90_I1GXR7 | K K G S L V S L S E Q E L V D C D G V D H A C A G G L P S N A Y E A I E K L T T G N Q V S L S V Q Q L V D C S N A A N E K C K A G E L D K A Y E Y I A R S |
| UniRef90_FTGAR7 | KTGVLTSLSQQVLVD <mark>C</mark> SWGFGNYG <mark>C</mark> DGGEEA <u>S</u> AYEWIKKH |
| UniRef90_K7J503 | KTGVLTALSAQNLID <mark>C</mark> TMEYGNLG <mark>C</mark> GGGSAALSFQFVVDQ |
| UniRef90_G4VBC3 | KEGKHTI PSVQNL VDCSRPQGNYGCEGGYSVNAFKYI IEN ATGKLLSLSEQQLVDCDHQCCDAGCGGGLMTNAYKYVEEA KYGKMKLFSEQQLVDCDRQNIDQGCNGGFPVAAFEYI REF VTGEMVTLSEQELVECDINGGSSGCNGGLMDDAFEFI IKN KKGSLVSLSEQELVDCDGVDHACAGGLPSNAYEAI EKL TTGNQVSLSVQQLVDCSNAANEKCKAGGLPSNAYEYI ARS KTGVLTSLSQQVLVDCSWGFGNYGCDGGEEASAYEWI KKH KTGVLTALSAQNLI DCTMEYGNLGCGGGSAALSFQFVVDQ KTGKLLSLSEQQLVDCDGLDDGCNGGLPSNAYESI IKM KTGQLI SLSKQQLVDCDSRSFNNRGCKGGLPSQAFEYI RYN KHNOLI SLSEQFI VDCDSIDFGC |
| UniRef90_I1FBX8 UniRef90_UPI00022CA8F2 | KTGQLISLSKQQLLD <mark>C</mark> SRSFNNRG <mark>C</mark> KGGLPSQAFEYIRYN KHNQLLSLSEQELVD <mark>C</mark> DSLDEG <mark>C</mark> NGG <u>D</u> MENAYKAIERL |
| UniRef90_M4EMC6 | _ |
| UniRef90_J3N066 | A T K K K P IV IT IL IS E Q QIV L ID <mark>C</mark> S G G G D <mark>C</mark> N G G Y IV IS T IV L IS S F A IV IK K |
| UniRef90_Q70EX0 UniRef90_Q7YXL2 | KEGKLEVLSTQQLVDCSRDYKNEGCNGGWPHWAYDYIKD QRGRLTSLSEQNLIDCSSSYGNAGCDGGWMDSAFSYIHDY |
| UniRef90_F6RXJ3 | ATGKLLSLAEQQLVD <mark>C</mark> AQA <u>F</u> NNHG <mark>C</mark> NGGLPSQAFEYI <u>M</u> YN |
| UniRef90_Q9U520 | KTGKLVNLSQQQLVDCSRFLGNQGCDGGRMEEAFEYVVEN KTGKLIPLSVQNLIDCTVTYGNNDCSGGKPYTAFQYVKNN |
| UniRef90_D3ZZ07 UniRef90_J9HM17 | |
| UniRef90_W4WA21 | K S G E F K Q L S V Q Q I L D C T N G S P W S N A G C G G F M T N S F R Y L Q S K H G Q L L S L S E Q E L V D C D D L D E G C N G G L P D N A Y R A L E Q L |
| UniRef90_R4WCK9 | KTGQLVKLSEQQLVDCGGEYGNLGCQGGWPYRGYYYMINK |
| UniRef90_U4U4T9 UniRef90 M8AH84 | VIT GNUT AU SEQUIL DCS |
| UniRef90_A0A022RK00 | ŔŤŇĸĹ <u>M</u> ŚĹŠĀQĒĹVĎ <mark>Č</mark> Ď <u>TG</u> NĹQ <mark>C</mark> EGG <u>Y</u> AWK_ AFRFIKEN |
| UniRef90_A8P4Q6 | KTGKILISILSEQEILIDCOVIDKGCNGGLP IN AFREIKRM |
| UniRef90_Q76EL0 UniRef90_UPI0002658EE1 | NNGKLTRFSEQQLVDCSWDFSNTGCSGGSIESAFSYVKEY |
| UniRef90_W5B2D9 | A T G N L T S M S E Q Q V L D C T G G A N S C K S G F V N A A L T Y I T A S |
| UniRef90_D3DEQ3 UniRef90_C5LIY3 | ANDKQIVII LISEQNII I D <mark>C</mark> SVIPYGNHG <mark>C</mark> SGGDTYTALIKYVI I DN |
| UniRef90_W9R6H3 | RTGKLLSLSEQELLDCAVYGNNGCRG GFVENAFSFILOS |
| UniRef90_UPI00038C4F10 | KŢGKLIPLSVQNLVD <mark>C</mark> SKSHGNHG <mark>C</mark> DWGNTYYAFLSVWIN |
| UniRef90_G3VG72 UniRef90_B5LT52 | KIGKILVEILISKQNILID <mark>C</mark> S KFQG <mark>CH</mark> GGTVTSAFKYIIKKN |
| UniRef90_P14080 | VT GNL LELSE QEL VD C DKHSYGC KGGYQTT SLQYVAN |
| UniRef90_F0YC80 | AGNTLTSLSEQNLVDCDTTDSGC NGGLMDNAFKWIQSN |
| UniRef90_UPI00035A2E6A UniRef90_Q23EG5 | KILIG KILIT PILIS VIQ NIL VID CS KSQGNNGCLIS GDTYNAFQYV LIHN |
| UniRef90_UPI000350F6EA | ATGK L LDL SEQQL VDCDHKCCDNGCGGGLMTNAYAYL MES |
| UniRef90_K3Y348 | RTKNLVSLSEQQVVD <mark>C</mark> DTSNNG <mark>C</mark> NGGLATK AFDYIIKN |
| UniRef90_B4G780 UniRef90_UPI0002C67AE5 | KIGKILISILISEQQII VID <mark>C</mark> SIVISHGNQG <mark>C</mark> TGG <u>SILI</u> RNTLIKYLQST |
| UniRef90_UPI0002C67AE5 | KTGRILISILSEQNILVIDCSOAQGNEGCNGGI MDNAFAYVKSN |
| UniRef90_A0A024GAD9 | STGNLVSFSEQELVD <mark>C</mark> TMGGVDT <mark>CN</mark> HGGEMHDGF <u>E</u> EII I QH |
| UniRef90_Q9U554 | A Q G K L T Y L S E Q N V I D C S V A Y G N H G C Q G G N M Y N T Y L Y I L S N |
| UniRef90_D6WR26 UniRef90_G3IHL8 | KTGNLTRLSVQNLVDCSKPHGNNGCDWGDPYIIAYEYVIHN |
| UniRef90_R0GQ16 | TGKNLTSLSEQQLID <mark>C</mark> D KHNGG <mark>C</mark> TAGQSYDAFDYIAKN |
| UniRef90_A2I407 | DKKKFQGI SVQNVI D <mark>C</mark> SESTGNKG <mark>C</mark> SGGNQHHSYFYLYKQ |
| UniRef90_O18348 UniRef90_A8WQK9 | AKKKIL VISILIS EQEIL VID CD SIVID OG CNGGII PE SNAYK FII MRM |
| UniRef90_C5KZ17 | KTNKLIQLSVQQIVD <mark>C</mark> SAFFGNEG <mark>C</mark> TGGFQYNSYHYIDEE |
| UniRef90_Q717S0 | KNGTIL VISILIS A QEIL VIDI <mark>C</mark> ATEYYGNEG <mark>C</mark> NGGLMGQAFDFVED |
| UniRef90_UPI0002657311 UniRef90_G3SFF1 | KTGKILISI NEONI VD <mark>O</mark> SGPOGNEG <mark>O</mark> NGGEMDNPERVIVOEN |
| UniRef90_D6WPZ3 | K + G Q |
| UniRef90_UPI0002C37844 | VTGDLISLSEQELVDCDTTNYGC SGGYMDYAFEWVISN |
| UniRef90_J3N068 | KIGKIL <u>L</u> INILISEQQIVLID <mark>U</mark> SGGGN <mark>U</mark> SGGYPYT A <u>L</u> IQYARDT |

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| No. 
                                                                                                                                                                                                                                                              UniRef90_K3W9N3
UniRef90_V4LNA5
UniRef90_H2RM84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q%GKZ_GJZGKGHJGGGRZGAAG%AZHHAAAGQGPGLMHKRGGQG%%%QQG%%%QGHGAPRHGTGTAHGG%GHQGYZQHGGJK%GGHTD
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UniRef90_UPI00038C4F10
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UniRef90_J3N068

| UniRef90_K3W9N3 UniRef90_V4LNA5 | 130 140 150 160 E A A L Q A A I A T K G V S V A L D A S S F T F Q L Y R H G V Y S W N G P D Q L E Q A L L E A V S R Q P V S V S M D A N G E G F M H Y S G G V Y P N C G T S S N K Q L A Y A L F K H G P L A V G L D A S T F Q L Y S K G V Y Y D P N C N P E N I |
|--|---|
| UniRef90_H2RM84 UniRef90_W5ANZ6 UniRef90_C5Yl39 UniRef90_A9NKS7 | E QAL LE AVS R QPV S V S M D A N G E G F M H Y S G G V Y P N C G T S S N K QL A Y A L F K H G P L A V G L D A S T F Q L Y S K G V Y Y D P N C N P E N L L A L Q S A V A R Q P L G V A L E V P S S M Q F Y K S G V F S A P C G L Q M S H E A E L L L R V S K Q P V S V V P A S Q A F S R Y S K G V F T G P C G T N L N G Q L A A N L V K N G P L S V G L N A F M Q T Y V G G V S C P Y V C S K R N L Q A L R L A L F K N G P V S V S L D A G H L S F A F Y S N G V Y Y E P K C H D L |
| UniRef90_S4RFQ7 UniRef90_C5LUC1 UniRef90_024641 UniRef90_Q0IIR8 | S S M K Y A V W N Q P I A A A I D A S G D N F Q Y Y S G G I Y S G D C N Y Q I S S M K Y A V W N Q P I A A A I D A S G D N F Q Y Y N G G V F S G P C N A E N I A S G D N F Q Y Y S K G V Y |
| UniRef90_V5I8D1 UniRef90_F6YW01 UniRef90_UPI0002C37664 | DAL LDAVANI GPVSVDI NA DYMMYYQGGLFDDSACDDQM TLLMNTVGTI GPVSVSI NASSEKFHQFKVYYNPDCLPNKV YDI I I MAVSI QPVSVAI DVGDAFQSYHKGVFSGSCGHDVN |
| UniRef90_P25804 UniRef90_UPI00039550A2 UniRef90_UPI0001DE720D UniRef90_A1YJR6 | TAVKAAI YKHGPVAVSI DASHFSFYSNGLYYEPKCDNTPG NVLKNAVGTVGPVSVAVDARQNFRTYKSGVYFDPYCTLHV NALLNAVALEPTVAI DASHNSFQFYSGGVYYESSCSSTQL |
| UniRef90_UPI0004541C8A UniRef90_M4DB45 UniRef90_A3EXY2 UniRef90_G7ILI4 | |
| UniRef90_M4EXK8 UniRef90_Q9VN93 UniRef90_C4B4C8 UniRef90_B5KVP9 | T A MQE WL LANGPI SI GI NANAMWMQIYI GGVS CPYI CSKSQD T A MQE WL LANGPI SI GI NANAMQFYRGGVS HPWKCSKKNL T D MAK WL VK H G PI SI GI NANAMQFYMGGI S HPWRCNPSNL G O O O O O O O O O O O O O O O O O O O |
| UniRef90_Q10716 UniRef90_Q9ET52 UniRef90_UPl00023B3412 UniRef90_Q86GF6 | DILMEAVATIGPISAAVDASFNRFSFYDGGIYHQPNCSNN FKAIIKVVAHQPISVAIDAGGSFQFYFIGIITXFSGNDID |
| UniRef90_D8M736 UniRef90_A0A044S4M0 UniRef90_A8I598 | G V A L K Q A L T K A P V S V A Q A D S F V F Q M Y T G G V L D S D M C G T S |
| UniRef90_A3FMG6 UniRef90_J9HL09 UniRef90_V4BWX2 UniRef90_A9TTL3 | VALKNLIGVEGPAAVALDVNIDFMMYKSGIYQDICSSRYLIELKNLVGTEGPAAVALDADSDFMMYQSGIYQSQTCPDRLVNELKAALDKGPVSVAIEADQMFQFYSGGVINDASCGTTLLDLQRAVANVGPVAVDIQADLPSFRTYNVYDDSNCTGSQLDQVAAYLIKSGPLAIGINAEFMQTYVAGVSCPIFCNKRNLNALTEALYKRGPISVAIDASSSDFQFYHSGVYQNPSCGDH |
| UniRef90_B5XGB8 UniRef90_Q0WYE6 UniRef90_A8E4X3 UniRef90_I1GXR7 | NEI AAWLAA O NG PISIAL NA FAMQ FYRKGISHPFR CN PWMI |
| UniRef90_K7F3Q8 UniRef90_K7J503 UniRef90_G4VBC3 UniRef90_I1FBX8 | TALKAAI YKNGPIVIALISI DASHRSFSFYSSGVYYEPKOSDL |
| UniRef90_UPI00022CA8F2 UniRef90_M4EMC6 UniRef90_J3N066 UniRef90_Q70EX0 | TELAAWLYHNSTISVGMNALLLQFYQHGISHPWWCSKYLLDDIAVALANIGPVSIGIHSTKSFATYKKGIYCSKNPRKINKRMAQWLVKNGPISVGINANAMQFYFGGVSHPFLCNPKNLEQSLLKAVSKQPVSVAINGHEPAFKQYRSGIFDGDCGTQLEAALKLAVYTRPVSVLIEADKNFQLYKAGVYSGPCGTKVNEALKEAVGTAGPIAVCVNANDDWQLYSGGISQSCPGGESINSLADAVGQAGPVAVAIDATDELQFYSGGFYDQTCNQSDL |
| UniRef90_Q7YXL2 UniRef90_F6RXJ3 UniRef90_Q9U520 | E A L K E A V G T A G P I A V C V N A N D D W Q L Y S G G I S Q S C P G G E S I N S L A D A V G Q A G P V A V A L D A T D E L Q F Y S G G F Y D Q T C N Q S D L E A M T E A V A H H N P V S F A F E V T E D F M S Y R D G I Y S C D K S P D K V K S M K T A L A L R S P V S V A I Q A N Q A A F Q F Y Y D G I F D A P C G T N L |
| UniRef90_D3ZZ07 UniRef90_J9HM17 UniRef90_W4WA21 UniRef90_R4WCK9 | T QSL LE AVAK QPV SI A MY A S G D F Y Y Y K T GV L DVD E C SVKV T QI A QWL VQNGPI AI GINANAMQF G ML KIAVA T V G PL SI CI DV T NI F K F Y K S GIF D D S C S S L Y T |
| UniRef90_U4U4T9 UniRef90_M8AH84 UniRef90_A0A022RK00 UniRef90_A8P4Q6 | NSLADAVGQAGPVAVALDATDELQFYSGGFYDQTCNQSDLEAMTEAVAHNPVSFAFEVTEDFMSYRDGLYSCDKSPDKVKSMKTALALRSPVSVAIQANQAAFQFYYDGIFDAPCGTNLEALMQALVTYGPIAVAIDGSHASFKRYRGGIYHEPKCRRDTQSLLEAVAKQPVSIAMYASGDFYYYKTGVLDVDECSVKVTQIAQWLVQNGPIAIGINANAMQFGMLKIAVATVGPLSICIDVTNIFKFYKSGIFDDSCSSIYTETLLTVVGFLGPTSVALEASGLAFYSQGIYTSSQCSQTTTTEQALIKALAHQPVSVAIEASGRAFYSQGIYTSSQCSQTTTTEQALIKALAHQPVSVAIEASGRAFYSNGVFTGNCGTEFTVMKAWIAQRGPLSVGIDAESYYKSGLLHPSKSRCPPSKIRALMKAVAAVGPVSVAIDAGSFVYYKSGLLHPSKSRCPPSKIRALMKAVAAVGPVSVAIDAGSPFVYYKSGLLHPSKSRCPPSKIRALMKAVAAVGPVSVAIDAGHECFQFYHIYFEKECSSTELECLRNYIALKGPIAVAVEADADFHYRSGVYSPSCGRNLH |
| UniRef90_Q76EL0 UniRef90_UPl0002658EE1 UniRef90_W5B2D9 UniRef90_D3DEQ3 | RALMKAVAAVGPVSVAIDAGHECFQFYHIYFEKECSSTELECLRNYIALKGPIAVAIDASSPFVYYSHGVYKNPACGRDLEGALQVLVASQPVAVAVEADADFHHYRSGVYSPSCGRNLHSDLLAAVATVGPVAIAVDANTNAFRFYKSGVFDSCSNTVLEKALMEGVAAAPVSIAMYANLQSFQHYKSGVYSDPNCNSI |
| UniRef90_C5LIY3 UniRef90_W9R6H3 UniRef90_UPl00038C4F10 UniRef90_G3VG72 | EKALMEGVAAAPVSIAMYANLQSFQHYKSGVYSDPNCNSIERALLQAVSRQPVSAIIDADMIEF YAGGVIAYNCGTALNDILMDVVAAEGPVAAAIDALHDSFKFYSIYYEPNCSQYNLELLMEAVALVGPVSVSLNAQKSLHFYKGGIYEPKCKPRYT |
| UniRef90_B5LT52 UniRef90_P14080 UniRef90_F0YC80 | ETSFLIGALANQPLISIVL VIEAGGKPFQLIYKSGIVIFDGPCGTKL |
| UniRef90_UPI00035A2E6A UniRef90_Q23EG5 UniRef90_UPI000350F6EA UniRef90_K3Y348 | DILLMGAVASI GPI SAGI DASHSSFRFYNI Y HEPNUSSDYV NELIYHLAKNGPVSI AYQVT DDFENYEGGI Y NPECST DPQ GQI RAALVRHGPLAVGLNAAFMQTYVVGGVSCPLI CPRAWV IALMKAVAAQPVVVYTVQADEVPFKRYGGGVFWGPCGTNLG |
| UniRef90_B4G780 UniRef90_UPI0002C67AE5 UniRef90_G1Q5B6 UniRef90_A0A024GAD9 | Q A I Q A A V A HI G P A V S N A T P R T F Q Y S D G Y D D A S C V S T K F L ME A V A T V G P V S A G I D A S R D T F H C Y K I Y Y D P A C S R E Y V S A L MK A V A T V G P I S V A I D A S H L S F R F Y E L Y Y E W H Y S S V D L K A L Q A A V A T K S V V S V A I D A S S F T F Q L Y R H G V Y N W P F C A N T |
| UniRef90_Q9U554 UniRef90_D6WR26 UniRef90_G3IHL8 UniRef90_R0GQ16 | S D L Q A A V A S A G P V A V A V D G S S R A F R F Y D Y G L Y P G C S S Y Q L E D L Q W L V A N V G P V T V S F D G G K Q F K S Y S G G V F Y N K T C T R M K E S L M A A V A T L G P I S A G L D L A S D F F M F Y K L F Y D P K C H N D T V E R A L L F A V S R O P V S V Y M D S R S F G F G N Y K F G V Y F Y C D H H F V |
| UniRef90_A2I407 UniRef90_O18348 UniRef90_A8WQK9 | D A L K T A V A I G P V S I A I E A D K S V F Q S Y S S G I L D S S A C G T N L D L L M G A V A S I G P I S A G I D A S H S S F R F Y N I Y H E P N C S S D Y V N E L I Y H L A K N G P V S I A Y Q V T D D F E N Y E G G I Y N P E C S T D P Q G Q I R A A L V R H G P L A V G L N A A F M Q T Y V G G V S C P L I C P R A W V I A L M K A V A A Q P V V V T V Q A D E V P F K R Y G G G V F W G P C G T N L G Q A I Q A A V A H I G P I A V S I N A T P R T F Q L Y S D G I Y D D A S C V S T K F L M E A V A T V G P V S A G I D A S R D T F H C Y K I Y Y D P A C S R E Y V S A L M K A V A T V G P V S A G I D A S R D T F H C Y K I Y Y D P A C S R E Y V S A L M K A V A T V G P I S V A I D A S S F T F Q L Y R H G V Y N W P F C A N T S D L Q A A V A S A G P V S V A V A V D G S S R A F R F Y D Y G L Y P G C S S Y Q L E D L Q W I V A N V G P V T V S F D G G K Q F K S Y S G G V F Y N K T C T R M K E S L M A A V A T I G P I S A G I D I A S D F F M F Y K I F Y D P K C H N D T V E R A L L E A V S R Q P V S V Y M D S R S F G F G N Y K E G V Y E Y C D H H E V T N L H E S V A V A V A F G P V V V G I S G Y Q H D F K F Y K S G V Y S S D Q C R V P V K I Q K W L V T K G P I S I G L N A N T L Q F Y R H G V V H P F F C E P F M L E L E G V A Q Q P V S A I L N A F P A D F K Q Y K G G I Y K S D A C D K S K S |
| UniRef90_C5KZ17 UniRef90_Q717S0 UniRef90_UPI0002657311 UniRef90_G3SFF1 | ELLEGVAQQPVSAILNAFPADFKQYKGGIYKSDACDKSKSQEIARAVSAKGPVAVAIDASQLSFYDQGIVDEKCKCREDLNELMQAIATVGTVSIAYNAGTQQHSYYRGGIDVPNCGNTPKDLAKAVATVGPISVAVGASHVSFQFYKIYFEPRCDPEGLTDMAKWLVANGPISIAINANAMQFYMGGVSHPFKCSPKNLTGLFNAVLQQPISVAGIDGSTWDFQLYSSGIYDGCCTSN |
| UniRef90_D6WPZ3 UniRef90_UPI0002C37844 UniRef90_J3N068 | T D MA K WL VA N G P I S I A I N A N A M Q F Y M G G V S H P F K C S P K N L T G L F N A V L Q Q P I S V G I D G S T W D F Q L Y S S G I Y D G D C S D D P N E T L K Q A V Y F Y G P V A G A I E A S K D F V H Y R E G V F R G S C G T S I N |

| | 170 100 100 100 200 |
|---|---|
| UniRef90_K3W9N3 | 170 180 190 200 D H G V S A V G Y G V Y K Q K D F W L V K N S W G E S W G M K G Y I M M S R N |
| UniRef90_V4LNA5 | HAVT FVGYGTSQDGTKYWLAKNSWGETWGENGYIRIRRRDV |
| UniRef90_H2RM84 UniRef90_W5ANZ6 | N HAVLLVGY GVNS G Q H Y WI VKNS WSTNWGNG G Y V LMARNR AVVTVGY G T D A Y S GLKY WL VKNS WG Q T WG E A G Y I RMRRDV |
| UniRef90_C5YI39 | HAIVL V VIG Y G T T P N GII IN Y WII VIK N S W G K G W G E N G Y II IR M K R N IV |
| UniRef90_A9NKS7 UniRef90_S4RFQ7 | DHGVLLVGYGRMKDKPYWVIKNSWGPNWGENGYYKLCR NHAVLGVGYGTLDGEPYWLVKNSWSTYWGNDGYVLMS |
| UniRef90_C5LUC1 | D H A V V M V G Y G S V S G N D Y F I G R N S W G T S W G I D G Y F Y I K R G V |
| UniRef90_024641 | HALLTI I GYGQDSSGTQYWI VKNSWGSSWGERGYI RMARGV |
| UniRef90_Q0IIR8 UniRef90_V5I8D1 | N |
| UniRef90_F6YW01 | NHA VIVV GYGKENGMDYW IV KNSWG V QEGENGY I KMARNR |
| UniRef90_UPI0002C37664 UniRef90_P25804 | HAVTI I GYGTNEDGTKYWL VKNSWGLDWGDNGYMKI LRPS DHGVLLVGFGKGKEKPYWI I KNSWGQNWGEQGY <u>YKI</u> CR |
| UniRef90_UPI00039550A2 | D H A V L A V G Y G V L Q G E T Y W L K N S W S T Y W G N D G Y L M A M |
| UniRef90_UPI0001DE720D UniRef90_A1YJR6 | THAVLVVGYGREYGNDYWLVKNSWGVDWGDQGYVKMARNR DHGVLAVGWGTENGQDYWLVKNSWGADWGLQGYLKMARNR |
| UniRef90_UPI0004541C8A | SPTHSVLLVGFGYGRKYWLIKNSHGENWGENGYMK PRDQDHAVVIVGYGSENGQDYWIVKNSWGT WGEAGFGKMARNQ |
| UniRef90_M4DB45 UniRef90_A3EXY2 | THAIV VI VIGY GSENG Q D Y WI VIKNS WGTII WGE A GF G K MA R N Q THAIVL V VIGY GT E D G K D Y WL VIKNS WN T D WG E N G Y II K MA R N K |
| UniRef90_G7ILI4 | H A V T I G Y G V S E A G K K Y W L I K N S W G E T W G E K G Y M K V L R E S |
| UniRef90_M4EXK8 UniRef90 Q9VN93 | H G V L L V G F G S S G Y A K P Y WI I K N S W G S T W G E D G Y Y K I C R G R D H G V L V V G Y G F H K T L P Y W I V K N S W G P R W G E Q G Y Y R V Y R |
| UniRef90_C4B4C8 | D H G V L I V G Y G F H K H L P Y W I I K N S W G T S W G E Q G Y Y R V Y R |
| UniRef90_B5KVP9 UniRef90 Q10716 | A Î T V V G Y G A D S S S G L K Y WL V K N S W G Q S W G E R G Y L R M R R D V H G V L L V G Y G A R L K D K P Y W I I K N S W G E N W G E N G Y Y K I C R G S |
| UniRef90_Q9ET52 | T V N H A V L V V G Y T D G N K Y W L K N S W G R R W G I G G Y M K I I R D Q |
| UniRef90_UPI00023B3412 UniRef90_Q86GF6 | Y GVTTDGYGRSADGKKHWL VKNSWGTDWGENGYTRMERGV NHAVLPVGYGTEEGSDYWLIKNSWGTGWGLSGYMKLTRN |
| UniRef90_D8M736 | LNHGVLAVG YAKEYI I VKNSWGASWGDKGYVKI AHRD |
| UniRef90_A0A044S4M0 UniRef90_A8I598 | AVEYMK F G N G T R R L L D Y WL I K N S W G E N W G N G G Y F K L A R N Q N H A L L A V G Y G T E D G T E Y W I V K N S W G S R W G E H G Y I R L A R N R |
| UniRef90_A3FMG6 | T H A IV L IA IV IG Y G S Q D G T D Y WII V IK N S W G T W W G E D G Y II IR F A R N R |
| UniRef90_J9HL09 | D H G V L A V G Y G N E S G Q D Y F L V K N S W G A S W G E E G Y V K T A A D H G V L V V G Y G V Y N G T D V W I V K N S Y G V I W G M N G Y L L A R N K |
| UniRef90_V4BWX2 UniRef90_A9TTL3 | D H G V L L V G Y A E H G F K P Y WI I K N S W G P M W G D K G Y Y K II <mark>C</mark> R |
| UniRef90_B5XGB8 UniRef90_Q0WYE6 | A V L A V G F G V D K V H K T P Y Y I V K N S W S S G W G D H G Y I K M I R N D H G V V A V G Y G T E N G K D Y W L V R N |
| UniRef90_A8E4X3 | D H A V L L V G Y G E R N G T P F W A I K N S W G T D W G E Q G Y Y Y L Y R |
| UniRef90_I1GXR7 | N H A MTI V G Y G T D H G T R Y WL M K N S W G S D W G D K G Y V K F A R D V D H A V L A V G Y G V L Q G E L Y W L V K N S W S T Y W G N D G Y L L M S M |
| UniRef90_K7F3Q8 UniRef90_K7J503 | DHAIVII VIGYGTDNDODEWI VIKNSWGETWGEGGYEKIVIARNR |
| UniRef90_G4VBC3 | DHAVLLVGYGVEKNEPFWIVKNSWGVEWGENGYFRMYR HAVLIVGYDQTASGEKYWIGKNSWGTNWGMNGYFWIRR |
| UniRef90_I1FBX8 UniRef90_UPI00022CA8F2 | D H G V I V G Y G F H K F I P Y W I K N S W G P R W G F R G Y Y R V Y R |
| UniRef90_M4EMC6 | T H A V T V V G Y G M E E G I K Y W L L K N S W G R T W G E N G Y M R I K R D V H A V L A V G Y G V A P N N L K Y W I V K N S W N T N W G E S G Y I R M K R E T |
| UniRef90_J3N066 UniRef90_Q70EX0 | N H A V L A V G Y G S E N G K D F W L I K N S W N T Y W G E E G Y L R I V R |
| UniRef90_Q7YXL2 | N H G V L V V G Y G S D N G Q D Y W I L K N S W G S G W G E S G Y W R Q V R N Y N H A V L A V G Y G K N N G I L Y W I V K N S W G T S W G N N G Y F L I E R |
| UniRef90_F6RXJ3 UniRef90_Q9U520 | DHGVIIVGYSTAGQGDYWIMKNSWGAAWGKGGYMIMAMHK |
| UniRef90_D3ZZ07 | T L D H Y G Y E G H E S E N R K Y WL L K N S H G E Q W G E R G Y M K L P R D Q N H A L V L V G Y G H D S G K D Y W L V K N S W G E K W G E N G Y L R V K R D N |
| UniRef90_J9HM17 UniRef90_W4WA21 | Y M G Y P L F H K N L P Y W I K N S W G K S W G E Q G Y Y R V Y R |
| UniRef90_R4WCK9 UniRef90_U4U4T9 | N H A V L A V G Y G S E N G Q D Y WL V K N S W G T S W G E Q G Y L R M A R N R N H A V L A V G Y D V D E G L D Y W I I K N S W G A D W G E D G Y F R L R R |
| UniRef90_M8AH84 | D H G V A A V G Y G S D K G H D Y I I V R N S W G A D W G E K G Y I R M K R G T |
| UniRef90_A0A022RK00 UniRef90_A8P4Q6 | DHI VTI VGYGTHDGTKYWLVKNSWGSNWGEDGYIKMLRDK NHGVLITGYGLEDNLPYWTIKNSWGEQWGENGYFRLMR |
| UniRef90_Q76EL0 | D H G V L V V G Y G F E D G K K Y W I V K N S W S E K W G D E G Y I Y M A K D R |
| UniRef90_UPI0002658EE1 UniRef90_W5B2D9 | NHAVLAI GYGELNGEPYWLIKNSWGDIWGSEGFMLIS HAVTVVGYGTEAGGQEYWVVKNQWGAGWGEGGY <u>MRLT</u> RGS |
| UniRef90_D3DEQ3 | NHAMII VITGYGSYNGKDYWII VIKNSEGKNWGDSGYII I IMIVIRN |
| UniRef90_C5LIY3 UniRef90_W9R6H3 | DHGVVAVGYGTENGQDYFIIRNSWGRSWGQDGYVYLKRGV HALLIVGYGTTQDGLDYWLVKNSWGVDWGEQGYFRVLRNS |
| UniRef90_UPI00038C4F10 | S H A V L V V G Y G Y D D G K K Y W T I K S S W G Q S W G M D G Y M K I A K D R |
| UniRef90_G3VG72 UniRef90_B5LT52 | NHALLLVGYGYKEGTKFWILKNSWGVNWGKKGYVYIAKDK NHA <u>MVVT</u> GYGTYGGKDY <u>W</u> LVKNSWGTNWGQSGYLM <u>M</u> ARG |
| UniRef90_P14080 | D H A V T A V G Y G T S D G K N Y I I I K N S W G P N W G E K G Y M R L K R Q S |
| UniRef90_F0YC80 UniRef90_UPI00035A2E6A | D H G V L V V G Y G T D D G S E Y WK V K N S W G T T W G E S G Y V R I A R T H G L V V G Y G F T D G N N Y W L I K N S W G K K W G L G G Y M K I A K D K |
| UniRef90_Q23EG5 | FIVIN H AIV LIAIVIG Y NIL IT G R Y YIL VIK N S W G K D W G M D G Y F Y IL IF |
| UniRef90_UPI000350F6EA UniRef90_K3Y348 | NHGVLLVGYGARGFRPYWVIKNSWGEQWGEKGYYRL <mark>C</mark> R H <u>A</u> MT <u>LVGYG</u> TTDSGENYWIVKNSWGDSWGENGF <u>I</u> R <u>M</u> KRDV |
| UniRef90_B4G780 | SIVIN H A MIL VILIGE GK D F WILLIK N W W G D R W G F S G Y M R ILIK K |
| UniRef90_UPI0002C67AE5 UniRef90_G1Q5B6 | NHAIL VVGYGKDSNNKYWLVKNSWGLGWGMNGYLEMAKGW |
| UniRef90_A0A024GAD9 | DHSILVVGYGFEENNKYWIVKNSWGEAWGKSGYIKMAKDR DHGVAVAGYGVSHNHDFWLVKNSWGPSWGMQGYIMMSRN |
| UniRef90_Q9U554 UniRef90_D6WR26 | SHAILLITGYGSFNGNQYWLVKNSWGTNWGMSGYIMMTRN THVAVLVGYGTENGEDEWLVKNSYGPOWGLDGYVKLARNR |
| UniRef90_G3IHL8 | NHVVLV V GYGFTDGNNY WL VKNSYGKKWGLRGYMKI AKDONHVVTFVGYGTSDGKYYWLAKNSWGETWGEEGYNRLRRDV |
| UniRef90_R0GQ16 UniRef90_A2I407 | N |
| UniRef90_O18348 | N H A V I V V G Y G T S K K H D Y W I I K N S W G T N W G R N G Y G Y M K R N F |
| UniRef90_A8WQK9 UniRef90_C5KZ17 | NHGVLIVGYGKDGRKPYWIVKNSWGPTWGESGYFRLYR SHSVLITGYGDKDGTKYWEFKNSWGTDWGMQGYGRLLRGK |
| UniRef90_Q717S0 | NHGVLVVGYGSENGVDYWIVKNSWGADWGEKGYFRLKKDV THAVLLVGYGTENGKDFWTLKNSWGEGWGERGFFRLAR |
| UniRef90_UPI0002657311 UniRef90_G3SFF1 | T H A V L L V G Y G T E N G K D F WT L K N S W G E G W G E R G F F R L A R D H A M L V V G Y G A D W D N K Y W L V K N S W G K N W G M D G Y L K M A K D R |
| UniRef90_D6WPZ3 | DHGVLIVGYGVHNYPPYWIVKNSWGTGWGEQGYYRVYR NHAVLIVGYGSESGEDYWIVKNSWGTSWGMEGYFYLRRNT |
| UniRef90_UPI0002C37844 | NHÁVLI VĠYĠŠESGEDYWI VKNŚWĠTŚWĠMĖĠYFYLRRNT HEVLVVGYGKLPHGPRYWI VKNSWNTTWGEKGYLRMVRDL |
| UniRef90_J3N068 | TEVL V VIGIGKLIPTGPK Y WILVIK NO WN LI WGEK GY II IK MVRDL |

| UniRef90_K3W9N3 | 210 K K N Q C G I A T D A S Y P I A P Q G M C G V A Q Y A F Y P V G N L C G I A N L A S Y P L G G G G G L C G I A L D T A Y P T G K A G L C G I Y M M P M Y P L K G H N V C G I N N M V S T R D N N C G V T T D A S Y A V S G Y G E C N I L E Y M Y V P V S S S G L C G I A M D P L Y P T E K D N A C G I S S L A S Y P V N N Q C A I A T Y A S Y P V G N N C G I A T R P V Y A T |
|--|--|
| UniRef90_V4LNA5 | APQGMCGVAQYAFYPV |
| UniRef90_W5ANZ6 | G G G G L C G I A L D T A Y P T |
| UniRef90_C5YI39 | GKAGLCGIYMMPMYPIK |
| UniRef90_S4RFQ7 | TRDNNCGVTTDASYAV |
| UniRef90_C5LUC1 | S G Y G E C NI L E Y M Y V P V |
| UniRef90_Q0IIR8 | EKDNACGI SSLASYPV |
| UniRef90_V5I8D1 | N NQCALATYASYPY |
| UniRef90_F6YW01 UniRef90_UPI0002C37664 | LSEGHCGLNLYAYYPT |
| UniRef90_P25804 | GRNVCGVDSMVS |
| UniRef90_UPI00039550A2 UniRef90_UPI0001DE720D | K D N N C G V A T E A T Y P II N S H C G I A N Q A F Y P T |
| IniPofOn A1V IR6 | HNNCGIATAASVDT |
| UniRef90_UPI0004541C8A UniRef90_M4DB45 | N NYCGIASYAMYPV DPAGICGITLVASYPIK |
| UniRef90_A3EXY2 | N NYCGI ASYAMYPV DPAGICGI TLVASYPIK N NHCGI ASYATYPT SATGQCSI AVHAAYPTIY HNICGMDTMVS GDNTCGVSEMATSAV GRGGLCGI ALDLAYPV NVRNKCGVDSMVS N NHCGI ALYPV KATGLCGFTMQASYPT |
| UniRef90_G/ILI4 UniRef90_M4EXK8 | SATGQCSIIAVHAAYPTIIY HNIICGMDTMVS |
| UniRef90_Q9VN93 | G D N T C G V S E M A T S A V |
| UniRef90_C4B4C8 UniRef90_B5KVP9 | G R G G L C G I A L D L A Y P V |
| UniRef90_Q10716 | N V R N K C G V D S M V S |
| UniRef90_Q9ET52 UniRef90_UPI00023B3412 | N NHCGLATYAHYPL KATGLCGFTMQASYPT |
| UniRef90_Q86GF6 | KSNHCGVATQSCYP |
| UniRef90_D8M736 UniRef90_A0A044S4M0 | QGEGICGINMAASYPT N NMCGIGF <u>D</u> S <mark>C</mark> YPLVY |
| UniRef90_UP100023B3412 UniRef90_Q86GF6 UniRef90_D8M736 UniRef90_A0A044S4M0 UniRef90_A8I598 UniRef90_A3FMG6 UniRef90_J9HL09 UniRef90_V4BWX2 UniRef90_V4BWX2 UniRef90_B5XGB8 UniRef90_B5XGB8 UniRef90 Q0WYE6 | D NMCGIATLASLPI |
| UniRef90_A3FMG6 UniRef90_J9HL09 | G NMCGI ASLASVPI SPDNI CGI LSQASYPI |
| UniRef90_V4BWX2 | N NLCGI ASRASFPILH |
| UniRef90_A911L3 UniRef90_B5XGB8 | GHGECGLNTMVS GKNNCGIATFATYPNLY |
| UniRef90_Q0WYE6 | |
| UniRef90_A8E4X3 UniRef90_I1GXR7 | GTGACGMNTMCSSAV ASEGVCGLALEASYPV QDNNCGVTTDASYPI |
| UniRef90_K7F3Q8 | QDNNCGVTTDASYPI |
| UniRef90_I1GXR/ UniRef90_K7F3Q8 UniRef90_K7J503 UniRef90_G4VBC3 UniRef90_I1FBX8 | RNHCGI AAAAVYPVI GDGTCGINTVATSALIY |
| | GHNACGILIATCASYPIVI |
| UniRef90_UPI00022CA8F2 UniRef90_M4EMC6 | GDGTCGVNTMATSAV DPEGMCGLARLAFYPL |
| UniRef90_M4EMC6 UniRef90_J3N066 UniRef90_Q70EX0 | DKRGLCGI AMYGMYPTK |
| HiniRetan (177XI2 | G NNCGIIAIAASYP |
| UniRef90_F6RXJ3 UniRef90_Q9U520 UniRef90_D3ZZ07 UniRef90_J9HM17 | G K N M C G L A D C A S Y P V G P A G Q C G V <u>L L</u> D G S F P V |
| UniRef90_Q90520 | N NY <mark>C</mark> GIASYAMYPL |
| UniRef90_J9HM17 UniRef90_W4WA21 | A S E N M C G I L K M N S Y P G D G T C G L N T M A S S A V |
| UniRef90_R4WCK9 | R N Q <mark>C</mark> A V T R D A <u>T</u> Y P L |
| UniRef90_U4U4T9 UniRef90 M8AH84 | GENE <mark>C</mark> AIAMDSVYP NGEGLCGINKMASYPTK |
| UniRef90_A0A022RK00 | HTPGV <mark>C</mark> GIAA <u>R</u> VYYP <u>FK</u> |
| UniRef90_A8P4Q6 UniRef90_Q76EL0 | G K D C G V S D V S S A T I Y K N H C G I A T A A S Y P L |
| UniRef90_UPI0002658EE1 | Q E N N T <mark>C</mark> G I E D E L S Y A |
| UniRef90_W5B2D9 UniRef90_D3DEQ3 | G NNCGI ATFARYPT KYNQCGI ASDSLYPT |
| UniRef90_C5LIY3 | GSFG <mark>QC</mark> NIYKYM <mark>CV</mark> PT |
| UniRef90_W9R6H3 UniRef90 UPI00038C4F10 | G F E GVC GI A M R P A Y P T L N N H C GI A S F A Q T P |
| UniRef90_G3VG72 | N NHCGVATRALYPI KYNQCGIASDACYPT |
| UniRef90_B5LT52 UniRef90_P14080 | GNQGTCGVYKSSYYPFK |
| UniRef90_F0YC80 | G S N C G I A S E P S Y P |
| UniRef90_UPI00035A2E6A UniRef90_Q23EG5 | N NHCGIASFARYPT LGSNMCGLAD <mark>CA</mark> SYPI |
| UniRef90_UPI000350F6EA | GSNVCGVDTMVS |
| UniRef90_K3Y348 UniRef90_B4G780 | AREGLCGILMDASYPVKH GLNLCGIANYAAYAI |
| UniRef90_UPI0002C67AE5 | N NHCGIANLASYPV N NYCGIATTASYPT |
| UniRef90_G1Q5B6 UniRef90_A0A024GAD9 | K A N Q <mark>C</mark> G I A T D A S F P V |
| UniRef90_Q9U554 UniRef90_D6WR26 | N Y N Q C G I A T D A A Y P T N N H C G I T N R I T Y P I |
| UniRef90_G3IHL8 | N NH <mark>C</mark> AIASYAHYPI |
| UniRef90_R0GQ16 UniRef90_A2I407 | A R Q G M C G V A Q Y A F Y P V N N H C G I A T S A S V P |
| UniRef90_O18348 | R N M C H I A T M A S F P I |
| UniRef90_A8WQK9 UniRef90_C5KZ17 | GKNVCGVQEMATSAL GGEGECGILKQAYYPL |
| UniRef90_Q717S0 | K A CGIGNYNTYPV |
| UniRef90_UPI0002657311 UniRef90_G3SFF1 | G K N M C G A D W A S Y P T R N N C G T T A A S Y P <u>T</u> |
| UniRef90_D6WPZ3 | G D G <u>T <mark>C</mark> G L N Q T P S S A L</u> |
| UniRef90_UPI0002C37844 UniRef90_J3N068 | DPYGV <mark>C</mark> AVNAMASYPTK DEEG <mark>LC</mark> GIATYALFP |
| | <u> - - - - - - </u> |

| UniRef90_A4IHZ5 UniRef90_M0VD12 UniRef90_F7FV49 UniRef90_T1K747 UniRef90_UP100038BBF01 UniRef90_T2BRA8 UniRef90_T0Q4K9 UniRef90_T0Q4K9 UniRef90_A2EM51 | 1 |
|--|---|
| UniRef90 T1KK60 | PPFILID WRILIA GAIVIT PIVIK DOAILI <mark>C</mark> GSCWSFGTILIGTILIEGIVIH FIVI |
| UniRef90_B5X4D9 UniRef90_F6SFE7 UniRef90_G716H4 UniRef90_R4WCR3 UniRef90_V5IJP2 UniRef90_A1E254 UniRef90_A2G6Q5 UniRef90_UP1000359A7C9 | L P E S I D W R D A G |
| UniRef90_P84347 UniRef90_UPI0004572EDA UniRef90_P22895 UniRef90_Q9U914 UniRef90_UPI00026574F5 UniRef90_R4WDK4 UniRef90_D8LWW8 UniRef90_M5X1H6 UniRef90_UPI0004575DE5 | L P K A V D W I K E G F V I P I I D Q D V A S A I P F A V I G I I E G V L G I L P E E Y D W R N F N V V T P V K N Q G M C G S C W A F S V T G N I E G Q Y A I E A V D W R E K G A V T P V K N Q A S C G S C W A F S A T G A M E G R N F V L P E N F D W R E K G A V T E V K M Q G G C G S C W A F S T T G A I E G A N F I V P P S M D W R L Y G A V N P V K D Q A V C G S C W S F S L T G V L E G A L F L |
| UniRef90_R1DEY5 UniRef90_D8RKQ1 UniRef90_E1G9M8 UniRef90_F1A0L7 UniRef90_C7BWZ1 UniRef90_S4RX47 UniRef90_V4TDQ4 UniRef90_K3Y8C3 | LPKAVDWVKQGAVTPVKNQRHCGSCWAFSTTGAVEGGLAI PASIDWRARGAVTPVKSLGNNCSSWAFATAAAVEGVHYI LPRSVDWNKKGYLTPVREQGLCGSCWAFSTTGAVEGAHYRK PTSVDWNKKGAVTPIKDQGQCGSCWSFSTTGSVEGAHQL LPENFDLRMEGAVTPVKNQGHCGSCWAFCTTAAVEGAVAR IPPAFDWRDRGAVTEVKNQGECGSCWAFSVTGNIEGQWAI LPPSVDWRKQGAVTGVKDQGRCGSCWAFSTVVSVEGINKI LPESVDWRAKGAVAEVKDQGSCGSCWAFSTLAAVEGINQL PESFDWRSKGVLTGIKDQGACPSCWAFTGAATIEAAYAQ |
| UniRef90_T1KVJ5 UniRef90_D7G512 UniRef90_G0QST8 UniRef90_J0XGV7 UniRef90_B7SP47 UniRef90_M0UBY6 UniRef90_T1KF34 UniRef90_Q6VAM5 UniRef90_UP1000329CD88 | L P T E F D WR D Y G A V T P V K N Q A Y C G S C WT F S T T G C L E G A WY L L P A S I D WR K K K A V N P V K D Q G Q C G S C WA F S A V G G L E G A Y A I L P E K I D WR T A G A V T K V K D Q G N C G S C WA F S A V G A L E G Q H F L L P D Q V D WR L Y G A V T P V K D Q A V C G S C WS F G T V G E L K G A Y F R L P D S I D WR E K G A V V G V K D Q G S C G S C WA F S A T T S T I E G Q WA L L P K T V D WR E K G A V T F V K K Q G N C G S C WA F S A V G S I E G Q WA L L P K T V D WR E K G A V T F V K K Q G N C G S C WA F S A V G S I E G Q W A L L P K T V D WR E K G A V T F V K K Q G N C G S C WA F S A V G S I E G Q V F I |
| UniRef90_W4WVQ3 UniRef90_UPI0001CBB07C UniRef90_E9J7R5 UniRef90_B5LT54 UniRef90_UPI0004401F12 UniRef90_B0XCU8 UniRef90_I1HDA3 UniRef90_A2DJ07 | L P E I V D WR A Q G Y V I E V K D Q G Q C G S C W S F S A I G S L E G Q I F K L P A S L D WR E C G F V T P P V N Q Q N C G S C Y A Y S I A E S I E G Q I F K D S V D WR T N D A V T S V K N Q G E C G A S Y A F G A I G A V E G A I S L I P S S M D WR E K G Y V T P V K N Q G T C G S C W A F S A T G A L E G Q M F R L P E S L D WR I P G A V T P V K D Q S V C G S C W S F G T A G H I E S A Y F L P C C V D WR S S G A V T G V K F Q G S C I S C W A F A A V A A I E G M N K I |
| UniRef90_Q2QKD8 UniRef90_T0RF17 UniRef90_J3KZ04 UniRef90_Q76CZ3 UniRef90_A0A059LM16 UniRef90_B0EIS2 UniRef90_V5M3B7 UniRef90_V4B4A8 UniRef90_V4B4A8 UniRef90_F4PK92 | D WR T K G V V N P Q D Q A Q C G S C WA F S A Q V Q E S Q Y A P A S V D WR E K G A V G P E N Q G S C G S C WA F S V V G N E G Q W F L A S V D WT T S K C L N P V K N Q G Q C G S C WT F A A T G A A E A A H C M P S C L D WR F R G A V T G V K D Q G A C K S C WA F A A A A T V E S L N K I P R Q F D WR E H G V V T P A K Q Q G A C K S C WA F A A A A T V E S L N K I D WR D K G A V S E V K N Q A M C G S C WA F A T T G A I E G A N A L S S K D WR A E G K V T P V R D Q G N C G S C Y S F S S L A V L E S R L L I P S S M D WR T M G A V T G I K D Q G P C G C C WA F A T T G N V E G L N A I P K A WD WR D H G V V T P V K N Q G S C G S C WA F S T T G N V E G Q W A I P A S L D W R T S G V T P V K N Q R S C G S C W F F S T T G A V E S H W A L L P D S L D W R L Y G A V T P V K D Q A L C G S C W S F S T T G A V E S H W A L L P D S L D W R L Y G A V T P V K D Q A L C G S C W S F S T T G T I E G A Y F V |
| UniRef90_G0QSX6 UniRef90_T1INL7 UniRef90_K4B8Q2 UniRef90_UPI0002B44325 UniRef90_F0YF04 UniRef90_X6MEB5 UniRef90_H2UVW7 UniRef90_E9FRZ4 | EID WRNEGAVTEVKNQERUGAVEGINQI EWAFSSVAAVEGINQI CWAFSSVAAVEGINQI EVAFSSVAAVEGINQI CWAFSSVAAVEGINQI EVAFSAUGAVEGINAI EVAFSAUGAVEGINAI CWAFSSVAAVEGINAI EVAFSAUGAVEGINAI EVAFSAUGAVEGINAI CWAFSSVAAVEGINAI EVAFSAUGAVEGINAI EVAFSAUGAVEGINAI CWAFSSVAAVEGINAI EVAFSAUGAVEGINAI |
| UniRef90_I1FJJ7 UniRef90_A7S4P4 UniRef90_M1AN95 UniRef90_UPl0002ADA66F UniRef90_UPl0002658EDF UniRef90_C1MP57 UniRef90_W5G1M6 UniRef90_I2G9B1 UniRef90 F9WCL8 | I P D Y VN WWL K G A V T P V K D Q A I C G S C WS F G T T G T L E G S L F I V P D E M N W V I R G A V T P V K D Q A V C G S C WS F G T T G T L E G T L F L P P S M D W R K H G A V T K V K D Q G E C G A C W A F S A S G A M E G [N A] I P T S V D W R E K G Y M A P V K D Q G Q C G S C W A F S A T G A L E G Q M F W I P D T V D W R L E G V V T P V K N Q G T C G S C Y S F A S V A Y L E S Q Y I I P L N F D W R A L G A V T P V K N Q G M C G S C W S F S A T G A V E G A H F V V D W R S H G A V T P V K N Q G M C G S C W S F S A T G A V E G A H F V D A V D W R E K G V V N P V Q D Q G Q C G S C W A F S A I Q A Q E S Q Y A I P P A I D W R K K G A V T P V K D Q G Q C D S S W A F S A I G N I E G Q W K V |
| UniReiso_FsWCL6 UniRef90_L8HLI8 UniRef90_D6X518 UniRef90_F4PRJ8 UniRef90_B6D5T7 UniRef90_D8RB50 UniRef90_O91466 UniRef90_UPI000234EC3E | LPASIDWRANGLVSDVKNEQDCSSSWSFSALGAVEGQLAL LPASIDWVAQGAVTQVKNQGQCGSCWSFSALGAVEGQLAL PTSFDWRTLNKVTSVKDQGMCGACWAFAGLGALESQYAL LPEVVDWRTRGAVCPVRSHGNLLPFLFFSMFSPPGTYDRK LPETLDWRDKHGVTPVKNQMECGSCWAFSTIANIESLYNI PAQRDWRVKGAVTEVKNQNPCGGCWAFAAAAVESLVFL |

| | 50 60 | 70 80 |
|--|---|---|
| UniRef90_A4IHZ5 | RTGK L ES L S V QN LL D <mark>C</mark> SQTYGNNG <mark>C</mark> KG | GWVVSSFRYIID |
| UniRef90_M0VD12 UniRef90_F7FV49 | STGGSPPV LSEQQLVDCSTLHHGCGR | G W M D D A F K W V I M N |
| UniRef90_F7FV49 UniRef90_T1K747 | KTGKL VELSVQNVLDCSWNYSSLGCAG | GWINYAFSYVKDN |
| UniRef90_UPI00038BBF01 | RTGNLTPLSVQNLLDCSKPQGNDGCKD | GTAYKAFQYVLQN |
| UniRef90_T2BRA8 UniRef90_T0Q4K9 | MTGQLVDESEQQLV SCASNAGNGCQ | G G W P D K A L D Y L A O |
| UniRef90_A2EM51 | R R G A L L T L S E Q E L V D C D T L D Q A C G G G G K T G K L V E L S V Q N V L D C S W N Y S S L G C A G G R T G N L T P L S V Q N L L D C S K P Q G N D G C K D A T G E L I S L S E Q E L I N C D N S Y N T G C D G M T G Q L V D F S E Q Q L V S C A S N A G N G C Q H H G E L Y D L A E Q Q L V D C Y H D C F G C N G G N K T G L Y D L A E Q Q L V D C Y H D C F G N G | VGWAYTWVKLFEH |
| UniRef90_T1KK60 UniRef90_B5U9F3 | KTGHLVRLSEQQLVDCSWDQGDNGCDG | G E D F R A Y A Y I K K A |
| UniRef90_UPI00042A958E | KT GKL I PLSVQNL VDCSRSHGNEGCYR | GNTYLAFEYVKDN |
| UniRef90_E5LBE8 | VTGKLISLSEQELLDCDRRSHGC N | GGYQTTSLQYVVD |
| UniRef90_L8H5N3 UniRef90_A0A034WHL7 | KTGHLVRLSEQQLVDCSWDQGDNGCDGGKGSLVKLSEQQLVDCSWDQGDNGCCGKTGKLIPLSVQNLVDCSGPYGNHGCTCKTGKLIPLSVQNLVDCSRSHGNEGCYRVTGKLISLSEQELLDCDRRSHGCNGKHNTLPDLSEQHIVDCTREYGNGGCSGKTSELVSLSEQNLLDCTTTYGNKGCNG | GNKERSFLYIRDN |
| UniRef90 C4LSI6 | QTYNADNLDLSEQQIVDCSNKNNGCNG TTGVLPNLSEQQLIDCATDGNQGCQG QTGVLSEFSMQEIVDCDGLDGGCQGGE | GSLLYVFAYTKRN |
| UniRef90_A0A059C826 | OTGV LIPNIESEQQILI DUCA I DUNQUUUG | M O O T F K W M O M N G G |
| UniRef90_B5X4D9 | TSGSLQVLSQMLVDCSWGFGNNGCDG | G E E WR A Y E W MK H |
| UniRef90_F6SFE7 | KTRSILVITFSPQEILVIDCSDSEGNNGCKG | GSLNASFTYMKK |
| UniRef90_R4WCR3 | QTGVLSEFSMQEIVDCDGLDGGCQGGETSGSLQVLSQQMLVDCSWGFGNNGCDGKTRSLVTFSPQELVDCSDSEGNNGCKGRTGNLISLSAQHLVDCDPGSNGCEGGHKTGNLISLSEQNLLDCSSNIWYGNNGCKGRTGNLISLSEQNLLDCSSNIWYGNGC | N G G Y M F R S Y Y I K K |
| UniRef90_W7TMU3 UniRef90_B5X4D9 UniRef90_F6SFE7 UniRef90_G7I6H4 UniRef90_R4WCR3 UniRef90_V5IJP2 | SRKKLLSLSEQELVD <mark>CDHVD</mark> NG <mark>C</mark> E G | G Y M G Q A F K A V I E M |
| UniRef90_A1E254 UniRef90_A2G6Q5 | A H G QL Q SL S E Q NL V D CVT E C Y G C N G G L | MTAAYDYVIRNQK |
| UniRef90_UPI000359A7C9 | KTGNLVRLSQQELVDCAWGFGNNGCDG | GEDFRSYGYMLAN |
| UniRet90_P84347 UniRet90_UPI0004572FD4 | RIGNLISLSAQHLVDCDPGSNGCEGGNGCEGGNKTGRLVSLSEQNLLDCSSNIWYGNNGCSRKKLLSLSEQELVDCDHVDNGCEGGKAGNLISLSEQELVDCALSYGCDGCAHGQLQSLSEQNLVDCVTECYGCNGGLKTGNLVRLSQQELVDCAWGFGNNGCDGKTGKLISLSEQELVDCDRRSHGCKGKTGKLISLSEQELVDCDRRSHGCKGKTGKLISLSEQELVDCDRRSHGCNGATGKLISLSEQELVDCSQSVGNHGCNGATGDLVSLSEQELVDCSQSVGNHGCNGATGDLVSLSEQELVDCSQSVGNHGCNGATGDLVSLSEQELVDCSQSVGNHGCNGATGDLVSLSEQELVDCSQSVGNHGCNGATGDLVSLSEQELVDCSQSVGNNGCDG | GYQIGSIIQYVADN GYNSIISIIIFIIKE |
| UniRef90_P22895 | ATGDLVSLSEQELV DCVEESEGSYN | ĞWQYQSFEWVLEH |
| UniRef90_Q9U914 UniRef90_UPI00026574F5 | KYGHLVRILISQQAILIDCSWGYGNNGCDG | GEDFRSYEWMMK H |
| UniRef90_R4WDK4 | KTGSLVSLSEQELVDCDKYDSGCQ G | GLFDTÄYHÄVEEL |
| UniRef90_D8LWW8 UniRef90_M5X1H6 | ANGELLISLSEQQLVDCDHQSSGC GG | GL MTYAFEY <u>AK</u> K |
| UniRef90_UPI0004575DE5 | R N R R F V P L S A H Q I E D C Y H G E S V Q G K T G S L V S L S E Q E L V D C D K Y D S G C Q A N G E L I S L S E Q Q L V D C D H Q S S G C A T G K L L S L S E Q Q L V D C D N T C C D S G C G G K T G D L I L L S Q Q M L V D C T W G Y G N R A C D G A T G K L V S L S E E L E L V Q C D T N G D H G C K | GREWQTFEWIMKH |
| UniRef90_R1DEY5 UniRef90_D8RKQ1 UniRef90_E1G9M8 UniRef90_F1A0L7 UniRef90_C7BWZ1 UniRef90_S4RX47 | ATGKL VSLSEEELELVQCDTNGDHGCK | GGMDNAFEWIAEG |
| UniRef90_D8RKQ1 UniRef90_F1G9M8 | K T K K T V L L C P C N V L C N C C C C C C | |
| UniRef90_F1A0L7 | KTGKLVSLSEQNLVDCSGAEGNLGCDGANGDLVDLSEQSLVDCAWGYENQGCNGKKGSLLSLSEQELVDCDKDNHGCDGGKTGELWSLSEQELVDCDKDNHGCDGKTGELWSLSEQELVDCDTSYNQGCNGKTGKLVNLSVEQULVDCDTSYNQGCNGKTGKLVNLSVEQULVACDTSYNQGCNG | GLMDNAFLYIIQN |
| UniRef90_C7BWZ1 | ANGDIL VIDILIS EQSIL VID CAWGYENQGCNG | GTLDGAMKYVLTH |
| UniRef90_V4TDQ4 | KTGELWSLSEQELVDCDKDNHGCD G | GLMEQALNFI AKS |
| UniRef90_V4TDQ4 UniRef90_K3Y8C3 UniRef90_T1KVJ5 | VIT G D L I S L S E Q E L V D C D T S Y N Q G C N G | GLMDYAFQFIINN |
| UniRef90_T1KVJ5 UniRef90_D7G512 UniRef90_G0QST8 UniRef90_B7SP47 UniRef90_B7SP47 UniRef90_M0UBY6 UniRef90_T1KF34 UniRef90_Q6VAM5 UniRef90_UPl000329CD88 UniRef90 W4WVQ3 | S G H P L E S L S E Q Q L V A C D T S Y N Q G C N G A N K K L V S F S E Q Q L V D C S K N G G N S G C N G R T G K L I E L S E Q N I V D C S D E T Y S N F G C D K T G K L V R L S E Q Q L V D C S WN S G N N G C D G V T G D L I S L S E Q E L V D C D T Y Y N Q G C N G K T G Q L V N A S A Q Q L I D C S WS N G N E G C G G K N G S L E S L S A Q N I V D C A | G W P S I S M D Y I S K N |
| UniRef90_G0QST8 | ANKKL VSFSEQQI VDCSKNGGNSGCNG | GDLPPAYDYAVE |
| UniRef90_JUXGV7 | KTGKLIELSEQNIVDCSDETYSNEGUD KTGKLVRLSEQQLVDCSWNSGNNGCDG | GEDFRAYEYI RNH |
| UniRef90_M0UBY6 | VT G D L I S L S E Q E L V D C D T Y Y N Q G C N G | GLMDYAFEFIINN |
| UniRef90_11KF34 UniRef90_06VAM5 | KIGQLVNASAQQLID <mark>C</mark> SWSNGNEG <mark>C</mark> GG KNGSIESUSAONIVDCA GUEYGNE | G N M L G A Y I Y L A D E |
| UniRef90_UPI000329CD88 | KTGKLVSLSEQQLVD <mark>C</mark> SQ <u>S</u> FGTHG <mark>C</mark> NG | GWMYYAFQYIKAN |
| UniRef90_W4WVQ3 UniRef90_UPI0001CBB07C | QTGMLLIPVSAQQLVDCSTLITGNLIGCTG | G S L R N T L K Y L E K S |
| UniRef90_E9J7R5 | K T G K L P D L S E Q N L V D C S T T Q G N A G C N G K T G K L P D L S E Q N L V D C S T T Q G N A G C N G C T G K L P D L S E Q N L V D C S T T Q G N A G C N G C T G M L L S V S A Q Q L V D C S T T Q G N A G C N G C T G M L L S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G C T G C M M V S V S A Q Q L V D C S T A L G N L G C T G | GSLRTTLKYLEKS |
| UniRef90_B5LT54 | A Q G K MV S L S E Q N I I D C S V T Y G L H G C Q G | G N M Y Y A Y Q Y I I A N |
| UniRef90_UPI0004401F12 UniRef90_B0XCU8 | KTKKLMRFSQQALVDCSWGYGNNGCDG | GEDFRAYQWMMEV |
| UniRef90_I1HDA3 | RTGTLVSLSEQQLVD <mark>CD</mark> KGSSG <mark>C</mark> AGGR | T D T A L D L V A K R |
| UniRef90_A2DJ07 UniRef90_Q2QKD8 | KTGYLVSLSKQQLVDCDTVDNGCYGGY | P PYTYKEI KRM |
| UniRef90_T0RF17 | ATGTL LNL SEQQL VSCDTADGFGCNG | G WE T G A L D WI A A N |
| UniRef90_J3KZ04 UniRef90_Q76CZ3 | NGGEL VDLSVQEL VDCSTGVFSSPCGY | G M P K S A L A WI K S K |
| UniRef90_A0A059LM16 | YTGKMVSLSEQQLVDCDRVRDHGCHG | GLMDFAYDYITGV |
| UniRef90_B0EIS2 UniRef90_V5M3B7 | KTGKLPDLSEQQLVVDCCSTTTQGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG | COLOAIYLYVKNN LDTAFDYIKESOG |
| UniRef90_V4B4A8 | KKQKLVSLSEQELVDCDKVDQG <mark>C</mark> NGGL | P SQĀYDAĪMKĽ |
| UniRef90_F4PK92 UniRef90_G0QSX6 | KHNKILISILISE QEIL VID <mark>C</mark> A YIVIG QS MG <mark>C</mark> NG KNGNPPPILISE QOILID <mark>C</mark> A ODENNEG <mark>C</mark> KG | G F A S N A Y Q Y II M N A G II P S Q A F F Y II F Y N |
| UniRef90_T1INL7 | HTGHLVRLSQQALID <mark>C</mark> SWKFGNN <mark>GC</mark> DG | GEDFRAYQWI MNG |
| UniRef90_K4B8Q2 UniRef90_UPI0002B44325 | I IT GELL I SL SVQEL VNCDNSTNTGCYG | GYMDHAFEWVISN |
| UniRef90_F0YF04 | KHGAL VELSQQNLMDCSWPQGNNACDG | GLIDS NAYDWMLEV |
| UniRef90_X6MEB5 | ANNIVLINSILISEQQIL VDCSVSEGNLGCDG | G E M D N A F K Y V I K T |
| UniRef90_H2UVW7 UniRef90_E9FRZ4 | KTGKLTPLSQQALVDCSWGFGNNGCDG | GEDFRVYQWMMKH |
| UniRef90_I1FJJ7 | KTGNLVALSEQAFVDCSWGQGNNGCDG | GESERAFEWLLLG |
| UniRef90_A7S4P4 UniRef90_M1AN95 | VIA GEIL I SILIS E QEIL I DCDT SHNSGCKG | GEDFKSYQYII MKS GLMDPAFEWVINN |
| UniRef90_UPI0002ADA66F | KTGKLISLSEQNLVDCSGPXGSEGCNG | GFMDNSFRYVQEN |
| UniRef90_UPI0002658EDF UniRef90_C1MP57 | KNGKIIKESEQQIVID <mark>C</mark> SWDSLNIIG <mark>C</mark> KG KSGALVISLISEQQIVIDCDHTCCDSGCDG | G F P H G A F E Y V Q K Y G I P A N A M A Y V V K R |
| UniRef90_W5G1M6 | ŖŢĠĘĹŸŚĹŚĘQQĹŸD <mark>Ċ</mark> ĎŢŚŚĠ <mark>Ċ</mark> ŚĠĠŔ | S D T A LGL VÁS H |
| UniRef90_I2G9B1 | A F G K L E K L S E Q N L V D C V T S C Y G C N G G L | JM D A A Y D Y V V A H Q G |
| UniRef90_F9WCL8 UniRef90_L8HLI8 | SGRKLVSLAPQQIVDCDQGNGDYGCDG | GDPPTAYEYVIKA |
| UniRef90_D6X518 | KTNQLTSLSAQNLIDCS ADFGCN STSNLVALSEQNLIDCSSSYGNDGCNG KYDRLIDLSEQQLVDCDHVDMGCD G | G G H A T N A Y S Y I S Q |
| UniRef90_F4PRJ8 UniRef90_B6D5T7 | KYDRILIDILISEQOILVIDCDHIVIDMGCD G | G |
| UniRef90_D8RB50 | LGGLLCRRSSRRCQCHCDASC SKNDL | GHYDKAFEFIIEN |
| UniRef90_O91466 UniRef90_UPI000234EC3E | LGGLLCRRSSRRCQCHCDASC SKNDL KYDKALNLSEQHLVNCDNINNGCAGGL KTGSLIPLSEQQLIDCDTSSPNKGCNG | JMHW ALESILQE |
| 0111110100_01 1000204E03E | K . SOLI I LOL Q QL I D <mark>O</mark> D I SOF N K G <mark>O</mark> N G | |

| UniRef90_A4IHZ5 | 90 100 120 NG E E S N Y P Y Q G K D G C S Y T S Y Q P Y G D E E S Y Q P Y G D E E S Y C T S Y Q P Y G D E E S Y C T S Y Q P Y G D E E S Y C T S Y Q P Y G D E E S Y Q P Y G D E E S Y Q P Y G D E E S Y Q P Y G D E E S Y Q P Y G D E E S Y Q P Y G D E E S Y Q P Y G D E E S Y Q P Y G D E E S Y Q P Y G D E E Q Y Q D Y Q V V | ı |
|--|---|---|
| UniRef90_M0VD12 UniRef90_F7FV49 UniRef90_T1K747 UniRef90_UPl00038BBF01 | GGI TTEAAYPYTGKAGN <mark>C</mark> QTGKPVAVRLRSYKKVTPPGNE GGLETEKDYSYEGRKE R <mark>C</mark> SFSPDKARAYINSSVDLSRDE KGI DTFKSYPYDGI DYHTCRYNESNKGASI ASEVDI PEGD | |
| UniRef90_T2BRA8 UniRef90_T0Q4K9 UniRef90_A2EM51 | S G N S E A D Y P Y T A S Q G R | |
| UniRef90_T1KK60 UniRef90_B5U9F3 UniRef90_UPI00042A958E UniRef90_E5LBE8 | GMFMLQKDYPYTAKDGK CAFDKSKGITKITTHKKASHDE GGISDEDYGAYLGQDGKCHDSKVPKVVKLAGFVNVITSGSA GGIDTASSYPYKSKQYYCKFSTSNVGAKATGFVLISGSS GGLESEATYPYEDKEGP CRYSPDNSTANIRGVMLVVPQSE NGVHTEYEYPYEKKQGNCRAKDKKGLKVQITGYKRVPPND GGAVSQADYPYTNRVGTCQHASKPKATYLAKYVRLGAGNE | |
| UniRef90_L8H5N3 UniRef90_A0A034WHL7 UniRef90_C4LSI6 | GGAVSQADYPYTNRVGTCQHASKPKATYLAKYVRIGAGNE GGINAATVYPYRAQLDAECLFDASAIAAKSKGFVKITPDD GVMQEKDYPYTAT NGTCQYDADKIIVKNAGQVIVEQRN | |
| UniRef90_A0A059C826 UniRef90_W7TMU3 UniRef90_B5X4D9 UniRef90_F6SFE7 | GGINAATVYPYRAQLDAECLFDASAIAAKSKGFVKITPDDGVMQEKDYPYTAT NGTCQYDADKIIVKNAGQVIVEQRNNGISSETNYPYVGVDSTCDVQASSGRPPNELCLLSDYPYVTTAEEQAVCLPCPVVPGTAPEKWITVRRNSGGIATTETYGSYMGMNGLCHFNTSQLTARIQSYTNVSGDANGVMEDSAYKYTEKKEPCKKKKPSNTGVVKQFYRLHAGNE | |
| UniRef90_G7I6H4 UniRef90_R4WCR3 UniRef90_V5IJP2 | NGI DTEESYPYDGKVIK CRFNNETIGANITGYIRVKKDSQ GGLETESDYPYKGSDN NCTFNKTESKVRVQSFVGLPQNE | |
| UniRef90_A1E254 UniRef90_A2G6Q5 UniRef90_UPI000359A7C9 UniRef90_P84347 | GKFMLEDDYPYTARDGS <mark>C</mark> KFDSKKGTSNVASYVTVNEGDE GGUTSFFQYGQYUAUDSF <mark>C</mark> KKNSVTPVVQUTNYTTUPQGD | |
| UniRef90_UPI0004572EDA UniRef90_P22895 UniRef90_Q9U914 UniRef90_UPI00026574F5 | GGV HTEKEYPYEKKQGKCRAKEKKGTKVQITGYKRVPAND KGI NSEESYPYTAKNGVCTSKENESVATCQGVKMIRKNSE GGI ATDDDYPYRAKEGRCKANKIQDKVTIDGYETLIMSDE GGI PLEDEYGGYLGQDGYCHVENVTLTAKITGYVNVTSGD GGI MSKAAY GDSMENRTCHFDPKKTECSLITYATVNKAE GGLEGESDYPYTGRDDK CHFDASEVRVSISSSVNISHNE | |
| UniRef90_R4WDK4 UniRef90_D8LWW8 UniRef90_M5X1H6 | GGLEEESTYPYTGRRG ECKFNLDKVAVKVANFSTIPLDE | |
| UniRef90_UPI0004575DE5 UniRef90_R1DEY5 UniRef90_D8RKQ1 UniRef90_E1G9M8 | N PL CTESTY PYTSGAGTGTCKKACNGEVSLTSHKDVPSGD AGLHKEADY PFTGSSGSCKKKDGLVYTLDGFDNLWGSSSD GEVSESKY PYVGVVSNOCKWNKONVOATDKGSLRLMDGDE | |
| UniRef90_F1A0L7 UniRef90_C7BWZ1 UniRef90_S4RX47 UniRef90_V4TDQ4 | GIPTEESYPYKAQSGIKCLFKPISIIGAISGYVNIIIAGSE GIPTEEEYGLYEANDGLCRIQNMSTTYNIRGFAQVTPRNP GGLMTESDYSYKG DMEQCGFSQAKVRAYINGSVSIISSDE | |
| UniRef90_K3Y8C3 UniRef90_T1KVJ5 UniRef90_D7G512 | G G D T E E D Y P Y K A K D N R C D V N R K N A K V V T D S Y E D V P V N S Y R D D C Y P Y E S H D D L S R K V C R V K S E C D R I K I S D I M Y V R N R D G G I V P E S I Y P Y R K V F M N G H L G D P V C S D V V K E G N Y E D S M T E | |
| UniRef90_G0QST8 UniRef90_J0XGV7 UniRef90_B7SP47 UniRef90_M0UBY6 | GGI DTDEDYPYKARDGTCDTYRKNAHVVAIDSYEDVPVND | |
| UniRef90_T1KF34 UniRef90_Q6VAM5 UniRef90_UPI000329CD88 | PFVDATDYPYLTKDYV <mark>C</mark> LDQQIKLKYGKIRTIGFVTPLDEHPPAWNTFRCGSIPTGDSLEGVRNRVEVKITGYQAVSKGDGIDTEQSYPYEAKDGSCRYNPTSVGATCTGYAYVEKYDEKGLMARSTYPYDAEQGECRFEKDQSVVNITSWALLPARDE | |
| UniRef90_W4WVQ3 UniRef90_UPI0001CBB07C UniRef90_E9J7R5 UniRef90_B5LT54 | K G L M A T S M Y P Y K G R Q G E C K F Q R D Q S V V N I T S W A I L P A R D E D G V D T S S G Y P Y K G R Q Y S C S F K S K Y I G A E I S G S I Q I K S G D E | |
| UniRef90_UPI0004401F12 UniRef90_B0XCU8 UniRef90_I1HDA3 UniRef90_A2DJ07 | GGIII SEEKYPYGGENGK <mark>U</mark> NIVII) KII I IEEHAAII VIKGEKIVIPPNI) | |
| UniRef90_Q2QKD8 UniRef90_T0RF17 UniRef90_J3KZ04 | GKFMLEKDYPYTALDGTCKFNKAKATSKI VSYINVVEGDEGGLELQSDYPYTGW GHGCRLDRSKLFAKI DDSI VLEADEGQCLTADYSYTSGATQLTGACQTMCTPQKLAI GSLVYI AGRGI TAESEYRYEGFQGKCRVDDFNHAARLRGYGAVPPNDE | |
| UniRef90_Q76CZ3 UniRef90_A0A059LM16 UniRef90_B0EIS2 UniRef90_V5M3B7 | RGITAESEYRYEGFQGKCRVDDFNHAARIRGYGAVPPNDE GGLLTEAEYPYMAKRGRCAVHDTARVSAKSPASRMYGRAA GGLNTEEDYPYTGAEGVCDKKREGRHVVTDDGFVSVPQLN GVTDEASYPYTATKGTCKAFTPK VKTTGLTHVTPNE LTTESEYPYHKGPMQQCMVQTDQSQTNTVSITGYKIAENE | |
| UniRef90_V4B4A8 UniRef90_F4PK92 UniRef90_G0QSX6 | GGLETEKEYGYKGYDEK CFFKKSDVAAKINGSVKISENEGGIATESDYPYLMQNAYCKASTVQNSGVRVQSYVNVTAFSGGLESEKDYPYMAATRNCTFDASKVSAKLEGQYNITFQDETGLPLADSYGPYLGQDGICSDTSKTETVKITGYVNITSGD | |
| UniRef90_T1INL7 UniRef90_K4B8Q2 UniRef90_UPI0002B44325 UniRef90_F0YF04 | GGI A S E L D Y P Y I S S Q G A C KI I I K V N H K V V I I I D G Y R D V P Q E E G G L D T E E D Y P Y K G R D A A C D P N R K N A K V V T L D G Y E D V P E N D N G G K V A A A E P Y G G Y K N A D G A C H A A D G F H A K L T G Y V N V T G L | |
| UniRef90_X6MEB5 UniRef90_H2UVW7 UniRef90_E9FRZ4 UniRef90_I1FJJ7 | GGLCSETEYPYTAADGK <mark>C</mark> QATT <mark>C</mark> GTYYNPII VNYTDIVKVKD GESTIITYPYTSVVRTALALHRHSQPLSS <u>PPVLC</u> FPQQDT GGIPSEESYGPYLGADGYCHIVDNATILVASIIKGYVNIVISGDIVI | |
| UniRef90_A7S4P4 UniRef90_M1AN95 UniRef90_UPI0002ADA66F | GGI ATEESYGPYLGADGY <mark>C</mark> HKKDAEI GATI TGYVNI TEGD SGI DSAADYPYTAHSQGH <mark>C</mark> NYSKNHKVVTI DGYRDVPKEE GGI DSEASYPYEGKVNGAPEYWNTERDAGHESEEPEXMVE | |
| UniRef90_UPI0002658EDF UniRef90_C1MP57 UniRef90_W5G1M6 UniRef90_I2G9B1 | GLFTEDQYGPYLDDEGKCRDMKGEPLIPTLKSFTMMEGAEGGLDAEAAYPYLGARGDGRCKSKEDGPATITNYSFVSADEGGLTSEERYPYSGYSGSCEVDKFDHQASVKGFKSVPPNDEGKFSYLADYPYTARDGSCKFNAAKAGSMLKGHLNVEEGSE | |
| UniRef90_F9WCL8 UniRef90_L8HLI8 UniRef90_D6X518 | GNVFTEQSYPYASGGGPTCDKSGKVVGAKIRDRVDLPRDEGGLDTEESYPYTAEDGQCAFKPSAVGAKISNWTYITTTKNFGIMPEKDYPYEGKAGVCRFDASKSITTVTGFYDIDPNDEGGIDTEASYPYVAKVQK CKYNPANSGATLSSYVDVTSGS | |
| UniRef90_F4PRJ8 UniRef90_B6D5T7 UniRef90_D8RB50 UniRef90_O91466 | GGIVEQDFDYPYRAERQP <mark>C</mark> ALKPHKFAAG <u>V</u> RS <mark>C</mark> YRYVLLNE GGIDSEGFGLNFRNKT <mark>CFL</mark> RGTPFLDFTIDGYEHVLPNN GGIVVSAENEPYYGFDG VCKKSPFELISIISGSRRYVLQNE | |
| UniRef90_UPI000234EC3E | GLTSQEHYPYERSQGP <mark>C</mark> EAEMDTPVFARISGFASVPPFDG | |

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| Interest | UniRef90_A4IHZ5 | 130 140 150 160 A T L K Q V G L M G P V S V A I D A S R K T F R M Y K V Y Y D P N C S S S T P |
| All | UniRef90_M0VD12 | |
| Ministrop Figure | | FEALTA A WEAENGPIVSHALINA FA MQFYRRGIVSHPPLLOSPWFL |
| All | UniRef90_UPI00038BBF01 | LYLLVAVASIGPVSAAIDASHDSFRFYSGGIYHEPNCSSY |
| All | | NALLICAVIGQQPVSVGIIDGSSLDFQLIYRGGIIYDGECSSNPD |
| James | UniRef90_A2EM51 | EALKTSVAENGPHAIAIDAGHDSFMMYESGVYEDCSSSTL |
| James 60 | UniRef90_T1KK60 | EALELALFEQGPVTVALDASQFSFYSHGVYYDEN <mark>C</mark> GNTPD |
| James 60 | | NAL MY AVATIGE I SI AI DARHNSFOFYKI YYEPY CSSTNI |
| James 60 | UniRef90_E5LBE8 | E S L J K V J A N Q P V S V L I E S K D R S F H F Y R G G T Y K G P C G T R L |
| James 60 | UniRef90_L8H5N3 UniRef90_A0A034WHL7 | EDALKAAVATVGPI AVKIINAGI QQFSYYSGGI DVANCGNRP |
| MRSH89D MRSH | UniRef90_C4LSI6 | EVAL VEALAEGPVAVALDAGQASFQLYKVYDEPKCKKVIL |
| James | | MT EILIO E AIVIA A O PIVISIVIAIVIG A S R A WME Y E A GIVIE D G K C E O N H G |
| Interest | UniRef90_B5X4D9 | EALKVALFKHGPVAVSIDAGHRSFVFYSHGVYYEPKCGNT |
| INTERIOR A A A A A A A A A | | HOLLOAVAQQPVAASVAADTDEQNEKGSGUEEGSCANETN |
| INTERIOR A A A A A A A A A | UniRef90_R4WCR3 | Y A L Q D A V A N V G P V A V G L E V Y K S F R Y Y N G G V Y Y D A Q C G T S L |
| Junkergo Deboox Junkergo Junkergo Deboox Junkergo De | | FRSMMILIAIVIANOPILIAAILTIDAGGDFOYYKSGIVIFLGSCGLSILIN |
| Ministry Dispose Dis | UniRef90_A2G6Q5 | K DLAKKVSTLGPAALAI DASAWSFQLYSLYDESA <mark>C</mark> SSVNL |
| Ministry Dispose Dis | UniRef90_UPI000359A7C9 UniRef90_P84347 | NALLNIAL FNYGFI SVAI DASHKSFGFYSDGVYYDPACKSD EI SLIQGI GNQPVSVLHESKGRAFQLYKGGI FNGPCGYKN |
| James Jame | UniRef90_UPI0004572EDA | R DLA A A VA T V G P I A V G F D A G R A S F M F Y K I Y Y D E A C S K T V L |
| James Jame | UniRef90_P22895 UniRef90_Q9U914 | DALKVALAKHGPI SVAII DASHFSFYSNGI YYDPECGNDOL |
| James Jame | UniRef90_UPI00026574F5 | KALQAAVANVGPI AVEVDASKFLFYEKGI FSDPKCGEKAP |
| Jinkergo MoX1H6 | UniRef90_R4WDK4 UniRef90_D8LWW8 | A A L K Q A V S Q G P V S V A V E A D S I V F Q M Y T G G V I D S S A C G T S L |
| June | UniRef90_M5X1H6 | DQI AANL VHHGPLAIGLNAMFMQTYIGGVSCPLICFRKWV |
| June 19 | UniRef90_DP10004575DE5 UniRef90_R1DEY5 | EDALRAAVAKQPVSVAI EADSAFQLYQSGVIDSASCGKEL |
| June 19 | UniRef90_D8RKQ1 | A E MVE RVAKQPVTAL VDGDADAFKKYKSGLFKGPCSEDKP |
| Interest | UniRef90_E1G9M8 UniRef90 F1A0L7 | S QL E T A V A K N G P V S V A I D A S H N S F Q L Y S V Y Y E P K C S P T E L |
| Interest | UniRef90_C7BWZ1 | NALKVALNKYGPVTVAI HASRLMQHYASGFYDFSCDETYP |
| Jinkergo J. Styrologo J. Styrol | UniRef90_S4RX47 UniRef90_V4TDQ4 | ENAILIMKAIVIAN () PIVIAIVIAILII) A (1 (1 K (1 E () E Y S E (1 V E I (1 I) (1 E I E I I |
| Jinkergo D76512 | UniRef90_K3Y8C3 | EKSLQKAVAHQPVSVAI EASGRAFQLYSSVI IT NLAVGFI |
| Jointeleo Josspat7 Jointeleo Josspat7 Jointeleo Mouby6 Jointeleo Mouby6 Jointeleo Mouby6 Jointeleo OdVAM5 Jointele | UniRef90_11KVJ5 UniRef90_D7G512 | FAMARWILLINGPILISIVIAILIDAMGMDYYSEGILIDMGEY <mark>C</mark> EPILIEILL |
| Junkel90 | UniRef90_G0QST8 | II INII IKAANMAN II IRDII IRMAA EDARMITII IEVKDRII II IRRODRITA EMAN |
| Jinker90 | UniRef90_B7SP47 | DDLLTALANVGPVSVSIDAALRSFSFYSNGVFYDPNCRND |
| Jinker90 | UniRef90_M0UBY6 | EQSIQKAVANQPVSVAI EAGGRTFQLYDSV |
| Jinkergo UPI000329CD88 | UniRef90_Q6VAM5 | |
| Jinkef90 | UniRef90_UPI000329CD88 | EALKEAVATI GPVSVAI NVQDSFRFYTSG |
| Jinkef90_E9J7R5 Jinkef90_B8JTA5 Jinkef90_B8JTA5 Jinkef90_B8JTA5 Jinkef90_B8JTA5 Jinkef90_B8JTA5 Jinkef90_B8JTA5 Jinkef90_B8JTA5 Jinkef90_B8JTA5 Jinkef90_B8JCA18 Jinkef90_B8JCA18 Jinkef90_B8JCA18 Jinkef90_B8JCA18 Jinkef90_ABDJO7 KD_AA A V A A T V G P I S V A II D A S H P T F R F Y K II Y D P Y C S S E E IL D A M K L A I L F K H G P IL S II A II D A S H P T F R F Y K II Y D P Y C S S E E IL D A M K L A I L F K H G P IL S II A II D A S H P T F R F Y K II Y Y D P Y C S S E E IL D A M K L A I L F K H G P IL S II A II D A S H P T F R F Y K II Y Y D P Y C S S E E IL D A M K L A I L F K H G P IL S II A II D A S H P T F R F Y K II Y Y D P Y C S S E E IL D A M K L A II F R F Y Y K II Y Y D P Y C S S E E IL D A M K L A II F R F Y Y K II Y Y D P Y C S S E E IL D A M K L A II F R F Y Y K II Y Y D P Y C S S E E IL D A M K Y II F R F Y K II Y Y D P Y C S S E E IL D A M K Y II F R F Y Y K II Y Y D P Y C S S E E IL D A M K Y II F R F Y Y K II Y Y D P Y C S S E E IL D A M K Y II F R F Y Y K II Y Y D P Y C S S E E IL D A M K Y II F R F Y Y K II Y Y D P Y C S S E E IL D A M K II F R F Y Y K II Y Y D P Y C S S E E IL D A M K II F R F Y Y K II Y Y D P Y C S S E E IL D A M K II F R F Y Y K II Y Y D P Y C S S E E IL D A M K II F R F Y Y K II Y Y D P Y C S S E E IL D A M K II F R F Y Y K II Y Y D P Y C S S E E IL D A M K II F R F Y Y K II Y Y D P Y C S S E E IL D A M K II F R F Y Y Y S II Y D P Y C S S E E IL D A M K II F R Y Y Y S II Y D P Y C S S E E IL D A M K II F R Y Y Y S II Y D P Y C S S E E IL D A M K II F R Y Y Y S II Y D P Y C S S E E IL T R Y W II Y Y Y D P Y C S S E II T R Y Y Y S II Y D P Y C S S E II T R Y Y Y Y S II Y D P Y C S S E II T R Y Y Y S II Y D P Y C S S E II T R Y Y Y S II Y D P Y C S S E II T R Y Y Y S II Y D P Y C S II Y D P Y T Y Y Y Y D P Y C S II Y D P Y Y Y Y S II Y D P Y Y Y Y S II Y D P Y Y Y Y S II Y D P Y Y Y Y Y T Y Y Y Y D Y Y Y Y Y Y Y Y Y | UniRef90_UPI0001CBB07C | |
| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | UniRef90_E9J7R5 | KALELAVATLGPIAASINAGPKTFQLYQVYDDHHCSSDMV |
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| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | UniRef90_A2DJ07 | K DLA A KVS A Y G P S S V A I D A S Q I S F Q F Y S I Y D E P Y C S S Y S L |
| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | UniRef90_Q2QKD8 UniRef90_T0RF17 | EKQAAWLAEHGPMST <mark>C</mark> LNAKYLQFYQSGILHPSM <mark>C</mark> SPEGL EKALETALETQPTTVAVSAGNPVWQHYVGGIVTA <mark>C</mark> PAAIIS |
| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | UniRef90_J3KZ04 | RQLMTAVARQPVTAYIDASGPAFQFYGSGVFPGPCGTAES |
| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | | A K A P G A G V L G K P V I V Q I D G S G P L Q D Y K S G V Y R G P C T T S Q N E H A L A Q A V T H Q P V A V A I E A G E R P F Q L Y G G G V F D A P C G T T I |
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| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | UniRef90_F4PK92 | E A ALQNAVA TVGV VAVALS A P D F R Y Y S S GV Y Y C Q S GL D Y L |
| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | UniRef90_G0QSX6 UniRef90_T1INL7 | REALRAAMSHGPIISVISII DASHKTFGFYSSGVYYDPKCRND |
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| JniRef90_1737 JniRef90_A7S4P4 JniRef90_M1AN95 SALKTALAQKGPLSVSLDASHKSFYSYGVYYEPKCGNKNL JniRef90_UP10002ADA66F JniRef90_UP10002658EDF JniRef90_C1MP57 JniRef90_USSCHM6 | UniRef90_X6MEB5 | ESALEEAAAVGCVSVAI QANQFAFQYYSSGVLTGDCGTNL |
| JniRef90_12G9B1 K D L A A K V A T M G P A A I A I D A S Q W S F Q L Y S G G I Y D R C S A Y N L JniRef90_F9WCL8 N A I A E W L A K N G P V A I A V D A T S F Q S Y T G G V L T S C I S K E M JniRef90_L8HLI8 E T E M Q Y G L A S R G P L S I C V D A S S W Q Y Y I G G V I T S L C E D S L D JniRef90_D6X518 T A L Q G A L A M M G P I A A T I E A T E E L Q F Y K G G I E K C N S K V P D L JniRef90_F4PRJ8 E S A L Q S Q T V K G P V S V A I D A S H Q S F Q L Y D V Y Y E P A C S S T N L JniRef90_D6D5T7 E R L E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L JniRef90_D8RB50 E E A L K K A V A H Q P V S V M I D A G C P A F K F Y K S G I L T S S C G T D L JniRef90_O91466 N K L R E L L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L | UniRef90_H2UVW/ UniRef90_E9FRZ4 | DALRVAI FKYGPI SVAII DAAHRAFSFYANGVYYNPECGSG |
| JniRef90_12G9B1 K D L A A K V A T M G P A A I A I D A S Q W S F Q L Y S G G I Y D R C S A Y N L JniRef90_F9WCL8 N A I A E W L A K N G P V A I A V D A T S F Q S Y T G G V L T S C I S K E M JniRef90_L8HLI8 E T E M Q Y G L A S R G P L S I C V D A S S W Q Y Y I G G V I T S L C E D S L D JniRef90_D6X518 T A L Q G A L A M M G P I A A T I E A T E E L Q F Y K G G I E K C N S K V P D L JniRef90_F4PRJ8 E S A L Q S Q T V K G P V S V A I D A S H Q S F Q L Y D V Y Y E P A C S S T N L JniRef90_D6D5T7 E R L E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L JniRef90_D8RB50 E E A L K K A V A H Q P V S V M I D A G C P A F K F Y K S G I L T S S C G T D L JniRef90_O91466 N K L R E L L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L | UniRef90_I1FJJ7 | T D L K V K I F E R G P I S I A I D A S H R S F S F Y A N G V Y C G N T P N D L |
| JniRef90_12G9B1 K D L A A K V A T M G P A A I A I D A S Q W S F Q L Y S G G I Y D R C S A Y N L JniRef90_F9WCL8 N A I A E W L A K N G P V A I A V D A T S F Q S Y T G G V L T S C I S K E M JniRef90_L8HLI8 E T E M Q Y G L A S R G P L S I C V D A S S W Q Y Y I G G V I T S L C E D S L D JniRef90_D6X518 T A L Q G A L A M M G P I A A T I E A T E E L Q F Y K G G I E K C N S K V P D L JniRef90_F4PRJ8 E S A L Q S Q T V K G P V S V A I D A S H Q S F Q L Y D V Y Y E P A C S S T N L JniRef90_D6D5T7 E R L E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L JniRef90_D8RB50 E E A L K K A V A H Q P V S V M I D A G C P A F K F Y K S G I L T S S C G T D L JniRef90_O91466 N K L R E L L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L | UniRef90_A7S4P4 UniRef90_M1AN95 | S <u>A L L C</u> A A <u>A Q Q P V S V A I</u> |
| JniRef90_12G9B1 K D L A A K V A T M G P A A I A I D A S Q W S F Q L Y S G G I Y D R C S A Y N L JniRef90_F9WCL8 N A I A E W L A K N G P V A I A V D A T S F Q S Y T G G V L T S C I S K E M JniRef90_L8HLI8 E T E M Q Y G L A S R G P L S I C V D A S S W Q Y Y I G G V I T S L C E D S L D JniRef90_D6X518 T A L Q G A L A M M G P I A A T I E A T E E L Q F Y K G G I E K C N S K V P D L JniRef90_F4PRJ8 E S A L Q S Q T V K G P V S V A I D A S H Q S F Q L Y D V Y Y E P A C S S T N L JniRef90_D6D5T7 E R L E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L JniRef90_D8RB50 E E A L K K A V A H Q P V S V M I D A G C P A F K F Y K S G I L T S S C G T D L JniRef90_O91466 N K L R E L L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L | UniRef90_UPI0002ADA66F | SLSANCQVGYCQVSSRTSHPAFXFLLSGLYFEPRCDPEGL |
| JniRef90_12G9B1 K D L A A K V A T M G P A A I A I D A S Q W S F Q L Y S G G I Y D R C S A Y N L JniRef90_F9WCL8 N A I A E W L A K N G P V A I A V D A T S F Q S Y T G G V L T S C I S K E M JniRef90_L8HLI8 E T E M Q Y G L A S R G P L S I C V D A S S W Q Y Y I G G V I T S L C E D S L D JniRef90_D6X518 T A L Q G A L A M M G P I A A T I E A T E E L Q F Y K G G I E K C N S K V P D L JniRef90_F4PRJ8 E S A L Q S Q T V K G P V S V A I D A S H Q S F Q L Y D V Y Y E P A C S S T N L JniRef90_D6D5T7 E R L E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L JniRef90_D8RB50 E E A L K K A V A H Q P V S V M I D A G C P A F K F Y K S G I L T S S C G T D L JniRef90_O91466 N K L R E L L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L | UniRef90_UPI0002658EDF UniRef90_C1MP57 | SQI AALVKHGPLSVGI DARWMQLYRRGVACPWACDKTRL |
| JAIRE190_D6X518 I A L Q G A L A M M G P I A A I I L E A I E E L Q F Y K G G I L K C N S K V P D L JAIRE190_F4PRJ8 E S A L Q S Q T V K G P V S V A I D A S H Q S F Q L Y D V Y Y E P A C S S T N L JAIRE190_D6D5T7 E R L E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L JAIRE190_D8RB50 E E A L K K A V A H Q P V S V M I D A G C P A F K F Y K S G I L T S S C G T D L JAIRE190_D1466 N K L R E L L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L | UniRef90_W5G1M6 | R QL A LA V A Q Q P V T V Y I D A S A W D F Q F Y S G G I Y K G P C S A E A G |
| JAIRE190_D6X518 I A L Q G A L A M M G P I A A I I L E A I E E L Q F Y K G G I L K C N S K V P D L JAIRE190_F4PRJ8 E S A L Q S Q T V K G P V S V A I D A S H Q S F Q L Y D V Y Y E P A C S S T N L JAIRE190_D6D5T7 E R L E D L L R H V G P I A I A V D A V D I T D Y Y G G I V S F C E N N G L JAIRE190_D8RB50 E E A L K K A V A Q P V S V M I D A G C P A F K F Y K S G I L T S S C G T D L JAIRE190_D1466 N K L R E L L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L | UniRef90_I2G9B1 UniRef90_F9WCL8 | NALAEWLAKNGPVAIIAVDATS FQSYTGGVLTSCIISKEM |
| JniRef90_F4PRJ8 | UniRef90_L8HLI8 | ETEMQYGLASRGPLSICVDASSWQYYIGGVITSLCEDSLD |
| JniRef90_B6D5T7 | UniRef90_D6X518 UniRef90_F4PRJ8 | ESALQSQTVKGPVSVAIIDASHQSFQLYDVYYEPACSSTNL |
| JAIIREISU LORRBOU E E ALIK K AIVIA H Q PIVIS VIMII ID A G G P A F K F Y K S GILLII S S G G T D L N K L R E L V V N G P I S V A I D V S D L I N Y K A G I A D I C E N N E G L JAIREISO UPINON234FC3F D A MI R R V A V O P V A A V L A V N E N V L T G Y T G G V F T G I G G S P T V | UniRef90_B6D5T7 | ERLEDLLRHVGPIAIAVDAVDL TDYYGGIVSFCENNGL |
| INIREPO LIPIO00234FC3F DAMI RRVAVO PIVIA AVITAVINENIVITO VTO GIVET CITE OS PTIVI | UniRef90_D8RB50 UniRef90_O91466 | NKLRELLVVNGPISVAIIDVSD LINYKAGIADICENNEGI |
| OF IV | UniRef90_UPI000234EC3E | DAMERRVAVQPVAAVIAVNENVLTGYTGGVFTGLCGSPTV |

| | 470 |
|--|--|
| UniRef90_A4IHZ5 | 170 180 190 200 D H S V L V V G Y G A E D G V E Y W L V K N S W G T S F G D E G Y I K M A R N H N H A M A L V G Y G K P D G T K Y W I G K N S W T A K W G D K G F I Y L L R D S |
| UniRef90_M0VD12 UniRef90_F7FV49 | DHAVLLVĞYĞDRSĞIPFWAIKNSWGPDWĞEEĞYYYLYRGA |
| UniRef90_T1K747 UniRef90_UPI00038BBF01 | N H A V A V V G Y G S E N G L P F W T I K N S W G M L F G E S G Y F R L Y R V T N H G V L V V G Y T D G E K Y W V I K N S W G D N W G L N G Y M K I S K D R |
| UniRef90_T2BRA8 | D H A IV V I V IG Y G S E G D D D Y WII I IK N S W G T S W G M E G Y A Y II IR R N T |
| UniRef90_T0Q4K9 UniRef90_A2EM51 | D H A V L A V Ğ Y Ğ S K N G V N H F K I K N S W G T Ğ W G E G Ğ Y I Y L Q R G V D H A V G L V G Y G V D G D K D F W L V R N S W S T T W G E Q G Y V R I R R N Y |
| UniRef90_T1KK60 UniRef90_B5U9F3 | DHQVLAVGYGLLYGQRYWLIKNSWSTYWGNDGY <u>ILM</u> A SHTVLVVVGYGTYKNKDYWLIKNSWG <u>P</u> NWGINGY <u>AMM</u> ARNR |
| UniRef90_UPI00042A958E UniRef90_E5LBE8 | SHSMLVVGYGFEGGRKYWLVKNSMGIKWGIRGYVKIARDH DHAVTAIGYG KDYLLIKNSWGPNWGEKGYLRIKRAS |
| UniRef90_L8H5N3 | T H A V L L V G Y G T E N G K D F W L K N S W G T S W G E K G F F R L A R |
| UniRef90_A0A034WHL7 UniRef90_C4LSI6 | NHAMLLVGYGRDNNTDYWILKNSWGVSWGMDGYINVPRHV NHAVCAVGYGSQDGQDYYIVRNSWGTSWGMDGYILMSRNK |
| UniRef90_A0A059C826 UniRef90_W7TMU3 | HAVTVVGYGTDMDGMKYWLMRNSWDVSWGESGYMRIQRDS VLCVGYGGGGGSEEGQYWKVKNSWGPEWGMEGYILLKRDD |
| UniRef90_B5X4D9 UniRef90_F6SFE7 | V L C V G Y G G G E G S E E G Q Y WK V K N S W G P E W G M E G Y I L L K R D D D H A V L A V G Y G V M E A E P Y W L V K N S W S T Y W G N D G Y I L M S M D H S V L V V G Y G T D N G N D Y W L I K N S W G I G W G E K G Y V K M A R N R |
| UniRef90_G7I6H4 | HSIAI VĞYGÜSNDGRKYWIIKNSWGEGWGDLGYAKLIRGN QNHAVVGYGTEEDGKDYWLVKNSWGTHWGLDGYIKMIRNF |
| UniRef90_R4WCR3 UniRef90_V5IJP2 | S <u>I D H G</u> V <u>L L V</u> G F R K P V P Y W I V K N S W G Y Y W G E Q G Y <u>Y</u> R V Y R |
| UniRef90_A1E254 UniRef90_A2G6Q5 | HAITVI GYGQTSSGTKYWI VKNSWGTSWGERGYI RMARDV DHGVGCVGYGTQGSKNYWI VRNSWGESWGEKGYI RMLKDK |
| UniRef90_UPI000359A7C9 UniRef90_P84347 | PHAVLAV GYGVMDNQAYWL VKNS WSTHWGNDGYVLMS DHAVTAI GYG KAQLLDKNS WGPNWGEKGYLKIKRAS |
| UniRef90_UPI0004572EDA | DHELLVVGYGTEAGEPYWIVKNSWGVKWGNKGYFHTAK NHFVLLVGYG <u>SA</u> DGVDYWIAKNSWGFDWGEDGYIWIQRNT |
| UniRef90_P22895 UniRef90_Q9U914 | D H A V L L V G Y G I I N G N P Y W L V K N S W S N Y W G N D G Y I I M S |
| UniRef90_UPI00026574F5 UniRef90_R4WDK4 | NHALL VTGYGSENGVDYWMLKNTWGGSWGEGGYLRIERNR DHGVLLVGYGLHKTWPYWLIKNSWGPHWGHQGYYMLYR |
| UniRef90_D8LWW8 UniRef90_M5X1H6 | NHG VLA V GYG ADYWIV KNSWGESWGDKGYLKIKYTENHG VLLV GYGAKGNKPYWIIKNSWGEQWGENGYYHLCRGH |
| UniRef90_UPI0004575DE5 UniRef90_R1DEY5 | NHAVLĀVĠYĠTŪDĠĒPYWLIKNSWSTYWĠNDĠYĪLMSM DHGVLVVĠYGTDTGKDYWKIKNSWGGTWGEEGFVRV |
| UniRef90_D8RKQ1 | RLAVLÍ V GYGSEKGEDY WII KNSWGTSWGENGY MRÍ QRGN SHAVLI V GYGTSKKRDY WII KNSWGKDWGMKGY GYVARN |
| UniRef90_E1G9M8 UniRef90_F1A0L7 | D H G V L V V G Y G V R K T S Q Y W L V K N S W G V S W G M Q G F I Q M S K N R |
| UniRef90_C7BWZ1 UniRef90_S4RX47 | NHGVTVI GYGTRDGEDYWI VKNSWGESWGEDGF <u>I IM</u> S NHAV <u>L</u> I VGYGTEKG <u>V</u> PFWI I KNSWG <u>V</u> GWGEEGY <u>YRVF</u> R |
| UniRef90_V4TDQ4 UniRef90_K3Y8C3 | N H G V A V V G Y G T Q D G T K Y W I V K N S W G T D W G E K G Y I R M L R G I C H A V Q F R D E T M K S S T I W L C |
| UniRef90_T1KVJ5 UniRef90_D7G512 | THLVPIVGYGTENGTPYWIIKNSWGEHWGENGYGRVLR DHAVLIVGYGEEDGVKYWIIKNSWKYLWGERGYYRLVRGV |
| UniRef90_G0QST8 UniRef90_J0XGV7 | HCVVVVG YTSNAWIVRNSWGSSWGEDGYIRIARTS HGVLAVGYGGTKKRMDYWLIKNSWSKHWGMGGYLKLGRNQ |
| UniRef90_B7SP47 UniRef90_M0UBY6 | DHAVLAVGYGTLQGEPYWLVKNSWSTYWGNDGYVLIS |
| UniRef90_T1KF34 | HAVTLVGFGTDSNGLDYWLVKNSWGADWGDNGYFKMRRGV |
| UniRef90_Q6VAM5 UniRef90_UPI000329CD88 | EKDLNHGVLLVGYGDGYWLVKNSWGRLWGEQGYFRLKKDA |
| UniRef90_W4WVQ3 UniRef90_UPI0001CBB07C | MVNHAMLIIG YTPTEWILKNWWGDSWGENGYMRLARN DHGVLTVGYGTEDSSDYWLVKNRDQKLPGATGFF |
| UniRef90_E9J7R5 UniRef90_B5LT54 | N H A ML V V G Y T P T E WI L K N W W G S N W G E N G Y M R L A R N T H A L L V V G Y G T H S G R N Y W L P K N S W G T N W G L S G Y I M M S R N |
| UniRef90_UPI0004401F12 UniRef90_B0XCU8 | DHGVLVVGYGF DHAVLAVGYGTLNGEDYWLIKNSWSNLWGNDGYALMAM |
| UniRef90_I1HDA3 | NHAVTI V G Y C E D F G E K F WI A K N S W S N D W G D Q G Y I Y L A K D V D H G V G C V G Y G T E G T K N Y W I V R N S W G L G W G D Q G Y L R M L K D K |
| UniRef90_A2DJ07 UniRef90_Q2QKD8 | N H A V I T V G Y D T K H G I P Y W I I K N S W G T S W G F D G Y F R I Y R |
| UniRef90_T0RF17 UniRef90_J3KZ04 | DHALVAV GYGTTDGQPYFKLRNSWGANWGEQGNIRLLRGVNHAVTLVGYCQVDGKKYWVAKNSWGKTWGQQGYILLEKDVHVVTVVGYGVTGAGEEYWIAKNSWGQTWGQKGFFFVRRGA |
| UniRef90_Q76CZ3 UniRef90_A0A059LM16 | DHGIVI VVIGYGSEKSAPYWII VIKNSWGGAWGDKGYII IKII VIRQR |
| UniRef90_B0EIS2 UniRef90_V5M3B7 | N |
| UniRef90_V4B4A8 UniRef90_F4PK92 | D H G V L V G Y G V E G S K P Y W |
| UniRef90_G0QSX6 UniRef90_T1INL7 | DHEVAVLGYGTDNGQQYWIVKNSWSTYYGNEGIVWMAMNR SDVNHVGYGVSISGQLYYIVKNSWGPEWGINGYFLIER DHSVLAVGFGIMNGERYWLVKNSWSTYWGNDGYVLMS |
| UniRef90_K4B8Q2 | NHGVLIVGYGSEGEDDYWIIKNSWGTSWGVEGYGYIRRNS DHGVVAVGYGTDNGTDYWIVRNSWGKDWGESGYIRLERNV |
| UniRef90_UPI0002B44325 UniRef90_F0YF04 | DHIVLAVGVKVHGDQRYII VKNSWSIHWGDAGYVYI IS |
| UniRef90_X6MEB5 UniRef90_H2UVW7 | DHGVLVVGYGTDSGQEYWKVKNSWGTDWGENGYVLICRDC SHAVLLVGYGSEGGQDYWLIKNRWGPSWGEGGYMRLIR DHAVLAVGYGLLKGEPYWLVKNSWSTYWGNSGYVLMS |
| UniRef90_E9FRZ4 UniRef90_I1FJJ7 | D H A V L A V G Y G L K G E P Y W L V K N S W S T Y W G N S G Y V L M S D H Q V L A V G Y G D V N G D E Y V I V K N S W S T H W G N D G Y V L M S T D D H S V L A V G Y G T M D G K P Y W M I K N S W S T H W G M N G Y V L M S |
| UniRef90_A7S4P4 UniRef90_M1AN95 | N H GIV L I VIG Y G S D G H D D Y WII I IK N S W G T E W G M E G Y G Y II IR R N T |
| UniRef90_UPI0002ADA66F UniRef90_UPI0002658EDF | DHAMLVVGYSYEDNNK <mark>C</mark> WLVKNSWGKKWGMDGYIKMAKDR THAVLVVGYGSLRGEPYWLVKNSWGPKWGAEGY <u>ILVS</u> R |
| UniRef90_C1MP57 | D H GIV L I V IG F G A E G R E P F WIL I IK N S W G A R W G E E G Y Y K II I <mark>C</mark> K D |
| UniRef90_W5G1M6 UniRef90_I2G9B1 | NHAVTI VGYCEQFGEKFWIAKNSWSNDWGEQGYIYLAKDV DHGVGCVGYGTEGSKNYWIVRNSWGASWGEKGYIRMVKDK |
| UniRef90_F9WCL8 UniRef90_L8HLI8 | N S A V L L V G Y D D T S K P P Y W I I K N S W S K G W G E K G Y I R I E K H C V M I T G Y G W D F M K Y D V W N I R N S W G E D W G Y G G Y L Y V Q R N H G V L V V G Y G S E N G G D F W L V K N S W G S D W G E G G Y Y R P V R N H |
| UniRef90_D6X518 UniRef90_F4PRJ8 | DHGIVI VVIGYGATQGAQFWKIVIKNSWGPFWGII ISGYII IQMARNR |
| UniRef90_B6D5T7 UniRef90_D8RB50 | NHAVLLVGYGVENNVPYWILKNSWGSDYGEDGYVRVRRGVNHAVTIVGYGITDGKKYWIVKNSWGTEWGDDGYVYMQRDTNHAVLLVGYGVKNDVPYWILKNSWGAEWGEEGYFRVQRDK |
| UniRef90_O91466 | NHAVEL VGYGUKNDÜPYWILKNSWGAEWGEEGYFRÜÖRDK WHAVTVVGYGTHDDDNYWVVKNSWGPSWGEGGYERESRDE |
| UniRef90_UPI000234EC3E | VVII A V I V V G I G I II N U U U I N IV V N N N N N N N O F O W G E G G Y II K I O R D E |

| UniRef90_A4IHZ5 UniRef90_MOVD12 UniRef90_MOVD12 UniRef90_TFV49 UniRef90_TFV49 UniRef90_TEV49 UniRef90_TEV49 UniRef90_TEV49 UniRef90_A1M049 Uni | | |
|--|--|--|
| UniRef90_MOVD12 UniRef90_TFPV49 UniRef90_TFPV49 UniRef90_T1K747 UniRef90_T2BRA8 UniRef90_T2BRA8 UniRef90_T2BRA8 UniRef90_T2BRA8 UniRef90_T2BRA8 UniRef90_ACACMSUM17 U | UniRef90 A4IHZ5 | |
| UniRef90 | UniRef90_M0VD12 | PPLGLCGLAKLPVYPII |
| UniRef90_UPI00038BBF01 UniRef90_TOQ4K9 UniRef90_TOQ4K9 UniRef90_TIKK60 UniRef90_TIKK60 UniRef90_ESBU973 UniRef90_ESBU973 UniRef90_ESBU973 UniRef90_UPI00042A9SEB UniRef90_LEBLEB UniRef90_LEBLEB UniRef90_LEBLEB UniRef90_TOQ4K9 UniRef90_TOQ4K9 UniRef90_TOQ5K9 UniRef90_TOQ | · . · . · · - _ · . · · · · | GSNMCGI ANGASYPI |
| UniRef90_TOQ4K9 UniRef90_TIKK60 UniRef90_TIKK60 UniRef90_ESU973 UniRef90_ESU973 UniRef90_ESU98 UniRef90_ESUE88 UniRef90_ESUE88 UniRef90_ESUE88 UniRef90_ESUE88 UniRef90_ESUE98 UniRef90_ESUE98 UniRef90_ESUE98 UniRef90_ESUE99 UniRef90_ESUE9 | UniRef90_UPI00038BBF01 | N NHCSIASQASFPNIF |
| UniRef90_AZEM51 UniRef90_BSU9F3 UniRef90_BSU9F3 UniRef90_ESLBE8 UniRef90_ESLBE8 UniRef90_ESLBE8 UniRef90_ADA034WHL7 UniRef90_ADA034WHL7 UniRef90_ADA034WHL7 UniRef90_ADA059C26 UniRef90_ADA059C26 UniRef90_ADA059C26 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_ADA059C26 UniRef90_BSV4D7 UniRef90_BSV4D7 UniRef90_BSX4D8 UniRef90_BSXAD8 UniRef90_BSXAD8 UniRef90_BSXAD8 UniRef90_BSXAD8 UniRef90_BSXAD8 UniRef90_BSXBAT7 UniRef90_BSXBAT8 Uni | | Y P Y G V C A I I N S L A S Y P T K S G R G M C N V A N G V S Y P T |
| UniRef90_DBSU9F3 ViniRef90_DBSU9F3 ViniRef90_ESLBE8 UniRef90_ADA034WHL7 UniRef90_ADA034WHL7 UniRef90_ADA0580E26 UniRef90_ADA0580E26 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D9 UniRef90_SSX4D9 UniRef90_BSX4D9 UniRef90_BSX4D1 UniRef90_BSX4D6 UniRef90_BSX4D6 UniRef90_BSBX4D9 UniRef90_BSBX4D9 UniRef90_BSBX4D1 UniRef90_BSBX4D1 UniRef90_BSBX4D1 UniRef90_BSBX4D1 UniRef90_BSBX4D1 UniRef90_BSBX4D1 UniRef90_BSBX4D1 UniRef90_BSBX5D1 UniRef90_BSBX5D | UniRef90_A2EM51 | H N M C G V A S E P M F P V |
| UniRef90 _ LP100042A958E | | QKNNNCGVTTNPTYPL YNOCGUATAASEPT |
| UniRef90 _ LANGN3 UniRef90 _ CALSI6 UniRef90 _ CAMWCR3 UniRef90 _ CAMWCR3 UniRef90 _ CAMWCR3 UniRef90 _ CALSI6 UniRef90 | UniRef90_UPI00042A958E | G N <u>H</u> CGIATYGMYPL |
| UniRef90 | | G K E G L C G V Y K S S Y F P I K |
| UniRef90 | UniRef90_A0A034WHL7 | N F G G I A M G P S Y P L |
| UniRef90 BSX4D9 UniRef90 GSX4D9 UniRef90 GSX6D7 UniRef90 GSYEF7 UniRef90 GSYEF7 UniRef90 GSYEF7 UniRef90 GSYEF7 UniRef90 AWCR3 UniRef90 AWCR3 UniRef90 AMD ATE254 UniRef90 AMD ATE254 UniRef90 AMD ATE254 UniRef90 AMD ATE254 UniRef90 UP100034572EDA UniRef90 LP10004575EDA UniRef90 LP100024572EDA UniRef90 C9U914 UniRef90 UP100024572EDA UniRef90 MSX1H6 UniRef90 LP10004575DE5 UniRef90 MSX1H6 UniRef90 T1A0L7 UniRef90 MSX1H6 UniRef90 | · . · . · . · . · . · | N N Q C G I A N D A I JY P T |
| UniRef90_GSFET UniRef90_AG76EH4 UniRef90_AG76EH4 UniRef90_AG76EH4 UniRef90_AG6Q5 UniRef90_AG6Q5 UniRef90_P28837 UniRef90_P28837 UniRef90_P28895 UniRef90_P28895 UniRef90_B8837 UniRef90_B8837 UniRef90_P28895 UniRef90_P28895 UniRef90_P28895 UniRef90_B8837 UniRef90_P28895 UniRef90_P38896 | UniRef90_W7TMU3 | DKQAA <mark>C</mark> GI MEDASYPI |
| UniRef90_G7I6H4 UniRef90_VSUP2 UniRef90_A1E25A UniRef90_A266Q5 UniRef90_D41E25A UniRef90_UD1000359A7C9 UniRef90_P28397 UniRef90_P28397 UniRef90_P28397 UniRef90_P28397 UniRef90_P28395 UniRef90_P38405 UniRef90_P38406 UniRef | | K D N N C G V T T D A T Y |
| UniRef90 | UniRef90_G7I6H4 | GPVGNCGITRHPSY |
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| UniRef90 | | N NQCGEATMACIP |
| UniRef90 P22895 UniRef90 Q9U914 UniRef90 Q9U914 UniRef90 Q9U914 UniRef90 Q9U914 UniRef90 Q84WDK4 UniRef90 D8LWW8 UniRef90 D8LWW8 UniRef90 D8LWW8 UniRef90 D8RKC1 UniRef90 D8RKC1 UniRef90 P1A0L7 UniRef90 P1A0L7 UniRef90 P1A0L7 UniRef90 P1A0L7 UniRef90 C7BW21 UniRef90 C7BW21 UniRef90 V4TDQ4 UniRef90 V4TDQ4 UniRef90 V4TDQ4 UniRef90 P7S512 UniRef90 D7G512 UniRef90 D7G512 UniRef90 B7SP47 UniRef90 B7SP47 UniRef90 B7SP47 UniRef90 B0XCV8 UniRef90 UP10001C8B07C UniRef90 UP1000239C088 UniRef90 UP10001C8B07C UniRef90 B0XCU8 UniRef90 B0XCU8 UniRef90 B0XCU8 UniRef90 B0XCU8 UniRef90 B0XCU8 UniRef90 D7G6C33 UniRef90 C7GC23 UniRef90 C7GC23 UniRef90 V4BA48 UniRef90 B0XCU8 UniRef90 V5M3B7 UniRef90 V5M3B7 UniRef90 V5M3B7 UniRef90 V5M3B7 UniRef90 UP1000244425 UniRef90 UP1000224A48 UniRef90 UP100024B44325 UniRef90 UP100024B44325 UniRef90 UP100024B44325 UniRef90 UP100024B44325 UniRef90 UP100022B44325 UniRef90 UP10002B44325 UNIREF90 UP10002B44 | UniRef90_P84347 | G K E G T C G V Y K S S Y F P I K |
| UniRef90 Q9U914 UniRef90 D100026574F5 UniRef90 M5X1H6 UniRef90 M5X1H6 UniRef90 M5X1H6 UniRef90 M5X1H6 UniRef90 D8RKQ1 UniRef90 B7BKQ1 UniRef90 B7BKQ1 UniRef90 C7BWZ1 UniRef90 C7BWZ1 UniRef90 C7BWZ1 UniRef90 S4RX47 UniRef90 S4RX47 UniRef90 C7BWZ1 UniRef90 C7BWZ1 UniRef90 S4RX47 UniRef90 C7BWZ1 UniRef90 D7G512 UniRef90 M0UBV6 UniRef90 M0UBV6 UniRef90 M0UBV6 UniRef90 M0UBV6 UniRef90 M0UBV6 UniRef90 M0UBV6 UniRef90 D11KF34 UniRef90 M0V4VQ3 UniRef90 D11KF34 UniRef90 D11KF34 UniRef90 D11KF34 UniRef90 D11KF34 UniRef90 D11KF34 UniRef90 D11KF34 UniRef90 M3X2QA4 UniRef90 M3X2QA4 UniRef90 A2DJ07 UniRef90 A2DJ07 UniRef90 A2DJ07 UniRef90 G76CZ3 UniRef90 T0RF17 UniRef90 M3X8B7 UniRef90 M3XB87 UniRef90 M3XB87 UniRef90 M5MB87 UniRef90 M5MB87 UniRef90 M5MB87 UniRef90 M5MB88 UniRef90 M5MB85 UniRef90 M4NV23 UniRef90 M5MB85 UniRef90 M5MB85 UniRef90 M5MB85 UniRef90 M4NV34 UniRef90 M5MB85 UniRef90 M5MB85 UniRef90 L9D100024D466F UniRef90 C1MP57 UniRef90 L9D100024D466F UniRef90 L9D100024D466F UniRef90 C1MP57 UniRef90 D11FJ7 UniRef90 M5K1B6 UniRef90 M5MB85 UniRef90 L9D100024D466F UniRef90 L9D10004D40 UniRef90 L9D10004D40 UniRef90 L9D10004D4 | | DKGNNCGIIASSALIYPV GNIGVCGMNYFASYPTK |
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| Uniref90_DBLWW8 | | NTCRIANNATYPV |
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| Unire(90 | | A MCGMNSMVS KDNNCGVTTDAILY |
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| UniRef90 C7BW21 | | K G N M C H II A T M G A F P L |
| UniRef90 | UniRef90_F1A0L7 | K N N <mark>C</mark> G I <u>A</u> S <mark>C</mark> A S Y P <u>T</u> |
| UniRef90_V4TDQ4 | | G D G V C G L N K D C S S A V |
| UniRef90_T76512 | UniRef90_V4TDQ4 | DAEKGC |
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| UniRef90_W4WVQ3 UniRef90_UP10001CBB07C UniRef90_E9J7R5 UniRef90_B5LT54 UniRef90_B0XCU8 UniRef90_UP10004401F12 UniRef90_A2DJ07 UniRef90_A2DJ07 UniRef90_A2DJ07 UniRef90_QQQKD8 UniRef90_T0RF17 UniRef90_Q76CZ3 UniRef90_Q76CZ3 UniRef90_B0EIS2 UniRef90_V5M3B7 UniRef90_UP10002B44325 UniRef90_UP10002B44325 UniRef90_UP10002B44325 UniRef90_UP10002B44325 UniRef90_UP10002B44325 UniRef90_UP10002B58EDF UniRef90_UP1002B58EDF UNIREf90_UP1002B58ED | | G NTCGVATWPSYPL |
| UniRef90_E9J7R5 UniRef90_BSLT54 UniRef90_BOXCU8 UniRef90_BOXCU8 UniRef90_O2QMD8 UniRef90_Q2QMD8 UniRef90_Q2QMD8 UniRef90_Q76CZ3 UniRef90_Q76CZ3 UniRef90_A0A059LM16 UniRef90_B0EIS2 UniRef90_V5M3B7 UniRef90_V4B4A8 UniRef90_V4B4A8 UniRef90_F9PK24 UniRef90_T1INL7 UniRef90_T1INL7 UniRef90_T1INL7 UniRef90_T1INL7 UniRef90_DY0D002B44325 UniRef90_POYF04 UniRef90_POYF04 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_UPl0002BAB66F UniRef90_UPl0002ADA66F UniRef90_UPl0002ADA66F UniRef90_UPl0002ADA66F UniRef90_UPl0002ADA66F UniRef90_UPl0002ADA66F UniRef90_UPl0002ADA66F UniRef90_UPl0002ADA66F UniRef90_UPl0002ADA66F UniRef90_UPl0002BAB50 UniRef90_D8RB50 UniRef90_D8RB50 UniRef90_D8RB50 UniRef90_D8RB50 UniRef90_D8RB50 UniRef90_D8RB50 UniRef90_D8RB50 UniRef90_O91466 | UniRef90_W4WVQ3 | K N R <mark>C</mark> G 🗸 A N Y A A Y |
| UniRef90_B5LT54 K Y N Q C G I A T D A S Y P UniRef90_UPl0004401F12 K D N N C G L A T D A T Y UniRef90_A2DJ07 N N Q C G I A T M A C I P T UniRef90_A2DJ07 N N Q C G I A T M A C I P T UniRef90_D3KZ04 N P H G T C G L UniRef90_J3KZ04 N P H G T C G L UniRef90_A0A059LM16 N P H G T C G L A M Q P S F P V UniRef90_B0EIS2 N N Q C A I A S V A P V UniRef90_V5M3B7 G A E G Q C G L A M Q P S F P V UniRef90_V4B4A8 G A E G Q C G L A M Q P S F P V UniRef90_F4PK92 N N Q C G I A M Q P S F P V UniRef90_F4PK92 N N C G I A S Q A T Y P I UniRef90_F4PK92 D N N C G I A S Q A T Y P I UniRef90_T1INL7 Q K N N N C G V A T S A T Y UniRef90_P0YF04 D K Q G E C G I N D D P S Y P UniRef90_H2UVW7 D K Q G E C G I N D D P S Y P UniRef90_H2UVW7 D K Q G E C G I N D D P S Y P UniRef90_UPl0002ADA66F D K C G V A T A A T Y UniRef90_UPl0002ADA66F N N C G I A T A A S Y P T UniRef90_UPS61M6 Y P M G T C G I A T A A S Y P T UniRef90_D4S61B N N C G I A T A A S Y P T | | KNRCGWANYAAY |
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| UniRef90_11HDA3 UniRef90_A2DJ07 UniRef90_Q2QKD8 UniRef90_T0RF17 UniRef90_J3KZ04 UniRef90_A0A059LM16 UniRef90_A0A059LM16 UniRef90_V5M3B7 UniRef90_V4B4A8 UniRef90_V4B4A8 UniRef90_G0QSX6 UniRef90_T1INL7 UniRef90_G0QSX6 UniRef90_F0YF04 UniRef90_F0YF04 UniRef90_F0YF04 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_A7S4P4 UniRef90_J1FJJ7 UniRef90_A7S4P4 UniRef90_UP10002B44325 UniRef90_UP10002B58EDF UniRef90_UP10002B58EDF UniRef90_UP10002B58EDF UniRef90_UP10002B1 UniRef90_UP10002B1 UniRef90_UP10002B1 UniRef90_UP10002B58EDF UniRef90_UP10002B1 UNIREf90_UP1002B | | K D N N C G 🗆 A T D A T Y |
| UniRef90_Q2QKD8 G D G T C G I UniRef90_J3KZ04 N P H G T C G I UniRef90_A0A059LM16 D G R G L C G I A M Y G A Y P V UniRef90_A0A059LM16 D G R G L C G I A M Y G A Y P V UniRef90_B0EIS2 N N Q C A I A S VA Y F P UniRef90_V5M3B7 G G V C G V N T M C T S A T UniRef90_V4B4A8 G G V C G V N T M C T S A T UniRef90_F4PK92 D N N C G I A S Q A T Y P I UniRef90_G0QSX6 G T N M C G L A D C A S Y P I UniRef90_T1INL7 Q K N N N C G V A T S A T Y UniRef90_V64B8Q2 D N C G I A VQ P S Y P T K UniRef90_V7F04 Q K N N C C G V A T A A T Y P T I UniRef90_H2UVW7 D G K N P C G I A S Y A L Y P I UniRef90_H2UVW7 D G K N P C G I A S Y A L Y P I UniRef90_H15JJ7 Q K E N N C G V A T S P T Y V I UniRef90_M1AN95 D K Q G E C G I N D D P S Y P UniRef90_UPI0002ADA66F N N C G I A T A A S Y P T UniRef90_UPI0002ADA66F N N C G I A T A A S Y P T UniRef90_L2G9B1 N N C G I A T A A S Y P T UniRef90_L2G9B1 N N C G I A T A A S Y P T | UniRef90_I1HDA3 | A P T G T C S L A S S P F Y P T |
| UniRef90_TORF17 G G S G T C N L A E A P S Y P UniRef90_J3KZ04 N P H G T C G L A V S P L Y P T UniRef90_A0A059LM16 D G R G L C G L A M Y G A Y P V UniRef90_B0EIS2 N N Q C A I A S V A Y F P UniRef90_V5M3B7 G Q N L C G I G L H A A Y P T UniRef90_V4B4A8 G G G V C G V N T M C T S A T UniRef90_F4PK92 D N N C G L A D C A S Y P I UniRef90_G0QX6 G T N M C G L A D C A S Y P I UniRef90_T1INL7 Q K N N N C G V A T S A T Y UniRef90_H2UVW7 Q K N N C G V A T S A T Y P T L UniRef90_H2UVW7 D K Q G E C G I N D D P S Y P UniRef90_H2UVW7 D G K N P C G I A S Y A L Y P T L UniRef90_H2UVW7 D G K N P C G I A S Y A L Y P T L UniRef90_H2UVW7 D G K N P C G I A S Y A L Y P T L UniRef90_H2UVW7 D G K N P C G I A S Y A L Y P T L UniRef90_UPI0002658EDF N N Q C G I A T A A T Y UniRef90_UPI0002658EDF N N C G I A T A A S Y P T K UniRef90_L8HLI8 G T N Q C UniRef90_L8HLI8 G T N Q C UniRef90_D6X518 G T N Q C UniRef90_D8RB50 G T Q C Un | | |
| UniRef90_Q76CZ3 D G R G L C G L A M Y G A Y P V UniRef90_A0A059LM16 G A E G Q C G L A M Q P S F P V N Q C G L A S Y A L Y P L M A M Y B T M Q C G L A M Q P S F P V D L M A M Y B T M Q C G L A M Q P S F P V D L M A M Y B T M Q C G L A M Q P S F P V D L M A M Y B T M Q C G L A M Q P S F P V D L M A M Y B T M Q C G L A M Q P S F P V D L M A M Y B T M Q C G L M A T M A M Y P T M Q T M A M Y B T M Q C G L M A T M A M Y P T M Q T M A M Y B T M A M Y B T M A M Y B T M A M Y B T M A M Y B T M A M Y B T M A M Y B T M A M Y B T M A M Y B T M Y B T M M M R T M A M Y P T M M Y B T M A M Y B T M A M Y B T M Y B T M M N E Y A M Y P T M M Y B T M M N E Y A M Y P T M M N E Y A M Y P T M M Y B T M M N E Y A M Y P T M M M M E Y A M Y P T M M M M E Y A M Y P T M | UniRef90_T0RF17 | GGSGT <mark>C</mark> NLA <u>E</u> AP <u>S</u> YP |
| UniRef90_A0A059LM16 G A E G Q C G L A M Q P S F P V UNIRef90_V5M3B7 N Q C A I A S VA Y F P G Q N L C G I G L A A Y P T G G G V C G V N T M C T S A T V P I G G G V C G V N T M C T S A T Y D I G G G V C G V N T M C T S A T Y D I G G G V G D V A T S A T Y D I G G G V G D V A T S A T Y D I G G G V G D V A T S A T Y D I G G G V G D V A T S A T Y D I G G G V G D V A T S A T Y D I G G G V G D C G V A T S A T Y D I G G G V G D C G V A T S A T Y D I G G G C G I G G V G D C G V A T S A T Y D I G G G C G I G G V G D C G V A T A A T Y P T I G G G C G I G G V G D C G V A T A A T Y D T I G G G C G I G G I G G V G D C G I G G G G G G G G G G G G G G G G G G G G | | |
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| UniRef90_F4PK92 D N N C G I A S Q A T Y P I G X S Y P G I A D C A S Y P I G X S | | G Q N L C G I G I H A A Y P T |
| UniRef90_G0QSX6 UniRef90_T1INL7 UniRef90_K4B8Q2 UniRef90_UP10002B44325 UniRef90_VP10002B44325 UniRef90_S6MEB5 UniRef90_S6MEB5 UniRef90_L2UVW7 UniRef90_H2UVW7 UniRef90_H2UVW7 UniRef90_H1FJJ7 UniRef90_H1FJJ7 UniRef90_M1AN95 UniRef90_UP10002ADA66F UniRef90_UP10002ADA66F UniRef90_UP10002E58EDF UNIREF9 | | G G G V C G V N T M C T S A T |
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| UniRef90_D8RB50 | | NSCGM INFLAS |
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| | UniRef90_UPI000234EC3E | G G D G L C R L L F N P L Y |

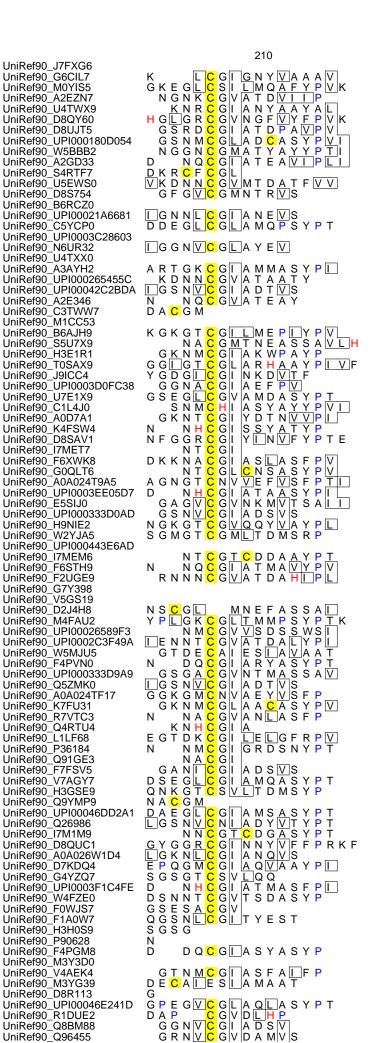
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| UniRef90_J9ICC4 | Q N Y R NII IDIL IS E Q QII VID C T Y S D Q F N R G C M G G H MIVIY T F Q Y IL IQ S |
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| UniRef90_C1L4J0 | KTNKLIPLSAQQLID <mark>C</mark> TG <u>DH</u> ECVENPLPVGFD YLKH |
| UniRef90_A0D7A1 UniRef90_K4FSW4 | T T G E L P D L S E Q Q L L D C S T V I D F N K G C D G G L P A R A L N Y V K R K Y G K L I K L S E Q S L V D C S S Y Y G N L G C S G G S L I R A Y K F V M E N |
| UniRef90_D8SAV1 | <u>L</u> FGG L <u>A</u> NFSAQE <u>F</u> L D <mark>C</mark> TK <u>K</u> AKG <mark>C</mark> RSG <u>S</u> P |
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| UniRef90_UPI000443E6AD UniRef90_I7MEM6 | K T G K IL IE II F S P Q Y II I D C S N G Q F D N A G C D G G T S A G IV F Q F V Q K |
| UniRef90_F6STH9 | KSGKP L EMSKQM L <u>I</u> D <mark>C</mark> D RRQS <mark>C</mark> RGGS <u>VIL</u> AFKY <u>MK</u> KK |
| UniRef90_F2UGE9 UniRef90_G7Y398 | D C D H A D H G C S G G F PII H A Y F C V Q R II I |
| UniRef90_V5GS19 | K T G D L V S I S E Q N L V D <mark>C</mark> S S <u>E H</u> N N L G <mark>C</mark> A G G <u>D</u> M N P A <u>F</u> T Y V <u>H</u> N Q |
| UniRef90_D2J4H8 UniRef90_M4FAU2 | TTGE LL S L S V QE LI D <mark>C</mark> DGYFNYG <mark>C</mark> NG GFMN <u>MAF</u> KY <u>I</u> MEK |
| UniRef90_UPI00026589F3 | STGRI VDL A EQQI VD <mark>C</mark> SYNYQGEMN <mark>C</mark> NGGHE <u>VVV</u> MDFVSQ I GGNYKD <u>LSE</u> EQ <u>I VQC</u> SLIEGNNG <mark>C</mark> WGGLGK <u>RS</u> FEY <u>I K</u> K |
| UniRef90_UPI0002C3F49A UniRef90_W5MJU5 | LTNNTQQPVLSPQQVVSCSEYSQGCDGGFPYLIAGKYIQD |
| UniRef90_F4PVN0 UniRef90_UPI000333D9A9 | TYGTQQSIDLSEQELVD <mark>C</mark> RDYNNI <mark>C</mark> GGGWMHNAFKQILIE |
| UniRef90_Q5ZMK0 | K GHNLEELSVQQVIDCSYSNYGCSGSTITALSWLNQTKV |
| UniRef90_A0A024TF17 UniRef90_K7FU31 | LTNNTQQPVLSPQQVVSCSEYSQGCDGGFPYLIAGKYIQDTYGTQQSIDLSEQELVDCRDYNNICGGGGWMHNAFKQILIENQGSLLSLSEQELLDCDKVDKACMGGIPSNAYEAIRTLKGHNLEELSVQQVIDCSYSNYGCSGGSTITALSWLNQTKVDTGKLLDLSEQQVVSCSNWNNGCLGGVPWYALDFMFSMGQAIHSAAEQQLVDCAQDFNNHGCSGALPSRPGQDILYNMGQAIHSAAEQQLVDCAQDFNNHGCSGALPSRPGQDILYNN |
| UniRef90_R7VTC3 | GUILII NA FETIVIKUN |
| UniRef90_Q4RTU4 UniRef90_L1LF68 | QTGKLVSLSEQNLVDCSRPEGNEGCNGGLMDQAFQYLKDN KKGQALDLSEQELVNCEPYSNGC KGGFCDKALEYLLT |
| UniRef90_P36184 | DILIGRILIY S E S E O OIL VID C D A S D N G C E G G H P S N SIL IR EIL IO E N N G |
| UniRef90_Q91GE3 UniRef90_F7FSV5 | AHDRLINISEQQMIDCDSVDVGCE GGLIHTAFEALISM RGKPLEELSVQQVIDCSYNNEGCSGGSTINALNWLNKTQV |
| UniRef90_V7AGY7 | \/ \/ \/ |
| UniRef90_H3GSE9 UniRef90_Q9YMP9 | ANGDKKAPSYSEQQLVSCDTKDFGCNGGAPVYAMEYVRDNRHNRLIDLSEQQLIDCDSVDMGCNGGAPVYAMEYVRDNRHNRLIDLSEQQLIDCDSVDMGCNGGLHTAFEEIMRMTTGKLISFSEQELVNCDTSREDQGCEGGLRDDAFQFIQQNATGELLRFSEQSLVDCDYSCQGCSGGWPDQAMKYVIEQQNKTGKLEVFSPQYIVDCAKHQFSRGGCHGGYSSGVFTFVKE |
| UniRef90_UPI00046DD2A1 UniRef90_Q26986 | TTGKLISFSEQELVNCDTSREDQGCEGGLRDDAFQFLQQN |
| UniRef90_I7M1M9 | KTGKLEVESPQYIVDCAKHQFSRGGCHGGYSSGVETFVKE |
| UniRef90_D8QUC1 UniRef90_A0A026W1D4 | VII G NII VIEII IS A G EII T III <mark>G</mark> DIVIT N G G <mark>G D T G E E G D S E IVIT II IG N T G II T</mark> |
| UniRef90_D7KDQ4 | KNGTLYPFSVQEMIDCMPGDYGCQGGDICSLLSWLLASKT SGKNLLITUSEQQLIDCDTEKNTGCDG GGIEEAFKYIIKN |
| UniRef90_G4YZQ7 UniRef90_UPI0003F1C4FE | A G G Q K S L H K Y S E Q Q L V S C N T Q N H G C N G G A P Q Y A F D Y I L K N K T G K R V A M S D Q N L L D C S W P Q G N E G C N G G L M S N A F Q Y V K N N P S K S L T K L S E Q Q L T S C D T A T G N M G C Q G G Y P T N A I N Y V A S T N G K N Q T L T L L S E Q Q V N D C D A K S Y G C N G G F P R N A L E Y I R G N |
| UniRef90_W4FZE0 | P S K S L T K L S E Q Q L T S C D T A T G N M G C Q G G Y P T N A L N Y V A S T |
| UniRef90_F0WJS7 UniRef90_F1A0W7 | AGHKAILLISEGGSIVID <mark>C</mark> D I MDGGGGGGGDPANIVIYN YILLISA |
| UniRef90_H3H0S9 | A G G Q K S L N K F S E Q Q L V S C N T Q N Y G C N G G A P Q Y A F D Y I M K N |
| UniRef90_P90628 UniRef90_F4PGM8 | A G H K L V R L S E Q Q L V S C D H V D N G C G G G L M L Q A F E W V L R N M N S L D K P R L D L S E Q D L V D C R D M G N N G C G G G W M H T S Y Q Q I I N N |
| UniRef90_M3Y3D0 | K T G K L V S L S K Q N L V D <mark>C</mark> S W S Q G N K G <mark>C</mark> R G G M 1 H F A F Q Y I M D N |
| UniRef90_V4AEK4 UniRef90_M3YG39 | QTGQLFDLSAYELDDC GCGMQLFLKDFFGCIKRK LTNNTQTPILSPQEVVSCSQYAQGCEGGFPYLIAGKYAQD |
| UniRef90_D8R113 | ATNQLVSLSEQQLIDCDTVDEGC QTGELISLSEQQLLDCTSSYGNKGCDGGFMTSSFQYIQQN KTGELQDLSEQFILDCTPNPHACGGTGGCGGGAYERLKAL QGKSLDYLSVQQVIDCSFNNSGCLGGSPLCALRWLNETQL ATGELVSLSEQQLVDCDHVCDCDSGCNGGLMNNAFEILQS |
| UniRef90_UPI00046E241D UniRef90_R1DUE2 | |
| UniRef90_Q8BM88 | QGKSLDYLSVQQVIDCSFNNSGCLGGSPLCALRWINETQL |
| UniRef90_Q96455 | A G E L V S L S E Q Q L V D C D H V C D C D S G C N G G L M N N A F E L Q S |

| UniRef90_J7FXG6 | 90 H G L D T E K S Y P Y E A V D D K C R C N P K N S G A D D V G F V D I P S G D E |
|--|---|
| UniRef90_G6CIL7 UniRef90_M0YIS5 UniRef90_A2EZN7 UniRef90_U4TWX9 | G G C M T E V D Y P Y E Q K K G Q C R T K S S K I V A K I S G G L Q I D V K N E G G I T T E A N Y P Y V A Y K H K Y C L V S K R N P V I T I D G I K E V P Q N D G L W M L E T D Y P Y T A R D G C K F K A A K G V T L T K S Y V R P T T T Q N E G G L M A Y S D Y P Y N A A Q G K C R Y T K D M A I V N V T S W A V L P A R D E |
| UniRef90_D8QY60 UniRef90_D8UJT5 UniRef90_UPl000180D054 UniRef90_W5BBB2 | GGLMAYSDYPYNAAQGKCRYTKDMAIVNVTSWAVLPARDEGNYHFTGFNATCRKHVSTCTLNRYSVGLDDYDNLYGSSDDGGIALEQDYSYRSEVGFCRSANRSMVGQFSGYWAVESRNEKGLMTEADYPYQGVDGKCHFVASKASAFVKQLVNLTKGNEGGLQPEAVYAYSAQQGVCRSSSPNSAASVGAPRLEGLYGHGLFETEDNYPYQAEHHS |
| UniRef90_A2GD33 UniRef90_S4RTF7 UniRef90_U5EWS0 | GGI DSESDYPYTATDIVDSCHYDPSRMVARI SGFIVDI HGSE GGI PTEEEYGNYLGQDGYCHADNVTL VAPI KSFTNVTSND |
| UniRef90_D8S754 UniRef90_B6RCZ0 UniRef90_UPI00021A6681 UniRef90_C5YCP0 | NGI DKEMTYPYKAKTGRKCLFKRNDVGATDTGYFDI EGDE VQI FQESTYPTSMCKLGKMLDNAFGVKIRDFNCDNFVDAE GGI TTFSKYPYTGSDGNCNSDFAKNDAASI TGYFDVPAND |
| UniRef90_UPl0003C28603 UniRef90_N6UR32 UniRef90_U4TXX0 UniRef90_A3AYH2 | A [M N E T D Y P Y I A Q N G I CH Y D P A I C A A I C S R Y F Q L P Y G D E A [M N E T D Y P L V L E D Q K C Q K T D M S E G V K V G T Y Q C N S F V G R E T G I F A F A S Y P Y K A R D G T C K F D A S K V V T K I N D Y V Y W Y G D F |
| UniRef90_UPI000265455C UniRef90_UPI00042C2BDA UniRef90_A2E346 | GGI PLEETYGPYLGQNGM <mark>C</mark> HYGKSTPAVIKKYYNVTSGNQ KI VKDSFYTFKAQTGI CHYFQPSDSFPI I AFIDYDSSGQF |
| UniRef90_C3TWW7 UniRef90_M1CC53 UniRef90_B6AJH9 UniRef90_S5U7X9 | SKFMLTTDYPYTAVQGTCKYDNKKAKYFGMLELAGVSKSEGVEEERQYPYEGNNNCRLKSDERFVVKVKGCYRYLVMREGGMDTENHYPYSGVDGRCDPLRKNSKVVSIIDDYEDVPRNEQYLCTEEEYPYLANEKSCKFSNCKNPIRYILDSYVVPNNIGGVKHEHEYPYEGINMNCRLNDDNFAVKIIGCYRYIVLQEPGISAAKDYPYTGVESKCAYQPSMNAQPIVKALEIPKWDE |
| UniRef90_H3E1R1 UniRef90_T0SAX9 UniRef90_J9ICC4 UniRef90_UPI0003D0FC38 | GIVET LIDAYPNSNE WI MITAACAK NCAPI RMPFITIVASTIVIG TKILEEKDY MYTQQLSECKISKDQAQTRVKEYQNMQNMDP GMNTAMSYPYFAOOGRORWNOSNIV VIRIOGFOTI PSNE |
| UniRef90_U7E1X9 UniRef90_C1L4J0 UniRef90_A0D7A1 | GGL S E D N Y P Y Q G V D G I C S S E K A A S I E A Q I G Y E D V P Q N N K G V E S E D D Y K F V G N V E N C T Y N A S K V V I T A S S Y S Q V L P I S E N G I T T G A A Y P Y T A V O G T C K I K G G A Y H I K G S Q |
| UniRef90_K4FSW4 UniRef90_D8SAV1 UniRef90_I7MET7 UniRef90_F6XWK8 | SII A A A A D Y P F V G E A G A C K H K E K Q G K V S L K E F E S I L E G T D K A GIL V O S Y K Y P Y V G Y O G R C K V T S P T S R S V G F Y P O K F O L V N K T |
| UniRef90_G0QLT6 UniRef90_A0A024T9A5 UniRef90_UPI0003EE05D7 UniRef90_E5SIJ0 | GG DSDAEYPYVGQDEGCHYNPADKAATCKGYKE PVGSEGVTTEDKYPY EAKSHFSCKNKNGEFKI SSYQEI PVGDGVCLEQDFPYTSGTTGLTGSCANSCTKRQLSI GATVRVNGGGLDSEESYPYLARDTDTCNYRPECSAANDTGFVDI PQREGGLTTETNYSYDGNQGT CRFKTQNAKVYI NDSVSL PEDEKL VRDSEYPFTAQNGLCRYFSRAQPGVSLQGYVAYDFSDQ |
| UniRef90_UPI000333D0AD UniRef90_H9NIE2 UniRef90_W2YJA5 UniRef90_UPI000443E6AD | KLVRDSEYPFTAQNGLCRYFSRAQPGVSIQGYVAYDFSDQ VAEDSYPYVSGKGQVPSCNFNQSDIVYKNSGQVKVANSQT GLCSESAYPYTSSNGGGVCSASCSKSQTGITGYERINEGD GGLDSESSYPYVGEDMPCSYDPSYSAINLTGYDNVVSGSE |
| UniRef90_I7MEM6 UniRef90_F6STH9 UniRef90_F2UGE9 | GI VS FOCY PYKDKVN FDTIY I AILLIG WPAI PK GD |
| UniRef90_G7Y398 UniRef90_V5GS19 UniRef90_D2J4H8 UniRef90_M4FAU2 | GYIPTEASYGPYLMADGYCHPEKADKGPGIKYVNITSGDM GGLELAVRYPYVGYQ QYCQADPRYFVAYINGSVALPKDS DGIDSETSYPYEAVDGKCRYTVSGNVTSTRGYATIENGNE GGIVSEKDEPYYGLDA VCKPKQFNVSISGCTRYVLKNE GGTETDKYYPYIHRSPCRTTKTKNTRAVTIDGYEDVPRGD |
| UniRef90_UPI00026589F3 UniRef90_UPI0002C3F49A UniRef90_W5MJU5 UniRef90_F4PVN0 | R G V V LE N S Y S Y R S G Q S N H H Y S C Q K S T G T Y G R Y R E V K P N D E N G V V Q E S D Y P Y T A V D G K C L V D L T K K F A T I G G Y I N V P S K D V F G V V LE S C F P Y I G R D S P C T L K D S C F R Y Y A S E Y H Y Y G A C N E K G II T L S S I I P Y V G S R D Y I N C Y K G F K K T K I S K Y T M V P R T |
| UniRef90_UPI000333D9A9 UniRef90_Q5ZMK0 UniRef90_A0A024TF17 UniRef90_K7FU31 | GGI VSEKDEPYYGLDA VCKPKQFNVSI SGCI RYVLKNE GGTETDKYYPY HRSPCRTTKTKNTRAVTI DGYEDVPRGD RGVVLENSYSYRSGQSNHHYSCQKSTGTYGRYREVKPNDE NGVVQESDYPYTAVDGKCLVDLTKKFATIGGYINVPSKDV FGVVEESCFPYI GRDSPCTLKDSCFRYYASEYHYYGACNE KGITLSSI I PYVGSRDYI NCYKGFKKTKI SKYTMVPRT GGLETEEDYSYRAR MQACSYSADKARVYI NDSLELSQNE KLVRDSEYTFKAQTGLCHYFPHSDFGVSI TGFAAYDFSGQ EGGCMEQDYPYTSGQGDSGTCMRSCTKKLNI GATVQVSG HGLQGEETYPYQAQNGTCKFQRDKALAFVKDVI NI TQYDE |
| UniRef90_R7VTC3 UniRef90_Q4RTU4 UniRef90_L1LF68 | RGIDSEDAYPYIGQDES <mark>C</mark> MYSPSGKAAK <mark>C</mark> RGYREIPPGNEGGLDSEASYPYLATDDQPCHYDPSNNSANETGFVDVPGSENGIAHTKDIPYHAEDEVCTTSIYNRVEVDG |
| UniRef90_P36184 UniRef90_Q91GE3 UniRef90_F7FSV5 UniRef90_V7AGY7 | LGLESDYPYKAVAGT CKKVKNVATVTGSRRVTDGSE GGVQIENDYPYESSNNYCRMDPTKFVVGVKQCNRYLTIYE KLVRDAEYSFKAQTGICHYFSGSHYGISLRGYSAYDFSGQ NGLNTEANYPFKGVDGTCNAKAASSHAATIRGYEDVPANN |
| UniRef90_H3GSE9 UniRef90_Q9YMP9 UniRef90_UPI00046DD2A1 UniRef90_Q26986 | NGLNTEANYPFKGVDGTCNAKAASSHAATIRGYEDVPANNGVCTKSSYPYSSVDGGTAAACSTSCTPTKSGISEIVPTGDGGVCTKSSYPYSSVDGGTAAACSTSCTPTKSGISEIVPTGDGGVCTEDYPFVGRNRRCGLDRHRPYVVSLVGCYRYVMVNEHGISTEASYPYIGVDGTCNTKKEATIAARITGYEDVPAKSGKFILEENYQYSGHKGACLYDEKSKVSNIVAVTMFPQSDENGMNLESRYPYKGEENDKCLNQETLKFVN DFKLINQGD |
| UniRef90_I7M1M9 UniRef90_D8QUC1 UniRef90_A0A026W1D4 UniRef90_D7KDQ4 | EASASYPYII GKNST <mark>CHI</mark> GVFII DGFDTLRGSL <mark>C</mark> APGVSASE ELISENDYPLTWRTDTCRLSKI SAKAQVTDFTCDSFVDAE GGVSII FTFYPYQVIKKGSCRANARSATQTOI RGFFMVPSHN |
| UniRef90_G4YZQ7 UniRef90_UPl0003F1C4FE UniRef90_W4FZE0 UniRef90_F0WJS7 | GGLDTEESYPYVARDGP CKYRPEHSAANVTAFENIPQQE GVCSIFFYYVSGSTTQDFTCATSCTKKITGIIKKAVNVAPG |
| UniRef90_F1A0W7 UniRef90_H3H0S9 UniRef90_P90628 | NGVCTAEAYPYVSGSSGKDGKCGETNCAVDMDHVDGVGGSGGVSTEKDYPYTAQDGT CFNTTRAVSITGFQYVTQNSDEGFCMEASYKYTSGEGSVPRCYSCTKTTPGIKGYNVLDVGDGTVFTEKSYPYVSGNGDVPECSNSSPGARIDGYVSMESSE |
| UniRef90_F4PGM8 UniRef90_M3Y3D0 UniRef90_V4AEK4 UniRef90_M3YG39 | GTVFTEKSYPYVSGNGDVPECSNSSPGARI DGYVSMESSE QGISFTTDNPYVGNRAFKLCNKLTKA TKLATYTIVAKGE GGLESEESYPYLARND YCRYRPEKSAANMTTFLHVLSEE IGGLCTNVTYYHHQDQICNKDTCTPIAMVNGTGFLPEGDED FGLVEEACFPYKAADSPCKPKKDCPRHYSSEYHYYGACNE |
| UniRef90_D8R113 UniRef90_UPI00046E241D UniRef90_R1DUE2 UniRef90_Q8BM88 | GGI A S E E N Y P Y Q A W E G T C. N A N Q P A W Q I T G Y E K W P E N S GG L P S E W Y P Y L A G Q T S G G D T K C. H A K A A N V S G H V S L E P N S K L V A D S Q Y P F K A V N G Q C R H F P Q S Q A G V S V K D F S A Y N F R G Q |
| UniRef90_Q96455 | G G V Q K E K D L P Y T G R D G T C K F D K T K V A A T D L I K R V S L D E |

| | 400 |
|---|--|
| UniRef90 J7FXG6 | 130 140 150 160 D K L K A A V A T V G P V S V A T D A S Q Q S F Q F Y S V Y D E D Q C S S T E L L |
| UniRef90_G6CIL7 | DKLKAAVATVGPVSVAIDAŠQQSFQFYSVYDEDQCSSTEL NDLKDALANHGPLSIGLIVGENFR HYKGDIFRGSCEGNG |
| UniRef90_M0YIS5 UniRef90_A2EZN7 | EVALMKAVATQP VVVVDPNAFRRYEGGVFVGPCGTDR DELKAGCAKGGVVSIAIDASGYDFQLYSSGIYNPCSSTFL RALEIAVANVGPLAISINAAPHTFQFYHKGIFDDPGCTSF |
| UniRef90_AZEZIVI UniRef90_U4TWX9 | RALEI AVA NVIGPI AII SI NAAPHTFQFYHKGI FDDPGCTSF |
| UniRef90_D8QY60 | T D MVA Q V A K Q P V T A L I D G N A P E F L R Y K G G I Y K G P C K D D Q P |
| UniRef90_D8UJT5 UniRef90_UPI000180D054 | T D MVA QV A K Q P V T A L I D G N A P E F L R Y K G G I Y K G P C K D D Q P E A L ME A V W K Y G P V A V S V D A A P E S F R F Y S G G V Y D E P T C S H D D G L K E A V G L L N P V S I A F D V A K D F R H Y K S G V Y S S T L C G N K N |
| UniRef90_UF1000180D034 UniRef90_W5BBB2 | EGKLQELVANQPVAVSVEATEFNFRHYMSGVYSSCGQNLN |
| UniRef90_A2GD33 | DOUKTEVAANGPVAVMINADSEOERUVSSGVEPK <mark>C</mark> GKLIT |
| UniRef90_S4RTF7 UniRef90_U5EWS0 | K D <u>L I T A</u> V A S V G P V S V A I D A G H Q S F Q L Y E L Y Y E P E <mark>C</mark> N C T E L A K A K V A L F K N G P L S V A I D A A H K T F S F Y S H G I Y Y E P E C K N N |
| UniRef90_D8S754 | DQNAANLVKNGPLSIALNANYNMDYMGGVACPRICGGDNM |
| UniRef90_B6RCZ0 | EKLKIAVATQGPVSVAIDAGHRSFQLYTNGVYFEKE <mark>C</mark> D |
| UniRef90_UPI00021A6681 UniRef90_C5YCP0 | DELLIKVATHGPVAAVVNALSWQNYLGGVIYHCDSTYDNR ETSLRKAVANQPVSVAVDGGDNLFRFYKGGVLSGACGTEL AALKDAVANGPISVAIDATTSFFLYKSGVYDDPGCTQMV |
| UniRef90_UPI0003C28603 | A ALK DAVANI GPISVAI DATTSFFLYKSGVYDDPGCTQMV DLILKLLAINGPVAVAL SGETWQNYFGGVIQFHCEGDL |
| UniRef90_N6UR32 UniRef90_U4TXX0 | DIILKLLAINGPVAVAL SGETWQNYFGGVIQFHCEGDL EALLEATATIGPISVAMDANYIDSYASGVFSSRLCSSSDDL |
| UniRef90 A3AYH2 | - FILISH IU K AIVIA F U PIVISIVIAH IU A G G K F F UH IY U S GIVIF I G K <mark>U</mark> G I NH I |
| UniRef90_UPI000265455C | K DIL IK K AIL IA T K G PII AIVIGII ID A AIVIP S F S F Y S Y G T Y Y D A S <mark>C</mark> G N T |
| UniRef90_UPI00042C2BDA UniRef90_A2E346 | T E |
| UniRef90_C3TWW7 | EKLKDLLRAVGPLPMAIDASŠLFNYYRGVINY CGNNGL |
| UniRef90_M1CC53 UniRef90_B6AJH9 | K A L Q K A V A |
| UniRef90_S5U7X9 | EKLKDLLRAVGPIPIAIDASGLANYYQGVINY CENHGL |
| UniRef90_H3E1R1 | FAMKVTI ATVGPLAVAL DAGSĒRSYKSGVVDDPN <mark>C</mark> ROEVĒ |
| UniRef90_T0SAX9 UniRef90_J9ICC4 | ELELEQALNIQPVAVDIGSSSPVFKNYAGGIITGGCDTWFEEMKWLVYKQPISASISAYSHTFLSYSSGILDSEECGSELSELAAHVATRGPITVIMNARLLQHYRGGLITKHSSCHPNR |
| UniRef90_UPI0003D0FC38 | SELLA AHVATR GPITVIMNA RLLQHYR GGIITKHS SCHPNR |
| UniRef90_U7E1X9 UniRef90_C1L4J0 | ENAILLIOAIVIAKOPIVISIVIAIVIDGGGNDEREYKSGIVIEEGDCGLNIIL |
| UniRef90_A0D7A1 | E E T L V A Y L N K G P V S V G V D A T N W Q Y Y S P K D E K V F S D C D T K M |
| UniRef90_K4FSW4 | |
| UniRef90_D8SAV1 UniRef90_I7MET7 | FADILIKAJI VIFSPIVISILISIVINADTW KEYYGGIVIFDECGYTTE |
| UniRef90_F6XWK8 | KALKRAVANVGPVSVSIDASSFQFYKKGVYYDSSCNPDAV |
| UniRef90_G0QLT6 UniRef90_A0A024T9A5 | CDALLAQSIVIS QRPTSII IAIVIDAS NWQSYSSGVIFDDCATRLINHG |
| UniRef90_UPI0003EE05D7 | ERNMLKAILHNQPLTAVIDGSKAEFKSYAGGILYKGPCAESGEADLKAALVFSPVSISVNADTW KEYYGGVFDECGYTTEKALKRAVANVGPVSVSIDASSFQFYKKGVYYDSSCNPDAVCDALAQSVSQRPTSIAVDASNWQSYSSGVFDDCATRLNHGESATIAALNNQPVSVAVEAGNAVWQNYRSGVVSQCPGAISKALMKAVATVGPISVAIDAGHQSFQFYKKIYFDPECSSKDLTEIAAYIRENGPVAVGINAFAMMFYRHGIAHPWCSSCKA |
| UniRef90_E5SIJ0 | TEILAAYLRENGPVAVGINAFAMMFYRHGLAHPWR <mark>C</mark> SPDAL |
| UniRef90_UPI000333D0AD UniRef90_H9NIE2 | TNI OKANON BATIELIA CELVICIO NO DIVERGILI CITA COLLA C |
| UniRef90_W2YJA5 | ENVMARALLISGPLVVTVDAVISWQDYLGGITQHHCSSGKA TNLQKAVQNNPATIEIAASSLVFQLYKSGVLTSTACGTAL EAGLVDALKLQPVVVAVASGNAAWKQYTGGVMTTCETTQV |
| UniRef90_UPI000443E6AD UniRef90_I7MEM6 | CKELERVISKOPVSI SI DAR KIKNYOSGI IKOCSKKINI |
| UniRef90_F6STH9 | KALMRAVANVGPVSVTVHALRSFFYYRGGVYEPKCKKKYL NKVLDMLDNDGPLAVAIDASLKSFSFYSSGVYYDSDCGNT |
| UniRef90_F2UGE9 UniRef90_G7Y398 | N K V L D M L D N D G P L A V A I D A S L K S F S F Y S S G V Y Y D S D C G N T E Q I A K F L A T F G P L S V V L D A R L L Q Y Y R S G L L N P S Y C N P E E L |
| UniRef90_V5GS19 | DYLKAAVATIGPIAVAIDASQLEFDFYSEGIYYNPYCNNG |
| UniRef90_D2J4H8 | DYLKAAVATIGPIAVAIDASQLEFDFYSEGIYYNPYCNNGNKLRELLIANGPISMAVDIIDV IDYKEGITDICENMNGLKMSLKKAVAHQPVSAAIYADGAAFRHYKGGVFNVSCGLWD |
| UniRef90_M4FAU2 UniRef90_UPI00026589F3 | QKILIA E AII IA QY G I IL VIMSII IS G E N R F Q MY R G GII IY D N P N C S K QIVI |
| UniRef90_UPI0002C3F49A | NELKSAL VGG <u>VVDVSI</u> DARTVKLQLYKSGVYTDKN <mark>C</mark> MSDL AEMRLEL VRNGPMGVAFEVYPDFMNYKEGLYHHFNPFELT |
| UniRef90_W5MJU5 UniRef90_F4PVN0 | FDGI REAL METAVISAAEDAS SREEQI Y OSGI ESSPT <mark>C</mark> EKI |
| UniRef90_UPI000333D9A9 | EDGLREAL METAVSAAFDASSREFQLYQSGIFSSPTCEKLHKLASWLAKNGPISVAINAFGMQFYRHGIAHPPLCSPWLI |
| UniRef90_Q5ZMK0 UniRef90_A0A024TF17 | E E E M M R V L V D W G P L A V T V D A V S W Q D Y L G G I I Q Y H C S S G K A |
| UniRef90_K7FU31 | A GL VE AVIGKHNPVS FAFEVT DDFLSYRKGVYSNPKCDHTP |
| UniRef90_R7VTC3 UniRef90_Q4RTU4 | KAILIKRAIVIARII IGPIVISIVIGII IDASSFQFYSRGIVIYYDES <mark>C</mark> NAENII IRAGUESEOEVOIVYEKEEOESEII |
| UniRef90_L1LF68 | DI DONSOS VSPTTVYLAVSEEFSSYKSGOYTGPCGEASN |
| UniRef90_P36184 UniRef90_Q91GE3 | T GIL IQ TII I I IA E N G PIVIA IVIG M D A S R P S F QILIY KII IY S D T K C R S R M M |
| UniRef90_F7FSV5 | EDEMVKVLLSFGPLAVI VDAVSWQDYLGGII QHHCSSGEA |
| UniRef90_V7AGY7 | E E E MMR IV L V D W G P L A V T V D A V S W Q D Y L G G I I Q Y H C S S G K A E L A L E T A L N K Q P V S V A V E A M N T E W M Y Y R S G E I E H C P G S Q S A G L V E A V G K H N P V S F A F E V T D D F L S Y R K G V Y S N P K C D H T P K A L K R A V A R I G P V S V G I D A S S F Q F Y S R G V Y Y D E S C N A E N I R A L M K A V A S V G P V S V A I D A G H E S F Q F Y Q L Y Y E K E C S S E E L L D I L Q N S L S V S P T T V Y L A V S E E F S S Y K S G I Y T G P C G E A S N T G L Q T I I A E N G P V A V Q M D A S R P S F Q L Y K I Y S D T K C R S R M M E K L K D V L R L A G P I P V A I D A S D I L N Y E Q G I I Q H H C S S G E A E K A L Q K A V T N Q P V S V A I D A S G S D F Q F Y K S G V F T G S C G T E L E S A L L S A V K Q Q P V I V S V A S D N S A W K Q Y V S G V I T A C D T T T V E K L K D L L R A V G P I P M A I D A A D I V N Y Y R G V I S S G V Y T E T C G T S L |
| UniRef90_H3GSE9 UniRef90_Q9YMP9 | E S A L L S A V K Q Q P V I V S V A S D N S A W K Q Y V S G V I I A C D I I I V E K L K D L L R A V G P I P M A I D A A D I V N Y Y R G V I S S C E N N G I |
| UniRef90_UPI00046DD2A1 | EKALLTTVSHQPISVAIDASGPDFQFYSSGVYTETCGTSL |
| UniRef90_Q26986 UniRef90_I7M1M9 | EKALLTTVSHQPISVAIDASGPDFQFYSSGVYTETCGTSLQNLKGHIAANGPVSCNVDAGHYSFQLYQGGIYWSWFCRTQCQEIERVLFKQPVSISLDAEKVQHYQSGILKQCSDTINELKMRVAQQPVTALIDGSSKDFVKYTGGIFKGPCHSTTG |
| UniRef90_D8QUC1 | E E L K M R V A Q Q P V T A L I D G S S K D F V K Y T G G I F K G P C H S T T G |
| UniRef90_A0A026W1D4 UniRef90_D7KDQ4 | KELLKTLAILHGPVAVAVNAMSWQNYLLGGVIVAGUDGSFESV |
| UniRef90_G4YZQ7 | E A GL I Q A I N Q R P T V V T V A A G N E A W K Q Y T G G V L S S C D T S A L |
| UniRef90_UPI0003F1C4FE | EALMMAVANMGPISAAIDASTFRFYKEGLYYDPKCSSEDL |
| UniRef90_W4FZE0 UniRef90_F0WJS7 | KELLKTLAIHGPVAVAVAVAVAVAVAVAGGGVIYHCDGSFESVERALLEAVRAQPVSVLDAADSFKTYKGGVYAGLDCGTDVEAGLIQAINQRPTVVTVAAGNEAWKQYTGGVLSSCDTSALEALMMAVANMGPISAAIDASTFRFYKEGIYYDPKCSSEDLDAAVLAALQDRTIVVGVAAGNNEWKQYKSGVLNSCSTADLEDAFVRAISAQPIAVGVAAGNREWKQYKSGVLNSCSTADLEDAFVRAISAQPIAVGVAAGNREWKQYKSGVLNSCSTADLEDAFVRAISAQPIAVGVAAGNREWKQYKSGVLSTCSTSELDTLITIANHGPVSICVDASTWQSYTGGIITTGCEQNIDHEAGLIKAINQRPTVVTVAAGNEAWKQYTGGVLSSCDTTDL |
| UniRef90_F1A0W7 | DTLITTIANHGPUSII CVDASTWQSYTGGTTTTGCEQNDDH |
| UniRef90_H3H0S9 UniRef90_P90628 | E A GIL I K A I I N Q R P I I V V T V A A G N E A W K Q Y T G G V L IS S C D T T D L R V M A A WIL A K N G P I S I I A V D A S S F M S V H S C V L T S C T G E O I |
| UniRef90_F4PGM8 | NNLYNHLAVAPISSTFDATSREFQLYKSGLFSSATCNKLA |
| UniRef90_M3Y3D0 | RVMAAWLAKNGPISIAVDASS FMSYHSGVLTSCIGEQL NNLYNHLAVAPISSTFDATSREFQLYKSGIFSSATCNKLA DGLMTAVATVGPVAAAVDSSLYSFQFYKSG AMLEAL KTPLMVAMDASQPSFELYQAGIYSDTKCSPDHL |
| UniRef90_V4AEK4 UniRef90_M3YG39 | A MILIE AT LIK I PILIMIVIA MID A S Q P S P EILIY Q A GILIY S D T K US P D HILI A L M K L E L V H H G P M A V A F Q V Y D D F F H Y R S GILIY Y H F N P F E L IT |
| UniRef90_D8R113 | ADALMKAVSKTPVTVGICGSDQNFQNYRSGILSGQCCNSR |
| UniRef90_UPI00046E241D UniRef90_R1DUE2 | ALMKLELVHHGPMAVAFQVYDDFFHYRSGIYYHFNPFELT ADALMKAVSKTPVTVGICGSDQNFRNYRSGIYHFNPFELT ADALMKAVSKTPVTVGICGSDQNFRNYQSGVFTDCGTKLT YDAVMHALTAGPLAVSVDAGGWHDYEEGVFGGGNHSHPRL EDEMARALLSFGPLVVIVDAMSWQDYLGGIIQHHCSSGEA |
| UniRef90_Q8BM88 | EDEMARAL LISF GPLVVI VDAMS WQDYLGGI IQHHCSSGEA |
| UniRef90_Q96455 | EQLAANLVKNGPLAVAI NAVFMQTYVGGVSCPYLCGKHLD |

| | 170 180 190 200 |) |
|--|---|---|
| UniRef90_J7FXG6 UniRef90_G6CIL7 UniRef90_M0YIS5 UniRef90_A2EZN7 | D H G V L V V G Y G T E D G Q D Y W L V K N G H A V L L V G Y D S V N G E E F W I I K N S W S E R W G E R G Y M R M K M G A T H S M T V V G Y G T N D D H D Y W I I K N S W G P K W G E N G Y I R M A R G A D H A V G L V G Y G T E N K V D Y W I V R N S W G T S W G E K G Y I R M I R N | |
| UniRef90_U4TWX9 UniRef90_D8QY60 UniRef90_D8UJT5 | S V N H A M L L V G Y T K D A WI L K N W W G K H W G E Q G Y M R L R R N Y L A V L I V G Y G S E N G Q D Y W I I K N S A G T S W G E Q G Y M R L Q R G N H T V T L Y G Y G T T A D G K D Y W L V R N S W A K F Y G D D G Y L R I L R | |
| UniRef90_UPI000180D054 UniRef90_W5BBB2 UniRef90_A2GD33 | H A V | |
| UniRef90_S4RTF7 UniRef90_U5EWS0 UniRef90_D8S754 | DHAVLVVGFGVKNGKKFWIVKNRRGLQ <mark>C</mark> G GELYLEVAVDHAVLAVGYGTIDGNDYWLIKNSWSNYWGNDGYALMSNHAVLLVGYGMDGDKPYWILKNSWSENYGEDGYFRLCR | |
| UniRef90_B6RCZ0 UniRef90_UPI00021A6681 UniRef90_C5YCP0 UniRef90_UPI0003C28603 | N H A V Q I I G Y D K S A A I P H Y I I K N S WG T N F G D K G Y M Y I A D H G I A A V G Y G V G D G T K F W L M K N S WG T S WG E A G Y I R M E R D I N H A V L V V G Y G T L N G Q D Y W L V K N | |
| UniRef90_N6UR32 UniRef90_U4TXX0 UniRef90_A3AYH2 | SHAVQIVGYNLTAKVPFYIVRNSWGEDFGDNGYLYVA NHGVLVVGYGSENGVNYWLVKNSWAADWG DHGVVAVGYGTDTGAAYWTVRNSWGPDWGENGYLRMFRNV | |
| UniRef90_UPI000265455C UniRef90_UPI00042C2BDA UniRef90_A2E346 UniRef90_C3TWW7 | HAVLAVGYGT DSSGQDYWLIKNSWSTHWGNNGYVAISM NHAVLITGFDRTGSIPYWIVRNSWGHTWGIDGYAHIK DHAVGCVGYGVEGEKDYWIVRNSWGEVWGEKGYVRMIRNK NHAVLLVGYGVENGVPFWTFKNTWGDDWGEDGYFRVRQNV | |
| UniRef90_M1CC53 UniRef90_B6AJH9 UniRef90_S5U7X9 | M Y S E F T D F N H A V V L V G Y D I Y S G K E Y W L V R N S W G E N W G E N G Y L K I Q A G K N H A V L L V G Y G V E N N I P Y W T I K N T W G E D W G E N G Y F R V R Q N I | |
| UniRef90_H3E1R1 UniRef90_T0SAX9 UniRef90_J9ICC4 | T H A V V I V G Y G T D E K A D Y W I I R N S W G V G W G D G G Y F N I A R D H V L L G V G Y G N D G G V P F F K M K N S W G K W W G E D G Y V R L Q R G V T H A V T I V G W G Q E Q G I Q Y W I V K N S W G S S W G E K G Y I R I A I T N H A V L I V G Y G Q E K X I P Y W I V K N S H G S D W G E E G Y F R I Y R | |
| UniRef90_UPI0003D0FC38 UniRef90_U7E1X9 UniRef90_C1L4J0 UniRef90_A0D7A1 | NHGV I AII GYGI DDGI DYWL VKNSWGI SWGENGYMRMRRGI FESVLL VGYGLEDELPYWLI KFSLGTEFGDQGYI KLARNH NHVVI AVGYDD KAFKI KNSWSTSWGVKGYI FI AR | |
| UniRef90_K4FSW4 UniRef90_D8SAV1 UniRef90_I7MET7 | D H G | |
| UniRef90_F6XWK8 UniRef90_G0QLT6 UniRef90_A0A024T9A5 UniRef90_UPI0003EE05D7 | NHAVLVVGYGNEKGIKHWIIKNSWGDWWGKKGYVLLAR VLAVGY TSEYWIVKNSWNTSWGQQGYINLKRG DHAVIAVGYDASS IKIRNSWSANWGEAGHIRLKRGG DHGVLVVGYGYENNNKFWIVKNSWGPEWGCNGYVKMAKDQ | |
| UniRef90_UPI000333D0AD UniRef90_UPI000333D0AD UniRef90_H9NIE2 | D H G V A I | |
| UniRef90_W2YJA5 UniRef90_UPI000443E6AD UniRef90_I7MEM6 | DHAVLVVGYDD NTFKVRNSWGENWGEAGYVRMARSS DHGVLVVGYG DHEILAVGY TPDYFILKNSWGTDWGLDGYFHVSKD NHSVLVVGYGYKENKKYWILKNSWGARWGEKGYMRFQKDN | |
| UniRef90_F6STH9 UniRef90_F2UGE9 UniRef90_G7Y398 UniRef90_V5GS19 | PDDLDHGFGTSVDGEDYWIIKNSWSTNYGDRGYVRMSR NHAVLSVGFGTEQGIPYWIIKNSWGEQWGEQ | |
| UniRef90_D2J4H8 UniRef90_M4FAU2 UniRef90_UPl00026589F3 | NHAVLLVGYGVHNNIPYWIMKNSWGEEWGEKGYLRVQRNI SYHIVVG YGSSQGKDYWIIRNSWGINWGEGGYMKLQRNV DHVISVVGYGSENGKDFWIVKNSWGTTWGENGFGRVRRGV | |
| UniRef90_UPI0002C3F49A UniRef90_W5MJU5 UniRef90_F4PVN0 UniRef90_UPI000333D9A9 | NHEVSAVGYGNENGQEYWIVKNSWGEEWGDKGFILMA NHAVLLVGYGPKTGEKYWIVKNSWGTGWGEDGYFRIRR APTHAVLVVGYY PTYWVIKNSWGTQWGEQGFFKMARNT DHAVLLVGYGNRSSDLFWAIKNSWGTDWGEEGYYYLHR | |
| UniRef90_Q5ZMK0 UniRef90_A0A024TF17 UniRef90_K7FU31 | N | |
| UniRef90_R7VTC3 UniRef90_Q4RTU4 UniRef90_L1LF68 | N | |
| UniRef90_P36184 UniRef90_Q91GE3 UniRef90_F7FSV5 UniRef90_V7AGY7 | N H C V T A V G Y G S N S N G K Y W I I R N S W G T S W G D A G Y F L L A R D S N H A V L L V G Y G V E N N V P Y W I L K N S W G T D W G E Q G F F K I Q Q N V N H A V L I T G Y D K S G S V P Y W I V R N S W G S S W G V N G Y A H V K M D H G V T A V G Y G V D D G T E Y W L V K N S W G T E W G E E G Y I R M Q R G V | |
| UniRef90_H3GSE9 UniRef90_Q9YMP9 UniRef90_UPI00046DD2A1 | DHAVLAVGYD ATTIKIKNSWGTDWGEDGYVRISRST NHAVLLVGYGVENGVPYWVFKNTWGDDWGENGYFRVRQNV DHGVTAVGYGMDDGTKYWIVKNSWSIKWGFFGYIRMORDV | |
| UniRef90_Q26986 UniRef90_I7M1M9 UniRef90_D8QUC1 | Y H A M G V G Y G V E G S E E Y W I V R N S W G E S W G E Q G Y R Y L | |
| UniRef90_A0A026W1D4 UniRef90_D7KDQ4 UniRef90_G4YZQ7 UniRef90_UPI0003F1C4FE | NHAVQLVGYDLTASIPHYLVKNSWGPTFGDKGYLYLA NHAVTFVGYGTML QSWGENGYMRLRRDV DHLVVAVGYD ATSLKIRNSWGADWGMDGYLKKKRA | |
| UniRef90_F0WJS7 UniRef90_F1A0W7 | N H G V L V V G Y G F Q D N Q K Y W F V K N S W G A D W G M D G Y I K M A K D R D H A V V I V G Y T D S H W K I K N S W G Q E W G D Q G F I Y L R R T G D H A V L A V G Y G E Q S S G K F F K I K N S W G R V W G D N G F M Y L K R N C V Q V D I D K T D P S N P I P Y Y I I R N S W G T S W G D K G Y I Y V A D H L V V A V G Y D A T S L K I R N S W G E R W G E E G Y I H L K R T G | |
| UniRef90_H3H0S9 UniRef90_P90628 UniRef90_F4PGM8 | DHLVVAVGYD ATSLKI RNSWGENWGEEGYI HLKRTGNHGVLLVGYNMTGEVPYWVI KNSWGEDWGEKGYVRVTMGVPSHAVLVIG HGPGYWIIKNSFGVNWGEQGYFKMARNT | |
| UniRef90_M3Y3D0 UniRef90_V4AEK4 UniRef90_M3YG39 UniRef90_D8R113 | SHIMQVVGYGEQNGRKYWI <mark>C</mark> RNSWGKDWGNQGYVWVERNHAVLLVGYGTDSGMDYWIVKNSWGASWGENGYFRIRRGTDHV <u>VL</u> VIGYGTEGGMPYWIIKNSWGTSWGEDGFMKI <u>E</u> KKD | |
| UniRef90_UPl00046E241D UniRef90_R1DUE2 UniRef90_Q8BM88 | H A V T A V G Y G T T E D G T K Y W L K N Q W G E S W G E N G Y M K L R D A D H L V Q L V G Y G T T P G A D Y F L V R N S W T P R W G E G G Y M K V A R S R N H A V L I T G F D R T G N T P Y W M V R N S W G S S W G V E G Y A H V K M | |
| UniRef90_Q96455 | H G V L L V G Y G E R F K N K P Y W L I K N S W G E S W G E D G Y D E I C R | |



| | | 1 10 20 30 4 | 40 |
|-------------------------------------|---------------------------------------|--|----------------|
| UniRef90_ | | A CVD WT T C V C V N C V D D O C L C C C WA F C A V C T A F C A U C I | |
| | _A0A016RU48 _A0A024ULU1 _D2A0S2 | L P D A L D WR S R G V V S E V K N Q G H C G S C WA F S A V G I A E S A H L A L P E S F D WP K C T S I G Y I R D Q S A C G S C WA V S V G A A I G D R V C A S V D WT T G K C V N P V R N Q G Q C G S C WA F S A V S A A E S A H C I V P N K V D WR E K N A V T R I Y N Q G S C G A C WA Y S V I E T V E S M N A I L P V N V D WR Q K G V V T P V K D Q G H C G S C WA F A S T A T I E S Y A A I L P E Y V N WY K E G K V T R P Q D Q R M C G S C WA F S A V S A L E S L A F K | <u> </u> |
| UniRef90_ UniRef90_ | I7MLH7 | L P E Y V N W Y K E G K V T R P Q D Q R M C G S C W A F S S T A T I LE S Y A A I L P E Y V N W Y K E G K V T R P Q D Q R M C G S C W A F S A V S A L E S L A F N | M |
| UniRef90_ UniRef90_ | J3KXN8 | F C C V D W K S S G A V I G V K I Q K S C A S C WA F A A A A I L G L IN K I | |
| UniRef90_ UniRef90_ | W5DNG8 | LA A SID WR K K G A VT S VK N Q G G C G S C WA F S A A G L M E S F N F [| |
| UniRef90_ UniRef90_ UniRef90 | B5X5H2 | S V D W S T T K C M A P I Q S Q G S C G S C W A F A T V S V V E S A Q C I L P A K F D W R V K A A V G S V Q N Q Q A C G G C W A F S V V G A I E S V Y A F E K L D W S Q K G A V T D V K D Q G Q C G S C W T F G T T G V L E G F F F F | K |
| UniRef90_ UniRef90_ | Q5Y7Z9 T1M0S0 | LPDRVDWRDHHAVTSVKNQGHCGACWAFVAAGAVEGITAI | |
| UniRef90_ UniRef90_ UniRef90_ | J3LSX0 | L P D K V D W R D E G A V A P V K D Q G D C G G C W A F S A T G A V E G L N K I P Q G M D W R A M G A V T G V K D Q G S C G C C W A F S A V A A V E G L T K I L P R Y F D W R D H G A V S P V K N Q G G C E A C W A F S A V A C I E S H L K I | i i |
| UniRef90_ UniRef90_ | _A8XIK7 _W4FS67 | LIPES VIDWRNRNG VITGLIKY QGP CGS CWAFATAAALLES AVIS L | |
| UniRef90_ UniRef90_ UniRef90 | E9G0G9 | V D W R P K G Y V T G I K N Q G Q C G S C W S F S A T G S L E G Q W F R P T L D L R Y D S C L P E V K D Q G Q C G S C W A F A A V A P L E F A Q C R P S K V D W V E A G V V S P V R N Q K D C G S C W A M A V A A S V E A V N Y L L P D K F D W P Q C S T I K R I L D Q G H C G S C W A F G A V E S L S D R F C I | K |
| UniRef90_ | | | |
| UniRef90_ UniRef90_ | B8QQJ2 | P A A F D WR Q Q WN T A V R N Q G Q C G S C WA F A T A A T V E A Q Y A I P P H F D WR E K G V V T P V K S Q F N C G S C WA F A A A I G T V E T S Y A I A A Y D WR L H S G V T P V K D Q K N C G S C WA F S S I G S V E S Q Y A I I P A F L D WR E R G Y V T P V K N Q E L C G S S WA F S A T G A L E G Q M F F L P E S F D WR D K K M V T G V K D Q G S V G T C WA F S T V G N I E G Q WA N | |
| UniRef90_ UniRef90_ UniRef90_ | U3KLW0 | A A Y D W R L H S G V T P V K D Q K N C G S C W A F S S I G S V E S Q Y A I I P A F L D W R E R G Y V T P V K N Q E L C G S S W A F S A T G A L E G Q M F F L P E S F D W R D K K M V T G V K D Q G S V G T C W A F S T V G N I E G Q W A M | R |
| UniRef90_ UniRef90_ | UPI0002C3F59D F6HM86 | KNVDWRDAHIVTSVKNQHEFSDCHSCYSFASVSTLESI IPSTMDWRKKRTVTHIKNQLQCGGCWAFSAVAAMEGIAKI DWSTSKCNSPVPNQGQCGSCWAFATIGVVETAHCI VPDRVNWTAEGKVTEVKNQRHCGSCWAFATIGVVETAHCI VPDRVNWTAEGKVTEVKNQRHCGSCWAFAAVAVIESAYAI LPDSWDWRISGAVTSVKNQGGCGSCWFGTIGHIEGAYFF LADSIDWRTKGAVTSVKNQGGCGSCWFFSTAGGWESFNFI LPENVDWREKGAVSEVKEQGLCGSCWFFSTAGAGLEGQNFI PASFDWRDRGAVTDVKMQGTCGSCWAFSTTGAVEGANFL EDLDWRKAEVPTPVKDQGCGCCWAFSVVAATEGVVKKI | - |
| UniRef90_ UniRef90_ UniRef90 | K3YSY4 | D WS T S K C N S P V P N Q G Q C G S C WA F A T I G V V E T A H C I V P D R V N W T A E G K V T E V K N Q R H C G S C WA F A A V A V I E S A Y A I L P D S W D W R I S G A V T P V K D Q S V C G S C W S F G T I G H I E G A Y F F | D |
| UniRef90_ | | LADSID WRTK GAVITSVK NOGOCGSCWTFSAAGLMESFNFI LPENVDWREK GAVISEVK EQGLCGSCWTFSAAGALEGQNFL | |
| UniRef90_ | | PASFDWRDRGAVTDVKMQGTCGSCWAFSTTGAVEGANFL EDLDWRKAEVPTPVKDQGRNCSCWAFSSVGAVEALYKL | - |
| UniRef90_ UniRef90_ UniRef90 | B3L4V5 | L S A T V S W R T K G A V T P I K D Q G Q C G C C W A F S V V A A T E G V V K L Y D W R L H R G V T P V K D Q G D C G S C W A F S T V G V V E S Q Y L I K S I D W R N F D A V T P V K N Q G L C S G A Y S F S A I G V I E S S H F II | Ī |
| UniRef90_ UniRef90_ | B4HCB4 R4WEA6 | I P A Q Y D W R L F G A V T P V K D Q S V C G S C W S F G T L G H L E G A F F L L P G T V D W R E L G F V T P V K N Q G M C G S C W A F S T T G S L E G Q V F S | L |
| UniRef90_ UniRef90_ | | V | |
| | A0A059CNB3 | | Q |
| UniRef90_ UniRef90_ | Q25028 | L P T S L D Y R T H A C L A A V K N Q G Q C G N G W A Y S A L G S L E F A W C P L P E S F D W P K C S S L K H L R D Q A N C G S C W A V S T A S A L S D R I C I | |
| UniRef90_ UniRef90_ UniRef90_ | Q17P70 | ME GI N KI LP KVVD WR D K GVVA PVR S Q G S C G A C WA L S V V D T I T S L S A I P P S V D WR P I A V I A V K N O K D C G S C WA F S A T G A I F G A S A I | ıl |
| UniRef90_ UniRef90_ | W5L707 R1E562 | PPSVDWRPI AVTAVKNQKDCGSCWAFSATGAIEGASAL PARFDWREYKALGPVQDQGLCGGCWAFSVVAALEAVEVI LPEALDWRQKIAPWPVKNQAHCGSCWTFSTVGSMEAHVYL LPDRVDWSAKGFKPKLEEQWQCGACYAFAVAHAVQAQLYI | <u><</u> |
| UniRef90_ UniRef90_ UniRef90 | Q4N068 | ENLOWER DORVIOUS PLANT DOG ON COMMENT OF STREET OF STREE | <u><</u> |
| UniRef90_ UniRef90 | B3S1V6 | ENLDWTRTDTVSPVKDQGDHCSCWAFSSIGSVESLYRI KAVDWRDSNCVSPVKDQGYCGSCWAFATVGVIEALHCL FPKQFDWRNVNYVSPVRNQGACGSCWAFATVGVIEALHCL IPESVDWRNVNVVGPIKNQGHCGSCWTFSIAGLVESHYVL VPPTCDWRKKNLISSIKNQGNCRCCWALAAADNIQTLWRI | 7 |
| UniRef90_ UniRef90_ | Q6GP75 | V P P T C D W R K K N L I S S I K N Q G N C R C C W A T A A A D N I Q T L W R I L P K E A D W R N S K C V T P V R N Q G E C G S C W A F S S V S V L E S R Y C I | |
| UniRef90_ UniRef90_ UniRef90_ | E9G8C8 | L P K E A D WR N S K C V T P V R N Q G E C G S C WA F S S V S V L E S R Y C I T N I N WV T E E K V T D V K N Q G S C G S C W T F S A T G A V E S A L I L P T S L D Y R T N A C L A P V K N Q G S C G S C W A F T A I A P L E F A Q C I L P E Q W D WR N V N F V S P V R N Q E S C G S C Y S F A T M G M L E A R I R II | V |
| UniRef90_ UniRef90_ | UPI000383391D T1KRL8 | EPES WD WRNVN Y VS PVRN QG P Q P E A G P S A S P P C R S R R E R E | |
| UniRef90_ UniRef90_ UniRef90 | F6XVA3 | PDFFDWRARNVVSPVKAQGNCGSCWAFAATATVEAAWAI VPQTCDWQKAGVISSVKNQEMCNCCWAMAAAGNIEALWAI | |
| UniRef90_ UniRef90_ | F7EM02 _A0A024UJT5 | T V D WR T K G A L T A V K N Q G Q C G S C W T F S A A A L M E S F N F I V D WR D S N C I S P V K N Q G Y C G S C WA F A T V G V L E A L H C L A S V D WA T G N C V N P V R N Q G Q C R S C WA F S A V G A A E T A H C L | _ |
| UniRef90_ UniRef90_ | F9WVI7 | A SV D WAT G N C V N P V R N Q G Q C R S C WAF S A V G A A E T A H C I M P E I L D Y R E K G L V H E P K D Q G L C G S C WAF A S V G N V E C M Y A N P A A V D W R K G A V T P V K D Q G S C G S C W S F S A L G N L E G Q W A A V D W R K G A V T P V K D Q G S C G S C W S F S A L G N L E G Q W A A V D W R K G A V T P V K D Q G S C G S C W S F S A L G N L E G Q W A A V D W R K G A V T P V K D Q G S C G S C W S F S A L G N L E G Q W A A V D W R K G A V T P V K D Q G S C G S C W S F S A L G N L E G Q W A A V D W R K G A V T P V K D Q G S C W S F S A L G N L E G Q W A A V D W R K G A V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V K D Q G S C W S F S A L G N L E G V T P V T P V T P V T P V T T P V T T T T | νΙ <u>Δ</u> |
| UniRef90_ UniRef90_ UniRef90_ | T1L7Y8 | WD WR K E G K V N P V R N Q G Q M N S A L P M N V A D A V A S Y S S I S L D WR K K G L V T P V K D Q G Q C G S C Y L F S A V E Q L E T A W L P | K |
| UniRef90_ UniRef90_ | F6X5I7 E3M2T8 | E T C D W R K R G A T S V K N Q G S C G S C W A F A A V G N A E S M W Y L P D F F D W R D R N V V T P V K A Q G Q C G S C W A F A S T A T V E A A Y A I | L |
| UniRef90_ UniRef90_ UniRef90 | H2ZW77 | VPSRFDWRDQGIMTPVKNQGYCDAGYAFAPAAALEAYLK ESWDWRNINYLSPVRNQGHCGSCYSFATMGMLEARIRI LPRTCDWRNKGIISRIKNQENCKCCWAMAA <u>A</u> D <u>N</u> IEALWGI | W |
| UniRef90_ UniRef90_ UniRef90_ | G5A0M9 | VPTSLDWTTKKYMTPIKNQGTCGSCWAFAGVSVVESRYAI LDWRKADGVSKIKNQGECGSCWAFASVSSVESRYKI | |
| UniRef90_ UniRef90_ | Q4UCF4 C4M1N5 | VPTSLDWTTKKYMTPIKNQGTCGSCWAFAGVSVVESRYAI LDWRKADGVSKIKNQGECGSCWAFASVSSVESLYKI PEDLDWRRPDVVTKVKDQGDCSSCWAFASVAAVESIFQL LPEGIDFRKFGKLTYIREQTGCGGCWSFASVCALESRYLI | [] |
| UniRef90_ UniRef90_ | H2MSF6 | I PESI DWREGGAVTSVKRQGACASCWAFATLAAVEGI VQI LPDSFDWPNCPTLKQIRDQGNCGSCWAFGAAEAISDRICI LPESLDYRETGIMTPVKSQGGCGSCYAFAATGALESYIRI | |
| UniRef90_ UniRef90_ | _UPI0002658B6F _K9IXC6 | LPESFDWPQCPTIKEIRDQGSCGSCWAFGAVEALSDRICI | - |

| UniRef90 A0A024TD34 | 50 60 70 STGE L L D L SEQQ V V S C ST L N N G C S G G V P WY G L D F M S S | 80 E |
|--|---|-------------------|
| UniRef90_F0Y9S5 UniRef90_A0A016RU48 | K Q W R A P R L S E Q Q L V D C A G A F D T K G C A G G L P S H A F E Y V K Y Q S N S T K K M D A S D T D L L A C C K N C G F G C Q G Y T I R A W E Y L M N V T R E L L D L S E Q Q V T S C S T N G G S V G C R G G W P F A A I T Y T T Q | ΙE |
| UniRef90_A0A024ULU1 UniRef90_D2A0S2 UniRef90_I7MLH7 | K T N K S E E L S V Q E I I D <mark>C</mark> A G N N K G <mark>C</mark> N G G D I <mark>C</mark> T L S W I K A T N | ١F |
| UniRef90_J9J1M5 UniRef90_J3KXN8 | N S G Q L K T L S T Q Q L V S C V P N P Y Q C G G T G G C N G A A F N Y V Q L S G N S P T L Q E F S V Q Q L V D C D E V N F A C G G G W M Y D A F G Y V K N M T G E L V S L S E Q V M L D C D T G S N G G R G G R S D T A L S L V A S | l N |
| UniRef90_O82048 UniRef90_Q23GZ3 UniRef90_W5DNG8 | Q N K T L I D L S E Q Q L V D C V I N G Y P S R G C D G G W P A N C L D Y A S W L Q P R G C A G G E M H D A F K F I J K | K |
| UniRef90_G4YX65 UniRef90_B5X5H2 | A N G K T S L T K Y S E Q Q L V S C N S Q N W G C G G G A P E Y A L E S V Q Q S G Q P F K Q L S V Q Q V I D C S Y K N Q G C N G G S I T R A L S W L K Q T R | N V |
| UniRef90_A0BPC5 UniRef90_Q5Y7Z9 UniRef90_T1M0S0 | TTGELPNLSEQQLLDCSTFQDFNLGCNGGLPYRALQYVK AFTFIMK KTGKLEDLSPQMLVDCDKANLGCR CGESWRALDFIKK | N |
| UniRef90_M4E0X2 UniRef90_J3LSX0 UniRef90_G6DCA7 | KTGELVSLSEQELMDCDREGDSGNFGCGSAANAFEFITERTGQLVSLSEQELVDCDIRGEDQGCDGGLMDNAFQYIARHLSSEELLSEQFLIDCA PGNLGCNSTSVLKTFGTLVND | N R |
| UniRef90_A8XIK7 UniRef90_W4FS67 | S G G G L T S L S S Q Q L L D C T P V S D K C G G G E P V E A L S Y A Q F H G WM O | |
| UniRef90_Q6IWH1 UniRef90_E9G0G9 UniRef90_N1QXW2 | KTGTLTSLSEQNLVDCSTKQGNHGCEGGLMDLAFTYIKT KDSTRVVLSERQLVDCDRLDSGCNG GMYTDAWTYIKN KTWRSIRLSVQELV DCNIQNYGCNGGDYWYAFRYVKE HFNTNLSLSVNDVLACCGFLCGAGCDGGTPLFAWRYLHH | N A N |
| UniRef90_W9RK15 UniRef90_UPI000388ABD8 | HEROPRNII SIVIO EIVI IDI <mark>C</mark> SII I <mark>C</mark> GAGEK GGGYIVIVIDAET IVI IH | K |
| UniRef90_A1KYY1 UniRef90_B8QQJ2 UniRef90_Q8I6U4 | RKNKI ITI SEQEL VD <mark>C</mark> SEKNYG <mark>C NGGI INNAFEDMI</mark> E | H |
| UniRef90_U3KLW0 UniRef90_V4AP27 | KTGRLVSLSEQNLVDCSWPQGNQGCSGGLMDYAFQYVKDQGHPLSNFSVEQVVDCDDQKADCGVFGGWPFLAYQYLERYKYTVDTLDLSEQQLVDCAKGSLGCKGGGTFALTFNYIK | N Q |
| UniRef90_UPI0002C3F59D UniRef90_F6HM86 UniRef90_W4FQ99 | A T G E L L D L S E Q E L V D C D L F G S N L G C E G G C M D D A F K F L I Q A T G E L L D L S E Q O L V S C S T N G G N N G C N G G N P P E A L G W V O |) Q |
| UniRef90_K3YSY4 UniRef90_W5JV18 UniRef90_Q23H13 | A KRVQPP <u>VL</u> SE <u>QELI</u> D <mark>C</mark> DSYDSG <u>C</u> SSG <u>L</u> SWSAMKWVKK KTQKLVRFSQQALVD <mark>C</mark> SWGYGNNG <mark>C</mark> DGGEDFRAYQWIMQ | ↓ V |
| UniRef90_UPI0001E45400 UniRef90_UPI0003EA7E1A | K T G K II V IN II IS F Q N II ID <mark>C</mark> S D D S Y G N Y G <mark>C</mark> D G G II IM M N A F K Y IV IR F | N S S |
| UniRef90_J4D9B8 UniRef90_M8AS58 UniRef90_B3L4V5 | ATGKLLNLSEQQLVDCDHTCCDSGCGGGLMTNAYTYLMGYKDKTYDLSEQELVNCDQYSSGCNGGLPYTALEYVHKTGKLISLCEQELVDCDVHGEDQGCEGGLMDDAFKFIIKRKNELVSISEQQMVDCSLQNNGCD GGFIPRALEDIIE | IS N M |
| UniRef90_Q54RQ2 UniRef90_B4HCB4 | K N K F I I I I I S F O N I I D C T T D M G N N G C M G G I A I I A F D Y I I K | Ω |
| UniRef90_R4WEA6 UniRef90_B9RGG8 UniRef90_L8H2Y2 | NGGDL VRLSQQALIDCSWPFGNNGCDGGEDFRVYQWMMQRDGKLVGLSEQNLVDCSRSYGNNGCQGGLMDNSFNYIIDKTGKLISLSEQELVDCDTNSEDQGCQGGLMDDAFKFIEQATGQLPILSEQHILDCIPNPDQCGGTGGCAGGTAELVYR | N ! H |
| UniRef90_UPI0002C636C8 UniRef90_A0A059CNB3 | A Y G K GIL ISI I S F Q QIL L D C D K C G N G C N G G I P S Q A F F Y I K Y | 'N |
| UniRef90_G3C8U0 UniRef90_E9HWM3 UniRef90_Q25028 | TTGRNFDLSEQDVVD <mark>C</mark> SYHRMNNG <mark>C</mark> KGGWPTHVYNYYNQ KYGTPVVLSEQQLVDFDTYDYG <mark>C</mark> NGGWYINAWNYLKNV ASNG <u>RKQ</u> VHVSA <u>TDIL</u> S <mark>CC</mark> GNQ <mark>C</mark> GYG <mark>C</mark> GWPIQAFNY <u>FS</u> K |) K A |
| UniRef90_M8A0K8 UniRef90_Q17P70 | TTGS <u>LL</u> S <u>LSEQELIDC</u> DRSYNAG <mark>C</mark> GG G <u>L</u> MTYAYKFVIK KRQQNFSELCLDQVINCAGNGNFGCEGGDTCRLLEWLKE | N E |
| UniRef90_I1MER7 UniRef90_W5L707 UniRef90_R1E562 | A T G K L I S V S E Q E L L D C A Y S F G C G G G W I D K A L D W V I G D G G T L Q D L S V Q Q V I D C S Y I N A G C K G G S T V S T L K W L K Q D H K Y G A M K N L S E Q Q L V D C A G A F H N H G C N G G L P S Q A F E Y I H F K H G L W G E L S P Q Q I V D C S A A D G N E G C D G G S L R G A F R Y A A R | F A |
| UniRef90_J7HLS2 UniRef90_Q4N068 | KHGLWGELSPQQIVDCSAADGNEGCDGGSLRGAFRYAAR YKNKSYFLSEQELVNCDKSSMGCSGGLPITAMEYLHSKG | S |
| UniRef90_A1L2T8 UniRef90_B3S1V6 UniRef90_Q248G1 | Y K N K S Y F L S E Q E L V N C D K S S M G C S G G L P I T A M E Y L H S K G A G N E L S N L S E Q Q L V D C D H L D S G C C G G F P V L A M D Y L S K N S V K R V M S P Q D V V S C S E Y A Q G C A G G F P Y L I A G K Y G E K H G S Y V S Y A E Q D C V S V S A G Y Q S D G C N G G W P E E A L Q Y V I E | D Y |
| UniRef90_Q561Q9 UniRef90_Q6GP75 | KHGSYVSYAEQDCVSVSAGYQSDGCNGGWPEEALQYVIEKTQQFVDVSVQELLDCD RCGNGCNGGFVWDAYITVLNNKKKRVIYFSEQQFVDCDEENDGCCGGMP IDAFVHVAEAGKRSINLSEQQLVDCCTAEYDNAGCNGGNKDQAFRYLE | S |
| UniRef90_I7MCJ5 UniRef90_E9G8C8 UniRef90_I3JC50 | IT N N S D A P T IT S P Q Q V V S C S F Y S Q G C D G G F P Y I T I G K Y T Q D | IVI F |
| UniRef90_UPI000383391D UniRef90_T1KRL8 UniRef90_U6PN18 | LTNNTQKPIFSPQQVVSCSQYSQGCDGGFPYLIAGKYVQGKLVELSEENLIECSWDHHNKGCNGGRMDLSFQYVIDAHGEMRTLSEQTLLDCDLDDNACDGGDEDK AFRYIHR | ! D ! N ! N |
| UniRef90_F6XVA3 UniRef90_W7X7U4 | | I NI |
| UniRef90_F7EM02 UniRef90_A0A024UJT5 UniRef90_W7ACB6 | KNKNLTDFSEQQLCVNSANGYSSNGCNGGWPESCLDYSSNGNELHNLSEQQLVDCDPIDHGCCGGFP INAIDYITQVTKDLLDLSEQQVTSCSTESGSDGCNGGWPFAAMTYVSTEHNKTI LTLSEQEVVDCSKLNFGCDGGHPFYSFIYALE | ! E T |
| UniRef90_F9WVI7 UniRef90_W4Y0Z3 | A GNPLT SLSEQMLVS COTK DKGCGGGFMDNAFYSI VKEN Y DQTYLYALSVDEVVDCCLPDPFEHPHVFDCVHD MELVDCDNADGNSGCHGGLMDKAFRYLAD | H |
| UniRef90_T1L7Y8 UniRef90_Q86KD4 UniRef90_F6X5I7 | AGNKPILLSEQQAVDCD PYDGQCGGGDPYTVYEYFSQ |) V |
| UniRef90_E3M2T8 UniRef90_L8HAS3 | A H GERRNL SEQTL L DC DL VD N A C DGGDED K A FRY L K T GK T VY I SEQD I I DC SYRK F MGGA H NGWP T A T F E Y F N V L T N N T Q T P I F S P Q Q V V S C S Q Y S Q G C E G G F P Y L I A G K Y I Q R G R C S P T L S P F A S E L L D C N R C G D G C Q G G F V W D A F I T V L N C S A S L D H I R S K F P D N M T S S S E G C A G G M P F L T Y T Y L S L A K Y R N V T L D L S E Q E L V D C E T S S K G C E G G F G D T A L K Y I Q N L Q D V D L D L S E Q H L I N C E T R C S G C S G G Y A D L A L D Y V K N D Y N L T V D W A L S E Q Q L L D C C I E N N G C E G G S M E R S F R C M N R | R K |
| UniRef90_H2ZW77 UniRef90_H0XFI4 UniRef90_G5A0M9 | RGRCSPTLSPFASELLDCNRCGDGCQGGFVWDAFITVLNCSASLDHIRSKFPDNMTSSSEGCAGGMPFLTYTYLSLAK | א א ע |
| UniRef90_Q4N071 UniRef90_Q4UCF4 | YRNVTLDLSEQELVDCETSSKGCEGGFGDT ALKYIQN LQDVDLDLSEQHLINCETRCSGCSGGYAD LALDYVKN | K |
| UniRef90_C4M1N5 UniRef90_G8A0A3 UniRef90_H2MSF6 | DYNLTVDWALSEQQLLDCCIENNGCEGGSMERSFRCMNRKNRELVSLSAS GIVKFAYDYIKK QSGGKISLEISAEDLLTCCDECGMGCFGGFPSAAWEFWT STNKNVDLSEQDVVDCSYRKFMGNNMNGHPTAVFDYYKE | . I N N |
| UniRef90_UPI0002658B6F UniRef90_K9IXC6 | STNKNVDLSEQD <u>VVDC</u> SYRKFMGNNMNGHPTA <u>V</u> FDYYKE RSNGLQNVEVSAEDLLT <mark>CC</mark> GFQ <mark>C</mark> GEG <mark>C</mark> NWNFWKKQGLVS | K |

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| UniRef90_UPI0003944956 UniRef90_A0A016S8W8 UniRef90_ABJID7 UniRef90_L8H951 UniRef90_L8H951 UniRef90_L9H9JI81 UniRef90_C5L4S6 UniRef90_C5L4S6 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_UPI0003944956 UniRef90_Q23FQ2 UniRef90_Q23FQ2 UniRef90_Q3FQ2 UniRef90_W2TVZ6 UniRef90_W2TVZ6 UniRef90_B4ESG0 UniRef90_B4ESG0 UniRef90_G3SP65 UniRef90_E3ZYR43 UniRef90_C2ZYR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_SEGSED UP N W R D N G W V T P V R D Q G N C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R F D W P N C P T I G L R D Q G S C G S C W A F G A V E A M S D R I L P S F D W R N T G A L S P V Q N Q G S C G S C W A F S T T G N I E G Q W T S S T T G N I E G Q W T S S T T G N I E A L W T E V K N Q G N C G S C W A F S T T G N I E A L W T E V K N Q G N C G S C W A F G A V E A A N S D R I L D W R N T G A C L S A V R N Q G G C G S C W A F G A V E A A N S D R I L D W R N T G A C L S A V R N Q G G C G S C W A F G A V E A A N S D R I L D W R N T G A C L S A V R N Q G G C G S C W A F G A V E A M S D R I L D W R N T G A C L S A V R N Q G G C G S C W A F G A V E A M S D R I L D W R D T I K T T G W I E A M S D R I L D W R D T I K T T T G W I E A M S D R I L D W R D T I K T T T G W I E A M S D R I L D W R D T T T T T T T T T T T T T T T T T T | AI |
| UniRef90_A0A016S8W8 UniRef90_UPI0003944956 UniRef90_L8H951 UniRef90_L17LT21 UniRef90_H9JI81 UniRef90_C5L4S6 UniRef90_C7EXK1 Un | 'KII |
| UniRef90_L8H951 UniRef90_L8H951 UniRef90_L9H9JI81 UniRef90_C5L4S6 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_CPERB4 UniRef90_Q23FQ2 UniRef90_Q23FQ2 UniRef90_B4ESG0 UniRef90_W2TVZ6 UniRef90_G3SP65 UniRef90_G3SP65 UniRef90_G3SP65 UniRef90_C3SP65 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_T1KZF5 | CI |
| UniRef90_L8H951 HUniRef90_TATZ1 UniRef90_F17TZ1 LPQQFDWRNLGKVTQVKNQGNCGSCWAFTITGLESMQ UniRef90_H9JI81 RTKGVIGPVWRDQGLCGACWAFSTVGTIESMQ UniRef90_C5L486 PQSVNWVKRGVVGPVKDQGECGSCASFATAGALESYY UniRef90_I3YEZ1 FNWADYGAVTPVKDQGECGSCWAFGATESY UniRef90_C7EXK1 IPKTFDWPHCPTIGQIRDQGCGSCWAFGAVEAMSDRL UniRef90_C7EXK1 IPKTFDWPHCPTIGQIRDQGGCGGCWSFATTGGVEGAN UniRef90_C7EXK1 IPKTFDWPHCPTIGQIRDQGGCGGCWSFATTGGVEGAN UniRef90_C7EXK1 IPKTFDWPHCTSTRSILDQGGCGGCWSFATTGGVEGAN UniRef90_C3FQ2 UniRef90_C4R5D1 UniRef90_B4ESG0 IPESFDWPNCPTIGGELROUGH UniRef90_B4ESG0 IPESFDWPNCPTIGGCCWAFGAN UniRef90_B4ESG0 UniRef90_B4ESG0 UniRef90_B4ESG0 UniRef90_B4ESG0 UniRef90_C3SP65 VPATCDWRKMNVIKPVRNQGSCGCYAFGAN UniRef90_C3YR43 UniRef90_C3YR43 UniRef90_T1XEF5 IPESFDWSNCSSISFIR | WK |
| UniRef90_H9JI81 UniRef90_C5L4S6 UniRef90_C5L4S6 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C7EXK1 UniRef90_C0PRB4 UniRef90_C23FQ2 UniRef90_S4R5D1 UniRef90_H3EG63 UniRef90_B4ESG0 UniRef90_B4ESG0 UniRef90_G3SP65 UniRef90_C9SP65 UniRef90_S2YR43 UniRef90_C3SYR43 UniRef90_S2YR43 UniRef90_C3SYR43 UniRef90_C3SYR43 UniRef90_C3YR43 UniRef90_C3XR555 UNA F A A VE A L S D R F P D Q G G G G G C WA F A A VE A L S D R F P C R C Q WA F G A VE A MS D R L Q G G C G G C WA F G A VE A MS D R L Q G G C G G C WA F G A VE A MS D R L Q G G C G G C WA F G A VE A MS D R L Q G G C G G C WA F G A VE A MS D R L Q G G C G G C WA F G A VE A MS D R L Q G G C G G G C WA F G A VE A MS D R L Q G G C G G G C WA F G A VE A MS D R L Q G G C G G G G G G G G G G G G G G G G | WR |
| UniRef90_13YEZ1 UniRef90_17MCX6 UniRef90_17MCX6 UniRef90_Q23FQ2 UniRef90_S4RSD1 UniRef90_W2TVZ6 UniRef90_B4ESG0 UniRef90_G3SP65 UniRef90_G3SP65 UniRef90_S2YR43 UniRef90_S2YR43 UniRef90_S1XEZ1 F N W A D Y G A V T P V K D Q G N C G S C W A F G A V E A M S D R L Q I R D Q S S C G S C W A F G A V E A M S D R L Q I R D Q S C G G C W S F A T T G G V E G A N Q G G C G G C W S F A T T G G V E G A N Q G G C G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T G G V E G A N Q G G G G G C W S F A T T | ΑII |
| UniRef90_C7EXK1 IIPKTFDWPHCPTIGQIRDQSSCGSCWAFGAVEAMSDRL UniRef90_T7MCX6 VDWVAKGAVTPVKDQGGCGGCWSFATTGGVEGAN UniRef90_C0PRB4 IIPSKFDWPHCTSTRSILDQGHCGSCWAFAAVEAN UniRef90_Q23FQ2 VDWPHCTSTRSILDQGHCGSCWAFAAVEAN UniRef90_S4R5D1 IIPBSFDWPNCPTIGELROQGSCGSCWAFGAVEAMSDRE UniRef90_W2TVZ6 IIPBSFDWPNCPTIGELROQGSCGSCWAFGAN UniRef90_B4ESG0 IIPBSFDWRTKGAVTEAN UniRef90_B4ESG0 IIPBSFDWRTKGANVIKKMNVIKKPVRNQGSCGSCWAFSTTGNIEGQW UniRef90_B2YR43 VPATCDWRKKMNVIKKPVRNQGSCGSCWAFGANGVEAN UniRef90_T1KZF5 VPATCDWRKKMNVIKKPVRNQGSCGSCWAFGTVGMMEHVT UniRef90_T1KZF5 VPATCDWRKMNVIKKPVRNQGSCGSCWAFGTVGMMEHVT | A M |
| UniRef90_C0PRB4 UniRef90_Q2FQ2 UniRef90_S4R5D1 UniRef90_H3EG63 UniRef90_W2TVZ6 UniRef90_E9G903 UniRef90_B4ESG0 UniRef90_G3SP65 UniRef90_E1Z3E6 UniRef90_S2YR43 UniRef90_T1KZF5 | CIL |
| UniRef90_Q23FQ2 P D S V D W R N T G A L S P V Q N Q G W C G S C A A F G T A G V L E S F H UniRef90_S4R5D1 UniRef90_H3EG63 L P D S F D W P N C P T I G E L R D Q G S C G S C W A F G A A E A M S D R F I P E S F D W P D C E S I K V V R D Q S S C G S C W A F G A A E A M S D R I P E S F D W P T K G A V T E V K N Q G N C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F S T T G N E G Q W C G S C W A F G A W A V A G N E G A W A V T E V K N Q G S C G S C W A F G A W A V A G N E A M S D R E G A W A F G A W A F G A W E A M S D R E G A W A F G A W A | CI |
| UniRef90_H3EG63 UniRef90_W2TVZ6 UniRef90_E9G903 UniRef90_B4ESG0 UniRef90_G3SP65 UniRef90_E1Z3E6 UniRef90_E1Z3E6 UniRef90_T1XZF5 UNIXEF90_T1XZF5 UNIXEF90_T1XZF | $Y \parallel 1$ |
| UniRef90_W2TVZ6 UniRef90_E9G903 UniRef90_B4ESG0 UniRef90_G3SP65 UniRef90_E1Z3E6 UniRef90_S2YR43 UniRef90_T1KZF5 P E S F D W R T K G A V T E V K N Q G N C G S C W A F S T T G N I E G Q W V R N Q G G C G S C W T F S A T A V V E G K C W A M A V A G N I E A L W R N Q K N C K C C W A M A V A G N I E A L W R N R D W R A E G K L T P V K N Q K N C K C C W A M A V A G N I E A L W R N C S C G S C W A F G T V G M M E H V T R V K N Q G S C G S C W A F G T V G M M E H V T R V K N Q G S C G S C W A F G A V E A M S D R I I P E S F D W S N C S S I S F I R D Q A S C G S C W A F G A V E A M S D R I I R D Q A S C G S C W A F G A V | CI |
| UniRef90_B4ESG0 UniRef90_G3SP65 VPATCDWRKMNVIKPVRNQKNCKCCWAMAVAGNIEALW UniRef90_E1Z3E6 PPKRDWRAEGKLTPVKDQHPCGCCYAFGGMAGVEAAN UniRef90_S2YR43 UniRef90_T1KZF5 VPATCDWRKMNVIKPVRNQKSCGCCYAFGGMAGVEAAN UN QK N C K C C WA M A V A G N I E A L W VPATCDWRKMNVIKPVRNQKSCGCYAFGGMAGVEAAN VPA A F D L R N I G G V T P V K N Q G S C W A F G T V G M M E H V T V K D Q A S C G S C W A F G A V I E A M S D R I L V P E S F D W S N C S S I S F I R D Q A S C G S C W A F G A V I E A M S D R I L | 'FILI |
| UniRef90_E1Z3E6 | WI |
| UniRef90_S2YR43 | GIL |
| UNIKET9U_LTKZF5 P E S F D W S N U S S S F I R D Q A S U G S U W A F G A IV IE A M S D R II | RF |
| UniRef90 I7IA61 P E Q F I W D H K F L G P V L N Q G A C G S C W A F A T A G A V Q S L F | NΙ |
| ÜniRef9O_K4DPT9 | FL |
| UniRef90 B1NHV9 VPENFDAREQGKITYPVRDQASCGSCWAHAASEAI GNRF | SI |
| UniRef90_F7FU83 V P H T C D W R K V G A I S F I R N Q G N C L C C W A M A A A G N I E A L W UniRef90_C3ZQU4 L P K N F D W R N Q D Y V S A V K D Q G N V C S C Y A Q A T A L A L E S R L | |
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| UniRef90_K4B7P3 | I L |
| UniRef90_V6LEE5 | CI |
| UniRef90_F6KMR2 UniRef90_M4D2K6 | |
| UniRef90_H8ZWQ4 | KV |
| UniRef90 Q23FQ7 A S I D W R N I V N N I V N P I V I K D Q G Q C G S C W T F G A A G I V I M E S F N | ΑII |
| UniRef90_B4M3R5 I P E E F D W P D C P T I G E I R D Q G S C G S C W A F G A V E A M S D R V UniRef90_F8UA90 I P E S F D W P N C T S I K H I R D Q A N C G S C W A V S T A S V L S D R I | CI |
| UniRef90 E1A0U9 | ΑII |
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| UniRef90_E5SCE0 | CI |
| UniRef90 V9LBH3 PSIVID WRDTDRIVITSIVIKTOGS <mark>C</mark> GA <mark>C</mark> YAFSAILIGAILIFGOIL | V K |
| UniRef90_F0YN40 VPSEFNAVTKGLVQPIRDQQQCGSCWAFSAAEVLSDRN UniRef90_K2MW74 WPNCPTITEIRDQSSCGSCWAVAAASAMSDRY UniRef90_A999A1 LPTEFDWSHCSTIGDILDQGHCGSCWAFGAVESLTDRF | CT |
| UniRef90_A9S9A1 | CI |
| UniRef90 B5AMR9 PMRWTGATVIGAIVITPIVIKDQGACGSSWAFSAIVIGNILIESQW | F L |
| UniRef90_A1Z075 | CI |
| UniRef90 UPI000022072A PTSFDWPNCKSIIKMIIRDQAYCGSCWAFGAAEIVISDRII | CI |
| UniRef90_A4S007 | A I I H |
| UniRef90_K3YCL9 | K I |
| UNIRET90 MOTN13 ILIPKQFDWPQCSTILIGTILLIDQGHCGSCWAFGAIVIESILISDRF | <mark>č</mark> i |
| UniRef90 UPI0003AF451A PPQWDWRNKGA V TD V KDQGMCGSCWAFS V TGN V EGQW | 'F L |
| UniRef90 F5SC11 | CIL |
| ÜniRef90 E9HWL6 VDYRTĤA CLSPVRDQKQCGŚCWAFŚAIITPLEFAR | CK |
| UniRef90_I1FUZ8 | ALL |
| UniRef90_E1ZAW9 PRS V DWRTSGK V TP V GDQGG <mark>C</mark> GS <mark>C</mark> W I WAATHA V ESR V | LL |
| UniRef90_J9IWQ3 | CI |
| UniRef90 H9GLW9 | CV |
| UniRef90_I1N0E7 L P D E K D W R K E G T V S Q V K D Q G N C G S C W T F S T T G A L E A A Y UniRef90_UPI00035981E9 V P S T C D W R K R N I I S S I K N Q K T C R C C W A T A A D N I E S L W | ' H II - I |
| UniRef90_G7WMI5 | K L C I |
| UniRef90_D8TLP4 | |
| UniRef90_A0A059A0K6 UniRef90_M3ZNK0 | CI |
| UniRef90_UPI000344800A _ L PSRFDWRDKH VV TQ V RNQQT <mark>C</mark> GG <mark>C</mark> WAFS VV GA V ESAY | ΑII |
| UniRef90_A1YLF2 I PKSFDWPHCPSISEIRDQSSCGSCWAFGAVEAMSDRL UniRef90_I1GNN9 L PTEFDWSGCSTIGTILDQGHCGSCWAFGAVECLQDRF | CIL |
| UniRef90_U6IGI8 | |
| UniRef90_U6PBP4 | <u>č</u> i |

| HaiDafoo TAKDDA | 60 70 80 80 C C C C C C C C C C C C C C C C |
|--|---|
| UniRef90_T1KBR4 UniRef90_UPI0001983A67 UniRef90_M7Z1L8 | A S K G Q V E L S T E D V L T C C G D S C G G G C G G G F P E A A WD Y Y I V S H F G M N I S L S V N D L L A C C G F L C G S G C D G G Y P L Y A WR Y F I H H K G G E L V D L S V Q E L V D C S T G V F S S P C G Y G W P K S A L A W I K S K K G K P L E D L S V Q Q V I D C S Y N N Y G C N G G S T F N A L N W L N K M Q V |
| UniRef90_S7MJJ7 UniRef90_W5B7L6 | K Ğ K PLEDLS V Q Q V I D C S Y N N Y G C N G G S T F N A L N WL N K M Q V MD D A F D F I V R N |
| UniRef90_A5K4G8 UniRef90_A0CKI7 | RKKELVSLSEQEMVD <mark>C</mark> SFKNYG <mark>C</mark> D GGNÏPIAFEDLLDL NTGKLP <u>NLSEQQLVD<mark>CS</mark>TFIPDLNQGCGMPS</u> RAL <u>NYVKR</u> N |
| UniRef90_UPI0003B528E0 UniRef90_A0A016S8W8 | Y H N Q P T V D L D L S E Q F V L S C Y D D N G G C E G D W V E T V L N Y A I A A S K G K E Q F T L S A D D L L S C C G M V C G N G C G Y P L Q A W K Y W V K H |
| UniRef90_UPI0003944956 UniRef90_A8JID7 | M |
| UniRef90_L8H951 UniRef90_I7LTZ1 | KYATLPNLSEQHLVDCTGEYGNGG <mark>C</mark> SGGWMHTAYRWLQDK RNKTVELYSEQELLD <mark>C</mark> SSNGIYRNSG <mark>C</mark> GWPHLAFEYSKKN |
| UniRef90_H9JI81 UniRef90_C5L4S6 | KTGTLMPLSVQEVIDCAGLGNSGCAGGDICLLLDWLTITN ATGHTNDSIVPLSEQQILDCYASASCNGGLPSGIFTYVKD |
| UniRef90_I3YEZ1 UniRef90_C7EXK1 | LINNAILINSSEQDTILDCS DAGDCGGGWWAYDYLINT HSNGTETKSUSSUDUVSCCGGYCGEGCGGYPPAAWDEWQA |
| UniRef90_I7MCX6 UniRef90_C0PRB4 | Y K N V L P N L S E Q Q L I D C D T Q N S G C G G G L R D V A L N Y V K A H F Q V N A T L S E N D L V A C C G F R C G S G C N G G F P L S A W R Y F S R R Y N Y L V K F S E Q Q L L D C A R Q A G F D A Y G C T W Q Q E Y F K Y A L K H |
| UniRef90_Q23FQ2 UniRef90_S4R5D1 | RYNYLVKFSEQQLLDCARQAGFDAYGCTWQQEYFKYAIKH |
| UniRef90_H3EG63 UniRef90_W2TVZ6 | H S K G Q V N P H V S A E D L L S C C D E C G M G C D G G Y P S Q A W N F W T S A S N A E I Q V S I S A D D L L S C C K S C G F G C N G G D P Q A W K Y W V K D A K N E L I S L S E Q E L V D C D V V D Q G C N G G L P S Q A Y K E I J R M |
| UniRef90_E9G903 UniRef90_B4ESG0 | A G G T A R D L S E Q Q L V D C S |
| UniRef90_G3SP65 UniRef90_E1Z3E6 | KYSQSVEVSVQELLD CGRCGDGCGGGFVWDAFITVLNNYTGELTTLSEQEIVSCDELDYGCDGGCGDFSNVFEWIIKNSYRAPVDLSEAHAFYVYGRQAGATCGTGWLPEPLADKARD |
| UniRef90_S2YR43 UniRef90_T1KZF5 | ASGGEILIQIVIEILISTCCHILICGEGCSGGEPGMAWEHWIVIHEGIL VII |
| UniRef90_I7IA61 UniRef90_K4DPT9 | VNNSKLVLSPQELVDCTINANGCKGGNP TYAFNYVRDH AGHPLTNLSEQMLVSCDKTDSGCGGGLMNNAFEWLVQENN |
| UniRef90_Q5ZF64 UniRef90_B1NHV9 | Q A F <u>E Y I </u> |
| UniRef90_F7FU83 UniRef90_C3ZQU4 | N F L K F V N V S V Q A E L L D C G R C G D G C H G G Y V W D A F S T V L K N S M T N N T L M T T M S P Q D V V S C S D Y S Q G C K G G F P Y L T S K Y A Q D F |
| UniRef90_UPI0004444F40 UniRef90_K4B7P3 | |
| UniRef90_G0QJ72 UniRef90_V6LEE5 | HYGLNISLSVNDVIACCGFHCGNGCDGGSPLAAWHYFIRKAEKQTINLSEQELIDCSQSYGNEGCNGGLMDYGFQYIIEKKLDQNRVQLSEQYVVSCDPLDDGCFGGYSKVVQYYLIST |
| UniRef90_F6KMR2 UniRef90_M4D2K6 | ECDPEEAGSCDSGCNGGLMNSAFEYTLKT |
| UniRef90_H8ZWQ4 UniRef90_F1QZT5 | A G D P T I S L S E E E L V Q C D K S K D E G C N G G L M E N A Y E W L L T N H S K G K Q S P E L S A E D L L S C C D Q C G F G C S G G F P A E A W D Y W R R |
| UniRef90_Q23FQ7 UniRef90_B4M3R5 | _ T N G V L K S F S F Q Q L V D <mark>C </mark> V H Q A G F N S D G <mark>C</mark> N G G F Q S D G V F Y A L |
| UniRef90_F8UA90 UniRef90_E1A0U9 | HSNATVNFHFSADDLVSCCHTCGFGCNGGFPGAAWSYWTH ASKQKKQVHISSIDFVSCCDSCGFGCEGWPIDAFEYYSYQ ENNMTSPPLLSTQQITSCSSNPYSCGGSGGCKAYMYTQLY |
| UniRef90_T1EVY9 UniRef90_M8CGV0 | K T G E L V E L G E Q N L V D C S F N Y D N N G C N G G L M D N A F K Y I K A N E H G D L I P L S P Q Q L V D C D G S N R H C G G G T P A K A F Q T I Q L G |
| UniRef90_B6TX75 UniRef90_O23681 | M D N A F V F M L K N K Y N L N V S L S <u>A</u> N D V I A <mark>C C G L L C</mark> G F G C N G G F P M G A W L Y F K Y H |
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| UniRef90_A1YLF2 UniRef90_I1GNN9 | HUN MUSES VNDL LACC GF LC G G C N G G Y P I S A WR Y F R R K |
| UniRef90_U6IGI8 UniRef90_B7PF28 | H L N M N I S L S V N D L L A C C G F L C G S G C N G G Y P I S A WR Y F R R K H N E G M V H L S A D D L L S C C S E C G M G C N G G F P T I A WE F WK K K P H S G A K N I V H L A A D D V L S C C W G C G S G C N G G F P G A A W S Y W V E G T N G R V Q L S D T D I L S C C G M F C G D G C D G G Y A I R A W G Y A K D S |
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| UNRABIO MOSTER A | UniRef90_T1KBR4 UniRef90_UPI0001983A67 UniRef90_M7Z1L8 | K QII MK E I MT N G P V S S S F S G Y S D F L T Y K S G V Y Q R H S E D F I G Y QII MA E V Y K N G P V E V A F T V Y E D F A H Y E S G V Y R Y T T G D V M G |
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| Unicegio 223-027 Unicegio 233-033 E A I I A K I I I I I I I I I I I I I I I | UniRef90_I3YEZ1 UniRef90_C7EXK1 UniRef90_I7MCX6 UniRef90_C0PRB4 | MAI MKEI MI NGPVEAAFEVYEDFFGYKQGVYFHSTGEFIG LVTAI QKAPVTVGIDASNLQFYTGGIFSKCATNINHG |
| Dinkelso G39F85 | UniRef90_Q23FQ2 UniRef90_S4R5D1 UniRef90_H3EG63 UniRef90_W2TVZ6 | SQIKQEIFDNGPVEAAFTVYADFPQYKSGVYQHVAGEELG EALQKEIMTHGPVEVAFEVYEDFLNYAGGVYVHEGGKLGG |
| UNIRGEO C320U4 UNIRGEO C480TO C | UniRef90_E9G903 UniRef90_B4ESG0 UniRef90_G3SP65 UniRef90_E1Z3E6 | D K M K T V L A S G R I L I S I Y M Q L P S S F F N Y K S G V F Y D T T C V A N Y E A E M Q V A V A G Q P I G V A I E V G G G M Q F Y R S G V Y S G P C G T A L A Q I I A G Y L A T Q G P I T V T I N M K L L Q H Y Q K G V I R A K S N D C D P H E T A L M Q S V S H T P V C C G D Y L D Q W H L Y K S G V M G D S V Q C T K P L |
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| UniRef90 MBZ/NO4 | UniRef90_K4B7P3 UniRef90_G0QJ72 UniRef90_V6LEE5 | E DIL ME A V A T M G P I S V A I D A S H D F Q F Y Q S G V Y Y E E N C S T E W Y S I M T E V Y K N G P V E V A L N V Y E D F A H Y K S G V Y K H V T G E Y I G C N E L K T A L T K Q P V S I A V D A E Q W Q F Y S K G V L K E C G N Q L S E R M K T A V R K G I V Q T A F T V Y S D F M Y Y D S G I Y Q H V S G N E E G |
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| UNIRE190 - FOYNHOU UNIRE190 - FO | UniRef90_M8CGV0 UniRef90_B6TX75 UniRef90_O23681 | E KLEEV LATVIGP V SVAII DSSH KSFMFYKS DACCKILQLT E MALMWAVFKRP V T V G V DANSTAFILQY R G G L F D G P C N T T L E R A L Q K A V A H Q P V S A S I L E A S R R A F Q L Y S S G I F D G R C G T Y L Q D I MA E V Y K N G P V E V A F T V Y E D F A H Y K S G V Y K Y I T G T K I G |
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| UniRef90_A0A059A0K6 | UniRef90_J9IWQ3 UniRef90_Q16920 UniRef90_H9GLW9 | LMMMKELRARGPI VSDLNVPLSFSYYTSGI FDYHIEWQYL QKIMEEI YLNGPVQAAFMTYQDLHAYKSGVYRHVWGHAG KELMAELYKNGPVEGAEVVYSDELMYKSGVYRHVSGEEVVG |
| UniRef90_A0A059A0K6 | UniRef90_UPI00035981E9 UniRef90_G7WMI5 UniRef90_T0QLE6 | Q A I A G Y L A A H G P I T V T I N M K L L Q S Y R K G V I K A T P T T C D P Q D R I Q Q E V L F G G P V S S K M A V Y E D F Y L Y D D D I Y E H A A G A L V G F S A I T T A I V T O P V T V A V Y A G N D A W O Y Y O G G V V S S C P S G O S |
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| UniRef90_I1GNN9 | UniRef90_A1YLF2 UniRef90_I1GNN9 UniRef90_U6IGI8 UniRef90_B7PF28 UniRef90_U6PBP4 | H D |

| UniRef90_T1KBR4 | 170 180 190 G H A I R I L G W G T E N G V D Y W L V A N S W N T D W G E N G Y F K I F | 200 R R |
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| UniRef90_W5B7L6 UniRef90_A5K4G8 UniRef90_A0CKI7 | D H A V L A V G Y G T D G G K D Y W L V R N S W G P G W G E S G Y I R M E H A V I L V G Y G M K N E K R Y Y F W L K N S W G E K W G E K G Y M K I G G D V N H A V L A V G F T S E A L I V K N S W N T V W G V D G Y I Y L G | R N V D T D E |
| UniRef90_UPI0003B528E0 UniRef90_A0A016S8W8 | G H A | ₹ □R |
| UniRef90_UPI0003944956 UniRef90_A8JID7 UniRef90_L8H951 | S H A ML T V G Y G A E D G L D Y W L V K N S W G S E W G N K G Y I K M T H V V L L V G Y G T T A Q G V D Y W L I K N S W S K Y W G M D G Y A R I T T H A V L L V G Y G T E N G K D F W I L K N S W G S G W G E G G Y F R L A | RNK R R |
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| UniRef90_I7MCX6 UniRef90_C0PRB4 UniRef90_Q23FQ2 | G H V K L I G W G T T D D G L D Y W L I A N S W N T A W G E G G Y F K I A N H A V I A V G Y D V Q G N Y I I K N S W G P Y W G D E G Y I T I I S | ≀RG <u>V</u> |
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| UniRef90_G0QJ72 UniRef90_V6LEE5 | D | D G R |
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| UniRef90_F8UA90 UniRef90_E1A0U9 UniRef90_T1EVY9 | SHAIKIIGWGTEKNVPYWIIANSWHNDWGEKGFFRMWHAIQMIGYGTDPVDGPYWLVRNSWGNTWGINGVAKLKKVHLHSLKYNNNVSK ——FDSWATSWGDKSYVYMS | ′∐R CRYT |
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| UniRef90_M0TN13 UniRef90_P43510 UniRef90_UPI0003AF451A | GHAVKLIGWGTSDGEDYWLLANQWNRSWGDDGYFKIL GHAVKLIGWGIDDGIPYWTVANSWNTDWGEDGFFRIL | R R GV |
| UniRef90_E5SC11 UniRef90_S9WRT2 | GHAIRIIGWGEENGLPYWLIANSWNTTFGEKGFFRIE | _ K T <u>D</u> |
| UniRef90_E9HWL6 UniRef90_I1FUZ8 UniRef90_O61109 | N H A V V I V G Y G A A N A T N Y WI V R N S W G T G W G Q A G Y V F I C D H G N L S C W L A M E L R K D Y W R I N T G W G I K W G M D G Y F K M I | _R |
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| UniRef90_G7WMI5 UniRef90_T0QLE6 | HVDHTCKPRKPRRSVPYWILKNSWGAKWGEKGYFRLY SQWVDILGWGTNNSTDYWICKNSWGAAWGDSGWFRIK DHAVIAVGYGS | X M G D Q R N V |
| UniRef90_D8TLP4 UniRef90_A0A059A0K6 UniRef90_M3ZNK0 | S M D H A I L L V G Y P E G V D Y W L I K N S W S K Y W G M D G R W V A M V G Y E T S K D G T K Y G L V N N S W G A Y W G E E G Y I R M C G H A I K I L G W G E E N G T P Y W L A A N S W N N D W G D K G F F K I K | (R |
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| UNIKEI9U_U0FBF4 | A HAIVING I GWGWENG I K I WI II ANS WNI DWGENG I FRILL | |

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| UniRef90_H5XM93 UniRef90_H2VNC8 UniRef90_C5LCD2 UniRef90_Q24FN2 UniRef90_M7T5D0 UniRef90_A0A016TAP0 | L P R A F D L R D V D Y V T A V K D Q G D C G I P D S F D W P T C T S I S T I R D Q S S C G P P S I D W E A A G A L A P V R D S K N C G S L D W R Q S G A V S P V K N Q G S C G L P S Y F S W R D R D F V T P I R N Q V P Y S V P D S F D W P E C E S V G F V R D Q S S C G | ACYAII VIASII VIMESREKII I |
| UniRef90_T1K0I9 UniRef90_E9H8N1 UniRef90_UPI0002C35A6A UniRef90_B7P3P0 | LPALLDYRTHKCMAPIRNQAACG | S C W S F A S I N S L E F S A C N C W A V A S V A A V E S A T R I S C W A F G A A F A M S D R V C I |
| UniRef90_P25792 UniRef90_A5X496 UniRef90_M8A614 UniRef90_J9J9T6 UniRef90_H2YU38 | V P E S I D W R E F G Y V T E V K D Q G D C G L P K E F D W S G C T T I G K I L D Q G H C G P E K V D W R E A G K V S V P G D Q S S C G O G A C G | SCWSFGAVEAMSDRSCI SCWAFSTTGAVEGQYMK ACWAFGAVECLQDRFCI SCWAFSTTGNVEGOWEL |
| UniRef90_C1L6J5 UniRef90_T1PA26 UniRef90_E3VXB8 UniRef90_H0XDZ5 UniRef90_U6PQY2 UniRef90_B0W0V3 | | S C Y A F A S A A A L E A R I R L S C WA F G A V E A M S D R Q C I S C WA F G A V E S I S D R I C I S C WA F G A V E S I S D R I C I S C WA F G A V E A M S D R I C I S C WA F G A V E A M S D R I C I |
| UniRef90_M7YPC6 UniRef90_M9MTE1 UniRef90_G3MNT5 UniRef90_A8NND7 UniRef90_G3H0L9 UniRef90_S9WG30 | P C C V D W R S S G A V T G V K N Q D N L D W R R A K A V S Y A K D Q G N C T L P E S F D W S H C N S I H V I R D Q S T C G I P A S R D Y T K E II A A L P V R R Q G R C G L P E N F D W S N C P T I K Q I R D Q G S C G L P H R V D Y R R H P I L T S I K N Q G N C G | S G W A F A A T G A V E A L Y K I S C W A F G A T E A M S D R V C I A C F I F S A L G A L E M Y V A L S C W A F G A V G A M S D R L C I S C W A H S A V E A I E S H W A I |
| UniRef90_UPI0002657C83 UniRef90_A2EED5 UniRef90_B0W2J0 UniRef90_B0W0V4 UniRef90_E9ALZ5 | PASIDWRDSKUIIIPKNQGUAN LPESFSWRNVPYVLEPHDQAVCG | S C WA F A T T GL L E Y H Y C M T C F A F G A S E A I N G Q F S L S C Y A V S T A A V I T D R Y C I S C WA F G A V E A M S D R V C I S C WA I A A V E A M S D R Y C T G C WA Y S T V Q V I A D S K A I |
| UniRef90_K8ENN7 UniRef90_U3MVW7 UniRef90_I6QM91 UniRef90_Q171L8 UniRef90_V8P426 UniRef90_Q650W8 | I P E N F D W S Q C D S I R T I R D Q S H C G L P K S F D W P Q C S S L N E I R T Q G C C G | SCWAFSIIV VIAIVIEGII IN OIL |
| UniRef90_UPI00046C1444 UniRef90_U6P8H4 UniRef90_T1E251 UniRef90_U6P5T3 UniRef90_C1L8H1 | L P L S C D W R K A G A V T A V K D Q G K K C I P E N Y D W P N C S S L F T I R D Q A N C G I P E F F D W P F C K S L F S I R N Q G L C G I P E N F D W K N C S S I T Y I R D Q S N C G L P K E F D W V N R S P V T P V R N Q K T C G | R S W A F A A V A N E S L W N |
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| UniRef90_BOWOV3 UniRef90_MYYPC6 UniRef90_M9MTE1 UniRef90_G3MNT5 UniRef90_G3HNL5 UniRef90_G3HOL9 UniRef90_S9WG30 UniRef90_S9WG30 UniRef90_BOW2J0 UniRef90_BOW2J0 UniRef90_BOW2J0 UniRef90_BOWUJ0 UniRef90_BOWUJ0 UniRef90_BOWOV4 UniRef90_E9ALZ5 UniRef90_K8ENN7 UniRef90_U3MVW7 UniRef90_I6QM91 UniRef90_U71L8 UniRef90_Q650W8 UniRef90_Q650W8 UniRef90_U6P8H4 UniRef90_U6P8H4 UniRef90_U6P8H4 UniRef90_U6P8T3 UniRef90_U6P5T3 UniRef90_U6P5T3 UniRef90_U6F5T3 UniRef90_U5FTB5 UniRef90_U5FTB5 UniRef90_O76852 UniRef90_H3EJ13 UniRef90_A8XTS1 UniRef90_A8XTS1 UniRef90_A0A1H8 UniRef90_MYTFZ8 UniRef90_W7TFZ8 UniRef90_W7TFZ8 UniRef90_W7TFZ8 UniRef90_W7TFZ8 UniRef90_Q70EX1 UniRef90_P43157 | H K N T T L T L S A Q E L N C D F K S K G C E G G N V A N A L D Y M T T G H S K G K V Q V N L S A E D L L T C C D S C G A G C N G G Y P A A A W E F Y K T R T K K A P L E L S V Q D V M D C S G V S K C K G L G G N G P A V F R W L A K N H T N G H V N V E V S A E D L L T C C G S Q C G D G C G Y P S G A W N F W K K A T G N L H V L S Q Q Q L T S C T P N P N H C G G T G G C S G S A F A Y L H D A Q H R T L K S F S E K Y L V N C A G N R N C K A G D G C G Y P S G A W N F W L K K A T G N L H V L S Q Q Q L T S C T P N P N H C G G T G G C S G S A F A Y L H D A Q H R T L K S F S E K Y L V N C A G N R N C K A G D G C G Y P S G A W N F W L K K A S G G E R Q F Y F G S T G Y L S C C T D C Y K C D G G G Y V H K T F D Y W V K Y H S K G K K A L D H V L A T T R A N R S L L T S V Q Q L V D C T W G T L N Y A C D G G E H D E L Y R L L E S K H S G G E R Q F Y F G S T G Y L S C C T D C Y K C D G G G Y V H K T F D Y W V K Y Y H S K G K K V L F R V S A E D L L T C C T N C G H G C D G G A P G A G W K H W L E M S G L P D R R I S T T N L L S C C F L C G F G C Y G G L P A M A W L W W V W V N T G T R P D L S P Y H L L S C D T L D S G C H T G N M A T A Y A W L G V Q R D K T N E L V S L S E Q E L V D C D T S Q N Q G C N G G L M D K A F E F L K K K H S D G K L N V G L S A T D L L S C C G T T C G R G C G Y P L E A W R Y F M L H H S K G K K Q F T F S C C Y E C G G G C T G G G L P G P Q A F E W L M K H H S K G K K Q F T F S C C Y E C G G G C T G G G D G Q Q Q Y L V K N G L T L H K A T K K Q V Y L S A S D L V T C C T T Q C G S G C N G G W P D A A Q S Y K A W Y F V L D A Q S K G R V Y L S L S Q Q L L D C S L C G A G C K G G Y Y W D A A F T T V L L K K A T K K Q V Y L S A S D L V T C C T T C C G S G C N G G W D H K A W Y Y Y V K K G L T T D C G R G C G G G C N G G G T D A W R Y F V L D C S L C G A G C K G G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G G C N G C |
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| UniRef90_E1F0Q7 UniRef90_Q2NG83 | NEYKKAII MKYGAIVIY I DII IY WII IGSNIVID NI HNSYYCHEKPEYI |
| UniRef90_F6Y799 UniRef90_C7BWY6 | TAMASHVAHKGTLTÜTLNKAPLKHYQKGLVDRSN <mark>C</mark> DPNYV DHIRAELYKNGPVEGAFTVYADLLAYKSGVYKHIQGDALG |
| UniRef90_G3SZW4 UniRef90_V3ZG58 | QEI MAEI YKNGPVEGAFSVYTDFLVYKSGVYQHVTGEEVG QDVMAELVNNGPVEAAYTVYADFLNYKSGVYQHTSGAALG |
| UniRef90_M8BJU0 | HDIMAEVYKNGPVEVAFTVYEDFAHYKSGVYKHITGGVMG |
| UniRef90_H2W6S1 UniRef90_UPI0002658F78 | NEMAALLVSKGPLVIAMAADNEYKKYFNVFDMDHAILNLGP |
| UniRef90_S7P1N3 UniRef90_H5XM93 | |
| UniRef90_H2VNC8 UniRef90_C5LCD2 | TEI QKEI LTHGPVEVAFTVYEDFFHYSGGVYVHTAGSNIG EALVMQALTTGPVPAKVYAQAPSFKHYAGGIITVKSCGVA TNLVQYAVNQAPISVLVDATNWSSYSQ GVFNNCGNVTI VAIKNALMTYGPVPTYLFIYDDFFSYRRGIYKHRWGKPLA LSIRKELLTYGPIEVAFLVYMDFFHYKSGIYKHTAGAFAG KQIMKEI MTNGPISSGITVYADFLNYKSGVYQKTTDHSLG |
| UniRef90_Q24FN2 | TNL VQ Y AVN QAPI SVL V DATN WSSYSQ GVFN N CGN VTI |
| UniRef90_M7T5D0 UniRef90_A0A016TAP0 | U A I K N A L MT Y G P V P T Y L F I Y D D F F S Y R R G I Y K H R W G K P L A L S I R K E L L T Y G P I E V A F L V Y M D F F H Y K S G I Y K H T A G A F A G |
| UniRef90_T1K0I9 UniRef90_E9H8N1 | K Q M K E M T N G P S S G T V Y A D F L N Y K S G V Y Q K T T D H S L G C D N K T D H S L G V N D V A C D N K T C D N |
| UniRef90_UPI0002C35A6A UniRef90_B7P3P0 | LVMQSALLQYGPLAVAIATAPSFMSYKSGVYNDVACDNKT ETALEEALCRGPVTAGLAANSLDFVKYSGGIFRGACGVES KOLOTELEKNGPVEADETVYADELSYKSGVYOHOSGDVLG |
| UniRef90_P25792 UniRef90_A5X496 | K Q I Q T E I F K N G P V E A D F T V Y A D F L S Y K S G V Y Q H Q S G D V L G K A I Q K E I M K Y G P V E A S F T V Y E D F L N Y K S G I Y K H I T G E A L G |
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| UniRef90_J9J9T6 UniRef90_H2YU38 | N D R L R K L VS I R P V G V A M H S N P R C L M S Y K N G C K C S D E K N Q V A K L A A W L A K N G P L S L G L N A N M M Q F Y W G G L S H P W F C N P K S L |
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| UniRef90_U6PQY2 | KDI QREI MKSGSVVASFTVYEDFSHYKSGIVKHIG |
| UniRef90_B0W0V3 UniRef90_M7YPC6 | AKLAAWLAKNGPISIGINANMMQFYWGGISHPWFCNPKSLELMRLELVHNGPFPVGFEVYEDFEFYKDGVYHHFNPFELTQDIQKEIMTNGPPVEGAFTVYEDLILYKDGVYQHVHGKELGDQIKYEIMKNGPVEGAFTVYYEDLILYKDGVYQHRHGLPLGWEIMAEIYKNGPVEGAFTVYYEDLILYKSGVYQHRHGLPLGWEIMAEIYKNGPVEGAFTVYYEDFSHYKSGIYKHTAGRARGQQIQKELFTNGPVEGAFTVYYEDFSHYKSGIYKHTAGRARGQQIQKELFTNGPVEGAFTVYEDLLNYKEGVYQHTAGKMLGEAQLAIAVAMQPVTAYIDASGFEFQFYSGGIYRGPCSANVKDILEKSLVISPTVVYMSVHRDFLSYDTGLYDGPCGKSLNTQIKTEIFKNGPVEADFTVYADFVSYKSGVYQRHSDDALGELLKRVLALYGPISVSLYSSSPSFVAYRSVKEIMAEIYKNGPVEGAFTVYFSDFLTYKSGVYKHEAGDIMGELLKRVLALYGPISVSVDATYWQSYAGGIFNGCNYSLNITELLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLRAVAFGPISVSVDATYWQSYAGGIFNGCNYSLNITELLLLRAVAFGPISVSVDATYWQSYAGGIFNGCNDDDIFSDDFCDQAGPRVI |
| UniRef90_M9MTE1 UniRef90_G3MNT5 | K D L E K S L V S P T V V Y M S V H R D F L S Y D T G L Y D G P C G K S L N T Q K T E F K N G P V E A D F T V Y A D F V S Y K S G V Y Q R H S D D A L G |
| UniRef90_A8NND7 UniRef90_G3H0L9 | E |
| UniRef90_S9WG30 UniRef90_UPI0002657C83 | E A L ME A V A Y E G P I S V S V D A T Y W Q S Y A G G [F N G C N Y S L N I T E E L L R A V A F Q G P V A V Y M L T G G N D D D I F S D D F C D Q A G P R V I |
| UniRef90_A2EED5 UniRef90_B0W2J0 | EKLKSÁLFEHGPLÁVGT LADQDGFGTLTDNÍ YDNÁN <mark>C</mark> YVH NAMKAELYQNGPLVTSFDVYGDFFQYRSGVYRHVTGAYKG |
| UniRef90_B0W0V4 | POUDKEL ETNODVEATETVEDDEACYKUCI VOLTCONUAC |
| UniRef90_E9ALZ5 UniRef90_K8ENN7 | RELMVELMNNGPLEVAMQVYADFVAYKSGVYKHVSGDHLG LLALMRAVKQQPIAVGLNVKPLQLYGGGLVQVAD <mark>C</mark> PPTAI |
| UniRef90_U3MVW7 UniRef90_I6QM91 | RELMVELMNNGPLEVAMQVYADFVAYKSGVYKHVSGDHLAG LALMRAVKQQPIAVGLNVKPLQLYGGGLVQVADCPPTAI EGSLLKAVANQPVSVALQASGSDFQFYSEGVFTGDCGTEL KAIQREIMTNGPVQAAFMVYEDFSRYRSGIYVHTAGRREG RKIMEDIFVNGPVQAAFMVYEDIVNYSGGVYRHQSGRLKG |
| UniRef90_Q171L8 UniRef90_V8P426 | |
| UniRef90_Q650W8 UniRef90_UPI00046C1444 | E A A L L L KVY Q Q P I S V A L D A S G W Q F Y Q G G V F T G P C Q T P P P L E E I A A H V A A H P M V I H P L R P P P I H F W L I F V P L Q H Y C S P D W V |
| UniRef90_U6P8H4 | KAILIGRDII IMENGEPIV VIASEKIVIYEDERHYKSGILIYKHILIAGHILIGG |
| UniRef90_T1E251 UniRef90_U6P5T3 | RVIQLELMTNGPVESGFSVYEDLYLYKSGVYRHVLGREVG KALQREMMKNGPVQAAFLTYEDFSFYRRGIYVHSYGRQRG |
| UniRef90_C1L8H1 UniRef90_U5FTB5 | D <u>L M</u> K <u>L E L V K N G P F P V G F E V Y G D F L Q Y K S G V Y S H T D<u>L I N N H</u> H S <u>L M</u> A E <u>V S S N G P V E V A F T V Y</u> E D F A H Y K S <u>G V Y K H L</u> T G D A M G</u> |
| UniRef90_O76852 UniRef90_H3EJ13 | D A A L |
| UniRef90_A8XTS1 UniRef90_A0A1H8 | KYI QYEI YHNGPVEASYRVFEDFYQYKSGVYHHVSGNLVG |
| UniRef90_W7TNV5 | A GL LE AVAR QPVAVGIA GOHPSFLFYAGGIYDDE ACGTVL |
| UniRef90_M4CR25 UniRef90_W7TFZ8 | ENGLLSI VS RRPVAVAI DGS CDAFIQYKGGIYTQS CGS DL |
| UniRef90_UPI0002C3E205 UniRef90_Q70EX1 | KQI QAEI LQNGPVEGAFSVYADFVNYKTGVYQHIKGQFLG |
| UniRef90_P43157 UniRef90_Q5BTH0 | R V I Q E I M T N G P V E S G F S V Y E D L Y L Y K S G V Y R H V L G R E V G K A I Q R E M M K N G P V Q A A F I T Y E D F S F Y R R G I Y V H S Y G R Q R G D L M K L E L V K N G P F P V G F E V Y G D F L Q Y K S G V Y S H T D I N N H H S I M A E V S S N G P V E V A F T V Y E D F A H Y K S G V Y S H T D I N N H H S I M A E V S S N G P V E V A F T V Y E D F A H Y K S G V Y S H T T G D A M G D A A L Q A A L Q V Q P I S I C V D A S K W S S Y S K G I F S N C S A K P S A A E D I M T E I I S N G P V Q A T F V V H E D F F M Y K H G V F Q H T H F T G Q G K Y I Q Y E I Y H N G P V E A S Y R V F E D F Y Q Y K S G V Y H H V S G N L V G E Q I Q A E I S Q N G P V E G A F I V Y E D F V M Y K S G V Y Q H T T G S A L G A G L L E A V A R Q P V A V G I A G Q H P S F L F Y A G G I Y D D E A C G T V L L E L M K A V G T I G P V S V S L G V S S T L Q H Y I S G V F T S D C E V S S V E N G L L S I V S R R P V A V A I D G S C D A F I Q Y K G G I Y T Q S C G S D L D L Q R E V A K T G P V A V A I D G S C D A F I Q Y K G G I Y T Q S C G S D L D L Q R E I L Q N G P V E G A F S V Y A D F V N Y K T G V Y Q H I K G Q F L G K V I Q R D I M M Y G P V E A A F D V Y E D F L N Y K S G I Y R H V T G S I V G D E L Q K A L Y T Y G P I A V T I A M T Q E F L A Y E S G V I P T D C Q D K E A E A L M M Q A V A T G P V A V I L Y S Y A P S F R H Y K S G I Y K H S A G P L R G E Q I Q A E I M T N G P V E A D F T V Y A D F V H Y K S G V Y Q R H T D E A L G A E L Q T E I M N N G P V V A A F A V H E D F S Y K S G V Y Q H V S G N S M G A E L Q T E I M N N G P V T H M D V Y E D F Y S Y K S G V Y Q H V S G N S M G A E L Q T E I M N N G P V V A A F A V H E D F Y S Y K S G V Y Q R H T D E A L G A E L Q T E I M N N G P V V A A F A V H E D F Y S Y K S G V Y Q R H T D E A L G A E L Q T E I M N N G P V V A A F A V H E D F Y S Y K S G V Y Q R H T D E A L G A E L Q T E I M N N G P V V A A F A V H E D F Y S Y K S G V Y Q R H T D E A L G A E L Q T E I M N N G P V V A A F A V H E D F Y S Y K S G V Y Q R H T D E A L G A E L Q T E I M N N G P V V A A F A V H E D F Y S Y K S G |
| UniRef90_C5LX27 UniRef90_U6PGQ0 | E A L M M Q A V A T G P V A V T L Y S Y A P S F R H Y K G G T T T C G V S N P K A L Q T E L K N G P V V A A F A V H E D F S H Y N S G T Y K H S A G P L R G |
| UniRef90_A0A034WXU0 UniRef90_D6WYL5 | EQIQAEI MTNGPVEADFTVYADFVHYKSGVYQRHTDEALG AFI QTFI MNNGPVVTHMDVYFDFYSYKSGVYQHVSGNSMG |
| UniRef90_D3BNZ3 | QAMVNALTNÜĞPVALALQAĞVRSFQMYNGĞLYYDAĞAĞSI |
| UniRef90_D2V1L9 UniRef90_UPI00026596FC | E Q I Q A E I MT N G P V E A D F T V Y A D F Y H Y K S G V Y Q R H T D E A L G A E I Q T E I M N N G P V V T H M D V Y E D F Y S Y K S G V Y Q H V S G N S M G Q A M V N A L T N V G P V A I A L Q A G V R S F Q M Y N G G I Y Y D A G A G S I H Q M M S E I F A R G P I S C G I D A T N K L E A Y T G G I F E E F E I F P M I H R M K V V I G L D G P V T V M L Q Y L P E S F Y E Y D G G I Y D D T K C N P L E K M M A E I Y A N G P I S C G I M A T E R L A N Y T G G I Y A E Y Q D T T Y I D I M E N L Y Y N H I P S A A Y F R V G E K F E W Y N S G V L Q T E D C Y Q M T K L K A R V A Q Q P V G V G M M S N E N L R F Y K M T E E F L Q C S N P E T A V P A I Q R E I M E R G S V V A T F T T Y S D F S R Y K S G V Y K H T A G R A K G T E I A A W L A K N G P I S I A L N A F A M Q F Y R R G V S H P F R C N P W M I T E I Q T E I Y H Y G P V E A S Y K V Y E D F Y H Y K S G V Y H Y T S G K L V G E K M M E D L V A F G P I A V G I E V Y P D F Q Q Y K S G I Y H H Y N P F E L T E A A M K A A L A K S P V S I A I E A D Q M P F Q F Y H E G V F D A S C G T D L E L L K A V A F R G P V V G V F T M Y E D M Y K Y K S G V Y R H T A G R L G K D I M S E I L T N G P V Q A T F L V H G D F F M Y S A G V Y K H I P G Y H S V |
| UniRef90_H2P2F7 UniRef90_E3MEU0 | DIMENLYYNHIPSAAYFRWGEKFEWYNSGVLQTEDCYQMT |
| UniRef90_J9HM54 UniRef90_U6PNS3 | K <u>L K </u> |
| UniRef90_M7C452 UniRef90_P43507 | TEI AAWLAKNGPI SIALNAFAMQFYRRGVSHPFRCNPWMI TEI OTEI YHYGPVEASYKVYFDFYHYKSGVYHYTSGKI VIG |
| UniRef90_UPI0002B8E308 UniRef90_Q9GU76 | EKMMEDLVAFGPIAVGTEVYPDFQQYKSGVYHHYNPFELT |
| UniRef90_UPI0002657DD4 | ELLKAVAR GPVVAYMLTEGANLGTFRPTSEDDLTQQGRF |
| UniRef90_A8XRV5 UniRef90_A0A044RFT9 | SAILQIEI MINGPVVGVFIMYEDMYKYKSGVYRHTAGRLLG KDIMSEILTNGPVQATFLVHGDFFMYSAGVYKHLPGYHSV |
| UniRef90_A2EGT2 UniRef90_UPI000234E8CB | R S V M E A I Y T F G P L G I A I N V I E P M M L Y T N G V I D D E T C Q S D L Y A L E K A V A K Q P V V C L Q S S S G L T A Y K G G I D C P L S S G L A P |
| UniRef90_UPI0003593662 UniRef90_D3B393 | K D I MS E I LT N G P V V G V F T M Y E D M Y K Y K S G V Y K H I P G Y H S V K S V M E A I Y T F G P L G I A I N V I E P M M L Y T N G V I D D E T C Q S D L Y A L E K A V A K Q P V V V C L Q S S G L T A Y K G G I I D C P L S S G I A P E K I M Q E L V S N G P V E G A F D V Y S D F L S Y K S G V Y R H T T G S Y E G A A M E D A I T K V G P I A V A L Q A G V R S F Q M Y S G G V Y P A C G A G Q I K Q A L I D E L Q N G P I T V A M W V D D E F Q S Y S S G V F V C R T P Y R N T T A M A S H V A H K G T L T V T I N K A P L K H Y Q K G I V D T L R S N C D P N |
| UniRef90_F4PRW4 | K Q A L I D E L Q N G P I T V A M W V D D E F Q S Y S S G V F V C R T P Y R N T |
| UniRef90_F6SG46 | I A M A S H V A H K G I L I <u>V</u>]T [_]N K A P |

| UniRef90 F4WS64 | 170 180 190 D H A V L A V G Y G T M N G K G Y W L I K N S W S N Y W G N D G Y [| 200 |
|--|---|---|
| UniRef90_D6C6V5 UniRef90_C0H850 UniRef90_E1F0Q7 UniRef90_Q2NG83 UniRef90_F6Y799 UniRef90_C7BWY6 UniRef90_G3SZW4 UniRef90_V3ZG58 UniRef90_M8BJU0 UniRef90_H2W6S1 UniRef90 UPI0002658F78 | N H A ML V T G Y G S Y N G K D Y WL V K N S W G K Y W G D S G Y L G H A L K V L G W G E E G G T P Y W L A A N S W N T D W G E N G F F G H A V M I V G W G E E N G V P Y W D C A N T Y G T N W G D Q G Y F N H A V C I V G W D D N Y G N G A F I I K N S W G T S S G E N G Y Y D H V V L I V G Y R G G G K L P Q W I L K N S W G T S S G E N G Y Y G H A I K I L G W G V E N D N K Y W L V A N S W N T D W G D N G F F G H A I R I L G W G V E N G T P Y W L A A N S W N T D W G D N G F F G H A V K I L G Y G V E D G T D Y W L V A N S W N S D W G D K G F F G H A V K L I G W G T S D G E D Y W L V A N S W N Y A W G E N G Y F N H A V V L V G Y G N Q K G K D Y W V I K N S W G K E W A V G G Y G N A V V L V G Y G N Q K G K D Y W V I K N S W G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G N C M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S G K E W A V G G Y G M S W S C M S G M S G K D Y W V I K N S W G K E W A V G G Y G M S W S C M S W S G K E W A V G G Y G M S W S C M S C M S M S C M S M S C M S W S C M S C M S M S C M | K L R K K K R Y V S Y D E R L R K L R K R R K L R |
| UniRef90_S7P1N3 UniRef90_H5XM93 UniRef90_H2VNC8 UniRef90_C5LCD2 UniRef90_Q24FN2 UniRef90_M7T5D0 UniRef90_A0A016TAP0 UniRef90_T1K0I9 UniRef90_E9H8N1 UniRef90_UP10002C35A6A UniRef90_B7P3P0 | D H S L V V G Y G F K E N N K Y W V K N S W G E V W G K S G Y V G H | KMAKDR RVAYG RILRGV YIERTG TLAPG RIKYGE KILR KIRR KIRR KIRR KIRR KIRR KIRR KIRR |
| UniRef90_P25792 UniRef90_A5X496 UniRef90_M8A614 UniRef90_J9J9T6 UniRef90_H2YU38 UniRef90_C1L6J5 UniRef90_T1PA26 UniRef90_E3VXB8 UniRef90_B3VXB8 UniRef90_B0W0V3 UniRef90_M7YPC6 UniRef90_M9MTE1 UniRef90_G3MNT5 UniRef90_G3MNT5 UniRef90_G3H0L9 UniRef90_G3H0L9 UniRef90_S9WG30 UniRef90_UPI0002657C83 UniRef90_UPI0002657C83 UniRef90_B0W0V4 UniRef90_B0W0V4 UniRef90_B0W0V4 UniRef90_B0W0V4 UniRef90_E9ALZ5 UniRef90_K8ENN7 UniRef90_K8ENN7 | G H A L R L L G W G V E N K T P Y W L L A N S W N E D W G E N G Y F N H A A K L I G W G T S D G E D Y W L L A N Q W N R G W G E D G Y F N H A V T I V G Y G K V D N V G Y W L V K N S W G P R W G D Q G F F D H G V L I V G Y G T E N G T P Y W L I K N S W G P D W G E Q G Y Y N H A V L L V G Y G V D K G E P Y W K I K N S W G T E W G E K G Y F G H A I R I L G W G V E N G T P Y W L I A N S W N T D W G D N G F F G H A I R I L G W G E E N G V P Y W L V A N S W N T D W G D N G V F R H A V K V I G W G T E N G T E F W H I A N S W N S D W G D N G Y F N H A V T I V G Y G P A E G D K Y W I A K N S W S D W G D N G Y F N H A V T I V G Y G P A E G D K Y W I A K N S W S D W G D N G Y F N H A V T I V G Y G P A E G D K Y W I K N S W S D W G D N G Y F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F A G H A I R I L G W G T E N G V P Y W L V A N S W N E D W G D N G F F G H A V K U V V G Y G F E R N Q H Y W L I R N S W G P R W G E N G F F E H A V R V I G W G V E N G V K Y W L C A N S W N S D W G D N G Y F E H A V R V I U V G W G W E N G T K Y W L A A N S W N S D W G D N G Y F G H A V K L V G W G W E N G T K Y W L A A N S W N S D W G D N G Y F G H A V K L V G W G W D E N G T K Y W L A A N S W N S D W G D N G Y F G H A V K L V G W G W D E N G T K Y W L K N S W T D W G D N G Y F N H A A V I V G W G M D E K K P Y W L I K N S W G D W G E D G Y A D H G V A I V G Y G T T L D G T K Y W L X N S W | R D R R G G D T G T D G G R R L L L L L L L L L L S V R R R R R R R R R R R R R R R R R R |
| UniRef90_I6QM91 UniRef90_Q171L8 UniRef90_Q171L8 UniRef90_Q850W8 UniRef90_UPl00046C1444 UniRef90_U6P8H4 UniRef90_U6P8H4 UniRef90_U6P5T3 UniRef90_U6P5T3 UniRef90_U5FTB5 UniRef90_O76852 UniRef90_O76852 UniRef90_H3EJ13 | G H A V K L I G W G D D D G N K Y W L A A N S W N S D W G E N G Y F G H A V K L I G W G V E D G T K Y W L V A N S W G R V W G D D G F F D H A V L A V G Y G D L Q G E P Y W L I K N S W S T Y W G N D G Y F N H A V K M I G W G K E N G T D Y W L I A N S W G A N W A E S G Y L Y H A V K M I G W G K E R G V P Y W L I A N S Y G R D W G E E G Y Y Y H A V K M I G W G K E R G V P Y W L I A N S Y G R D W G E D G Y F A H A V K V V G W G V E N G T K Y W N V A N S W S T D W G E D G Y F A H A V K V V V G W G V E N G T K Y W N V A N S W G T D W G E E G Y F G H V K L I G W G T S E D G E D Y W L L A N Q W N R G W G D D G Y F D H A V L L V G Y G L D H S T K Y W L C A N S W G T S F G E K G F F G H A V K I I G W G T E N G V D Y W L V A N S W G T S F G E K G F F G H A I K V L G W G E E D G V P Y W L C A N S W N T D W G E N G F F G H A I K V L G W G E E D G V P Y W L C A N S W G Q A W G E D G F V Q N H A L V V V G Y G R D T G V P Y W K C K N S W G Q A W G E D G F V Q N H A L V V G Y G T D D G V E Y W G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A V T I V G Y G T D D G V E Y W G G R N S F G T Q W G D D G Y F N H A | K MVR L MS M D V H K R R G R T L R R G R I L R R K I K A A G R I L R R K I R R G K I R R R G K I R R R G |
| UniRef90_Q70EX1 UniRef90_Q43157 UniRef90_Q5BTH0 UniRef90_C5LX27 UniRef90_U6PGQ0 UniRef90_A0A034WXU0 UniRef90_D3WYL5 UniRef90_D3BNZ3 UniRef90_D2V1L9 UniRef90_UP100026596FC UniRef90_H2P2F7 UniRef90_E3MEU0 UniRef90_J9HM54 UniRef90_J9HM54 UniRef90_U6PNS3 UniRef90_U6PNS3 UniRef90_M7C452 UniRef90_P43507 UniRef90_UP10002B8E308 UniRef90_UP100 | G H A R F G W G V E N N T P Y W L I A N S W N T D W G D S G T F G H A R I G W G V E K R T P Y W L I A N S W N E D W G E K G L F F E S V L L V G Y G L E D E L P Y W L I L N S W G K S W G L K G F A Y H A V K M I G W G K E N G T D Y W L I L N S W G K S W G L K G F A Y H A V K M I G W G K E N G T D Y W L I A N S W N T E W G D K G F F G H A I R L L G W G V E N G V P Y W L A A N S W N T E W G D K G F F G H A V K I I G W G T E K G V P Y W L I A N S W G T G W G E G G L A N H L I S V V G W G E E N G K K Y W I V R N S W G T G W G E G G F A H A V T V V G Y G S E E G K D Y W I I R N S W G T K W G E E G Y A N H V L S V A G W G L G D G T E Y W I V R D S W G E P W G E G G Y A N H V L S V A G W G L G D G T E Y W I V R D S W G E P W G E G G Y C N H G V A I I G Y G K V E K K D Y W I V R N S W A D N W G E G G Y F R H A V K I I G W G T E N G T D Y W I V R N S W A D D W G E K G F F D H A V L L V G Y G T R D R T P F W A I K N S W G T S F G E K G F F N H A V L L V G Y G A D E G E K Y W V K N S W G E S W G E K G F F D H G V L L V G Y G A D E G E K Y W V K N S W G E S W G E K G F F D H G V L L V G Y G A D E G E K Y W V V K N S W G E S W G E K G F F D H G V L L V G Y G G A D E G E K Y W V V K N S W G E S W G E K G F F D H G V L L V G Y G G A D E G E K Y W V V K N S W G E S W G E K G F V D H G V L L V G Y G G A D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G G A D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G G A D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G M G L C L V G Y G M L V K N S W G E S W G E K G F V D H G V L L V G Y G M D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G M D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G M D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G M D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G M D E G E K Y W L V K N S W G E S W G E K G F V D H G V L L V G Y G M G L L V G Y G M L L V G Y G M L L V G Y G M L L V G Y G M L L V G Y G M L L V G Y G M L L V G Y G M L L V G Y G | K L L R R R R R R M V R G R H G R N H G R N H G R M L L R R G T R L A F S G G R M L K R L A F S G G R M L K R L K R L K R L K R L K R L K R L K R L K R L K R R L K R R L K R R L K R R L K R R L K R R L K R R L K R R R R |
| UniRef90_UPI0002657DD4 UniRef90_A8XRV5 UniRef90_A0A044RFT9 UniRef90_A2EGT2 UniRef90_UPI000234E8CB UniRef90_UPI0003593662 UniRef90_D3B393 UniRef90_F4PRW4 UniRef90_F6SG46 | DHAVVVVGYGSNQNGKYWIVKNSWGTNWGQNGYFGHAIKIIGWGTQNGIPYWLIANSWGTKWGENGFFRLLGWGEDYSTGSPMKYWIAANSWGTKWGENGFFRLLGWGEDYSTGSPMKYWIAANSWGTDWGENGTFVHAVLITGWAEIDGKLAWEVKNSWSTYWGWDGYIHAVLIVGYGTDPNGIKYWRFNNSWGQGWGEGGFGGHAIKILGYGTENGQDYWLVANSWNEDWGDKGMYDHGVTIVVGSGEANGMAYYIIRNSWGSGWGEAGNHVVVLLVGYNKNQDYWIVKNQWNTYWGISGYAYVDHVVLLVGYRGKLPQWILKNSWGEAWGENGFF | KI RRGV RI LR YI QMED GRI RRRV SLMR |

| | 210 |
|---|--|
| UniRef90_F4WS64 | Q K D D N <mark>C</mark> G V L L A P T Y |
| UniRef90_D6C6V5 UniRef90_C0H850 | KYNQ <mark>C</mark> G GKDHCG∏ESE |
| UniRef90_E1F0Q7 | GKDH <mark>C</mark> GIESE GSNELKIETWP |
| UniRef90_Q2NG83 UniRef90_F6Y799 | SILNTC KNACGITKYPV |
| UniRef90_C7BWY6 | GENH <mark>C</mark> GIE |
| UniRef90_G3SZW4 | G Q D H <mark>C</mark> G I |
| UniRef90_V3ZG58 UniRef90_M8BJU0 | G T D E <mark>C</mark> G I E S Q G K N E <mark>C</mark> G I E E D V <u>T</u> A A <u>I</u> |
| UniRef90_H2W6S1 | GTNE <mark>C</mark> GIEHAVV |
| UniRef90_UPI0002658F78 UniRef90_S7P1N3 | GKNMCNLTKFGVW N NYCGLATAASYPT |
| UniRef90_H5XM93 | |
| UniRef90_H2VNC8 UniRef90_C5LCD2 | N E C G E S N E P G P C N F L S E |
| UniRef90_Q24FN2 | NTCNVQSSP |
| UniRef90_M7T5D0 | S S I E Q F S I Y I T D V Y P I V Y G S N E C E I E |
| UniRef90_A0A016TAP0 UniRef90_T1K0I9 | G N N E <mark>C</mark> Y I E S D |
| UniRef90_E9H8N1 | NKCSIESYP |
| UniRef90_UPI0002C35A6A UniRef90_B7P3P0 | GEG CEITQNASFPL GKDECGIEDD_ |
| UniRef90_P25792 | GKDECGIEDD DECSLESEV |
| UniRef90_A5X496 | |
| UniRef90_M8A614 UniRef90_J9J9T6 | GMNECGIE LKTGTCQVKSYVQYPILH |
| UniRef90_H2YU38 | G D G S <mark>C</mark> G V N Q M A T S S I |
| UniRef90_C1L6J5 UniRef90_T1PA26 | GTDE <mark>C</mark> GVES GEDHCGIESSIS |
| UniRef90_E3VXB8 | G S D H C GIL IF S F IL IS |
| UniRef90_H0XDZ5 | GQDH <mark>C</mark> GIESEVV _NHCGIEQNVS |
| UniRef90_U6PQY2 UniRef90_B0W0V3 | DHLGI |
| UniRef90_M7YPC6 | S S T G T C G L A T S P F Y P T |
| UniRef90_M9MTE1 UniRef90_G3MNT5 | DKFDK <mark>C</mark> DI LTVGFNP GNDECGI EDD |
| UniRef90_A8NND7 | F MCGIGRESNVPI |
| UniRef90_G3H0L9 UniRef90_S9WG30 | GEDHCGIESE KPEGTCGILTGASYPI |
| UniRef90_UPI0002657C83 | K P E G T C G I L T G A S Y P I A N H C H I S D Y L F V P K Y |
| UniRef90_A2EED5 | GDHDCGITEDVFFPIVH |
| UniRef90_B0W2J0 UniRef90_B0W0V4 | N H V G N |
| UniRef90_E9ALZ5 | GNDECGIESSGV GAYGACGLYSEQNYPL |
| UniRef90_K8ENN7 UniRef90_U3MVW7 | GAYGA <mark>C</mark> GLYSEQNYPL |
| UniRef90_03MVW7 UniRef90_I6QM91 | D H C G I E S A V V G E N H C G I E E N V |
| UniRef90_Q171L8 | G E N H C G I E E N V |
| UniRef90_V8P426 UniRef90_Q650W8 | KENNCGVTSSATYPI GPDGLCGIATHATYPIK |
| UniRef90_UPI00046C1444 | G S N A <mark>C</mark> G I T T F P I T A T V H |
| UniRef90_U6P8H4 UniRef90_T1E251 | G S N H <mark>C</mark> G I E G S N H L G I E S |
| UniRef90_U6P5T3 | N H <mark>C</mark> E F E S Y V V |
| UniRef90_C1L8H1 | G S D E <mark>C</mark> G V E S <u>I A</u> G T N E <mark>C</mark> G I E E A <u>V</u> V |
| UniRef90_U5FTB5 UniRef90_O76852 | N T <mark>C</mark> G L E N Y A I Y A T |
| UniRef90_H3EJ13 | G E N H <mark>C</mark> E I E S F V |
| UniRef90_A8XTS1 UniRef90_A0A1H8 | G T N E <mark>C</mark> Q I |
| UniRef90_W7TNV5 | T G A G V C G L A L A P S I P L |
| UniRef90_M4CR25 UniRef90_W7TFZ8 | GINMCGLTSMP |
| UniRef90_UPI0002C3E205 | T G E <mark>C</mark> G L G Y D S T E P |
| UniRef90_Q70EX1 UniRef90_P43157 | GSDHCGIES D ECSIESDVV |
| UniRef90_P43157 UniRef90_Q5BTH0 | SNMCHLASYAYYPVI |
| UniRef90_C5LX27 | N E P G |
| UniRef90_U6PGQ0 UniRef90_A0A034WXU0 | G S N D <mark>C</mark> G I E E G S D E C G I E D D <u>V V</u> |
| UniRef90_D6WYL5 | GKNHCKLETY |
| UniRef90_D3BNZ3 UniRef90_D2V1L9 | TREYNDADETOCAFAW |
| UniRef90_UPI00026596FC | T R F Y NL A I E T Q C A F A V G K N V C G L T T K V V L P V |
| UniRef90_H2P2F7 UniRef90_E3MEU0 | YKDG |
| UniRef90_E3ME00 UniRef90_J9HM54 | D Y CLIESHP TGTG CQVNRFPTYPV |
| UniRef90_U6PNS3 | T G T G C Q V N R F P T Y P V D C G L E S S V |
| UniRef90_M7C452 UniRef90_P43507 | G S R A <mark>C</mark> G M N T M C S S A V G <u>T</u> N <u>E</u> C Q I E |
| UniRef90_UPI0002B8E308 | DE TATS SLAQQ SFP |
| UniRef90_Q9GU76 | |
| UniRef90_UPI0002657DD4 UniRef90_A8XRV5 | DGGNYCNISDFVFVP NECGIENNVV |
| UniRef90_A0A044RFT9 | G E N H C E I E S F V |
| UniRef90_A2EGT2 UniRef90_UPI000234E8CB | QŤŘŇ <mark>Č</mark> ĠVŤŤĎÁVAAV A |
| UniRef90_UPI0003593662 | • • |
| UniRef90_D3B393 UniRef90_F4PRW4 | D N C Y M M G F D S Y |
| UniRef90_F4PRW4 UniRef90_F6SG46 | KNACGITKYPV |
| | |

| | 1 10 20 30 40 |
|---|--|
| UniRef90_Q4N070 UniRef90_UPI0003940F20 | LD WR KANALT YVK DQGT APSDWAVTVIDSVESLFKI |
| UniRef90_D6WYL4 UniRef90_A0A022Q4U1 | IPQNFDWPQCESIRKIRNQGSCGSCWAFGAVETMSDRLCI |
| UniRef90_Q9U938 UniRef90_L1LAL5 | PEKFDARDAWIIGHVRDQSRCGSCWAVSAASVMSDRLCV ATFTWQDKGYVAPALNQGICGICWGMSSIATLETFMAV |
| UniRef90_A0A016W1Y2 UniRef90_A7SY51 | P F S F D WP N C P S I I P Y I I R D Q S N C I V I G A Y A II I A P A S A F S D R A C I I |
| UniRef90_U1M4H1 UniRef90_A2Q4E7 | CNS CWA FAS VAVI FS THAIL |
| UniRef90_V4UFC7 UniRef90_UPI0003BC631E | LPTAVDWRKRRAVTPVKNQRGCVTGIFYGGCNRIEGIQQI DSIDWNERGAVTPVKDQGSCNCCWTFTAVAAVEGLNKL AVDYRNMGFVTEVKDQGFCGSCWAFSTTGAIEAQLYK LPVSYDLRKTGRTTIAKDQGELNNCWAFSALGSLESNLLR |
| UniRef90_UPI0002885917 UniRef90_G4V5E2 | LPVSYDLRKTGRTTIAKDQGELNNCWAFSALGSLESNLLR |
| UniRef90_E3MBJ0 UniRef90_K3WGZ2 | P D H Y D WR D C I S V N N I R D Q S H C G S C WA V A A A E A I S D R T C I |
| UniRef90_Q11006 | L P D Y F D WK D C P S I NI I H D Q S K C D S G WA V A S A A S I S D R T C I I P D H Y D V R D C I S V N N I R D Q S H C G S C WA V A A A E A I S D R T C I V D WV R M K C V N P P K D Q G Q C S V S G A F S T V G A L E S G Y C A P A S F D W P E C R S I G T I R D Q S S C G S C W A V S S A E A M S D E I C V L P E K F D W P N C T S L K Y T R D Q S N C G S C Y A V S A A S V M S D R A C I |
| UniRef90_A0A016WKC1 UniRef90_UPI00034F99A8 | SCILISCITA FA AIVIGINII IE A Q W GII I |
| UniRef90_Q8WMY5 UniRef90_A0A016WMR2 | CWAFSATGAL EGQMFQ CCTNCGKGCNGGFSLQ |
| UniRef90_F9WFT8 UniRef90_A8IUT0 | LPESFDWPNCPTIREIADQSACRASWAVSTASAISDRYCT PDTVDWRSSGVLPPVTTQGECGSCYAHAPAACLEALAVM |
| UniRef90_UPI00027F9996 UniRef90_E3NB50 | P D T V D WR S S G V L P P V T T Q G E C G S C Y A H A P A A C L E A L A V M L P K S W D WR N V G G V N Y A R N Q H Y C G S C WA H A S T S S M A D R I N I L P E S L D L R T E T V I G D V K D Q G E C S T C W V F A V T A V V E T I L A H L P E N Y D W P N C S S L F T I P D Q A N C G S C W A V S T A A A I S D R L C I L D W R D E G V V G P V K D Q G N C N A S Y A F A A I S A I E S M Y A L L P A S W D W R N V N F V P P V R S Q A S C G S C Y S F A S V G M L E A R I H T |
| UniRef90_U6P4Z7 UniRef90_U4PME4 | L P E N Y D W P N C S S L F T I P D Q A N C G S C W A V S T A A A I S D R L C I L D W R D E G V V G P V K D Q G N C N A S Y A F A A I S A I E S M Y A I |
| UniRef90_M3XE95 UniRef90_Q75JH0 | LPASWDWRNVNFVPPVRSQASCGSCYSFASVGMLEARIHT LPTSVDWKSLGFVTSIKNQGQCGCYSFATCAALESAYLI |
| UniRef90_Q4UDK0 UniRef90_E9PI30 | L P T S V D WK S L G F V T S I K N Q G Q C G G C Y S F A T C A A L E S A Y L I P M S V D L R N H G V M T P V K C Q G E N E L S W P Y S A V A V A E S F V K K V P F S C D W R K V S A I S P I K D Q K N C N C C W A M A A A G N I E T L W R I |
| UniRef90_Q5Y804 UniRef90_Q24865 | |
| UniRef90_G0MFB7 UniRef90_J9IEE3 | VD WR K E G K V T P I R D Q A Q C G S C Y T F G S L A A L E G R L L I L P E H F D S R D K WG I N P V V D Q G D C G S S WA V S T T G I S S D R L A I M P S S Y D V R T V M C E N R I K D Q A Q C G S C WA F A T T N V L E Y R Y C M |
| UniRef90_A8DBQ9 UniRef90_UPI0001E44C6F | MPSSYDVRTVMCENRIKDQAQCGSCWAFATTNVLEYRYCM PAEIDLRQMRTVTPIRMQGGCGSCWAFSGVAATESAYLA CCKTCGFGCFGGEPMAA |
| UniRef90_A2F4G0 | GACAS WAF GT TA A E E SQWAL |
| UniRef90_UPI000350D4E0 UniRef90_H8KUH2 | PAVDWRNRNGVTSVKDQGGCGSCVSFCITSVVESMTSI |
| UniRef90_A7SY48 UniRef90_C5LAI7 | GACAASWAFGTIAAEESQWAI GAVTPVKDQAVCGSCWSFATTGAMEGALFL PAVDWRNRNGVTSVKDQGGCGSCVSFCITSVVESMTSI VPDQLDWRNNGAVNPAKGQGTCGSCWAFATAGAVKAAHFI VPLALDWRNVSGVTSYKNQHYCGSCWAFATAGAVKAAHFI |
| UniRef90_UPI0003C4643C UniRef90_A0A059LMW9 | VP A QLIS WK GT D A D S PVK D Q G A C G S C WT F S T V G A I E A A Y Y R |
| UniRef90_D9SNR7 UniRef90_C5K5J1 | II IP N S F D A R D A F K E C K DIV I IG HIV IC C D G C T K G R P D A A W S F IL I |
| UniRef90_Q3L7L7 UniRef90_E9GQ66 | P A QL DL R DL G H L T S I K N Q G N C G A C WA F A T L C T I E S L L L A D Y R N D P C M P P V R N Q G G C G S C WA Y T A S A V V E F G K C K |
| UniRef90_UPI0003598B93 UniRef90_W2TCY7 | L P S Q F D W P N C T S L G E L R D Q A N C G S C W A F G A V E T M S D R L C I Y K H I |
| UniRef90_G6CWP1 UniRef90_UPI00019B35DA | PRDFDARRNFISPVLDQGWCGSDWAVTIATVASDRFAI |
| UniRef90_UPI0003AB81F1 UniRef90_Q4TD95 | VPFTCDWRKVGALSPLKDQKNCNCCWAMAAAGNIEALWRL APPGALEGOHFR |
| UniRef90_M3ZIG6 UniRef90_J9JJZ8 | LPKSWDWRNVNGISTTRNQHFCGSCWAHGSTSAMADRINI LPSSFDLRKVDKITDPLDQGWCGASWALSTAQVTTDRFVI |
| UniRef90_L0HP22 UniRef90_V9FBI1 | PDHRDYRDKFYLLPPKDQGRCGSCWAFASVANFEFIFAR LPKHLDWCERGFCVPSWNQHLPQYCGSCFAHGAMSSTRRK |
| UniRef90_T1JR13 | W P N C T S I G K I Y D Q R K G Y P S W I Y T A V G T I A D R L C I |
| UniRef90_T0R834 UniRef90_A0A024TR65 | ESIDWSTKKYVTPVKNQGICGSCWAFTAASVLESMTAL FPKSFDWCEQGFCGPSWNQHLPQYCGSCYLHGALSAAQDR |
| UniRef90_X1MSC3 UniRef90_T1DJI4 | PVSYDLRTLGRVTPVKDQGACGSCWAFATYGSLESWILE LPDSFDWPECTSLNEIRDQGCCGSAWAVSAASTMTDRWCI SVDWSD YQTPVRDQGECKSCWVFGSLAALESRYLI |
| UniRef90_Q54J84 UniRef90_UPI00042BC675 | S |
| UniRef90_D3B5M9 UniRef90_B7PEB4 | _ P |
| UniRef90_B6GVK6 UniRef90_H9G4R6 | I P D M F D W P D C K T I G L I E D Q S N C G S C W A F G A T E S M S D R Y C I L P K R W D W R N V N G V S P T R N Q G F C G S C W A H G T T S A L A D R L N L |
| UniRef90_A8HKB0 UniRef90_U6P5S6 | I P E N E D WK D C P S I R Y I R D O T K C G S C WA V S A A S V M S D R I C I |
| UniRef90_D0MWA1 UniRef90_J9FX62 | |
| UniRef90_B1NHW4 UniRef90_O28333 | I PTAYDSRNCKSLTSVLDQKKCGSCWAFATTGSAADALCILPSRFDWRDYTGLSAVRDQGSCGSCWAFATTGSAADALCILPTSWDWRDENMVTTDRNPRACSGCWAFATVHALSDRIKL |
| UniRef90_C5LYL7 UniRef90_A5HC50 | L P T S WD WR D E N MV T T D R N P R A C S G C WA F A T V H A L S D R L K L L P P T C D WR K A G V L S P L R D O R D C O C C WA MA A A G N L E A L WA S |
| UniRef90_G1EN37 | DKEDAREAEVIGHVRDOGD <mark>C</mark> GSCWAEASTEALNDRECU |
| UniRef90_A0A016SEU1 UniRef90_Q28XS2 | LPHFDAREKGMIHEVRDQGDCGSSWAVSTSTISSDRLAILPAAFNAVEKWYISEVPDQGWCGSSWVLSTTSVASDRFAILKGAVTSVKNQGQCGASYAFSAMASLEGAWAL |
| UniRef90_B5TTU4 UniRef90_L1LA25 | VDWREGGYVPDIKNKRQCTSCWMLAAAAMYEALVAR |
| UniRef90_B8F9Y8 UniRef90_A0CK16 | I P S S F D L R D V G F I G P I K D Q G D C G S C Y A F A A A G A A E G V Y N T P P S L D W L K Q V T E V Q Q Q G R C G S C W A F A V Q D V V I S R L A I L P P S L D W E A A G A L A P V R N Q K A C G A C Y A L N A A L V M E S R F K I |
| UniRef90_C5KY95 UniRef90_D9R5B4 | L P P S L D W E A A G A L A P V R N Q K A C G A C Y A L N A A L V M E S R F K L L P A S Y D G R K K G R V P S V K N Q G S L G T C W A F A S L Q A L E A G F L P |
| UniRef90_G2HFM9 UniRef90_A0A024YRF0 | PAAVDWRNRWWITKVKDONPCGSCWAFGATGIVESMTRI |
| UniRef90_D4L9L3 UniRef90_B0KZL4 | F P E S Y D L R D Y G L V T P V R N Q G G Y G T C WA H G L L G S V E T G L L F P K S W D W R N L L A F N S I E Q Q G R C S S C W A F A A A T T V E A A Y A H P D T V D W R Q S A S L P P V T N Q R D C G S C Y A H A P A A C I Q S L A V L |
| UniRef90_A8IUS9 UniRef90_R5JJT0 | PDT VD WRQSAS LPPVT NQRD CGSCYAHAPAACII QS LAVL YDPRS LGYMT PVRD QQS LG CWT FAGNAT LESYLKK |
| J. III (C100_1\000 1 0 | I DI KOLOI MII WIKDQQOLOU WIFAGNAILLOILKK |

Y N K E R V H L S F Q E L L N C D F K S Q K E G N I S S A F D Y V S N WI F F G K A S N A T K K F E F S A Q D L L A C C K E C G H C G G G Y S S R A W Q Y W V T UniRef90_Q4N070
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UniRef90_A2Q4E7
UniRef90_V10003BC631E
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UniRef90_G4V5E2 UniRef90_G4V5E2 UniRef90_E3MBJ0 UniRef90_K3WGZ2 UniRef90_Q11006 UniRef90_A0A016WKC1 UniRef90_Q100034F99A8 UniRef90_A0A016WKC1
UniRef90_UPI00034F99A8
UniRef90_Q8WMY5
UniRef90_A0A016WMR2
UniRef90_F9WFT8
UniRef90_A8IUT0
UniRef90_UPI00027F9996
UniRef90_UFP4Z7
UniRef90_U6P4Z7
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U UniRef90_C3R5J1
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UniRef90_UPI00019B35DA
UniRef90_UPI0003AB81F1
UniRef90_Q4TD95
UniRef90_M37IG6 UniRef90_UPI0003AB81F1
UniRef90_Q4TD95
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UniRef90_V9FBI1
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UniRef90_D0MWA1
UniRef90_D0MWA1 UniRef90_Q28XS2 UniRef90_B5TTU4 UniRef90_L1LA25 UniRef90_B8F9Y8 UniRef90_A0CK16 UniRef90_C5KY95 UniRef90_C5KY95
UniRef90_D9R5B4
UniRef90_G2HFM9
UniRef90_A0A024YRF0
UniRef90_D4L9L3
UniRef90_B0KZL4
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UniRef90_R5JJT0

| UniRef90 Q4N070 | 90 100 110 120 ISSAFGYPYSGV RSRCKNPSNSKKYELGSKIFMTGKD |
|---|---|
| UniRef90_UPI0003940F20 | F L S G S Q D S P S S L F K D E S <mark>C</mark> M Y S P T G K A A K <mark>C</mark> R G Y R E I P E G N E |
| UniRef90_D6WYL4 UniRef90_A0A022Q4U1 | GI VS G G D F N T S Q G C H P P K Y Q K N Y S E D K R Y G A R S Y R I A K N I P N Y K N K P A V R I D G Y Y R V R R N N |
| UniRef90_Q9U938 | GIVICT GGDYRAKGIVICKPYAFHPCGNHFNQIVIYYGIVIYWI IPNDF |
| UniRef90_L1LAL5 | K M <mark>C</mark> T E D E Y P Y T G Q K G A <mark>C</mark> D D K K <mark>C</mark> K T E T L I N E I A F I G Y K G A K |
| UniRef90_A0A016W1Y2 UniRef90_A7SY51 | GIPRWIPPP <mark>C</mark> RTK <mark>C</mark> QPKYRKKSYYEDKLYSHAWYRLPKDE GLATTKSYGHYRGQEGF <mark>C</mark> KTSNLTVGARITSYRRVKRFNP |
| UniRef90_U1M4H1 | RGLLTESQFSYRGVKDGA <mark>C</mark> PPESGKIFVKLTQKIKP NA |
| UniRef90_A2Q4E7 UniRef90 V4UFC7 | G G L A T E A S Y P Y K G V K M M F F L M K <mark>C C</mark> F L K Y K Y A <u>S</u> E <mark>C V</mark> Y P Y Q G R Q <u>D Y</u> Y <mark>C D G W R S</mark> S A S W K Y G A L R G <u>Y</u> Q Y V Q P A T |
| UniRef90_UPI0003BC631E | G L E |
| UniRef90_UPI0002885917 UniRef90 G4V5E2 | K GPVNEKDDPAPSNPNNI VTRNGLKEKKHIQEVLFIPDDN GLVTGDPTG <mark>CL</mark> PYPFPKCDHRSSNSYPKCGYLTYTAPPNE |
| UniRef90_E3MBJ0 | G <u>L V</u> T G G S Y E S Q F G <mark>C</mark> K P Y S <u>L</u> A P <mark>C</mark> G Q T <u>V</u> N G <u>V</u> T W P K <u>C</u> P <u>V</u> S <u>R</u> K V |
| UniRef90_K3WGZ2 | F F G D NI E D A V S L |
| UniRef90_Q11006 UniRef90_A0A016WKC1 | G |
| UniRef90_UPI00034F99A8 | GG L TNEKNYKYTGKKST CKTN L KPEAT QDF V L QRNE |
| UniRef90_Q8WMY5 UniRef90_A0A016WMR2 | S GL D S E E S Y P Y E G M D G T |
| UniRef90_F9WFT8 | G A S S Y C Q P Y P F P Q C E H Q G A Q G N K T P C S N Y K F V T P Q C N G E |
| UniRef90_A8IUT0 UniRef90_UPI00027F9996 | GIASSYCQPYPFPQCEHQGAQGNKTPCSNYKFVTPQCNGENGTCPVATIQRLWTDLNSTALRYSPTGLRIEAWETIPASEGIPDETCNNYQAKDQECDKFNQCGTCNEFKECHALRNSGR |
| UniRef90_E3NB50 | GILIA GA WEYPEYNOOGMCEAASSKRSEPPNKII IEEYDII ISENP |
| UniRef90_U6P4Z7 UniRef90_U4PME4 | GSVSGGHFEAPNCCRPYYFHPCGQHGNDTFYGYYTVDYSV KGIETYTDYPFVGKKNEKCEYDSKKAYLILDDTYDM SDE |
| UniRef90_M3XE95 | F GILLIEEPREPY I G I DSP <mark>C</mark> KPKE <mark>C</mark> EHYSSSEYHYIVIA GEYG |
| UniRef90_Q75JH0 UniRef90_Q4UDK0 | T G MY E T S Y P Y K A V T G S C P N V I Q S P Q P F K W T G Y S N I Q G N K G L F Q S E V I D K S P S K C P A M E G E R F K V P S Y S Y S Y S Y E |
| UniRef90_E9PI30 | S GIL IA S E K D Y P E Q G K R A H R C H P K K Y Q K IV IA WIL IQ D E IL IMIL IQ N N E |
| UniRef90_Q5Y804 UniRef90_Q24865 | GGLMREEDYPYTGTDRAK <mark>C</mark> KFDNTKVAAKVANFSVVSLDE NTSVKESDYPYTGNDST CKTNVKSFAKLTGYTKVPRNN |
| UniRef90_G0MFB7 | LGV VGDHCYPYVSGQSREPGHCQDSTAFKMTPPYKVSSRE MGVNTEQCMPYKSGDGNMTACPSKCKYYCRPGSTQYMRGE |
| UniRef90_J9IEE3 | MGVNTEQCMPYKSGDGNMTACPSKCKYYCRPGSTQYMRGE |
| UniRef90_A8DBQ9 UniRef90_UPI0001E44C6F | N G V V Q E S Y Y R Y V A R E Q S C R R P N A Q R F G S N Y C Q T Y P Q N V N C K H D L Y P T P K C V K K C D K N Y G K S Y K A D K Y Y G Q S V Y N V E S N V |
| UniRef90_A2F4G0 | GT <u>F L</u> DSDYPYTAKRG <mark>C</mark> KFDSMPKAA <u>P MT</u> TYG <u>T</u> T <u>T</u> KYNE |
| UniRef90_UPI000350D4E0 UniRef90_H8KUH2 | G G |
| UniRef90_A7SY48 | G L A T T K S <u>Y</u> G H <u>Y</u> R G Q E G F <mark>C</mark> K <u>T</u> S <u>N L </u> T V G A <u>R L </u> T S Y R R <u>V K R</u> F N <u>P</u> |
| UniRef90_C5LAI7 UniRef90_UPI0003C4643C | G <u>L P</u> D Q E D <u>V</u> G K <mark>C</mark> D A M H R <mark>C</mark> E E <u>C</u> F <u>V</u> S S E WM <u>L C</u> I F G R Y N <u>K</u> V S G <u>V</u> R <u>G L T</u> S E A D Y P Y K G K <u>T</u> E K <u>C</u> K K N D <u>K</u> P S <u>A</u> A Y <u>L</u> Q G F <u>Q T L</u> P E D E |
| UniRef90_A0A059LMW9 | NKGLATEEDYPYRAVNDF <mark>C</mark> KADS <u>VPKVP</u> FTGRM <u>VLVEG</u> GE |
| UniRef90_D9SNR7 UniRef90_C5K5J1 | INEADDPYNPTSITSPTNKSVQKHIQNVDFLPGKTTYLDN EKNYDTPP <mark>C</mark> LDR <mark>C</mark> PNKNYGTPLDKDRHFTA <u>H</u> FSPYQLKGT |
| UniRef90_Q3L7L7 | GTCESSRYPY V AK V QQ <mark>C</mark> KHPPNYK I RDF <mark>C</mark> M I HPENPT IV K |
| UniRef90_E9GQ66 UniRef90_UPI0003598B93 | GGHALESSYPYAGRDGACRFSPTGMTLTSLPVEWVPSKDT VVTGGQYNSSEGCKTYFLPHCDHHTKGRYKPCGEVTGKPE |
| UniRef90_W2TCY7 | CPEGKWPTPKCRRMCQ L KYNM YEDDK YGKATYH PNTE |
| UniRef90_G6CWP1 UniRef90_UPI00019B35DA | H G L V D E E C F P Y K A A T T S C P F R P K A N L I E D G C R P P V R Q A T E Q D S S C H F R K S K G V V K V K K F V D L P A R D E |
| UniRef90_UPI0003AB81F1 | S G L A S E K D Y P F Q G K R A Q G <mark>C H</mark> A K K Y <mark>H K</mark> V A WI Q D F I M L Q N S E |
| UniRef90_Q4TD95 | G G L D S E A S Y P Y L A T D D Q P C H Y D P S N N S A N E T G F V D V P G S E G I P D E T C N N Y Q A V D Q D C K P F N S C G T C T T F G E C N A I Q N S G R |
| UniRef90_M3ZIG6 UniRef90_J9JJZ8 | F GL VT E E C Y P WD G R A T D C C P R S A K T S P L R R V G L M Y R V A T E G G V C L G E E Y P Y K A H D D F F C L N Y R C T F T G T F H Y L G E A K P |
| UniRef90_L0HP22 | GGV <mark>C</mark> LGEEYPYKAHDDFF <mark>C</mark> LN YR <mark>C</mark> TFTGTFHYLGEAKP Y <u>G</u> LPDES <u>C</u> LPYNA <u>T</u> DHTKFHGTNG <u>TCP</u> PHGY <mark>CMNC</mark> MY <u>S</u> GE |
| UniRef90_V9FBI1 UniRef90_T1JR13 | GVFTVESVKESSCLPFSQKCQPNEIKLNRYFAVTNNYVNE |
| UniRef90_T0R834 | GVFTVESVKESSCLPFSQKCQPNEIKLNRYFAVTNNYVNE EPYRMRVKADPNAASSATCTSVDVVSKWSSSSSYLSIQNS YGLPDETCLPYNATDYTKYNGTNGTCPPEGYCMNCMYTGE |
| UniRef90_A0A024TR65 UniRef90_X1MSC3 | GPUNEADDPYRAYEDACIPGUSEKKYLETVLIFIPDSSTDN |
| UniRef90_T1DJI4 | G Q F N S K Q G C H P Y P D T C H G A E E A D T P K C L K K C R Y S L P N D D |
| UniRef90_Q54J84 UniRef90_UPI00042BC675 | GPINEADDPYRAYEDACIPGLSEKKYLETVLFIPDSSTDN GQFNSKQGCHPYPIDTCHGAEEADTPKCLKKCRYSLPNDD GIAFEKDYPYDAIGSDNCTSSSNKFEYSG YDSVENT WIQDFIMLPDNEQKIAWYLATQGPLTVTINMKLLKVGQDL |
| UniRef90_D3B5M9 | GI VDET CQPYQAACTPACKT CNPDGT CVAI QRYTNIT VDE FGVVEESCNPYQGSDGPCKTNTTCPRHYV |
| UniRef90_B7PEB4 UniRef90_B6GVK6 | GLVTGGLYPECVHTCHAGYPTSYEQDLHYGESAYSVRRRV |
| UniRef90_H9G4R6 | GLVTGGLYPECVHTCHAGYPTSYEQDLHYGESAYSVRRRV GLPDETCSNYVAEDQECKEFTQCGTCVIFDKCYVVKNYGR |
| UniRef90_A8HKB0 UniRef90_U6P5S6 | GGVEQEFDYPYKAERQP <mark>C</mark> ALKPHKFAAGVRN <mark>C</mark> YRYVLMNE GVVSGGRYGEKGV <mark>C</mark> MPYVFHP <mark>C</mark> GSHKNQRFYWYYLPQKDE |
| UniRef90_D0MWA1 | GVVSGGRYGEKGVCMPYVFHPCGSHKNQRFYWYYLPQKDE GIPDQTCQAYQAKNLQCDQFALCETCWKYYVSEYGSVSGA |
| UniRef90_J9FX62 UniRef90_B1NHW4 | T GIL IM S D O C M P Y T A O F G C N N A S D S N R K Y O C K K G S F KIVIA O G A |
| UniRef90_O28333 | NGI VSDECIPYEENSSKPCFTSCSKEGVKMEVYKIMKVSEGVPDESCFPYTATNGNCGSKCGDWEDRTEGAVYRGKVSSNGITDETCSPFTICLGSTVCSTCSANGSCEIPKKYDIVSGE |
| UniRef90_C5LYL7 UniRef90_A5HC50 | GILIDE I USPFIII ULIGSTVOST USANGS <mark>C</mark> EII PKKYDI VISGE SGILASETDYPEEGTVRAHROTIAKRYKKVA WILIODEII MILIRDD |
| UniRef90_G1EN37 | S G L A S E T D Y P F E G T W R A H R C L A K R Y K K V A W L Q D F L M L R D D G V V T G G D Y N E L H T G K S C W P Y E L P F C R H H S E G P Y P Y S V E G R |
| UniRef90_A0A016SEU1 UniRef90 Q28XS2 | LGVVDEQCYPYESGDTCPASPSLDSTAYKMTPPYRVASREGVVDESCYPYTQHRDTCKIRHNSRSLKANGCRPSYTLNKEEGVDTEQAYAFVGKQFSATMIKNFRGAQMTGGGQISKGSE |
| UniRef90_B5TTU4 | E GVDTEQAYAFVGKQFSATMIKNFRGAQMTGGGQISKGSE |
| UniRef90_L1LA25 UniRef90_B8F9Y8 | AIVICPEILIRY OF ILIGKPGILICOD LKCOGKPILVIKSIV LKILISEPLAE |
| UniRef90_A0CK16 | EGI VQESDFPYVMEDPGI Y QHAGDAPV VFESWGRVPSGDV GTVYEKDYREYDQKEGQ <mark>C</mark> SKPKGSI GYKQFKSV VGL TKFT |
| UniRef90_C5KY95 | T N D P K E Q <mark>C </mark> |
| UniRef90_D9R5B4 UniRef90_G2HFM9 | |
| UniRef90_A0A024YRF0 | PCTGEGDTPKCSKCEPGYSPTYKQDKHYGYNSYSVSNSE ADPDCWPYSTPPAWRAEYRPSWDRSGRTVRISDYVRLGDV |
| UniRef90_D4L9L3 UniRef90_B0KZL4 | F G P V H E E T L P Y R A Q A A Y H V Q D A Y I N N S Y L D Y H S G K V T R S N G V Y E D K L Y H Y T E T F N E V C Y A D K V A H D K G H P V K Y Y I S N Y G D |
| UniRef90_A8IUS9 | GVYEDKLYHYTETFNEV <mark>C</mark> YADKVAHDKGHPVKYYLSNYGD LLYQEEWAKAVAAAGPDASTCPKSPTGLRIQAWETIPPSE |
| UniRef90_R5JJT0 | MGPKLEADLPYNGRMTTEQGAKKPYNYYRVTDVVNVATDE |

| | 130 140 150 160 |
|--|--|
| UniRef90_Q4N070 UniRef90_UPI0003940F20 | 130 140 150 160 V L N K S L V I S P T V V A M S M H R E F L S Y K G G L Y D G P C A K S L N K A L K R A V A R L G P I S V G L D A S S F Q F Y S R G V Y Y D E S C N A E N L |
| UniRef90_D6WYL4 | EQLQAELMTSGPVQASYVVYDDFYSYQNGVYQHVLGNVSG |
| UniRef90_A0A022Q4U1 UniRef90_Q9U938 | EQIQAEIMTSGPVQASYVVYDDFYSYQNGVYQHVLGNVSGERALMIAVARQPVVALIEASPDFRHYSKGVFAGECGTVQDKEIRLDLMKNGPVQAAFDVYEDFKLYKRGLYKHKEGLQTG |
| UniRef90_L1LAL5 UniRef90_A0A016W1Y2 | DFLQNHGAFSIDVDI KKIRTEIMTNGPVVAEFSLYSDLFYYKGGIYKHVNGEHKG |
| UniRef90_A7SY51 | _ A L K |
| UniRef90_U1M4H1 UniRef90_A2Q4E7 | DALADYVÝNFĞPVSVNLRLTKPLYHYTTĞLFHPECESSND |
| UniRef90_V4UFC7 | E E GLQ E AVS R Q P V S V A I D A T WF N F Y H G G V F T G P C G N T P |
| UniRef90_UPI0003BC631E UniRef90_UPI0002885917 | E G G F M R I V R N G Q N A C G L A S Y S E L K R A V M N Y G A V S S S L Y M D E Y S Y F N L G K N S Y Y D Y T E S S S S D I R K E I M M N G P V E A G L F V H S D F L N Y K S G V Y R H I T G Q L V T |
| UniRef90_G4V5E2 UniRef90_E3MBJ0 | S D |
| UniRef90_K3WGZ2 | EAYVSSAPVITILATT GVPAFQFY GGGVIT GNDT SCASATT |
| UniRef90_Q11006 UniRef90_A0A016WKC1 | RNIRQEIYKNGPVVAAFRVYQDFSYYKKGIYV <mark>H</mark> KWGGQTG T <u>Y</u> IMHEIFTRGPV <u>VA</u> T <u>Y</u> DVYK <u>DF</u> NYYRKGI <u>YI</u> HKDGR <u>P</u> TG |
| UniRef90_UPI00034F99A8 UniRef90_Q8WMY5 | TVICSHVSYKĞTVTVAINQT LLKQYQKĞVIDPHPEKCDN KALLRAVATVGPISAALDAGHMSFQFYKLYYDPDCSSKDL |
| UniRef90_A0A016WMR2 | A A <u> </u> |
| UniRef90_F9WFT8 UniRef90_A8IUT0 | FAILLIQAILIANQPIVVIAILLIHASEDWEDYWGRGIVIYDGN <mark>C</mark> SSDPS |
| UniRef90_UPI00027F9996 UniRef90_E3NB50 | EKMMTEI YANGPI S <mark>CGI MATERLANYTGGVYAEYHGTTFI</mark> EYEMRGV <u>L</u> KFWPVAVFFQVGTSFRNYRSGVDD <mark>C</mark> RTGPELH |
| UniRef90_U6P4Z7 | P <u>A QR</u> E MTKGS <u> V</u> V GSYD <u> V</u> FTDFSHYKSG YRHT <u>G</u> GKPDG |
| UniRef90_U4PME4 UniRef90_M3XE95 | CNEILIACRGPIVIAIVIA FEII IY DILIFILIH WHRGII IYILIQILIHCFILII N |
| UniRef90_Q75JH0 UniRef90_Q4UDK0 | EAFLNAL KSGPI YASLYVDSGFQLYKSGLYS <mark>C</mark> SQSSTPNPDLVALLLNAGPLTVPVSVSPEWQFYADG TLNVCGAEL |
| UniRef90_E9PI30 | |
| UniRef90_Q5Y804 UniRef90_Q24865 | EQIAANLVKNGPLAVALNAVFMQTYVGGVSCPYLCSKRQDEAELKAALSQGLIDETNDASSAKFQLYKSGAYTDTKCKNNEDLQTELMTNGPVQATFVVHEDFFMYAGGVYQHSSSVAEGQQFKNYLFNKGPMVAVFDVFEDFLNYGGGIYNKVSGDKLG |
| UniRef90_G0MFB7 UniRef90_J9IEE3 | EDILQTEL MTNGPVQATFVVHEDFFMYAGGVYQHSSSVAEG |
| UniRef90_A8DBQ9 | KIREALAQTHSAIAVIIGIDAFRHYDGRTIIQRDNGYQPN ESIQKEIMTLGPVEASFEVYTDFLYYTGGIYKHVAGSMGG |
| UniRef90_UPI0001E44C6F UniRef90_A2F4G0 | TALIALIAVISIL VIGIVIA TIVISIVID A SRTSFQILIY QILIY Y E P D C STETM |
| UniRef90_UPI000350D4E0 UniRef90_H8KUH2 | |
| UniRef90_A7SY48 | I DRKNHLTNIGPCSAVIEVYQDFFSYTNGVYHHVSGGLAGIALKKALSYHGPATISINANPKSLKFYSDGIMSDKHCEDMKKEIFTNGPISCGVFATERFEAYTGGVYEEEVSTVGTEEIAAHVASQGPLTVTLNSAAMKYYKRGLSQPKNCSPDQL |
| UniRef90_C5LAI7 UniRef90_UPI0003C4643C | E E [] A A H V A S Q G P L T V T L N S A A M K Y Y K R G L S Q P K N C S P D Q L |
| UniRef90_A0A059LMW9 UniRef90_D9SNR7 | E |
| UniRef90_C5K5J1 | DNI KKELMTNGPTSAAFSMYDDFLSYESGVYKHTSGTLMG |
| UniRef90_Q3L7L7 UniRef90_E9GQ66 | T V L A K F K A A V S T S L QI L D M D K F R H Y D G K S V I I N D F K A K P L S T M M N I L S D G R I L T V Y I H L P D S F F N Y K S G I F D D T K C N S G S C E I M Q E L V D R G P V E A S M E V Y S D F I S Y K S G V Y Q V T K G A S K G |
| UniRef90_UPI0003598B93 UniRef90_W2TCY7 | T QILIM Q FILIF T N G PIV VIG S F SIVIY G D F F H Y K F GIVIYIVIS N GIVIQ P K G |
| UniRef90_G6CWP1 UniRef90_UPI00019B35DA | NDI MYDI MESGPVHAVMTVHQDFFHYHDGI YPYGDNTLQG EKLQKALYHYGPI SVAIDALDDLI LYKSGI YESQ <mark>C</mark> SSFLL |
| UniRef90_UPI0003AB81F1 | HRII IA QYIL IA AYGPII ITIVITII IQIVIG WESWRGRGII IQGTWPYTQPIL IG |
| UniRef90_Q4TD95 UniRef90_M3ZIG6 | R A L M K A V A S V G P V S V A I D A G H E S F Q F Y Q I Y Y E K E C S S E E L E E M M A E I Y A G G P I S C G I M T T Q K L H E Y T G G L Y S E Y V Q F P V I |
| UniRef90_J9JJZ8 UniRef90_L0HP22 | EGIMYEI MNWGSVQAMMKVSKEFFMYESGVYR <mark>C</mark> SNGSKTG |
| UniRef90_V9FBI1 | LA MMK EL MK D G PL T C GVA C S D E F F K Y K A GL L D D K T G F M D L |
| UniRef90_T1JR13 UniRef90_T0R834 | Y D D V M K A L Q N G P L S I S I D A S G A G F R H Y G S G I Y K R L S D R Y L G |
| UniRef90_A0A024TR65 UniRef90_X1MSC3 | E E MMA E I Y A G G P I SU G I M I Q K L H E Y I G G L Y S E Y V Q F P V I E G I M Y E I M N W G S V Q A M M K V S K E F F M Y E S G V Y R C S N G S K T G N E L I M A L N E V G P V T I A V G V T N D F V L Y S G G I F D G P C N P V L N L A M M K E I M K D G P I T C G V A C S D E F F K Y K A G I I D D K T G F M D I D K I M S S L T L D G P I S A Y M A V Y S D F L S Y K S G V Y K R L S D R Y L G Y D D V M K A L Q N G P L S I S I D A S G A G F R H Y G S G I Y D A S D C T V D H A M L Q E L L R G P I T C G V A C S D G F S Y N Y T A G I F H D T T D F M D I N N I K Q A V M D Y G M M Y T S M Y Y A S S Y Y N A T N H T Y Y Y N E K L M F E I Y M N G P V O T S I R I Y M D T T T Y K S G V Y K H T W G P I A G |
| UniRef90_T1DJI4 | EKI MEEL YMNGPVQTSIIRIYMDLTTYKSGVYKHTWGPLAG KDSLIQELKNGPLTLALYSDTAFQSYAGGIYDSVEEYKDV |
| UniRef90_Q54J84 UniRef90_UPI00042BC675 | E WG WG E A S R E V A S D S A P L P L Q L Y K K G V I E A T P T S C D P F K E L M A E V Y A R G P V A C S L D A T D K L E S Y T G G L F K E F V A V P L P |
| UniRef90_D3B5M9 UniRef90_B7PEB4 | K E I I M A E V Y A R G P V A C S L D A T D K L E S Y T G G L F K E F V A V P L P |
| UniRef90_B6GVK6 UniRef90_H9G4R6 | A E LQT E LMT N G PVE A A F T VY A D F P A Y K S GVY K R H S LR Q L G E D MM R E I Y A N G P I S C T L M Q T P K L D E Y T G G L F T E Y N E T A M A |
| UniRef90_A8HKB0 | ENLEDLL RYVGPI ALAVDAVD LT DYYGGI VSFCKNNGLEALKAEI FQRGPVHATFNVYEDFASYKGGVYLHTAGKMKGERMKAEI YKRGPI GCGVHATSKFESYTGGI YSEHVMFPLI DDIKAML VDKGSI FVTFDVFEDFFNYRRGI YRYTTGEL VGNEMKKGLAKKGLAKAGI AVAMNVFQSFTLYKGGVYNRTDGDFLG |
| UniRef90_U6P5S6 UniRef90_D0MWA1 | EALLKAEII F Q K G P V H A T F N V Y E D F A S Y K G G V Y L H T A G K M K G E R M K A E II Y K R G P II G C G V H A T S K F E S Y T G G II Y S E H V M F P L I |
| UniRef90_J9FX62 UniRef90_B1NHW4 | DDIKAML VDKGSI FVTFDVFEDFFNYRRGI YRYTTGEL VG |
| UniRef90_O28333 | VE ALK A LI CH GPLSVIA SEN WE HALL LVIGY DDLST TO TOK A E I QS E KARGPVVCHMHVDEAFRANYEGGVFYQDKPNAE |
| UniRef90_C5LYL7 UniRef90_A5HC50 | EQI IAQYLATQGPITVTINRILLHHYKKGVI |
| UniRef90_G1EN37 UniRef90_A0A016SEU1 | EQI TAQYLATQGPITVTI NRI LLHHYKKGVI DQI KRELMENGTLTGAFLVYEDFLLYKEGVYHHVTGMPMG EDI MTEI ITNGPVQATFVVHEDFFMYAGGVYRHTEFTGQG SDI MAELYHSGPVQATMRVYRDFFSYSSGVYRNRGAPTGF |
| UniRef90_Q28XS2 | S D I MA E L Y H S G P V Q A T M R V Y R D F F S Y S S G V Y R N R G A P T G F |
| UniRef90_B5TTU4 UniRef90_L1LA25 | QHLR KHGPFVTVFDASNSFINGFRGGIHDQRFGVGV |
| UniRef90_B8F9Y8 UniRef90_A0CK16 | E A K A A L T Y G A V V A A V Y A G P A F L A Y Q S G Y E Y Y A P T N H A N N D E T A M Q T G P V T A L M Y A D E S WL R Y T S G I N T C G Y P K V S |
| UniRef90_C5KY95 | E A II K A A II L T Y G A V V A A V Y A G P A F L A Y Q S G II Y E Y Y A P T N H A N N D I E T A M Q T G P V T A L M Y A D E S WL R Y T S G I I N T C G Y P K V S R L WE H A R L E A K N V F V Q L R S Q E L W S R S R K S Y G N Y R G E K I K R A V L A Y G G V Q S S L Y S S L S G R E S R S V S Y Y C Y L G P E P P K G I M A E I Y K N G P V E G A F S V Y S D F L L Y K S G V Y Q H V T G E M M G E Q Q K V W L D T V G P L T A C F D V Y D D F F G L G A G V Y H R T S D R L A G E N L K A M L M N G H S V S F T F N T S D Y Y Y N A E T E A Y Y T P Y Y T W G N E A I M A M L V T Y G P G T V D I H G T S D T F R F Y K G G I M M P N S A Y T N F A L I Q A L A N Q P V V A L L H A G E D W S L Y F G Q R G R V Y D D N K G G T V D D K K G G T T C D D K K G G T C D D K K G G T T C D D K T C D D K T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K C T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G G T T C D D K K G T T C D T C T C D T C T C T C T C T C T |
| UniRef90_D9R5B4 UniRef90_G2HFM9 | KGLMAEI YKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMG |
| UniRef90_A0A024YRF0 UniRef90_D4L9L3 | E Q Q K V W L D T V G P L T A C F D V Y D D F F G L G A G V Y H R T S D R L A G E N L K A M L M N G H S V S F T F N T S D Y Y Y N A F T F A Y Y T P Y Y T W G N |
| UniRef90_B0KZL4 | EAL MAML VTYGPGTVDIHGTSDTFRFYKGGIMMPNSAYTN |
| UniRef90_A8IUS9 UniRef90_R5JJT0 | VSVKNALLKYGAVMSGYYDDKRYMSLDKNAFYCDDKKGQT |

| 170 180 190 190 190 190 190 190 190 190 190 19 | 200 |
|--|-------------------------------|
| UniRef90_Q4N070 HYVLLVGEGYDEDTKRYFIVKNTLGQNWGENGYARL | |
| UniRef90_UPI0003940F20 | - L R |
| UniRef90_A0A022Q4U1 H A VT I V G Y G T T P C G I P Y W L V K N S W G P Q W G E G G Y I R N UniRef90_Q9U938 H A V K I I G W G K D N G T D Y W L I A N S W S K D W G E S G F F R N M C R N S W S K D W G E S G F R N M C R N S W S K D W G E S G F R N M C R N S W S W S K D W G E S G F R N M C R N S W S W S W S W S W S W S W S W S W S | ΛRPN <u>V</u> ΛVR |
| UniRef90_L1LAL5 | _L D D <u>G</u> |
| UniRef90_A0A016W1Y2 | |
| UniRef90_U1M4H1 | : <u>V</u> R |
| UniRef90_V4UFC7 N H G V T L V G Y G T T G Q H P Y W L V K N R W G T N W G E G G S M R L UniRef90_UPI0003BC631E | _FRG∇ |
| UniRef90 UPI0002885917 NHAVDIVGWDDNYGNGAFI <mark>C</mark> KNSWGTSFGDKGYFYV | /SYYD |
| UniRef90_G4V5E2 | L R G V |
| UniRef90_K3WGZ2 | / <u>E_</u> R G Y |
| UniRef90_A0A016WKC1 | L R |
| UniRef90_Q8WMY5 DHGLVVGYGFEGTN | |
| UniRef90_A0A016WMR2 GHAVKILGWGTENGTDYWIVANSWNTNWGEDGFFRI UniRef90_F9WF78 VTAVKVVGWGKLNGTPYWKVANTWDTDWGMDGYLLI | L R |
| UniRef90_A8IUT0 | V IR Q G |
| UniRef90_E3NB50 WHAGAVVGYGEDRDKYWIVKNSWGTGQWGDDGYVKWUniRef90_U6P4Z7 RHAVRIIGWGKENGTDYWLIANSWHDDWGENGYFRM | <u>/</u> I R |
| UniRef90_U4PME4 | |
| UniRef90_M3XE95 | KEGS |
| UniRef90_Q4UDK0 | _TRNS |
| UniRef90_Q57804 UniRef90_Q257804 UniRef90_Q24865 H G V L V G Y G S R M K E K P Y WI I K N S W G E K W G E S G Y Y K I U V R N S W G T S W G L S G Y Y K I V R N S W G T S W G L S G Y Y Y R N S W G T S W | CR |
| UniRef90_G0MFB7 | LR |
| UniRef90_J9IEE3 | F A A N I |
| UniRef90_UPI0001E44C6F | _L R G V |
| UniRef90_UPI000350D4E0 | <u>и</u> А М |
| UniRef90_H8KUH2 LH CVSVIGYSEAEQCWLCKNSWNTAWGNAGFFKLUniRef90_A7SY48 | |
| UniRef90_C5LAI7 NHEISVAGWGVEDGIEYWIGRNSWGTYWGEDGWFRM UniRef90_UPI0003C4643C DHVVLLVGYGAVNERQFWLIKNSWGDHWGEQGYYRL | <u>/</u> K M D E _ Y R |
| UniRef90_A0A059LMW9 UniRef90_D9SNR7 G N N H A V A I I G W D D G N G A Y I V K N S W G S S W G Q N G Y F Y V | |
| UniRef90_C5K5J1 E H GVE I I GWGT K Q GVD Y WL V M N S W N E G W GVH G T F K I UniRef90_Q3L7L7 N H A V N I_ V G Y G P K F G R Q A WI V R N S W G T S W G D K G Y A Y V | Α |
| UniRef90 E9GQ66 A HALN PVGYGTLNGVDYWVMRNSWGAGWGSSGYVLV | / K R G I |
| UniRef90_UP10003598B93 | FIL IR GIVI |
| UniRef90_G6CWP1 | A R R R N |
| UniRef90_UPI0003AB81F1 | _H R |
| UniRef90_M3ZIG6 NHI VSVTGWGVENGTEYWI VRNSWGEPWGEKGWLRI | VTSA |
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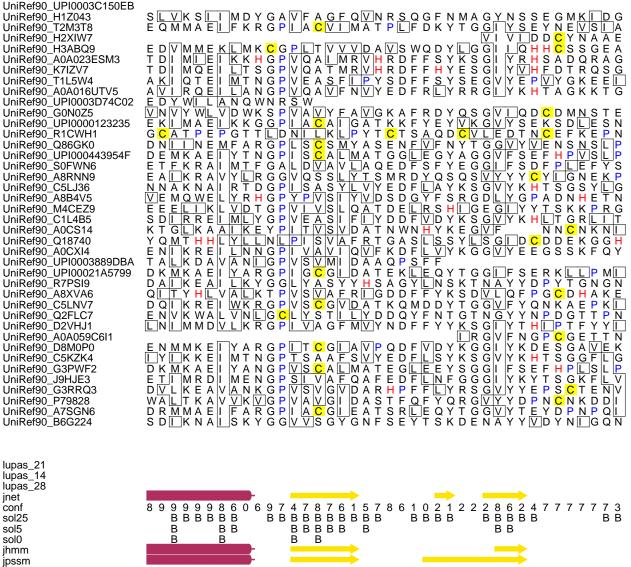
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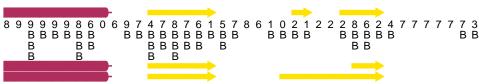
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