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I E K R G G G L Q N V V E K F Q N G G G L I L D Q I G S M L G N S Q G G L L Q A A N T L L N D N G G G V V A G L V E K F Q N G G G L I L G S I L A S S V L S G N N Q A T Q L I Q N L L A S Q Q G G I E G L I A K F Q Q G G L S L L G N A A G G Q Q G A Q L A A V V Q G L I G D S Q Q G G I Q G L I A Q K F L Q E G G L L F D S V L G N I L G G G A N G G K A I M Q W V E Q Q G G G L Q A I L D K F R Q Q G G L L F D Q L G T L L N G E G S G P L A A V S D L I E Q Q G G G I G G L V S R F Q E G G L L L D T L G S L V G G G Q Q A L V S A A L E F V N N P P G G G L N G L I E E R F K E K E Q G G G S N V A S L A T D L L Q R E G G V V A G L V E R F Q N G G L L L D Q L A G G Q V L G A S S A L T G V M G L I D S A G G G L P P G L L R K L Q E S S L K A I A G G V I G D N P M L Q V V M G L M N N S Q Q G G I S G L L D K F Q Q G G L L G D I L A S V L G G Q A A L M P M V L S W I K R N G G G L S G A L S K I I T D M G L K A I V G G A I G A E A L T L I K G Y V E K E G G G L D A V V K K F E T G L V D K V S S A L L G V D L H E K L I S G Q I Q T L L Q P P E M I Q N I V A K A D E A L L D S L G S M L G G G Q A A L I G A A L E F I I N Q P P G G L N G L I Q R F Q Q G G L S A L G Q L G A A V L P V V M S E V G G Q Q G G G L N A I V A K I L Q Q A G A A V S G G D H Q L E S V I G L I T D P P G G V V S G L L V D K I I A A G I L G S I A S S V L S G G N G A L Q I Q A L L Q S Q Q G G V V E G V I A K L L Q Q G G L F D S I A G S V M N K M A G M I Q A G L E L M N K C G P Q G V L D K I L R A N S Q S D L L S G V M G L I N N A G G G L P P G L L Q K L Q E S F F D D I I G N M L G G A G G E Q Q A N L G G I M E D A G G V V N G L I E E K F K A G A G G N S Q S A L I A T A L E F I N Q P P G G L H S G L L E R F Q Q A L L A A A L E F V N Q P P G G L N G L I E E K F R Q G G G P E G L D G L I D R F R R G G L D E L V S K A T G G Q E G L L G G V M E M L G G Q Q G G L G N L V Q N F K D K F L D E L A G A L D G N Q S G Q L Q A V W H W V Q E Q Q G G G I E V L L L Q K F Q Q G G L L D S L G G S L G Q M A L K A L P G I I Q Q V L P P G G L N A I L D Q L R R S H L L N S V L G N I L G G A S S K Y A A I M Q W V E Q Q G G G I M G L I Q R F Q Q H G G L N S Q S A L I T T A L E F I N Q P P G G L N G L I E E K F K A G F F D N L G G M L G G G L L G G L M S D A F S E F G G G L D G V V T K L N D A G L G S L S A L P V I L S V I N Q Q G G G L G N L I N Q L Q Q G G L Q M L G G K D G S Q G S L T D M A M D L V K Q H G G V V S G A L S K I I Q Q M G D I L G S V L G G Q A A L M P M V L S W I Q R N G G G L G A A L S K I I T G M G G D I L R Q F Q E S I F N D V M G K L S E G L S Q Q V H A Y L S Q L L T P D T I I N N L L A Q A E Q A L V D K L L G G A L G V D L H A K L N E E L G S L L Q P D T I I R D L V A K A D E Q A L L D D L V V G S L T G G Q Q G Q L Q A V W N W V Q E Q Q G G V E V L I Q K F Q Q G G L A S L L P I V L N W I Q R N G G G L S G A L S K I I Q Q M G D I L G S V L G G Q A A L M P M V L S W I Q R N G G G L G A A L S K I I T G M G G D I L R Q F Q E S L G S I L G S V L G G N A A L M P I A L N W I Q R N G G G L S G A L N K I Q E M E L V D R 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G|L|G|D|I|V|S|S|W|V|G|T|G|E|N|Q|P|V|P|N|A|D|Q|I|N|N|A|L|G|S|E|T|I|Q|N|L|A|E|K|A|
G|L|D|D|V|L|R|T|W|I|S|S|D|D|E|D|N|A|P|V|P|S|G|E|Q|I|S|N|N|V|F|G|Q|E|N|I|Q|N|V|A|Q|E|A|
G|L|G|E|Q|L|K|S|W|L|G|N|G|Q|N|L|P|I|P|T|A|E|Q|I|Q|Q|V|L|G|S|S|Q|I|A|A|L|A|G|K|F|
G|Y|G|D|K|V|K|S|W|I|G|T|G|P|N|M|P|I|P|T|A|E|Q|I|Q|Q|V|L|G|S|S|Q|I|A|A|L|A|N|Q|L|A|E|K|F|
G|L|G|E|I|V|S|S|W|V|G|T|G|D|N|L|P|I|P|T|P|E|Q|I|Q|S|V|L|G|S|S|Q|I|A|A|L|A|N|Q|L|A|E|K|F|
G|L|G|D|I|I|S|S|W|I|G|K|G|P|N|A|P|P|I|P|S|P|N|Q|I|V|K|E|G|L|G|N|E|R|M|Q|Q|L|A|T|Q|A|
G|L|G|D|I|V|S|S|W|V|G|T|G|E|N|Q|P|V|P|N|A|D|Q|I|N|N|A|L|G|S|E|T|I|Q|N|L|A|E|K|A|
G|L|D|D|V|L|R|T|W|I|S|S|D|D|E|D|N|A|P|V|P|S|G|E|Q|I|S|N|N|V|F|G|Q|E|N|I|Q|N|V|A|Q|E|A|
G|L|G|E|Q|L|K|S|W|L|G|N|G|Q|N|L|P|I|P|T|A|E|Q|I|Q|Q|V|L|G|S|S|Q|I|A|A|L|A|N|Q|L|A|E|K|F|
Q|F|G|D|I|V|G|S|W|L|G|N|G|E|N|Q|P|I|P|T|G|D|H|V|P|Q|Q|A|L|G|S|S|D|A|I|N|Q|L|A|E|K|F|
G|L|S|E|I|V|S|S|W|V|S|T|G|Q|D|N|L|P|I|P|S|A|E|Q|I|Q|Q|V|I|Q|Q|V|I|G|Q|G|K|I|A|D|I|A|N|Q|L|A|E|K|F|
G|L|G|D|V|V|T|S|W|V|S|N|G|E|N|Q|P|I|P|S|A|D|T|L|H|S|V|L|G|S|E|T|V|T|N|L|A|A|K|A|
G|A|G|E|I|I|G|S|W|V|G|N|G|E|N|Q|P|I|P|S|P|D|T|L|H|S|V|L|G|T|D|A|I|T|A|I|A|S|K|V|
G|L|A|E|V|A|Q|S|W|V|G|T|G|G|N|L|P|I|P|S|P|E|Q|I|Q|S|V|L|G|S|D|V|V|R|Q|I|A|R|Q|A|
G|L|G|D|Q|V|A|S|W|V|G|V|G|A|N|Q|S|V|P|S|G|E|Q|I|K|D|A|L|G|A|D|A|V|G|Q|I|A|R|Q|A|
G|L|G|K|Q|I|H|S|W|V|G|L|G|P|N|E|K|S|E|M|D|I|S|K|V|I|N|A|D|K|L|M|E|I|A|K|N|A|
G|L|G|D|L|V|Q|S|W|V|G|T|G|S|N|L|P|I|P|S|P|D|T|L|H|S|V|L|G|T|D|A|I|T|A|I|A|S|K|V|
G|Y|E|K|Q|A|R|S|W|L|S|N|N|E|L|D|N|L|D|P|N|D|I|N|R|L|F|N|D|S|E|I|Q|Q|V|A|A|H|T|
G|Y|K|K|Q|V|E|S|W|V|S|T|G|Q|N|Q|A|I|S|A|E|P|V|Q|G|Q|A|L|G|I|K|E|K|I|K|K|L|A|D|A|A|
G|L|G|D|K|V|S|W|I|G|K|G|D|N|L|P|I|P|T|P|D|E|I|R|Q|I|L|G|N|S|E|V|Q|A|L|V|S|R|T|
G|A|G|D|V|I|S|S|W|V|G|T|G|E|N|Q|P|I|P|A|A|D|T|L|H|N|P|G|S|E|A|V|S|N|I|A|A|K|V|
G|F|G|E|Q|V|K|S|W|I|G|T|G|Q|N|L|P|I|P|T|A|D|Q|I|R|Q|V|L|G|N|D|T|V|R|Q|I|A|A|K|Y|
G|L|G|D|Q|V|A|S|W|V|S|T|G|N|N|L|P|I|P|T|A|E|Q|I|Q|K|V|L|G|Y|S|F|V|Q|N|L|A|Q|K|M|
G|L|D|D|L|L|K|T|W|I|S|S|D|D|E|D|N|A|P|V|P|S|G|E|Q|I|Q|A|N|V|F|G|Q|E|N|L|Q|A|A|Q|E|A|
G|L|D|A|E|V|E|S|W|L|G|S|G|N|N|L|P|I|P|N|L|Q|Q|V|I|Q|L|Q|Q|V|I|G|F|T|E|L|I|Q|S|M|A|T|Q|F|
G|L|G|D|Q|V|A|S|W|V|G|T|G|G|N|N|L|P|I|P|S|G|E|Q|I|Q|A|N|V|F|G|Q|E|N|L|Q|A|A|Q|E|A|
G|L|G|D|Q|V|A|S|W|V|G|T|G|G|N|N|L|P|I|P|S|P|E|Q|I|Q|Q|V|I|Q|Q|V|I|G|Q|G|K|I|A|D|I|A|N|Q|L|A|E|K|F|
G|L|G|D|I|I|G|S|W|V|S|T|G|Q|N|L|P|I|P|S|P|D|T|L|H|N|P|G|S|D|A|I|G|A|L|I|G|A|L|A|S|K|V|
G|L|G|D|Q|V|A|S|W|V|G|T|G|G|N|N|L|P|I|P|S|P|D|T|L|H|N|P|G|S|D|A|I|G|A|L|I|G|A|L|A|S|K|V|
G|L|G|D|Q|V|A|S|W|V|G|H|G|P|N|Q|P|I|P|Q|P|Q|Q|V|I|Q|Q|V|I|G|F|T|E|L|I|Q|S|M|A|T|Q|F|
G|L|G|D|V|I|E|S|W|I|G|P|G|P|N|R|H|I|Q|P|Q|Q|L|I|Q|Q|A|L|G|P|D|T|V|T|S|L|A|N|K|A|
G|L|G|D|V|I|E|S|W|I|G|P|G|P|N|R|H|I|Q|P|Q|Q|L|I|Q|Q|A|L|G|P|D|T|V|T|S|L|A|N|K|A|
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G|L|G|D|V|I|E|S|W|I|G|P|G|P|N|R|H|I|Q|P|Q|Q|L|I|Q|Q|A|L|G|P|D|T|V|T|S|L|A|E|K|F|
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G|L|G|D|Q|V|A|S|W|V|G|T|G|G|S|N|R|P|I|P|V|Q|R|E|Q|I|V|E|K|A|I|D|P|Q|T|L|N|D|L|A|E|Q|T|
G|Y|E|S|Q|V|N|S|W|V|G|R|G|P|N|E|P|I|P|T|A|D|D|L|V|R|R|V|L|D|N|E|Q|V|R|Q|M|A|Q|K|L|
G|A|G|D|V|V|Q|S|W|I|G|T|G|E|N|K|P|I|P|S|P|D|T|L|T|N|V|L|G|Q|D|N|V|G|A|L|A|Q|K|A|
Q|F|G|D|V|V|G|S|W|V|G|L|G|S|N|G|Q|K|N|Q|P|I|P|S|G|D|H|V|P|T|Q|V|L|G|S|D|A|I|N|Q|L|A|E|K|L|
G|A|G|D|V|I|G|S|W|V|G|T|G|Q|K|N|Q|P|I|P|S|P|D|A|L|Q|N|V|L|G|S|D|A|I|G|A|L|A|S|K|F|
G|L|G|D|V|I|G|S|W|V|G|T|G|Q|K|N|Q|P|I|P|T|P|D|E|I|R|S|A|L|S|N|E|Y|L|V|S|L|A|Q|K|F|
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G|F|A|D|Q|A|Q|S|W|I|S|T|D|T|E|N|Q|N|L|P|I|P|D|P|N|Q|I|V|N|K|L|F|D|D|K|E|I|E|H|V|C|Q|H|T|
G|H|D|D|N|Q|V|R|S|W|M|S|S|N|E|V|N|D|N|L|D|P|N|E|I|V|N|Q|L|F|D|D|K|E|I|Q|Q|V|A|A|Q|T|
G|H|S|D|T|A|N|S|W|V|G|K|G|Q|N|Q|P|I|P|S|P|G|D|L|A|N|A|L|G|A|D|D|I|D|Q|D|I|D|Q|S|
G|L|G|D|K|V|S|W|I|G|T|G|G|H|N|L|P|I|P|S|T|D|E|I|R|T|L|L|G|S|S|Q|V|L|Q|Q|A|L|D|R|T|
G|L|G|D|R|V|I|R|S|W|I|G|S|G|D|N|L|P|I|P|S|A|D|E|I|R|N|V|L|G|S|S|Q|V|L|Q|Q|D|L|V|A|R|T|
G|L|G|E|L|L|S|T|W|L|S|N|G|A|N|Q|S|V|V|S|S|D|D|I|V|K|S|A|L|S|S|Q|D|L|E|S|L|A|R|R|L|
G|L|E|R|Q|L|R|S|W|I|G|T|G|D|N|L|E|M|P|C|A|V|R|E|A|L|G|E|K|A|Y|H|R|L|V|V|Q|T|T|
G|F|G|N|Q|A|Q|S|W|M|S|T|Q|Q|N|E|V|N|D|P|N|Q|I|V|N|K|L|F|D|E|Q|E|H|H|V|V|Q|T|T|
G|H|G|E|A|A|D|S|W|V|R|Q|G|P|N|Q|E|P|A|P|Q|H|Q|L|Q|Q|A|I|G|P|E|V|L|D|T|L|A|R|Q|T|
G|H|G|E|A|A|S|S|W|V|N|Q|G|P|N|K|E|I|A|P|Q|H|L|E|Q|Q|A|I|G|P|D|I|L|A|Q|Q|T|
G|H|G|D|E|A|R|S|W|V|G|S|G|P|N|K|E|I|V|S|P|P|Q|L|R|E|A|I|G|P|E|V|L|D|T|L|E|K|T|
G|L|G|E|V|S|Q|W|I|G|T|G|G|H|N|L|P|I|V|S|A|E|Q|I|Q|G|A|I|G|A|D|D|I|D|Q|D|I|D|Q|S|
G|L|G|D|Q|V|K|S|W|I|G|N|G|Q|N|L|P|I|V|T|A|D|Q|V|I|S|Q|V|L|G|N|D|T|V|R|Q|I|A|A|R|Y|
G|L|G|D|A|A|D|S|W|V|G|R|G|E|N|K|Q|P|I|G|P|N|D|L|A|N|A|L|G|A|D|R|L|E|M|L|T|Q|Q|T|
G|L|G|D|F|N|S|W|V|N|K|G|E|N|R|E|S|P|D|Q|V|D|T|A|L|G|E|A|T|V|D|T|I|A|R|R|L|
G|F|G|D|Q|V|K|S|W|I|G|N|G|Q|N|L|P|I|V|S|A|D|Q|V|R|A|V|L|G|N|D|T|V|R|Q|I|A|A|R|Y|
G|H|G|D|A|A|N|S|W|V|S|P|G|P|N|R|Q|I|A|P|N|D|L|A|T|A|L|G|A|D|Q|I|D|S|L|T|S|Q|T|

QUERY	90	100	110	120
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UniRef90_B4EWC4	G L E P Q A T S E M I A K Y L P P Q L V D S A T P N G E V P E N L D L D L A S I G M N			
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UniRef90UPI0004637858	G I D M H A A S A M V A Q H L P P K L I D A L S P P Q G E L E A N N D L L K T G M T			
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 UniRef90_U1H7M7 G L G D Q V K S W I G T G Q N L P I T A D Q L Q V L G S D T V K Q L A A R F
 UniRef90_UPI000429E148 G L G D Q V A S W I G T G A N Q P I S A E H V Q A A L G S D Q L Q Q L A G Q L
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 UniRef90_B9YY42 G L G D V V S W V G S G A N L A V S P E Q I Q A V L G N E Q L A G L A Q S L
 UniRef90_UPI0003612B59 G L G D V I A S W L G S G P N L P I S G D Q I K A V F G A E Q I V G G V A Q Q V
 UniRef90_UPI0003499318 G A G G G I Q S W I S N G E N Q P I S S S Q L Q N V L G S D A V S G L I A R N T
 UniRef90_W0N5B9 G H G D K I D S W V K P G Q N A D I N D G Q L A E A L G P D V L N E I A R N T
 UniRef90_B3QAF1 G L G D A A N S W I G H G P N Q Q I G P S D L A N A L G A D Q L D A M T R Q T
 UniRef90_C7Q6V5 S I G E Q V Q S W I G K G E N K P P V N A D Q L T Q A I G Q D K M D Q I A H Q A
 UniRef90_UPI00041FA8DA G L G D Q V K S W I G T G Q N P P V S A Q Q L Q E V L G N D L V R Q I A V R F
 UniRef90_UPI000475E923 G M D N H V N S W Q P G Q A N Q P I S P D Q A Q G L G S G V I D S I A Q R T
 UniRef90_A0A023XB85 G Q G D A A Q S W I N Q G P N R E V T P P E L Q Q A I G P D V L Q K L E Q Q T
 UniRef90_N9N0N2 G L T N Q V Q S W V D P N Q P N N D I P T Q N M Q S L F D D Q D V E Q V A Q Q T
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 UniRef90_H8DRN0 E Y S E V V N S W L G N E E N V A L S R D M V Q K M I H S E A I E Q L A A R M
 UniRef90_UPI000376FF37 G H G E K A E S W I S P S S N A P I D G G Q L G E A L G P D I L N E L A A K T
 UniRef90_UPI00036AF951 G L G H Q V A S W I G T G D N I P I T A D Q I R A A L S S E Q L R G L A S K L
 UniRef90_F5Y6B4 G Y G Q H A S S W V S T G E N Q A L D P Q A V G D V V G Q E E L S R L S Q Q L
 UniRef90_L0D5Z0 G L G D V M S S W V G K G A N L P V S G E Q I Q Q A L G S D V V Q N L A A K I
 UniRef90_F7QGF2 G H T E T A N S W V A N G P N K Q I T P G D L A S A L G A D Q I N T L S S Q T
 UniRef90_V4NT11 G L G D I V Q S W V S N G G A N L P V S P E Q I Q A V L G S E Q V T K V A S A L
 UniRef90_F4QXL6 G L G D V A A S W I G K G G N A A I S P E Q I A A V I G S G P I A D F A Q K L
 UniRef90_UPI0003490A85 G L G D A V Q S W V G T G A N Q P V S P G Q L Q G A L G N G V I E S M A S K L
 UniRef90_Q1QQU6 G H G E T A N S W V N P G P N K Q I A P R D L A D A L G A D Q I N A L T A Q T
 UniRef90_N9A5T2 G L G T Q V Q S W V D P Q T T N N H D V A K E Q V E Q L F D D Q E V E Q V A Q Q T
 UniRef90_F7QP78 G L G D Q V T S W I G N S A N L P V S A H Q I Q E V L G S D V V K Q L A T R F
 UniRef90_A0A024K725 G Q Q E T A D S W V T P G V P T Q G L S T D Q V E T A L G R D T L T A L A Q K A
 UniRef90_D8P8X0 G L G D I V N S W V G T G K N L P I S A E Q I Q Q G L G G D L L K Q L A S Q A
 UniRef90_N9KZB1 G L S S Q V D D W V S T G G E N A N V D P Q Q V Q N L F D D E E V E Q V A Q Q T
 UniRef90_V4Q1N1 G A G E L V Q S W I S S G A N L P V S A D Q L L Q A V L G S D V V Q Q L A G Q F
 UniRef90_D7A3N9 G H D E A D S W V G T G E N R E I D D R N L E H A I G P D V L E T L A Q Q T
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 UniRef90_D4E4K9 Q L G D I V G S W L G N G D N Q S I S G D H V Q Q A L G S D A I A Q L A E K L
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 UniRef90_B4VCJ8 G L T D Q A Q S W I G K G D N Q P V S G A Q I A E A L P D A T L Q K V I A E Q T
 UniRef90_UPI0003B634E3 G L G E V I A S W M G T D A N L P V S P D E I R S I L S N Q Q V Q A M V D R T
 UniRef90_A9HRJ8 G L G D K V R S W I G N G Q N L P V S P D E I R S I L S N Q Q V Q A M V D R T
 UniRef90_G6YDH0 G V G S K V D S W V S T G P N E P I E P K D V E T A I D D D T L T A L S M Q T
 UniRef90_B2VF04 G L G G L A E S W I G S G E N Q P V V A T S Q L Q S A F G H S E L Q S L A D K L
 UniRef90_D9VPN2 G L G D Q A Q S W I G T G E N Q P V S G S Q I K E A L D D D A L Q Q A A R Q A
 UniRef90_UPI00041F93F7 G H A E K A K N S W V G S G Q N Q P I S P G D I S S A L G A D Q I G L L S S Q S
 UniRef90_N8ZRJ7 G L G Q V Q S W V D P N Q S N T E A A T S Q I Q S L F N T Q E V E Q V A Q Q A
 UniRef90_W6WF81 G H G E T A S S W V R P G P N T E I D N R Q L S E A L G P E V L E D L S A R T
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 UniRef90_K7SX00 G L E D K I H S W I G N G E N L P I T A D E L R N L L T D Q Q V Q M L V S K T T
 UniRef90_R4WYP5 G A G D V V Q S W I G T G E N Q P I S P G T L T N V L G Q D A V V G A L A Q K A
 UniRef90_A0A037YN75 G L G A I L S T W L S N Q Q G N Q S V S G E Q L E S A L G T N A V S D L L G Q K L
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 UniRef90_C7QCU1 G L G S Q A K S W V S T E Q P N Q P V S G E Q L T Q A L G T E Q I S Q F A N T L
 UniRef90_F8JJC0 G F G D Q V Q S W F D K N K D S L P I T P D Q I K T A L G D E H V Q Q L A A K S L
 UniRef90_I0IIA8 G L G E Q V K T W L G D G P N A S V S A G E L E A A L G S E E K I Q Q L A A K F
 UniRef90_UPI00035CB643 G H G D K I D S W V Q P G Q N A D I S D G Q L A E A L G P D V L N E I A S N T
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 UniRef90_J2LMY9 G L G Q V L N T W I G S G D N Q S I G G G D I Q N A L E P P G Q L Q S L A D K L
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 UniRef90_Q2Q79 G R G D V A D T W M G H S D S Q P I D A R D L E D T I Q G O T D H S D R T
 UniRef90_UPI00047129EC G L G D K V R S W V S Q N S N L P V T P D E I R T I L G S D V V H D M V Q K T
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 UniRef90_A6UJ11 G H R E A A D S W V S A E E R S Q G I S P E Q V E S S I G K D T L Q D L A A K T
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 UniRef90_UPI0003B58287 G Y G D T A D S W V S P G A N K P I D D R Q L S Q A L G P D V L E E L S A K T
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 UniRef90_I4Z2F1 G Y G D H V D S W V S P G Q N R R I A P D E L S Q A L G P G T L D E L E Q Q T
 UniRef90_UPI000475AADE G L G E H T K S W V E T G R N Q P V S G K E L T D A L G E D E M V R L A G Q A
 UniRef90_UPI000464CEBD G H G E T A N S W V S P G P N K Q I A P G D L A N A L G A D Q I D Q L S A Q S
 UniRef90_UPI00047901D1 G L G D V V Q S W V G T G A N A P V S G A Q L E Q V L G H D A L A A V A S Q A

90 100 110 120

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UniRef90_UPI00046E5D4F	G L P A D A V L T T L A H F L P Q A V D K K P D G T L P P A
UniRef90_X6GDG9	G L S R E E L L D R L T S E L P Q A V D K L T P D G Q M P
UniRef90_I4YKL0	G L S R E E I L A R L S R E L P Q A V D K Y T P E G R L P S S
UniRef90_K8PFR0	G I P V D Q L S T V L A Q V L P G A V D R A S P E G A L P E S A
UniRef90_UPI0003A138CC	G M S H E E I V D R L S R D L P K A V D L T P D G R V P D A D E
UniRef90_K6UJM7	H A P K Q D V Y S A I S S V L P Q I I D A L T P Q G E Q E A N N D I Q N V L N
UniRef90_UPI0001746640	G T D T E T A A S G L A Q I L P G L V D Q L T P N G Q L P S A D L M S Q G L G
UniRef90_UPI0003792DF4	D L S T A D V A S T L S E H L P G L V D Q L T P N G Q L P S A D L M S Q G L G
UniRef90_UPI000472CC80	D F G A E E F N S K L A Q Y L P K A I D R L S P D G K L P S S Q E L M A R A F S
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UniRef90_L1QP65	G V S P E Q A S A T L A A V L P Q V I D R L T P N G T A G A D D M L G G L N
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UniRef90_UPI000464FDCA	G M P V E Q L T G I L A M V L P G V V D R A T P E G K L P E D G Q L K S N V L S
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UniRef90_UPI00036841B6	G V T P E Q A G E T L A G L L P E A I D R L T P G G Q I D G A D D L P G G L G D
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UniRef90_UPI000429E148	G L S H G E A A S G L A D L L P Q V V D K L S P Q G S L P E G G I G M D
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UniRef90_B9YY42	G I D T A Q L S Q Q L A E Q L P Q L V D K L T P G G E L P S G D L A E Q G L K
UniRef90_UPI0003612B59	G M S S Q E V S S G L A G L L P Q L I D K L S P D G K A P E G D A L Q A A M G
UniRef90_UPI0003499318	G M Q P D Q I S G L L A Q V L P H V V N A A T P E G E V P A E G K L N A D T V L
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UniRef90_B3QAF1	G M S R D E L L N G L S R Y L P D V V D Q L T P D G R L P T D D E
UniRef90_C7Q6V5	G T T P E Q A A Q T M A E K L P G M V D K M T P D G Q L P T P T T I K D N A A G
UniRef90_UPI00041FA8DA	G I P V D Q L S T V L A Q V L P A A V D R A S P E G T L P
UniRef90_UPI000475E923	G L S P T M V K G A A A V V L P M L V A H F A E N G G I H E S G S N F G S L A S
UniRef90_A0A023XB85	G L S S Q E I L D R L S R E L P A A V D K Y T P D G R L P A P S
UniRef90_N9N0N2	Q A P K Q A I Y G A I A S V L P Q V I D S L T P Q G S Q E A N N D I Q N V M N
UniRef90_N1WA63	G L D S E A T A G L I G N L L P L V V D K L S P D G K E P G G D I T S Q L S S
UniRef90_H8DRN0	G I N T D D A L N L L V K Y L P Q L V D K A S A E G V V N K K F D V T G V I S Q
UniRef90_UPI000376FF37	G L S H E E I L E R L S S D L P K A V D D L T P D G Q L P D G E D L P S A G S
UniRef90_UPI00036AF951	G I D I S K V P E L L A E H P T A V D Q A S P N G T L P
UniRef90_F5Y6B4	G V P Q E E V A S G F A E I M P E M V D Q L T P Q G R L P D A D D V L N G G L S
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UniRef90_F7QGF2	G L S R D E L L S G L A K Q L P D I I N Q L T P D G R L P T E
UniRef90_V4NT11	G V D T T T Q L L A S A L P E E I H N L T P D G Q V P Q G G L T
UniRef90_F4QXL6	G I S P E Q A S E T L A G L L P E A V D R L T P G G S V D G A D D M L G G L L D
UniRef90_UPI0003490A85	G T D P Q A L L G Q L L S Q V L P H A V D H L T P D G Q V P S G N G V D L G A L A
UniRef90_Q1QQU6	G L S R D E L L L A G L S R H L P E V V N H L T P D G R V P T E S E L
UniRef90_N9A5T2	Q A P K Q D V Y S A I S S V L P Q L I N S L T P Q G N S Q E A N Q D I Q N V L N
UniRef90_F7QP78	G I P V D Q L S T V L A Q V L P T A V D K A S P G G T L P H S A
UniRef90_A0A024K725	G I S Y D E L L V Q R L A S V I P Q A V D R A T P D G N F P A T D Q
UniRef90_D8P8X0	G L S S E A T G G Q L A N L P P G L I D K L T P D G K M P D T T L I E Q G L N
UniRef90_N9KZB1	H A P K Q D I Y G A I S V L P Q I I D S L T P Q G E Q Q E A N N D I Q N V L N
UniRef90_V4Q1N1	G I D A K Q L P A M L P E V I N R L T P N G Q L P D N L G L G K D G L G
UniRef90_D7A3N9	G L S R E E L L A R L T T T L P K A V D Y T P N G R V E A A
UniRef90_U1IBG1	G M S R D Q L L Q G L L S Q Y L P D A I N H L T P D G R L P S G D E L
UniRef90_D4E4K9	G V D Q T Q A S D T L A Q L L P A L T D K A S P N G E V K Q D
UniRef90_N9M7G4	H A P K Q D V Y S A I S Q V L P Q I I D S L T P Q G E Q Q E A N N D I Q N V L N
UniRef90_B4VCJ8	G V S P Q E A A D Q I A R S L P T A V D K L S P E G Q L P S G S
UniRef90UPI0003B634E3	G L D V A Q L P S L M A Q F L P S I S Q L A E N G G Q D I A S Q G L G
UniRef90_A9HRJ8	G L P A S T L L P A L A Q F L P A A V N Q Q T P N G Q P P A A G
UniRef90_G6YDH0	G L S R D E L L A R I T K D L P E A V D K L T P K G E L P A A T D
UniRef90_B2VF04	G T T P E D A V S K L L Q Q F L P Q F F D H A S P D G E L K P E A E
UniRef90_D9VPN2	G V S P D E A A D Q L A Q A L P Q A V D K L T P D G R V P T E S
UniRef90UPI00041F93F7	G L S R D E L L N G L S Q Y L P Q V V D H L T P D G R L P T E D E L S G
UniRef90_N8ZRJ7	N V P T D Q V Y G A I S S V L P Q I I D S L T P D G H Q E A N S D I Q N V M N
UniRef90_W6WF81	G L T A E E I L S R L L S R D L P K A V D D L T P N G S I P T D D D L P S A V G S
UniRef90_M5FH97	G L S R E E L L A R I T T D L P E A V D K M T P N G E L P
UniRef90_K7SX00	G L P A A T I L P A L A Q L L P Q V V D H T T T G T Q V P P E Q
UniRef90_R4WYP5	G V S G D Q L S G M L A A V L P H V I D H A T P N G Q V P A G G Q L P Q
UniRef90_A0A037YN75	G V D T S T A S S L L A E Q L P K I I D A L L S P Q G E V Q A N N D L L S A G M E
UniRef90_E6W8L2	G T D V Q G A S G T L A L L L P Q L I D K M S P Q G Q L D D Q S
UniRef90_U4QFC9	R L S R E E I L A R L S K D L P Q A V D E L T P D G T I P S D Q Q V
UniRef90_C7QCU1	G M T N E Q A A R T M A T T L P Q V V D H T T T G T Q V P Q
UniRef90_F8JCJ0	G I P V D A I L A A L A K E L P Q V A E T A G P A A N P S A S A D A S T
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UniRef90UPI00035CB643	G L S H Q E I L D R L S R D L P K A V D D L T P Q G K L P T A E E F M S F A S Q
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UniRef90_J2LMY9	G T D V N G A S G T L A A L L P Q V I D K L S P Q G H I D T S S T Q D L G A M
UniRef90_A6VQ30	G V E K T Q A Q D I L S Q A L P Q I I D L T P N G R P N D D E I A R A I
UniRef90_Q2Q879	G L S R E E L L S R L L S D S L P H T V N F T P D G R I P P A A D
UniRef90UPI00047129EC	G L P A D G V L T A A H C P A A V D G K T P D G V L P P A A D
UniRef90_B1M1L7	G L S K S E L L A R L S R D L P S A I D R Y S P D G R L P A
UniRef90_A6UJ11	G L D Y N E L L K R L S T S P D A V D T M T P N G Q L P E T D E
UniRef90_L0MGU1	G V D A N Q A S E T V A Q L L P T L A D K A S P N G E V K Q D
UniRef90_E6VP11	G V P L D A V S K F L A D H L P T V V D Q A S P E G K I E S N A
UniRef90_F6C0N9	G L D Y N E L L K R L S T S P D A V D K M T P N G H L P Q N D E
UniRef90_A2SC72	G L P P G E A A G Q L S Q L L P Q V V D K L T P N G Q L P T E G L G G A V G D
UniRef90_J2PHP9	G V D P Q V G A A K L A E L P S L V D K L T P Q G Q I P
UniRef90UPI0003B58287	G L S E D E I L K R L S K D L P K A V D D L T P Q G Q I P
UniRef90_R4XXMM6	G Q D T G S V L G S L S A L L P Q L V D K A T P E G A V E P G Q S F N P T D L L
UniRef90_I4Z2F1	G L P R Q Q L L S E L S Q E L P D A V D Q F T P D G R L P T E Q E V S G
UniRef90UPI000475AADE	G M T K E E T A A A L A T L P R V V D A V T P E G K V P A A E Q I D A
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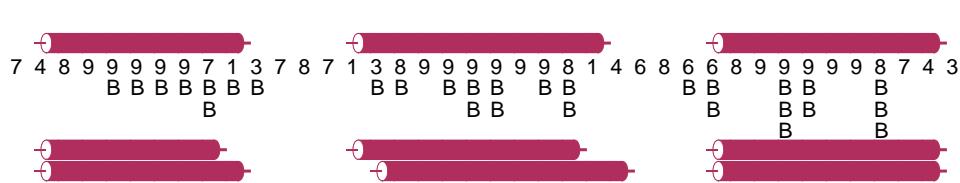
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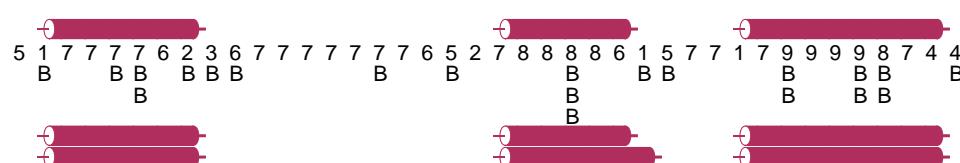
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 L S G L T S A I N E Y L D G V R R E Y G P N G F A E R A E A A
 S G L F S A L V Q Y L E H N G G E H E L R Q N A Q I H
 L F D S L A S A A V V G G P A A L V P A L I E M L G K P G G I G G G L L Q Q L Q Q G
 L Q R A
 V K D L T D A
 E Q R G G W A G F V Q H L R R Q
 Q R G Y G H L L R R A A D T
 S G L L S V I N D I L G P V P Q P D A P S K L E Q R A S A A
 G D H S G L T S A V S E Y M G K E G G I P V V R Q R A K E A
 L A A A I D A Y L D T D K P G M G M Y G L L D R A G D A



		50	60	70	80
UniRef90_A1BIW4	G L G D M A S W L G K G N N M P I S A D S I A N V I S P D K I A A F A A Q L				
UniRef90_S3MZW4	G L T S Q V D D W V S T G G E N A H V G A E Q I V Q S L F D D A D V E Q V A Q T				
UniRef90_C7RM47	G L G D V L G S W V G S G P N Q P I S G N Q L T A V L G S D V M A D L A A S L				
UniRef90_N9EK79	G L G G Q V Q S W V D P S Q G N S G I N V D Q I Q S L F G G Q Q V E Q V A Q A				
UniRef90_UP1000474303A	G L G D A L A S W I G T Q Q N T P V S G D Q I Q Q A L G D G Q L Q Q L A Q A A				
UniRef90_V5EQ12	G L A N I V A S W L G N G E N S P I S A D D I A K I F N P E Q L S F A N D L				
UniRef90_R7X9C0	G L G D A M R S W V G T G S N P V P V S A Q V A Q A L G P G R L Q A D T A				
UniRef90_A6QBD9	G L G E I V G S W L G N G E N K A I D P E K V P D L L G E E R V S T F A Q E L				
UniRef90_UP1000380F793	G L E P Q L R S W V G S G P N E P V T A E Q I T L A V G E D E L A R T A E S L				
UniRef90_C4RYA7	G L G D I V K D V G G Q N G Q P I S D G H I Q Q V F G Q E E I R L A T Q S T				
UniRef90_Q46X8	G L G E Q V D S W I G S G A N Q P V T P S P A L S D A L G N G A L D S L A T S T				
UniRef90_B4S558	N L D D I A A S W L G N G E N K A I P A E L V N N I L G S D M V A N F A S Q L				
UniRef90_E6PLH4		M S A D Q I H Q V L G S D T V K E L A A K A			
UniRef90_UP100030FB393	G L Q H V M D S W M D S D S P L P M S A E Q L E E V L D T G Y L R Q M A E E T				
UniRef90_UP10004789BD8	G M D Q H V Q N W A N G Q Q Q T A S P D Q I Q Q G L G N G F I K D K V A E R A				
UniRef90_B3EGS7	G L G E I A A S W L G K G A N Q A V S P D A L S G V I G I D K L K E F A A Q L				
UniRef90_UP100047D835B	N L A D T V Q S W I G N G A N A P A D A A Q I Q N A L G G N L Q E A A A K V				
UniRef90_UP100037D895E	G L G D Q V N S W V A G G P N Q E V S G K Q I Q E A L G A G T L D Q L A A Q A				
UniRef90_UP100036800A8	G L K G I V D S W L G N G P N E P V T T R Q I E D A F G A D K V A E A S K Q A				
UniRef90_S9RX80	G L G E Q V K S W I G N G Q N L P V S G E Q I T Q A L S G E E V S K L A S T F				
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UniRef90_UP1000349E5D0	G L G E V V G S W I G N G Q N L P I S A D Q L Q S A L G S H A L A G L L Q Q A				
UniRef90_V2JGS6	G L G E Q V S W I G T G P N P V P S P S L A E A L G T G A L D T L S S S T				
UniRef90_B1FYS5	A L G E V A S S W V S N G E N Q P I A A D A L H S				
UniRef90_G4CFL2	G L G D I L Q S W I G Q G G N Q S V S A D Q L E S A L G G G L Q Q A A Q Q V				
UniRef90_D4ZCM0	G L A S I A A S W L G K G S N A A I S T D D I A K V F H P D K I S A F A S E L				
UniRef90_B1LXR1	G H G E A V G S W L G S G A R Q T P V S P A S I A A C L P E G V L S T A Y D				
UniRef90_V4YLF1	G L G D I A A S W M G S D A N L P V S G D Q L Q Q A L G G D T L N L A Q G S				
UniRef90_Q1J19	G L G Q Q V D S W I G T G A N Q A V S A S D L S S A L G T G A L Q S L A E K T				
UniRef90_UP100036DBB69	G M A E H V G A W G S G Q A A T A T P E Q V Q G L G T G L I Q Q A A Q Q V				
UniRef90_W9AV18	G L A N I A A S W L G N G N N E A I S A T D I G N I F N D Q L S N F A N E V				
UniRef90_M5J3L9	G F G D V V S S W I S Q G S N Q E I I G Q Q D L L G V M G Q P A I V K Q L V D L S				
UniRef90_N9CSF4	G L S S Q V E D W V S T G G E N A S V N P E Q V Q N L F D D A A V I K E Q V A E Q A				
UniRef90_A4A7J1	G L G A I V G S W L G D G A N S P I S S A E S L S S I F G S D K L A E F A D R L				
UniRef90_UP1000376A299	E Q Y R S W L D D N E H N Q K M T D Q V R L T I G D G V L G D L A D Y A				
UniRef90_A0A023XZY1	G L G A Q F R S W Q R P T E P S R P V L A S E L E H A V R T H A L V T M A R R A				
UniRef90_E8RU19	G L A E V V Q S W V S N G A N L P V S I E Q L Q S A L G P D M V N Q L A G S L				
UniRef90_B8L697	G L A S R F H S W R Q P A L R L P I V A S E L E R A L G A H T L A M I A H R C				
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UniRef90_Z7MEF8	G L G P V V A S W L S S G P N E P V P S P Q E L G A A L D P G L V S D L A E R T				
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UniRef90_B8KK66	G L G A I V G S W L G D G A N Q A I I S S Q S I A S I F G S D K I A E F A G K L				
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UniRef90_F3S626	G L E A R L N A W E N H T G S E P A D E E T V R K L F P A P V I D T R F A D E T				
UniRef90_G8NP0E0	G M A G H V E Q W A S G A L Q T A T P E Q V Q T G L G T G L I E A T A E K A				
UniRef90_I3BYT9	G L A S L A S S W L G N G A N Q Q P S G S Q L N Q M F G Q D K I A A F A Q Q L C				
UniRef90_G0E8Y2	G L T H V V V S S W Q S N N K A L S I D A A Q V L E F I D F S E L V Q P L A E K C				
UniRef90_UP100046EA0AC	G L D E K V R S W I G N G E N L P I S A D E I R A L L T D E Q V V Q L A V S K				
UniRef90_B7S071	G L G G I V V S S W L G D G G N S A I I S A E S I M G L L G D S K V V S D F A S L				
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UniRef90_UP1000255924F	G L A D L A S S W L G G D N E A I S P S T L I D V L G N D Q V S E F A G Q L				
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lupas_21
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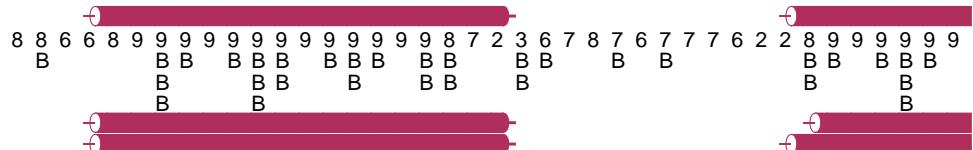
90 100 110 120

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 Q A P K Q D [I] Y N A I | S A V L | P Q I I | D S L T P Q G E R Q E A N D D I Q Q V M N
 G T D T G A A A G Q L | S Q V L | P G L I | D Q L T P S G A A P Q E G
 N [V] P T N E [V] Y G A I | S T V L | P Q I I | D S L T P Q G D A T D H N E A [I] Q N V L N
 G L S Q S D A A S H L | S E M L | P G L I | D R L T P N G E V P Q G G
 Q M P K D E A A V T G L | Q E T L | P G M I | D K A S P N G D I A S E E L F Q A V G G M D
 G I S Q D D A A Q Q L | S S L L | P E V V N Q L T P N G D L | P Q G Q D L A S I A Q K
 G V G E E S A K K A L | A D A L | P Q V I | D R V T S G | E N N I V D Q M M G
 G R D P G N [L] A A D I A L A L | P E L I | D T A S P D G R A A P P
 G I [D] P Q A T T A M L | S R S L | P A L M A Q I | P G N G S I | A K S G V L N V I L R
 G M S Q E D [V] A A Q L | S E G L | P E L I | D R L T P H G H V P S Q S
 G L S E S S A K Q A L | A D A L | P K M V | D K G S S G G S L L Q N [F] D N A G G L D
 G I D P T Q A A S G L | S E L | P Q L V | D K L T P G G Q I P | E G D L L S Q G L G
 G L T E H E V E A E Q L | S G M L | P D M V | H R L A M D G Q V R A S G
 G V S P Q I [A] K V A L | A A I | P V V V S H F T K G G T Q P A P H S G F G G M A S
 G I S E E S A K N A V | A D A L | P V M F | D K A S P D G S L L G D | L A G N F G
 G L D [V] N Q A G N I L | L A Q Y L | P Q I V N G L T P N G N A D A N G F G L D D I A G
 G L P P E Q A A D D L | A A L | P E V V N A A T P N G S M P Q
 G V K P D | A L A A E L | P E V I | D K A S P D G K I D
 G I N E S D [L] A N Q L | A E G L | P E A V N H L T P Q G T L P A A
 G I D T S A A A Q L | L A Q H L | P A A V S Q A A P G
 G V P K V S I S L A G A T L | P K L I | G L L T R D G E
 G Q P Q D Q A L Q G L | A Q M L | P E L V N K M T P Q G Q L P A
 G L S R D D V A A Q L | S A G | P E L I | D Q L T P Q G Q V P P A A

G [D] G H Q A G D [L] | S Q Y L | P Q I I | D S [L] T P N G T A A D A D
 E L P E H K A V S G L | Q D V L | P A L V D | H A S P G G E I | A G D L F K A V G G
 G V P E A R V P T V L | A E F L | P A A V | A D Q S E N G S L K P Q
 G T D G P G L | A S Q L | A T M L | P T L I | D Q F T P A G G V D G D G M P D [L] G A I T
 G L S A D D V | V A S S L | S E G L | P E V I | D R L T P H G A V P P A A
 G V S P Q I [V] Q M A L | A A V L | P M V I | Q H F A P N G Q A T P N S S M G S M A Q Q
 K L P Q S E A I | T G L | Q E T L | P G M I | D K A S P N G D I A G E L F Q A V G G M D
 G L N Q Q S V L | D N L | K I M L | P S L I | N Q R Q P Q
 N A P K Q D V | Y S A I | S Q V L | P Q I I | D S [L] T P Q A G Q T N P Q E A I Q Q V L N
 G T D A E T A T S G L | D A D V L | P Q M M D K S S S G G S L |
 S S T P A A V A W Q L | S E V L | P D L V | D A V S P G G R V V D T S L L A A
 G F P P G T F R V I A C | S E L L | P G L V A | L A S A S G P V R A A A
 G I D P A Q | L G D V L | P G V V D | Q D L S Q G Q G L T A P N L L G Q E G I G
 G M S P G A F R V V A C | H L | P G V V T | L M A P P G G L V P S P H
 G L S P T M I | K S G L A I A I | P F I V | H H M A S N G H I | T P E G D
 D L S E D D L | D M L A R N L | P Q A V | D E A S P N G A L | A D D
 E Q D H H A V L E G L S F V L | P K L V | D Q A S P D G A V A Q G Q Q G L D A
 K M S E Q D V I L G L | Q D A L | P T M I | D Q A S P P G G D I D H N L L I Q P V G
 G I S Q G E V | S D W M S A H | P A V L | Q N L S P E A H Q L | G G G N M L I N T A L S
 C L S K E S A A R A L | A N V I | P Q V V D | L A T R G D E M L | A N T G G S N G A M E
 G V D S Q T A A S G L | S D M | P Q L I | D K A S S S G G D L L S N | M A G P G A A
 G I S P D Q A V K G L | Q Q A L | P Q M V | D Q A T P S G S L | D L N S I L N S V G
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 G L P L A P L L P L | I A K T L | P V A V E R M
 G V G S G A | G A T L | A T V L | P M L V R R V T | P D G T | P T P S D L | Q Q L I N
 G T D A G T A T N G L | A D V L | P Q M M D K A S S G G S L | D M A G G A S G L L G
 N L S E Q D A K T G L | S E A L | P A M V D N A S P A G E | I A G E L L N A V G G V S
 G Q S H N A T I | K A L | A D L L | P H L |
 G V S P Q M A Q T I | L | A T V M | P M V I | S H F A P N G Q A P E Q S Q F S G L A G Q
 G I S R D Q A V S G L | Q A S V | P E V V D K A S P N G S L | D M G S L L D A Q G A I
 G T D I L G A A N L V A Q F L | P M V M D T A T | S G T A P H N A

G T D T G T A A S G L | A D V L | P Q L | M D K A S S G G S L L | D A A G G M G G L M G
 G L D R G V V T E A L | A F L A P K |
 G M D Q A D A E N G L | T Q A I | P A M L | D S A S S G G N | L L E | L A G G A E G I L G
 G L S R E E L I | S R I | T R D L | P E A V | S K M T P T G E L P |
 G L G E D T A A E G L | A Q M I | P E L I | D G N S E G G D L L G G A | V G D M A K
 G L S P D A V I T G L | A S V V | P G I V |
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 G Q E R S S V L D G L | S V L L | P R L V N | L A A P D G K A E S A
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 G L E S G Q V | A A V V A D A L | P L L V |
 G L S D E G L | E E A V A A C | P E L |
 A M T D Q D T L | A A L | T T E L | P L A V | R R H S
 G L S A T A T L S M L | Q T L L | P R C V R R
 G L S E E A T M S M M C | E L L | P R C I | R R
 G L S R E A T I R G L L A V I | P R V V |
 G V S E Q A V V R Y | L L V H L | P R A V R |

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



UniRef90_A1BIW4
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 UniRef90_F7VE11
 UniRef90_UPI000421BE67
 UniRef90_A9H4X6

G [L]
 L V S G F []

[] V S G F M
 M [L] G Q F []

G []
 F [] G G
 G M [] S K M F

F F K

G [L] G
 R [] K G E [] F

Q [V L] S R [L] L
 G [L] S G M []
 M [L] I N N F [] L

[]

G [] S K F

[] L S K F
 G [] L N

[] V S G F []

K [] L G G [] F

I [] L R E R M
 M [] L S K M F
 S [] L G K [] F

G [V T] G
 A A K S [] F
 G [] L N

[] L Q K F []
 G [] L A S K [] F

A A K S F []

M [] V S K [] F

G [V L] G K [] F

A A K S F []

M [] V S K [] F

D [V]

A A K S F []

M [] V S K [] F

G [V L] G K [] F

A A K S F []

M [] V S K [] F

G [V L] G K [] F

A A K S F []

M [] V S K [] F

G [V L] G K [] F

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