

1 10 20 30 40
H H H H M V M E Y E I R T P L V V K D Q I R K L K V G D V V Y I T G E I F T A R D D
UniRef90_F4LVC0 ME K S I R L K T P L V T D E E I R K L K V G D N V Y I T G G E I F T A R D D
UniRef90_A2BJ69 MT N V Y R L R T P L S T S E E D V R K L K R V G D T V Y I T S S G B T I Y T A R D D
UniRef90_B0TF12 M K A V R L T T P L T S Q E E V L R Q L K A G D T V Y I T S S G T I Y T A R D D
UniRef90_D8GIK9 ME K K R L T T P L T T E E K V K T L K A G D S V Y I T S S G T I Y T A R D D
UniRef90_E3HB12 I K L I T T P L T T A E D T E K S L K A G D T V Y I T T T G T I Y T A R D D
UniRef90_C3KVL1 M K I K I N T P L T T E D K I K S L K A G D M V Y I T T G T I Y T A R D D
UniRef90_A6Q7S5 M A Q Y T L T T P L T T S E D T R Q L K A G D T V Y I T N G T I F T A R D D
UniRef90_T0IWC3 ME N T I K I A T P L T T L E D K A R K L K A G D F V Y I T T G T I Y T A R D D
UniRef90_R6CBM1 ME K R L T T P L T T L E Q V K D L K A G D S V Y I T T G T I Y T A R D D
UniRef90_J0LCV4 M S K T Y N M T P L V T D A V L E S L K A G D T V Y I T T G T I Y T A R D D
UniRef90_R4KDZ7 N M A M K I K L T T P L T T D A V L E S L R I G Q K V Y I T N G T I Y T A R D D
UniRef90_G5IAC6 M D R Y M N T P F S R E E A E S L R A G D Y V Y I T T G T I Y T A R D D
UniRef90_Q8R5V3 M Y R K L N T P L L D E V T V Q L K A G D L I Y I T S G E I Y T A R D D
UniRef90_NOBH71 ME Y Y I E T P L I K K D E D L K L R A G D M V Y I T S S G T I Y T A R D D
UniRef90_UPI0003B443D9 ME Y H I N A P L T T K K E D T S K L K A G D M I Y I T T G T I Y T A R D D
UniRef90_D4MX52 ME K H L N V P A N T E E L A S E L K A G D Y V Y I T T G T I Y T A R D D
UniRef90_E3PXM4 M A N K I H I T T P L T T K E I I S N L K S G D E V Y I T S S G T I Y T A R D D
UniRef90_W9DYM3 ME Y K L N T P L T T D E D V D K L K S G D V Y I T S S G T I Y T A R D D
UniRef90_R1AWF5 M K E I K L T T P L T T D D V V A N L K A G D R V Y I T S S G T I Y T A R D D
UniRef90_Q3ACC8 I K I T T P L T T S E E V L E K L Q I G D E V Y I T N G V I Y T A R D D
UniRef90_R6QT18 ME K H I T V P F D K E T A K S L K A G D Y V Y I T T G V I Y T A R D D
UniRef90_A0A017RY13 ME K R I T T P L T T D E M L K D L K A G D S V Y I T S G T I Y T A R D D
UniRef90_L7EH91 M A I S I N T P F T E E E I C K L K V G D K V Y I T S G T I Y T A R D D
UniRef90_D9TNB6 M Y K K I N T P L T T E E E V I K N L K A G D T V Y I T T G K V I Y T A R D D
UniRef90_UPI000287E1D6 ME K R I T M P L T T E E K V K D L K A G D S V Y I T S G V I Y T A R D D
UniRef90_UPI00031FB880 ME A K H I S A P L T T E E A A N L R A G D R V Y I T S S G V Y Y T A R D D
UniRef90_UPI00046CF3B7 I R L T T P L S D A D V E R L R A G D Q V Y I T S S G F V Y T A R D D
UniRef90_X1G335 I R L T T P L S S N E D V E K L N I G D K V Y I T N G V I Y T A R D D
UniRef90_D7JFF5 M S E R R V L K A P F T D D E V V R K L K A G D M V Y I T T G T I Y T A R D D
UniRef90_X8K5V6 M A K K I N V P L S R E E A R K L K S G D N C L I T T G T I Y T A R D D
UniRef90_UPI0003B3D25C M K E Y K L Q T P L T T D E D V A Q L K A G D V V K L T S G T I Y T A R D D
UniRef90_E5BF27 ME Y T V N T P L T T K E A D I E T L K I G D V V K I T S G T I Y T A R D D
UniRef90_UPI00036BB203 M A E Y K L T T P L T T D A V I T P L K A G D V V Y I T T G T I Y T A R D D
UniRef90_E1QQT8 M G T Y L K T P I S D D D I T K L R V G D T I Y V T S G T I Y T A R D D
UniRef90_M1E8Y7 ME F N L T T P V K N E I L E S L N I G D R V F I T N G I Y T A R D D
UniRef90_X1PKN6 M K E S T K I T T P L N K N E E K V I Q L K A G D R F V N I T T G Y I Y T A R D D
UniRef90_F7NDG0 M K K V L T T P L K N E D L E N I T A G D V V Y I T D G Y L I T C R D D
UniRef90_UPI000421D29C ME H R I T A P E S A E T I K K L H S A G D M V Y I T S S G V I Y T A R D D
UniRef90_UPI0004721318 R H L H T P L S V D D V E S L R A G D R V L I T S S G V I Y T A R D D
UniRef90_C0GJW6 M T V K R I S A P L S D E D I M E L K A G D N V Y I T S S G V I Y T A R D D
UniRef90_A9KPP8 M D K Y L T T P L I D S S K V V G L K A G D Y V Y I T S S G K L Y T A R D D
UniRef90_G9BAU3 V V V Y K F D T P I S E E M I R K L R V N D V L Y V T S S G T M V T A R D D
UniRef90_R6HBC1 ME Y R L T A P M T R E Q A R Q L R C G D T V L F T T G T I Y T A R D D
UniRef90_UPI00047BB023 M M K K L T T P I S D E D D L K D Q I K I G D V I Y L T N G H L V T C R D D
UniRef90_K4MC47 M K E F H L S T P L K K S D I D Q L S V G D V I Y L T T G T F L V T A R D D
UniRef90_A5Z7F1 M N R N I T A P L S D E V A K E L K S G D Y V Y I T T G T I Y T A R D D
UniRef90_U2NAG6 M N K K I E T P L T T I D K V K D L N V G D T V Y I T S S G E I F T A R D D
UniRef90_UPI0002554E30 ME Y H I E L P L T T R E K A A P L K A G D R V Y I T N G I Y T A R D D
UniRef90_W0JDY6 M A E Y K L K T P L T T D E D I T K L K A G D K V Y I T S S G V V Y T A R D D
UniRef90_B5YJ87 E G I K I K I E T P L T D E V I E Q L K A G D L V Y I T N G Y V Y T A R D D
UniRef90_UPI0003792304 M A E K K R I T T P L S A E V V R D L K A G D S V Y I T T G I Y T A R D D
UniRef90_W3AL26 M Q K K I T L P L T T D A D L D S L K A G D R V Y I T S S G T V Y T A R D D
UniRef90_E3GM56 M S V I R L T T P L S K A D A A K L K A G D Q V Y I T S S G V I Y T A R D D
UniRef90_Q1Z268 ME Y H L N T P L K K E Y I E E L K A G D T V Y I T S S G T V I T A R D D
UniRef90_F7V2E1 M D K H I H T P L T K A A A A D L H A G D Y V Y I T S S G T L Y V A R D D
UniRef90_A6LPV0 ME I K L E T P L N E E K I R Q L K A G D S V L L T S S G I Y T A R D D
UniRef90_R9CFC7 S V D K K I N T P L T Y E K I K D L K A G D R V L L T T G S I Y T A R D D
UniRef90_R6P5L6 ME I N I T T P L S R E K A K S L K A G D M V K I T T G V I Y T A R D D
UniRef90_R6NA18 ME K R L T T P E T D K E K I K S L K A G D S V L I T T G T I Y T A R D D
UniRef90_O67590 ME K R I T T P L T D E V V K S L R A G D K V Y I T T G Y I Y T A R D D
UniRef90_D7EAZ4 M V H Y L Y T P L T D K Q D I M K L N T G D T V Y I T T G T V L T A R D D
UniRef90_K8EE36 M T R V C L T T P L S D A A V A N L R I G Q Q V L I T N G V I Y T A R D D
UniRef90_R5IMM1 M A I E L K T P L D S A A A R A L R A G D M C L T T G E L Y T A R D D
UniRef90_UPI00047CE670 M V K E I H I N T P L K K E I V K K L V A G D R V Y I T T G E I Y T A R D D
UniRef90_U2DGD9 L G G M K M E R T I Q A P E T K E T A E S L K A G D Y V Y I T D G E I Y T A R D D
UniRef90_L0A9T5 M V N E Y H L K T P L S D D I I N K L N I G D T V Y I T S S G I M V T A R D D
UniRef90_F3BCD4 M K K Q I Q I P L S K D E I I R E L K A G D Y V Y I T T G E I Y T A R D D
UniRef90_A3MV17 A M A V Y R L K T P L S S D V S R L R V G D T V Y I T S S G V V V S A R D D
UniRef90_I5ATV7 M K R T I K V P M N H S D I K S L H A G D Y V Y I T S S G T V Y T A R D D
UniRef90_A5FS09 M S S I K L N S P F D P S E L E K L Q A G D S V Y I T S S G T I Y T A R D D
UniRef90_R5G3N3 M S T D K R I T T P L T D D D V I K T S L H A G D M V Y I T S S G T I Y T A R D D
UniRef90_R7AJ74 M D R T I T A P L T D R E T L K S L H A G D Y V Y I T S S G T I Y T A R D D
UniRef90_A6TTM2 M S K K I T M P L T A E K V K S L K A G D S V Y I T T G M I Y T A R D D
UniRef90_UPI0004636213 ME K R I A A P L T D K E N V R T L T A G D Y V Y I T T G T I Y T A R D D
UniRef90_W6N3B3 M N K K L E T P F T K K Q V E L S A G D N V L I T S S G I Y T A R D D
UniRef90_U2ECW5 M D I T T P L T D E V V K Q L K A G E K V K I T S S G I Y T A R D D
UniRef90_M1QN06 ME Y H L Q T P L K F F E D I E K L N A G D Y V Y I T S S G E I L T A R D D
UniRef90_R5K269 M D K Y I H T P I T E R V A D E L R A G D Y V Y I T S S G T I Y T A R D D
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UniRef90_D9QZV9 N G G I M D H H I K V T P L S R E D A K N L K A G D Y V Y I T S S G T I Y T A R D D
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UniRef90_R7JYM3 M S E K Y I N T P V T E Q D I E S L E T G D M V Y I T S S G T I Y T A R D D
UniRef90_UPI00047C81D4 M K L T T P L T S Q V I N D L K A G Q E V Y I T T G I V Y T A R D D
UniRef90_R6GW53 M N K N I Q V P L S E E D I N T L K A G D Y V Y I T S S G L I Y T A R D D
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UniRef90_UPI000464C202 M A E Y K L T T P L T D E D V S K L K S G D L V Y I T S S G T M Y T A R D D
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UniRef90_F6BE85 M A S F E L K T P L T S K E T I S K L K V G D V V Y I T N G V I Y T A R D D
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QUERY
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90 100 110 120
 V S A G P T T S A R M N S P F T P K I L E K V L G C M G I G K G M S E E V V V E A
 G P A G P T T S Y R R M D S Y T P E P L L E E K L L G L K G M I G K G G L R M G K E E V I N A
 V A A G P T T S S Y R R M D T P Y V E H E F I A K T T G L V L R T M V I G G K G G G M G M P R A E A
 G S A G P T T S S Y R R M D T F A P R L L I D Q N L G L K G M I G G K G G L R R S K E E V V I D A
 G S A G P T T S S Y R R M D T Y T P K L L L D Q N L G L K G M I G G K G G K R R S Q Q E E V I E S A
 G S A G P T T S S Y R R M D S Y S P T M L R E E Y G S L K G M I G G K G G K R R S N Q V V K D A
 G S A G P T T S S Y R R M D A Y A P T M I E E L G G L R R G M I G G K G G K R R S P A V V I E A A
 G S A G P T T S Y R R M D S Y S P T L I A L L G L K R G M I G G K G R R R S N Q E E V K D A A
 G S A G P T T S S R M D L Y A T P K L L I D L L G L K R G M V G G K G G K R R S P E E V I K E A
 G S C P T T S S G R M D K Y A P R L L I E L L G L K G M I G G K G G A R S S E E V V I E F
 V S A G P T T S A R M N S L A P K I L D E K V L G L M R G M I G G K G G K R S S E E V V I N A
 G S A G P T T S S R M D K Y T P T M L D D Q L G L K G M I G G K G G K R R S S E E V V I E S A
 G S A G P T T S A R M D A Y T P T L L D D L L G L K R A F V V G G K G G M K N N V I E S S
 V A A G P T T S A R M S K Y M T P S L L L D I H E F V L K R A F V V G G K G G M N N V I E S S
 G S A G P T T S Y R M D D Y T P Y L L E K G L K G M I G G K G Q R N N K V I E S S
 G S A G P T T S G R M D K Y T P R L L D D M Y G L K G M I G G K G G L R R K N K V Q D A
 G S A G P T T A T R M D K Y T P R L L D M Y G L T G M I G G K G G L R R K N K V Q D A
 G S A G P T T S Y R M D A Y S P A L L I E M V G L N G M I G G K G K R R D A S V V I E A
 G S A G P T T S Y R R M D S Y T P K L L D M G L K G M I G G K G G Y R R S Q E V V I E A
 G S A G P T T S Y R M D A Y T P Q L L D Q L G L K G M V G G K G G L R R S K E E V I E S A
 G S A G P T T S Y R M D K Y A P R L L E L L G L K G M I G G K G G Y R R S N Q E V K E A
 G S A G P T T S Y R M D P Y S P V L V A H L G L K G M I G G K G G K R R S D E V K E A
 G S A G P T T S Y R M D P Y S P K L I E L G L K G M I G G K G N R R S S Q E T V I E A
 G S V G P T T G G R M D A Y S P T L I A E Q L G L K V M I G G K G G R R S S E E V V I E A
 G S A G P T T A Y R M D A Y S P A L L I E G E T G M I G G K G G K R R S P E V I E A
 G S A G P T T S Y R M D T Y A P R L H S L G L K A S I G G K G K R R N D A V K Q A
 G S A G P T T S Y R M D Y A P R L L M K H L G L K G M I G G K G G K R R S Q E T V R D S A
 G A A G P T T S Y R M D S Y A P R L H R H L G L K A T I G G K G G K R R N D E V T Q K A
 V S M G P T T S A R M D D F E P E V I E K L G V K L V I G K G G M G P K T T E A
 G S A G P T T S Y R M D K Y T P R L L D L G L K G M I G G K G G N R R S D E V I Q S
 G S V G P T T S Y R M D L Y T P P M L D R E T G L K G M I G G K G G R R S S G E V I E S
 V S I G P T T S M R M E K F E K E F I A E T G V K L I I G K G G M G S P K T E E G
 G S A G P T T A S R M D K Y A P R L L D M A T G L C G M I G G K G G K R R S P E V I D A
 G A A G P T T S G R M D P Y T P R L L A A T G L K G M I G G K G G F R R S P E V K K A
 G S A G P T T S G R M D A Y T P T M L E Q L G L K A C I G G K G S R N K A V K D A
 G S A G P T T S S R M D K Y T P T L L D L G L K G M I G G K G G K R M G E R T T Y A S
 V A A G P T T S T R M D I F E D E F L K S F K V R V I V G G K G G M G E D T T Y A S
 G S C G P T T S Y R M D A Y A P K V I A A G S T G M I G G K G K R D E G V V I N A
 V S I G P T T S M R M E K F E K E F I D Q T G V V K L I V G K G G K R D E P N T E A G S
 I A A G P T T S A R M S K Y M T P H L L D E K Y N V T A L I G G K G G M N N V A G S
 G S A G P T T A S R M D K Y A P K L L D L L G L K G M I G G K G K R R S E Q V K E A
 G S A G P T T S Y R M D S Y T P K L L D L L G L K G M I G G K G G L R R S G K E V I D S
 G S A G P T T S Y R M D A Y A P R L L S L L G L K R S K E E V I D A
 G S A G P T T S Y R M N P F A P I L L I E K L G L K G M I G G K G K M S S Q E E V K D A
 G S A G P T T S S R M D S Y T P L L L S Q L G L K G M I G G K G Q R R S E E E V V K A S
 G S A G P T T S G R M D A Y A P T L L D D Q L G L R G M I G G K G S R R S S K E E V V E S
 G S A G P T T S H R M D A Y A P V L M E N F N V R V L I G G K G G M T L V A D S
 I A A G P T T S D R M S K Y M T P A L L D E N F N V R V L I G G K G G M T L V A D S
 G S A G P T T A T R M D R Y T P R L L D L L G L T A M I G G K G K R R S Q E V I D A
 G S A G P T T S Y R M D A Y A P K L L M D I G L K G M I G G K G G A R N D E E V I S S
 G S A G P T T S Y R M D A Y S P K L L D L L G L K A M I G G K G G A R N D E E V I N S
 G S V G P T T S Y R M D A Y S P E T I E L L G L T C M I G G K G A R S S K E E V V D A
 G S C G P T T A G R M D A Y T P M L L D N L G L G C M I G G K G G A R S S K E E V V D A
 G S A G P T T A I R M D K Y V E P L L L E K F N V R A L V G G K G G M Q N V S D S
 V A A G P T T S S R M S G M T P E L L E K F N V R A L V G G K G G M Q N V S D S
 G S A G P T T A G R M D A Y T P R L L I E L L G L K G M I G G K G G A R S E T V K E A
 G S A G P T T S Y R M D A Y S P V L L R Q L G L T G M I G G K G K R R S E A V I E A
 G S A G P T T S Y R M D D Y T V P L L K L G L S G M I G G K G E R S P I V K E G
 G S A G P T T S S R M D K Y T P R L L D K L G M G A M I G G K G G K R S K E E V T E A
 V A A G P T T S M R M E S V E P R F I E K T G I K M V V G G K G G M G K K T A D A
 G S A G P T T A S R M D K Y A P R L M D L L G L S G M I G G K G K R S Q E E V I D A
 I S M G P T T S A R M E A F E A E V I E K A G V K L V V G G K G G M G K R E T A E A
 G S A G P T T S G R M D K Y A P E L L M D L G L Q A G M I G G K G R R T Q E V T D A
 G S A G P T T S S R M D P Y T P E L L D A G L Q A I I G G K G N R R S A E V I S R A
 G S V G P T T A G R M D A Y S P T L M K K Q L G L K A M I G G K G L R R S S Q A V I D T
 G S A G P T T A S R M D K Y T P R L L D L L G M G A M I G G K G K R S Q A V I D A
 G S A G P T T S Y R M D S Y T P A L L E Q L G L K G M I G G K G L R G E S V I T A
 G S A G P T T A S R M D R Y T P E L L D L L G L G A M I G G K G G K R T K E S V I E S
 G S A G P T T S Y R M D S F A P R L L E L L G L R R G M I G G K G G L R S S E V I E A
 I S A G P T T S G R M S K Y M T P L L K T H K V R A L I G G K G G M S P A N V A D S A
 G S A G P T T S S R M D K A P L L M Q H G L S G M I G G K G K R S K A V I E A
 G S A G P T T A G R M D K Y A P R L L D L L G Q K G M I G G K G K R S S E A V I K A
 G S A G P T T A S R M D Q Y T P T L L D M G M R R G M I G G K G K R S S E E V I E S
 G S S G P T T S Y R M D P Y T P L L E K L G L N G M I G G K G P R N Q E I K D A
 I S A G P T T S G R M S K Y M T P L L K T H K V R A L I G G K G G M S P A N V A D S A
 G S A G P T T S S R M D K A P L L M Q H G L S G M I G G K G K R S K A V I E A
 G S A G P T T A G R M D K Y A P R L L D L L G Q K G M I G G K G K R S S E A V I K A
 G S A G P T T A S R M D Q Y T P T L L D M G M R R G M I G G K G K R S S E E V I E S
 G S S G P T T S Y R M D S Y T P T L L D R G L R R G M I G G K G G K R S S E E V I S S
 G S A G P T T S Y R M D P F A P R L L I K E L G L R I M I G G K G E R N A E V I D T
 G S A G P T T S Y R M D S Y A P R L L H G L G L K G T I G G K G K R R S E E V I Q A S
 G S C G P T T S G R M D A Y T P K L L S M G L K G M I G G K G E R S S E E V I K A
 G S A G P T T S S R M D K Y T P E M L L D K G L K G M V G G K G G K R S P E V I E A
 V S V G P T T S Y R M D S F T P M L L D K G L R G M I G G K G L R S K E V I E A
 G S A G P T T S Y R M D P Y A P T L I E H L G L K G M I G G K G K R N K D V I E A
 G S A G P T T S G R M D V Y S P V L M A K G L S G M I G K G G N R S Q E E V I E A
 V A I G P T T S A R M N N T E E E V I K V T N L S A I V G K G G M K K E L L K A
 V S I G P T T S M R M E K F Q K Q F I E Q T G T K L I V G K G G M G P N T T A G

QUERY	170	180
UniRef90_F4LVC0	R F Y V I E R F G P C I V V A I D A H G N S L Y E R R	
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UniRef90_B0TFI2	E L V V I E D D F G P V I V V C I D D A E G N N L Y E E Q	
UniRef90_D8GIK9	K L E V I E K D L G P P V I V V I D D S E E G N N L Y E E Q	
UniRef90_E3HB12	K L E V I E D D F G P V I V V I N D T Y G N N D Q Y E E Q	
UniRef90_C3KVL1	K L E V I E D D L G P V T V I I N D S Y K G N N L Y E E Q	
UniRef90_A6Q7S5	K I T V I E D D F G P V T V I I N D T Y G N N D L Y E Q E Q	
UniRef90_T0IWC3	R R L T V I E D D F G P A I V V I I D S E E G R N N F Y E Q K	
UniRef90_R6CBM1	R R L E V I E D D L G P A F V I I D S E E G N N L Y E Q K	
UniRef90_J0LCV4	K I E V I E N F G P V T V I I N D S Y G A D L L Y Q E Q	
UniRef90_R4KDZ7	R R L E V I E D D F G P V I V V I N D T T L G G D L L Y E E Q	
UniRef90_G5IAC6	K M Q V I E D D F G P V I V V I I D S E E G N N L Y E E Q	
UniRef90_Q8R5V3	K F T V I E D D F G P L I V V T I D C Y G N N L Y E E R Q	
UniRef90_NOBH71	V F E V I E N F G P L I V V G I D D S E H G N S L Y E A R Q	
UniRef90_UPI0003B443D9	R L H V I E N F G P C I V V I I D D S E E G T N L L Y E E Q	
UniRef90_D4MX52	K L R V I E N F G P V I V V I D N S Q G N N L Y E E Q	
UniRef90_E3PXM4	K L T V I E N F G P A I V V L D D S E G N N D L Y E E Q	
UniRef90_W9DYM3	E L T K V I E N F G P L V V V G I D D S H E N D L L Y E E Q	
UniRef90_R1AWF5	K L T V I E K L L G P A I V V I I D S K G N N L Y E E Q	
UniRef90_Q3ACC8	R R L E V I D F G P A I V V I I D A R G Q N L L Y E E R	
UniRef90_R6QT18	R R L E V I E N F G P V I V V I I D S E E G N D L L Y E E R	
UniRef90_A0A017RY13	K L Y V I E D L G P L V V V I I D S E E G N N F Y E E R	
UniRef90_L7EH91	K L Q V I E N F G P A I V V I I D S L G N N L L Y E E E R	
UniRef90_D9TNB6	E F T V I E D F G P V I V V T I D D M Y G N N L L Y E E E R	
UniRef90_UPI000287E1D6	R L E V I E D L G P L V V V I I D C E G N N L L Y E E E Q	
UniRef90_UPI00031FB880	R L V I E N F G P A V V I I N D M Y G Q D L L Y E E Q	
UniRef90_UPI00046CF3B7	R L V I E D D F G P V V V V I N D A H G G D L L Y E E Q	
UniRef90_X1G335	I L E V I E D F G P V T V I I N D T K G N N D L L Y E Q R	
UniRef90_D7JFF5	R L E V I E E L L G P V I V V L D Y S E Q G N N A Y E E R	
UniRef90_X8K5V6	K L Y V I E D L G P V V V V I I D S E E G N N L Y E E R	
UniRef90_UPI0003B3D25C	A M K V I E D F G P L L V V N D S H G G E L L Y A K	
UniRef90_E5BF27	K L E V I E D F G P A I V V I N D S Y G G D L L Y E	
UniRef90_UPI00036BB203	K M T V I E D F G P L L V I N D S H G Q E L L Y	
UniRef90_E1QQT8	V L E V I E N F G P L T V I I D S Y G N N Y Y E E E K	
UniRef90_M1E8Y7	R L E V I E N F G P V V V V I I D T A G N N L L Y E E E K	
UniRef90_X1PKN6	Q F Y V I E D F G P A I V V I I D S A G N N L L Y E E E K	
UniRef90_F7NDG0	V S R V I E N F G P L I V V S I D T K G N N L L F E E K	
UniRef90_UPI000421D29C	R L E V I E D F G P A I V V I I D S Y G S N L L Y E E K	
UniRef90_UPI0004721318	L L E V I E N F G P A T V I I N D C Y G G D L L Y E E E	
UniRef90_C0GJW6	R L E V I E D F G P A T V V N D A H G T D L L Y E E E	
UniRef90_A9KPP8	E L W V I E N L G P V I V V I I D S N G N N F Y E E	
UniRef90_G9BAU3	I J E V I E E F G P L T V A I I D S H G N N L L F E E	
UniRef90_R6HBC1	R M E V I D F G P V T V V I I D T L G Q N N L Y E E Q	
UniRef90_UPI00047BB023	V C R V I E E F G P L I V V S I D S E E G S N I F F E Q	
UniRef90_K4MC47	V L K V I E N F G P L I V V I I D A K G N D L F A K	
UniRef90_A5Z7F1	K L K V I E D F G P A I V V I I D S Q G N N L L Y E Q	
UniRef90_U2NAG6	K L W V I E D M G P L V V V I I D S G G N N L L Y E Q	
UniRef90_UPI0002554E30	R L T V I E D F G P V V V V I I D S G G N N L L Y E Q	
UniRef90_W0JDY6	K L E V I E D M G P V F V C Y D A Y G N D L L Y E E	
UniRef90_B5YJ87	K L L L K D F G P A I V A I D C H G G N I F R E E	
UniRef90_UPI0003792304	A L T V I E D F G P A I V V V D S E G N S F Y E E	
UniRef90_W3AL26	K L K I E N F G P V F V I N D V H G G D I L Y E E	
UniRef90_E3GM56	K L V V I E D F G P A L V V I I D S K G N N L L Y E E	
UniRef90_Q12Z68	E L E V H E F G P L I V V G I D A K G K D F F	
UniRef90_F7V2E1	R I V V I E D L G P V I V V I I D S E G N N L L Y E E	
UniRef90_A6LPV0	K M E V I D M G P L V V I I D A Q G N N L L Y E E Q	
UniRef90_R9CFC7	R M E I K D M G P L I V I I D A T E G N N L L Y K Q	
UniRef90_R6P5L6	R L E V I D F G P G I V I I D S Q G N N L L Y E E	
UniRef90_R6NA18	K L E V I E N F G P A V V L V D C E G N D L L Y E E	
UniRef90_O67590	R L Y V I E D F G P V I V A N D A F G G D V F E E	
UniRef90_D7EAZ4	E L E I K N F G P L I V V G I D A K G N D L L Y Q	
UniRef90_K8EE36	K L T V Q D F G P A I V V I N D A Y G G D L L Y Q	
UniRef90_R5IMM1	R L Y V I E N F G P V T V I I D S E G N N L L Y E E	
UniRef90_UPI00047CE670	K L Y V I E N F G P A I V T I D C K G R N L L Y E E E	
UniRef90_U2DGD9	E L R V I E H F G P V I V V I I D S K G N N L L Y E E R	
UniRef90_L0A9T5	V F R V I E E F G P L I I T I D N K G N N Y Y E E R	
UniRef90_F3BCD4	R L E V I E D F G P V I V V I I D S E G N N L Y E E R	
UniRef90_A3MV17	V L E V I E D F G P L T V M I D S T G R N F Y D	
UniRef90_I5ATV7	K L E V I E D F G P V I V A I I D S E G N N L Y D	
UniRef90_A5FS09	A L T V I E N F G P A I V A I I D S Q G N N A F E K	
UniRef90_R5G3N3	R L E V I E E L G P V I V A I I D C Q G N N A Y E K	
UniRef90_R7AJ74	K L T V I E N M G P M I V V I I D S E G N N L L Y E E	
UniRef90_A6TTM2	K L Y V I E D L G P L I V V I I D A K G N N Y Y E E E	
UniRef90_UPI0004636213	K L Y V I E D F G P V I V V A D C K G N N L L Y E E	
UniRef90_W6N3B3	K L K V I E D L G P A I V V I I D S K G N N L L Y E E	
UniRef90_U2ECW5	K L E V I E D F G P A I V I N D C Y G N D L M E	
UniRef90_M1QN06	I L R V I E K F G P L I V V G I D A K G K D I F	
UniRef90_R5K269	K L E V I E N L G P A I V V I I D Q A G N N L L Y E E	
UniRef90_N2B8K8	K L E V I E N F G P M I V V I I D S Q G N N L L Y E E	
UniRef90_D9QZV9	R L E I K D F G P A V V V I I D S K G N N L L Y E E	
UniRef90_K0AWN8	K I Y I E N M G P A I V A I I D S Q G N S L L Y E R	
UniRef90_UPI00037735B6	K L V V I E K L G P L I C V I I D S K G N N L L Y K R	
UniRef90_F3Z1J5	E L S V I E D F G P L L V I N D C Q G G E L L Y A K	
UniRef90_R7JYM3	K L E V I E K L G P A I V V I I D S K G N N L L Y E	
UniRef90_UPI00047C81D4	E L Y V I E D F G P V I V A I I D C R G N S L L F	
UniRef90_R6GW53	K L E I E N L G P V I V V I I D K D G N N L L Y E	
UniRef90_A5N4X7	K L E V I E D F G P V I V V I I D S E G N N L L Y E E	
UniRef90_UPI000464C202	R I E V I E D F G P V V V I I N D T Y G N D L L Y E E	
UniRef90_Q64B02	Q L V V I E N F G P V I V I N D L Y G N D L L Y K	
UniRef90_F6BE85	E L E V I E N F G P L I V A M D A H G N S I L Y E Q	
UniRef90_R7KMV3	V M R V I E K F G P L V V S I D A H G N N L L F E Q	

1 10 20 30 40
UniRef90_C3XGE4 M S E R L Q A P F T R E E G K K L R A G D T V V L I S S G T I I A A R R D
UniRef90_R9TCL7 M N T P L I S E D D I K N L K V G E T Y V Y L S S G T I I F I A R R D
UniRef90_D4IXT4 M E H R I N T P L I T T S E E D I A T N S L H A G G E Y V Y L S S G S I Y T A R R D
UniRef90_W8T608 M S E V I R I N A P L I T T S E E K A M E L K A G D M V V L I S S G S T I Y T A R R D
UniRef90_E3DQQ9 M S K V K I Q T P L I T T E E K V K M E L K A G D S V V L I S S G S T I Y T A R R D
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UniRef90_F0K6X4 M E K L I T S P I R Q E E E I Q D L R A G D R V V L I S S G Y I Y T A R R D
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UniRef90_E4KWR5 M S K R L T T P L I T T A E D I K S D L K V G D V V Y L T T G R M V T C A R R D
UniRef90_F3ZU94 M E E L E L T T P L I T T D K D V S K L K A G D M A Y L S S G V I Y T A R R D
UniRef90_G8LWT5 M F Y N I Q T P L I T T K E E V K K L K A G D V N I S S G V I Y T A R R D
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UniRef90_E0SSD5 M D R I Y R L K T P L I S D E D D I K G I E L G D R V Y I T T G T I Y T A R R D
UniRef90_R5H174 M E K H I K V P M T R E E A K Q L K A G D Y V Y L T T G T I Y T A R R D
UniRef90_UPI00047BCEB6 M D K Y L E T P L T K E K V E D L K A G D Y V Y L S S G V I Y T A R R D
UniRef90_F2J5X5 H L S D H V V K I D L T R P M P E A E L T R H P I K T R L S S G P L I V A R R D
UniRef90_R6NK13 M D R Y M Q A P L D K E E V K A L E A G D Y V Y I T T G T I Y T A R R D
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UniRef90_R5YTU2 M D R K I T A P F D K K I S Q E L K A G D Y V Y I T T G T I Y T A R R D
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UniRef90_F0SWL5 R V H P L T A E T Q A R E L K A G D K V L S S G V I Y T A R R D
UniRef90_R6HL72 A K I K H I T T P L T A E T I K R D L H A G D V V R I T T G P V I Y T A R R D
UniRef90_S0EYR2 R E L H I T T P L S E E D V R K L R V G D V V L L S S G V I Y T A R R D
UniRef90_I4BZB3 M E A K R I Q T P L Q R E E D V L H L R M G E R V F L T T G Y I Y T A R R D
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UniRef90_A0A059KIQ3 M I K T L T T P I K D E E D L E S L Q V G D V V Y L T T G T L V T C R R D
UniRef90_R6KMR7 M E K K I Y L T P I T E E D Q A N L K A G D N V L S S G I I Y T A R R D
UniRef90_K0G995 M S D K K I L T T P I K A E E D I L N I G D I Y L N G Y I V T C A R R D
UniRef90_L0K9H1 M A E V K L E T P V S E E E I R E L Q A G D K V L L S S G V V Y T A R R D
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UniRef90_T2GBV9 M A T Y H L N A P M T E E D V A M L K A G D V V Y L T T G I Y T A R R D
UniRef90_D3S0A5 L R T P L R E E D L L K L E V G E A V Y I S G E I I T A R R D
UniRef90_Q67L19 M A K H Y V T T P I S D E Q A K A I R S G D E V Y I T T G T I Y T A R R D
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UniRef90_J9HHV5 K H L Q T P L S S E E I I E E L K V G D Q V V L F T G R L L T A R R D
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UniRef90_UPI00046F991E M L M Q Y V L Q T P L Q K S D L A P L H A G D T V V L S S G V V Y T A R R D
UniRef90_D1PML8 M S P I R I T T P L N K E A V R D L R V G D V V L L S S G T I Y T A R R D
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UniRef90_I4D098 M G N V Y H I R L P A S R E D I E K L R V G D T V Y L T T G T I V T A R R D
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UniRef90_UPI000372AF8A H T S D T E K R I S A P L T D E I I K T L H A G E M V Y I T T G T I Y T A R R D
UniRef90_R5JH69 M E K H I N A P F D K E Q V K D L K A G D Y V Y I S S G T I Y S A R R D
UniRef90_G7LKM7 M N K V L T T P I K D E D V D I K A G D I Y V L N G L I Y T C A R R D
UniRef90_R5E3A4 M D K N I H V P F T K E E V V T L H A G D Y V Y L T T G T I Y S A R R D
UniRef90_U2KV75 E I K N T P F T Q E D I N S K L K A G D S V E I T T G I Y T A R R D
UniRef90_Q2NG69 M E Y E L N T P L N Q E D I N K L E A G D T V Y L T T G K I F T A R R D
UniRef90_E5Y4S6 M S E P I R L T T P L T Q D K V R S L H I G D R V L I S S G T I Y A A R R D
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UniRef90_D4IXT4	K L Y V E D F	P V I V V V D S E G N N S L Y E E	
UniRef90_W8T608	R I Y V E D F	P A V V V I D S K G D S L Y E E	
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UniRef90_R6NK13	K L E V E N F	P V I V V I D S K G R N S L Y D	
UniRef90_V7I7R6	E F E V V D F	P A T V I I D S R G E D L Y E E	
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UniRef90_UPI00037C1D8D	E L T V E N F	P L L V V N D S H G G E Q Y A K	
UniRef90_N1ZIG0	K L V V K D F	P V I V I I D S E G N N S L Y E E	
UniRef90_A0Q0H4	K I E V E G F	P A I V A N D I Y G N D L Y E E	
UniRef90_A0A011AC07	R L Y V E E M	P L V V V T D C K G N N S L Y E E	
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UniRef90_D5E6J5	E L E M D E F G	P L I V G I D I K G N D L F S N	
UniRef90_G7V7H2	K F T V R N F	P A L V V I D A H G N D L Y E E	
UniRef90_D6ZIJ9	K I D V E D F	P A F I V V D D K G N N F F E Q	
UniRef90_UPI00037F1EB2	K I D V V D F	P A F I V V D D K G N D F F A Q	
UniRef90_X1L5R4	R L E I E D F	P V T V I N D I Y G G D L Y E E	
UniRef90_U6S187	K L T V K D F	P V V V I N D A F G N D W Y K	
UniRef90_B6WYD9	A L E V E D F	P A I V V I D S T G D N Y Y E	
UniRef90_D2RKV4	T S E V E E L G	P L I V A V D T K G G N L F E E	
UniRef90_E1JUU7	E L T V E D F	P V L V I N D C H G G D L Y E	
UniRef90_L7VNA5	K L S V V N F	P L I V V I D R Y G N N M Y D	
UniRef90_R5JCE2	K L R V E D M M	L T V C I D S K G N N S L Y D N	
UniRef90_R5BGB2	T C R V K E F G	P L I V S I D T Y G N N W F E Q	
UniRef90_R5Q6B1	K L K V K N M	P L V V V I D H L G N D L Y E E	
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UniRef90_A8TM83

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UniRef90_K4EA83 G S F G P T T A G R M D P F V D L F Q A N G G S F V M L A K G N R S S R A V T Q A
UniRef90_H2CL44 G S F G P T T A G R M D S Y V P I F Q E K G Y S L I T L A K G N R S S K V V T E S
UniRef90_S6BAY6 G P A G P T T A T R M D K F T E L M L G Q T G L L G M I G K A E R G P E T I E S
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UniRef90_UPI000380C65E G S A G P T T S G R M D K Y A P V L L E Q G L A G M I G K G L R S A E V V I E A
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UniRef90_UPI000381EBC7	R I E V E D F F	P A F I V V D D K G N D F F K Q	
UniRef90_B2A0T2	R L E T V K N F	P V L V A N D T Y G N D L Y K Q	
UniRef90_UPI00039A2649	A L T V E N F	P C F V A N D I Y G N D L Y K Q	
UniRef90_UPI000365D59A	R I E V E N F	P A F I V I D D K G N D F Y D Q	
UniRef90_X15T6	R R L N V D N F	P A I V A N D T Y G N D L F E E Q	
UniRef90_C4GCC8	R I T V E A L	P L V V L I D C K G N N L Y E E	
UniRef90_E3GYW9	E L E V K D F G	P L I V A M D S H G G N L Y E E	
UniRef90_D4J4X1	K L E V E N L	P A I V V I D S E G S Y L Y E	
UniRef90_S3YNY0	R L E V V D F	P A I V A I D C E G N D F Y K	
UniRef90_D6SLX2	E L E V L D F	P L L V V N D A F G G E L Y	
UniRef90_C8VZ54	E L E V E D F	P L I V V N D T Y G G D L Y	
UniRef90_D3PCR4	V I E V E D F	P V V V T M D A H G N S L H K Q	
UniRef90_F8L6E8	R M K I K N F	P A I V V N D T F G G D L Y E E	
UniRef90_Q1ASG4	R L V V E D F	P A V V I N D L H G G D L Y E E	
UniRef90_S0F173	R L E V E N L	P L T V I I D C N G S N L Y E E	
UniRef90_B5JU14	E F V V E D M	P V T V A V D T Q G G S V H Q	
UniRef90_UPI00029A47C5	V L E V R D F	P L V V A I D A H G E S L Y R	
UniRef90_R1D0A0	K I E V E D F	P A F I V V D D K G N D F F A K	
UniRef90_F9DSP7	H L R V E D F T	A V V T M D S H G N S L H	
UniRef90_E6U2L6	K M M V V D F	P A I V V I D A Q G N N L Y E	
UniRef90_M4ZYX0	K I E V E N F	P A F V V V D D K G N D F Y A K	
UniRef90_B3S033	K V Q V E N F	P A F I V I D N K G N D F F K Q	
UniRef90_B1I425	E L T V V D F	P A V V I N D T H G G D L Y R E	
UniRef90_UPI00025551BD	V C R V K E F G	P L I V S I D T Y G D N L F E K	
UniRef90_F7XPQ3	E F Q V E E F G	P L I V G I D P E G N D L F E K	
UniRef90_K2R464	E L E V K D F G	P L I V T M D S T G G N L Y Q	
UniRef90_E8RAS5	K I E V V D F	P A F I L V D D K G N D F F K	
UniRef90_A7HZF5	R I T V E N F	P A I I A I D S Q G N N F Y K	
UniRef90_UPI000370AC65	E L K V E D F	P C I V A N D T Y G N D L Y K	
UniRef90_UPI0003825B6D	K I Q V E N F	P A F V V V D D K G N D F F	
UniRef90_B9YAS7	R L E V E D F	P V F V C F D S Q G N D L Y	
UniRef90_E1QIN7	R L E V A E M	P L F V V N D V Y G G D L Y E	
UniRef90_A2CIN0	K I E V E D F	P A F I V V D D K G N D M Y S K	
UniRef90_B6YRA9	K I E V Q N F	P A F I L V D D K G N D F F K Q	
UniRef90_C0EGZ7	R L E F T E F	P L I V A I D C Q G N N L F	
UniRef90_W7TSQ3	K I Q V V D F	P A F V V C D D K G N D F F A K	
UniRef90_R3W181	V S E V K E Y G	P L I V S I D T L G N N L F E N	
UniRef90_F7V0G2	R L R V E N Y	P C I V V I D A E G N N L F E Q	
UniRef90_X0PGF2	V C K I A D F G	P L V V A I D T T G A N L F E Q	
UniRef90_UPI000381DBB7	L T K V K D F	P C V V I N D M Y G G D L Y Q N	
UniRef90_U1YE14	H L Q V E G F A	A I V T M D S H G N S L H	
UniRef90_B1L7M7	V V E V E N F G	P T M V A I D S H G N N L F	
UniRef90_L0L0N0	E L E V E H F G	P L V V G I D A H G H D L F Q	
UniRef90_Q0AWH7	V M R V K K F G	P L I V S I D T R G N N L F E	
UniRef90_K2JWC6	R I E V V D F	P A F V I M D D K G N D F F	
UniRef90_C9RGE4	E L E V E N F G	P L I V S M D A H G R S V Y E N	
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UniRef90_E9BGP3	K I E V E N F	P A F I V V D D K G N D F F E Q	
UniRef90_F0TAW9	E L E V K D F G	P L I V T M D S Q G G N L Y D	
UniRef90_R5EJN8	E I D V V D F	P A F I L V D D K G N D F F K Q	
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UniRef90_M2Q2N9	R L L V E D M	P L T V V I D T L G N D L Y	
UniRef90_K1K1KW7	V M R V K E F G	P L I V S I D A H G G N L F E K	
UniRef90_I4CEX9	R L T I K E F	P A I V A V D S T G N D L Y	
UniRef90_Q1Q1J3	K L E V E N F	P A I V A N D T Y G N D L Y K	
UniRef90_K4EA83	K I E V E N F	P A F I V L D D K G N D F Y Q Q	
UniRef90_H2CL44	A I D V E D F	P A F I V V D D K G N D F F E	
UniRef90_S6BAY6	E F E V Q D M	P V T V A V D D S H G E S V H Q R	
UniRef90_J7TEV4	K M E V E G L	P A F I L V D D K G N N F F E Q	
UniRef90_Q0A5Y5	E F E V E D M	P V T V A V D D S R G E S V H E	
UniRef90_W0IYY9	K I D V V D F	P A F V L V D D K G N D F F V Q	
UniRef90_V7I9A1	V C Q V K E F G	P L I V S I D T K G N N I F E	
UniRef90_UPI00030F9EF3	R L E V V D Y	P C I V A I D S E G N N L Y Q	
UniRef90_A3JNF8	E F D V L D F	P V T V A V D A K G N S I H	
UniRef90_C9XMF7	K I V V E D L K	L T V A I D S Y G N N I Y E Q	
UniRef90_UPI000369B324	H L E V D G F A	A I V T M D S H G D S L H E Q	
UniRef90_W6RRL9	R M K V K D F	P V I V A I D S M G N N I Y Q	
UniRef90_F0LIV2	V L E V E R F	P L L V A I D A H G N S I Y K K	
UniRef90_E0NKM2	V F K A N K F G	P L V V G M D A E G N S V Y K N	
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G S F G P T T A G R M D S Y V D Q F Q S F G G S M V M L A K G N R S R V V R D A
D I V G P T T S I R M E A Y A D F V G R L G V R A L I G K G G M A E D T E R A
V C I G P T T S T R M D R F T P R L L A Q T G L G V R A I I G K G A G M M A S M E A
H A A G P T T S S R E E P Y Q A T I I K K F G I R A V V G K G G M G E K T L Q A
V T V G P T T S M R M E K F E E A F I K E T G L V R L I I G K G G E R S A G T M R G S
G P A G P T T S T R M D K F T P R L L A Q T G L F G M I G K K S E R G P V A V E S
G S A G P T T S S R M D K Y T P L L L S K G L K G M I G K G K R S S Q A V I D A
G S C G P T T S S R M D V Y A P R L L D E G L C M I G K G G R S E S V I D A
G S V G P T T A G R M D K Y S P L L I E Q G L R F M I G K G L R D Q T V I D K
G S F G P T T A G R M D S Y V G P F M E N G G S F I T L A K G N R S K Q V T N A
G S A G P T T S Y R M D S Y A P T L M D N G L K A M I G K G F R R N D V K R A
G S C G P T T S Y R M D A Y S P T M L S K G L R G M I G K G R R N D V K E A
G P A G P T T A T R M D S Y T E M M L A R T G L I G M I G K A E R G D A A I E Q
V A I G P T T S M R M E L F E K E F L D S G L V R L I I G K G G M G S P Q N T E A G
G S M G P T T G G R M D S Y V E L F I Q S H G G S L V M L A K G N R S K Q V T D A
V V I G P T T S T R M A K Y L E D I V D A G V K L I V G K G G M G P D A P E V
G A C G P T T S S R M D V Y A P R L L D K G V V A M V A K G G E R N K A V C D A
G A F G P T T A G R M D S Y V A D F Q A A G G S L I T V A K G N R S P A V R E A
G S F G P T T A G R M D P Y V G P F M A K G G S M I S L A K G N R S Q Q V T D A
G P A G P T T A T R M D K F T P F M L E K A G I M G M I G K S E R G Q A T I D S
V S V G P T T S M R M E K F E K E F V E Q T G V K V I V G K G G M G P N T E Y A
G P A G P T T S I R M D K Y T P V L M E K G L F G S I G K G A R S E E V I E S
V A V G P T T S M R M E M F E E E F I A R T G V R L I V G K G G M G E G T E A G
N V I G P T T S I R M E H A D V V G K M G I K A V I G K G G M G K G T L D A
G S F G P T T A G R M D A Y V D A F Q K A G G S M I M L A K G N R S N K V T R A
G A C G P T T S S R M D Y A P R L L D L G L G A M I A K G Q R S Q A V V D A
G S F G P T T A G R M D S Y A P F M A A G G S F V T L A K G N R S K V V T D A
A S I G P T T S M R M E L F E K E F I E E T G V K L I I G K G G M G P N T E A G
G S L G P T T A G R M D S Y V D Q L Q S Q G G S M I M L A K G N R S Q Q V T D A
G S C G P T T S G R M D A Y S P T M M E Q G L R G M I A K G P R N S K E V I E S
G S A G P T T S Y R M D A Y T P A L L A Q G V C A T I G K G K R S R E V R E A
V A I G P T T S A R M N E T E E D F I K I T N I S A I V G K G G M G K E L L D V
V S V G P T T S A R M N E Y E Y E F V K K T G V R L I V G K G G M G P E T A R A
G P A G P T T A T R M D K F T R Q M L E Q T G L L G M V G K A E R G P A A I E A
V S A G P T T S A R M N R Y L E G L L P L G V R G I I G K G G M N P A
V S I G P T T S A R M D I E E F I L K L T N I S A I I G K G G M K K E L L K I
G S F G P T T A G R M D S Y V D R F Q E A G G S L V M L A K G N R S K A V K D A
V S V G P T T S M R M E K F E Y E F I K Q T G V R L I V G K G G M G P G T V A G
I S A G P T T S A R M N E T T K E L L Y V E C I A V I G K G G M D V D
G S L G P T T A G R M D S Y V D L L Q S H G A S M V M L A K G N R S Q Q V T D A
G P A G P T T A T R M D K F T E D Q M L A Q T G L I G M V A K A E R G K T G L E A
G S F G P T T A G R M D S Y V D Q F Q S M G S L I M L A K G N R T Q A V T D A
I S I G P T T S R R M E Y Y E D E F I E K T G V K I I I G K G G M G K K T A D A
G S A G P T T S Y R M D D L T T P L L D R G L K L M I G K G K R N E T V I E S
G S A G P T T S Y R M D A Y S P T L L E L G L S G M I G K G P R N E L V I E S
G P A G P T T S T R M D K F T D M M L E E T G L M G M I G K A E R G P A T V D S
V A V G P T T S M R M N P Y Q S D V I D M G P K I V I G K G G M D D T V R K A
V S A G P T T S S R M E L F E D E F I E K F G I N L I I G K G G M G E R T E K A
G S A G P T T S S R M D S Y S L R L I A E G V K G M I G K G M R S Q A V K E A
G P A G P T T S T R M D M F T P L L A A S G L K I M I G K A E R G D R V A I D A
V V V G P T T S G R M N P F Q P E V I E M G V R A V I G K G G M D Q R T R N A
L S A G P T T S M R M D A Y A P L L Y D E G V V A T I G K G D R N E D V Y D A
G S F G P T T A S R M D Y V R Q F Q E A G G S M I M L A K G N R S K Q V K D S A
V A I G P T T S A R M N D L E P A V I G H G A A A I I G K G G M G P D V L J A A
V A A G P T T S M R M E S V I E P E F I E R T G V K M I I G K G G M G P R T A E A
G S C G P T T S Y R M D Y A P K L Y A L G L K A T I G K G R R S P E V I K A
G S A G P T T A S R M D K Y A P R L L D L G Q K A M I G K G K R T Q E V K E A
G S A G P T T A Y R M S K Y A P K L I A L G I K G F I G K G A V A D E T M E A
G S A G P T T A S R M D K Y A P R L L D L G Q K A M I G K G K R T R D E V I D A
G S C G P T T S S R M D V F S P K L L D M G L G A M I G K G P R S D E V C K A
G P A G P T T S T R M D K F T P Q L L A R T G L I G M I G K A E R G P A A T D A
G P A G P T T S T R M D K F T D Q V L E Q T G L F A M V G K A E R S P D A I E A
G S A G P T T S Y R M D A Y S D Q L L E L G L K V M I G K G R R S D D V I K A
G S F G P T T A G R M D A Y V D K F Q E N G G S M V M L A K G N R S K Q V K E A
G S F G P T T A G R M D P Y V V F Q A Q G G S M I M L A K G N R S Q Q V T D A
G S V G P T T A T R M D C Y T P T L L A Q G L K G V V A K G Y R S A E V T Q A
G S L G P T T G G R M D G Y V D A F Q A A G G S L V M L S K G N R S Q Q V T D A
G P A G P T T A S R M D P Y A P L L I D E R G L L G T V G K G L R S G T V R E A
G S A G P T T S G R M D A M S P R L L D L G N K I M I G K G K R D A A V K E A
G P A G P T T S T R M D K Y S D M M L K E T G L I G M I G K S E R G D A T I E S
G S C G P T T S S R M D V Y S P M L L D M G L S A M I A K G E R S Q A V C K A
G S L G P T T A G R M D S Y V D S F Q E G G S M V M L A K G N R S K Q V T D A
G P A G P T T A T R M D K F T R Q M L E Q T G L L G M I G K S E R G A A A C Q A
G P C G P T T S T R M D K F T G R M L G A T G V L G M I A K A E R G P A A V R A
G S F G P T T A G R M D K Y V D S F M R N G G S F V T L A K G N R S K Q V T R A
I S I G P T S S I R M D P Y T D M V G E M G V K L I I G K G M S D S T T E A

	130	140	150	160
UniRef90_C8WTN5	L	K	K	V
UniRef90_R5CDB8	R	N	E	A
UniRef90_K0YQG3	C	H	K	H
UniRef90_W5WGX2	C	K	T	H
UniRef90_E2ZHJ7	C	K	F	G
UniRef90_W4LB40	C	Q	G	Y
UniRef90_D1BP97	M	K	K	Y
UniRef90_V5BD96	C	K	Y	G
UniRef90_D8IDN9	I	K	Y	G
UniRef90_Q11MB4	I	R	H	G
UniRef90_G4E755	I	K	H	G
UniRef90_B1CBP0	L	K	N	G
UniRef90_F2KNNW7	L	R	G	R
UniRef90_D9QUX2	M	K	E	G
UniRef90_D8K411	M	K	Q	H
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UniRef90_UPI00047CE278	C	A	R	H
UniRef90_UPI0004635973	C	A	Q	Y
UniRef90_F6CMY1	M	K	Y	G
UniRef90_W2E590	L	S	D	N
UniRef90_C9KL19	C	R	N	K
UniRef90_E8LLI4	I	K	R	H
UniRef90_R5NTY6	I	K	E	K
UniRef90_R6HX28	L	K	N	N
UniRef90_UPI00036EDDBC	M	V	E	H
UniRef90_A9UZD6	C	K	A	N
UniRef90_R6GPW2	L	R	N	G
UniRef90_R7GLB9	M	K	Y	K
UniRef90_V4IL12	I	K	K	H
UniRef90_R7BYN4	C	K	A	H
UniRef90_UPI00047011E4	C	A	Q	H
UniRef90_Q8TZ53	M	K	D	R
UniRef90_R5X9M9	I	R	N	K
UniRef90_J6LCW8	C	K	Y	G
UniRef90_D8MAW7	C	K	Y	G
UniRef90_A4IW11	I	K	N	K
UniRef90_F4XFJ5	C	K	F	K
UniRef90_K2DFH5	I	K	N	K
UniRef90_F9EDR4	C	K	K	Y
UniRef90_C0CW47	C	E	K	Y
UniRef90_K8ECS0	C	K	E	N
UniRef90_A6NVR8	M	R	N	G
UniRef90_C9LE3	C	K	K	Y
UniRef90_R5QCX8	C	R	K	K
UniRef90_L5WYB3	C	K	K	H
UniRef90_N0AYP9	M	K	K	H
UniRef90_F8ACQ8	L	K	H	K
UniRef90_UPI0003697472	F	K	E	Y
UniRef90_D1BNL4	C	K	F	G
UniRef90_H1G667	I	K	D	N
UniRef90_G0HLZ3	F	K	G	R
UniRef90_UPI00037133EE	F	N	E	R
UniRef90_G5ZWT1	C	Q	K	H
UniRef90_U2S423	C	Q	F	G
UniRef90_D2RH23	F	R	G	K
UniRef90_R5WRH7	C	H	K	H
UniRef90_D5SCR84	I	K	K	H
UniRef90_UPI00047DD676	C	K	K	H
UniRef90_I0AOM5	C	K	H	K
UniRef90_T0D1Y0	M	K	N	K
UniRef90_D4W7F5	M	K	Q	N
UniRef90_R9PL26	I	K	H	Q
UniRef90_A5UL96	L	K	N	N
UniRef90_M7U4A0	L	K	Y	G
UniRef90_X1VKJ7	M	K	Y	K
UniRef90_UPI000360C4DB	I	R	E	H
UniRef90_D9PV29	L	K	K	G
UniRef90_R7BR81	L	K	N	G
UniRef90_UPI000050FA02	C	A	E	F
UniRef90_D1YVV8	L	R	N	G
UniRef90_V4JW39	M	K	F	K
UniRef90_A5D212	M	K	Y	K
UniRef90_S0IRW6	M	R	N	R
UniRef90_T0LF53	M	K	Y	K
UniRef90_R9JZD4	I	R	N	Q
UniRef90_R5MYX9	I	R	N	G
UniRef90_H8Z6S3	I	K	Q	H
UniRef90_UPI000262CF96	L	K	K	H
UniRef90_UPI0004643A48	M	K	F	K
UniRef90_UPI0003752E5F	C	K	K	Y
UniRef90_C0QLL5	C	K	K	F
UniRef90_B11607	M	R	E	H
UniRef90_B7LKN6	C	K	K	H
UniRef90_A0A023X5J2	M	R	E	H
UniRef90_R6R7S7	V	R	N	G
UniRef90_M1NAX0	I	R	Q	H
UniRef90_R5GQJ5	L	R	N	G
UniRef90_C3XPB8	C	K	K	H
UniRef90_L1NJX0	I	D	N	R
UniRef90_U3QQP2	I	A	E	N
UniRef90_D7FN31	C	K	E	H
UniRef90_F1T8U1	M	K	K	H

		170		180	
UniRef90_C8WTN5	H L E V D N F	P A I V T M D	A H G N S L	H K	
UniRef90_R5CDB8	K L T V E D F	P A I V V T D	S K G G N L	Y Q	
UniRef90_K0YQG3	K I E I E D F	P A F I V V D	D D K G N D	F F	
UniRef90_W5WYX2	K L E V K D F	P A F I I V D	D D K G N D	F F K	
UniRef90_E2ZHJ7	H C H V N E F G	P L I V S I D	A E G R N L	F E	
UniRef90_W4LB40	R I E V E D F	P A F I V V D	H Q G H D F	Y	
UniRef90_D1BP97	E L T V E D F	P C I V V G D	T E G N N F	Y E	
UniRef90_V5BD96	K I E V E D F	P A F I V T D	D K G H D F	Y S K	
UniRef90_D8IDN9	E L Y V E D M	L I V A I D S	T A N G E S		
UniRef90_Q11MB4	E F E V Q D D L	P V I V A V D	T A G T S	H D	
UniRef90_G4E755	E F E V Q D M	P V T V A V D	S R G E S V	H E K	
UniRef90_B1CBP0	E L Y V E G F	P C I V A L D	A K G N N L	Y K	
UniRef90_F2KNW7	V L E V E G F G	P C I V C M D	S R G G N L	Y R	
UniRef90_D9QUX2	R L E V E D L	P V L V V T D	A E G N S L	Y E	
UniRef90_D8K411	K M E L E R F	P A V V A L D	A E G N N L	F D	
UniRef90_E0IF81	H M Q T E G F A	A I L V T M D	S H G N S L	H A Q	
UniRef90_UPI00047CE278	K I D V V D F	P A F I V T D	D K G N D F	F	
UniRef90_UPI0004635973	D L E A D C F G	P L V V G L D	T K G N S L	Y R N	
UniRef90_F6CMY1	K F R V R D F G	P L I V A M D	S E G N N M	Y Y Q	
UniRef90_W2E590	H F E T E G F G	P A I V T M D	A H G N S L	H K	
UniRef90_C9KL19	T C K V K E F G	P L I V S I D	T H G H N L	F E	
UniRef90_E8LLI4	E F K V Q D M	P V T V A V D	S E G N N I	H	
UniRef90_R5NTY6	K M R V E N L	P V I V V I D	S E G H N L	Y E	
UniRef90_R6HX28	H L E F K D F	P L T V G I D	S R G G T M	F E K	
UniRef90_UPI00036EDDBC	K L E V K D F	P A I V A I D	S R G V N Y	Y D	
UniRef90_A9UZD6	E I D V E D F	P A F I V V D	D K G N D F	F Q	
UniRef90_R6GPW2	R I T V K D F	P V I V A I D	S Y G N D L	Y E K	
UniRef90_R7GLB9	R L V V E D L	P L T V V I D	S E G H D L	Y E	
UniRef90_V4IL12	E F E V V D M	P V T V A V D	S T G E S I	H K	
UniRef90_R7BYN4	C M K V K E F G	P L I V S I D	T E G R N L	A Q	
UniRef90_UPI00047011E4	K M N V K N F	P A F I L V D	D D K G H S	F D Q	
UniRef90_Q8TZ53	V L E V E E F G	P L I V T V D	A H G N E L		
UniRef90_R5X9M9	E L K F E D F	P L T V A V D	C S G G N V	F E R	
UniRef90_J6LCW8	R I E V E D F	P A F I V V D	D D K G N D	F F K	
UniRef90_D8MAW7	K I D V V D F	P A F L L V D	D D K G N N	F F D	
UniRef90_A4IW11	E F E V E D M	P V T V A V D	S L G V S A	H Q Q	
UniRef90_F4XFJ5	C C K V K E F G	P L I V S I D	S E G R N M	F E	
UniRef90_K2DFH5	R F K V Q D F	P A I V A I D	S N G N S I	L K	
UniRef90_F9EDR4	T F R V K Q F G	P L I V S L D	A H G D N L	F E Q	
UniRef90_C0CW47	D L E A V E F G	P L V V G M D	T H Q N S L	Y K N	
UniRef90_K8ECS0	K I D V V D F	P A F V V V D	D K G N D F	F K K	
UniRef90_A6NVR8	R M T V K D L	P L T V A I D	A Q G G N L	Y E	
UniRef90_C9ZLE3	R I E V V N F	P A F I I V D	D D K G N D	F Y A K	
UniRef90_R5QCX8	V M R V K K F G	P L I C S I D	T Q G R N L	F K Q	
UniRef90_L5WYB3	K I E V E D F	P A F I L V D	D D K G N D	F F Q Q	
UniRef90_N0AYP9	R M E V V N Y	P C I V A V D	C E G N D L	Y E	
UniRef90_F8ACQ8	E L R V E N F	P A V V I N D	L H G R D F	Y E	
UniRef90_UPI0003697472	E L E V K D F G	P L I V A M D	T H G N S L	Y D	
UniRef90_D1BNL4	T F K V K E F G	P L I V S I D	A D G N N Y	F E N	
UniRef90_H1G667	E F E V K D M	P V T V A V D	S R G T S V	H D	
UniRef90_G0HLZ3	V L E V E D F	P L L V A L D	A N G S S L	Y G R	
UniRef90_UPI00037133EE	K L R V K N F G	P L V V T M D	A N G N S L	Y E	
UniRef90_G5ZWT1	R I E V K D F	P A F I V T D	D K G N D F	F D	
UniRef90_U2S423	V N R V R D F G	P L I V S I D	T H G D N L	F E Q	
UniRef90_D2RH23	V F E V E K L	P C I V A I D	D F K G N N L	Y D	
UniRef90_R5WRH7	K I E V E D F	P A F I L V D	D D K G N D	F F Q Q	
UniRef90_D5CRB4	E F V V Q D M	P V T V A V D	V N G T S V	H E	
UniRef90_UPI00047DD676	K I R V E N F	P A F I I V D	D D K G N D	F F S K	
UniRef90_I0AOM5	I L K V K E F G	P L I V S I D	T R G N N L		
UniRef90_T0D1Y0	K L E V E D L L	V I V A L D	C Y G N N I	Y E	
UniRef90_D4W7F5	R L Y V E D F	P V I V A T D	C K G N S L	Y	
UniRef90_R9PL26	E F E V E D M	P V T V A V D	A D G N S A	H Q Q	
UniRef90_A5UL96	N L K V K D F G	P L I V A M D	S E G N S L	Y D K	
UniRef90_M7U4A0	I F K V K E F G	P M V V A M D	S H G K S I	Y R K	
UniRef90_X1VKJ7	R L E V E D F	P A T V V N D	I Y G G D L	Y Q	
UniRef90_UPI000360C4DB	Q I E V R D M	P V I V G V D	S R G N S I	H E	
UniRef90_D9PV29	E L E V E D F G	P L I V A M D	S D G R S L	Y E	
UniRef90_R7BR81	E F Q V E D F	P C V V A I D	A K G N G L	Y E	
UniRef90_UPI000050FA02	R I T V E D F	P A F I I T D	D D K G N D	F F D N	
UniRef90_D1YVV8	V L E V E N F G	P L T V T M D	A H M G D L	Y E	
UniRef90_V4JW39	V F E V E E F G	P L T I T I D	S T G A N Y	Y E	
UniRef90_A5D2I2	E L V V E D L	P V I V V N D	T L G G D L	Y D	
UniRef90_S0IRW6	K L E V E N F	P V I V V I D	S E G N N L	Y D	
UniRef90_T0LF53	K F E V V D M	P V I V A Q D	C W G G N L	F	
UniRef90_R9JZD4	K L E V E N F	P V I V V I D	S E G N N L	Y E	
UniRef90_R5MYX9	K L E F C E F	P L T V A I D	C H G G N L	F K	
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UniRef90_R5GQJ5	K L H F E K F	P L I V T I D	C Y G G N L	F K	
UniRef90_C3XPB8	R V E V E N F	P A F I V V D	N K G N D F	F K	
UniRef90_L1NJX0	E F E V K D M	P V T V A V D	S Q G Q S V	H	
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S E R E A K T L H T P L S R E E D L L E D I H A G D V L F L D N G H I V T C A R D
V E I N L D E G M D R K K T L S Q Y P V T T A L S L N T G T I V V A R D
L S E A V V A V D L D E R P M D R A Q L S Q Y P V A T R L S L T G T I V V A R D
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M E H R L R T P V S A E T A R S L H A G D T V F L T G T M I T A R D
M E Y H E K T P I T D A R K Y K V G D V I Y I T G E V I L A R D
I D V L K T P I H S D D V K K S L K V G D V I T I T G T I Y T A R D
M S K I V N V P I T S K E K A R S L V A G E K L L L N G T I Y T A R D
E L K A P L S N E T V N R L R V G D L V K V S G T V Y T A R D
E A D D S V R R V N L D T L V S Q S D L E Q W Q P G D T L L L S G K M L T G R D
S L S A D A R R V N L D T L T K E E T A T W R A G E T L L L S G K M L T G R D
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I A H A K L L K E E M L D A G G E P L P Q Y L R K D R I V Y Y A G P A K T P D G G H A S			
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E A H K K L L E E E G A P P F D L L D G K V L F H A G P I V V K K N D G G W K V			
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A A H R R L C A A G K G E E L P P F F I F Y A G P A P A R P P G G Q T Y S I T			
A A H K K M V D M L A K G E E L P P V D L L K G R F I Y Y V G P V D P V R D G E V V			
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L A H Q M L D N Y L T D A H G F P E Y F K H H P I Y Y A G P A K T P P E G Y A S			
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D G H R R V V D L L A K G G E K L P V D V L K D K A I Y Y A G P I I K P N N Q Y K M			
A F H H Y I M H H D L P E D L R G G T I Y H C G P V M L K N N G E Y T V			
A A H K R I K D M L A K G E E L P V D F K S G R V I Y Y V G P V D P V R D G K W S V			
A L H K Y L M D H D A P V D L S G G V L Y H C G P V M L K N N G E Y T V			
V A H R R V V E E G R E I P V D V R D A A I L H A G P I I R P E D D H Y Q M			
I A H A K L L K E R L D D K G E D M P E Y F K N H P V Y Y A G P A K T P P E G Y A C C			
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UniRef90_R9SM87	MKKKGA	VYVTAI	GGGAGAYL	LSAKKCV
UniRef90_F2JPF4	MKYGA	VYVTAI	GGGAGAYL	LSAKKCV
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UniRef90_E1SS15	IKRNS	HSYFA	ALGGG	AAAYLV
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UniRef90_E3C998	LKHGA	VYVTAI	GGGAGAYL	LSAKKCV
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UniRef90_A3W116	E I E V K D M	P V T V A V D T K G A S I H	
UniRef90_Q0W346	V L E V E D F G	P L T V T M D A H L H D L Y Q	
UniRef90_L0HJU0	V F R V E E F G	P L V V T M D S H G N S I Y D	
UniRef90_R9SM87	E L K V D S F G	P L I V A M D S Q G K S L Y D E	
UniRef90_F2JPF4	K L E V E G L	P V I V T I D S R G G N L Y E	
UniRef90_D7CIS0	R L E V E G L	P C V V A I D S R G G N L Y H K	
UniRef90_UPI0003741345	E F E V D M	P V T V A V D T E G Q S V H K	
UniRef90_W1L7K9	E F E V D M	P V T M A V D V T G E S I H K	
UniRef90_X1IG22	R L E V E D F		
UniRef90_H5TA37	E F D V D M	P V T V A V D S T G A N V H E	
UniRef90_Q2Y4R4	V L E M R D F G	P L I V G I D S H G R N L F D	
UniRef90_L8Y3P3	E F T V E N M	P V T V A V D S S K G Q S V H K K	
UniRef90_E1YAB2	M I T V K D F	P A F I I V D D K G N D F F E K	
UniRef90_Q2LYF3	R L V V F E L	P L V V I N D T R G R D L Y D	
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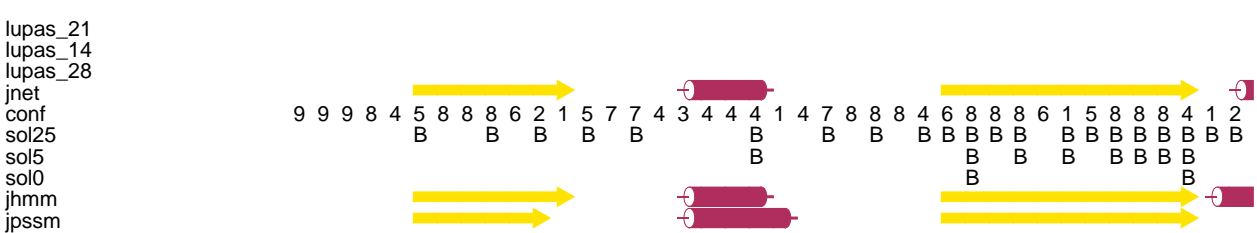
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UniRef90_F6CLI2      E V E V E K F P A I V A I A H G E S I Y D
UniRef90_F6D1W3      K I Q V E N F P A F I L V D D K G N D F F K Q
UniRef90_R9SJG1      E L E V K D Y P M I I A A A H N Q S I Y
UniRef90_W4UW68      Q I E V K D F P G I V A V A H G E S I Y
UniRef90_UPI0003C17EF6
UniRef90_N9V/NQ2      R L N V E G F P A I V A N D I Y G E D L F E Q
UniRef90_I8S9P1      R I K V K D F P C I V I N D M Y G G D L Y Q
UniRef90_X0TX1       E L E V V E F P A I V A I A H G Q S I F K
UniRef90_A0A011A7K8  A L E V S R L P C I V A S A H G K T I Y
UniRef90_R5MGF7      E L K V K E F P A I I G A A H N R S I Y
UniRef90_R5KYF0      T L N V F E Y P A I I A A A H G K S I Y
UniRef90_K2QZIO      E L R V E G I P G I V A A A G R S V H D
UniRef90_I2CRB8      V I E V K D F P V F V T M D A H N H S L H
UniRef90_I0N6V0      R L E V E D F P A T V V N D I Y G G D L Y Q
UniRef90_X1NKR8      E L V V K E Y P A M I G A A H D K S I Y
UniRef90_X1KHS0      R L E I E N F P L L V T N D T Q G G D L Y E Q
UniRef90_X1K7J2      L I D V E E F G P F I V E S D F E G N S L F E R
UniRef90_T1C2S8      K L K V E G I P G I V A V A N G K S L F
UniRef90_F7NJU3      E I T V K D F P A I V A V A D G E S V F S N
UniRef90_F0T912      Q L R V E G F P C I V A A A H G K S I F D
UniRef90_X0XJC0      K I R V E D F P A F I L V D D K G N D F F K K
UniRef90_UPI0003758907  E F E V E D M P V T V A V D S S G E A V H K
UniRef90_UPI000476DB27  E F D V K D M P V T V A V A A D G E N V H
UniRef90_D9PXY0      E I T V T D F P A I V A V A D G E S I F
UniRef90_X0RIN6      E F D V Q D M P V T V A V D S E G Q N V H
UniRef90_X1RHX1      E F E V K D M P V T V A V D S T G E S V H
UniRef90_G5HH73      H C H V K E F G P L I V S I D S Y G K N Y F E
UniRef90_B9TBQ2      K L Y F D R F R V I V G I D T E G N V L Q K Q
UniRef90_I3U957      L I N V K E F P F Y V
UniRef90_UPI000262D031  L A E V Q D F P F Y V C V G G D V
UniRef90_E3GX94      E I E V Q D L M L R V V I D S E G N
UniRef90_D3AJW5      E V E V E D L L M R V T I D S R G

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