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50 60 70 80

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130 140 150 160

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

| QUERY | A | S | K | P | P | R | D | H | V | F | K | V | N | N | F | E | A | L | K | T | Q | Q | Q | L | R | E | K | I | F | C | I | G | S | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_P20702 | A | S | K | P | S | Q | E | H | I | F | K | V | N | D | N | F | D | A | L | K | D | I | Q | Q | Q | L | K | E | K | I | F | F | A | I | I | | | | | | | | |
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| UniRef90_E6ZH33 | A | S | D | P | P | A | S | H | V | F | F | R | V | D | N | F | G | A | L | L | R | E | Q | I | Q | Q | Q | L | R | E | K | I | F | F | S | I | | | | | | | |
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| UniRef90_X1WF98 | S | S | T | P | Y | R | T | H | V | Y | T | V | P | N | F | D | M | I | K | A | V | E | K | S | F | I | A | Q | V | V | C | C | C | C | S | S | | | | | | | |
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| UniRef90_UPI0003C2901A | A | S | R | P | G | D | R | H | V | F | F | V | D | D | L | D | A | F | R | N | I | E | E | K | L | T | T | F | V | V | C | C | C | C | C | C | E | A | A | S | | | |
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| UniRef90_P13944 | A | S | D | S | D | E | K | H | A | F | K | V | N | Y | S | A | L | S | G | L | V | D | L | S | K | L | Q | Q | S | I | C | C | C | C | C | C | C | I | I | | | | |
| UniRef90_UPI0003F11E99 | A | S | S | S | E | D | T | H | V | Y | N | V | Q | D | F | N | V | M | A | D | I | V | D | L | L | T | R | T | I | C | C | C | C | C | C | C | C | I | I | | | | |
| UniRef90_UPI0003H2SV46 | A | S | P | P | E | E | T | H | V | Y | N | V | A | D | F | S | V | M | S | D | I | V | E | G | L | T | K | G | V | C | C | C | C | C | C | C | C | A | V | | | | |
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UniRef90_UPI000364A0D7 G D T N A D S I L D R I A D E R R D H G I T L F G V G V G S D Y G D A L M E K L
UniRef90_H9GFZ9 L I P Q Y A E K Q A D I S R L G A R V Y C V G V L N F N Q E Q L E S I
UniRef90_Q464T5 T N V T S Q A S A L R A D A G V T I L V V G V G K A K E S E C R G I V G
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UniRef90_D2VFU1
UniRef90_K1R4G1 N K A A A F G S A I R S I A S S N I F I V G V N I S S S D D S E F
UniRef90_UPI00042C0E3C G V S N L Q E I Q A N V K K A I Q G R Y P L Y N L A F G Y A V D Y N F L E K M
UniRef90_A7T5D1 N P L E A S Q E A Y E L R G E H V D V F A V P I G K N P D V G T I R D V
UniRef90_C3Y2X8 G I L P V A D Q L K G N V W M F P R H V T G K R Y D G
UniRef90_B7LM60 D P S S V E D L V K K Q R E S G I T L S T L G V G D N N Y N E A M M V K I
UniRef90_Q12VX7 G S D R D G S D A I S T A N L N N I R I Y S I G L G S S E Y I D E P M L K R I
UniRef90_F9RE52 G V L D P I E A A K I A K K Y G V T I Y T V G V G A G E M E V R Q L F M T R T V
UniRef90_M5BS79 D P R E V I R A A R
UniRef90_UPI00041495F6 G I S D V D E M L D I V K A N R D R E G I S L S T V G F G R G N L N D Y M M E Q M
UniRef90_UPI00037DE861 G I T D M A E L Q K L V S K N S E E G I S I S S F G V G A D F N E D L M T N
UniRef90_M7AYW1 N I Q E P A K E V K D A G I T L Y A I G I K D A S L E E L Q E I
UniRef90_UPI0003F11BB3 G E T N P A K I Q K N V Q D A I S G Q Y S L F C L G F G F D V S Y S F L E K L
UniRef90_UPI000012434F S A D K
UniRef90_T1FAC5
UniRef90_Q4RYT2 G A N P Q L A L A K I R Q D Q T D E T I L D V Y V F G I G E Q V K K D Q L N V T
UniRef90_N8ZV22 G I T D F N T L K G M V A E K R K S G I S L T I L G Y G T G N Y N E A M M E Q I
UniRef90_F0LYB8 G V L D P M E A A K I A K K Y H T T I Y T V G V G A G E M M V K D E K T L Q A I
UniRef90_UPI00034F4D5E D P V T V I H D I R D L L D I G R D R P T D V Y V F G V G P L V D Q A N I N A L
UniRef90_UPI0003B77F2F G V S N P D D L E K L I E Q K R D K G I F L S V L F G S G N L K D D N L E R L
UniRef90_J2Y8W6 G V S D F D S L K Q M A V D K R K T G I S L T L G F G V D N Y N E H L M E Q L
UniRef90_UPI0003598540 P A L T G P A A
UniRef90_UPI000377522E G T V D F D D L K K L V E G K R R G G V S L T T L G F G T G N Y N D H L L E Q L
UniRef90_S0FNB1 G I T K A E D L K M V E D Y K A K G I T L T T L G F G M D N F N D I F L E T L

UniRef90_UPI00020397DB A G P S A S D R ¹⁷⁰ [] Q [] L [] Q Q F D D [] T ¹⁸⁰ [] V [] L [] G E F [] V [] K K [] L ¹⁹⁰ C T

UniRef90_UPI000359622B K S T Y G E R H [] L [] F R V [] P D Y N S [] L

UniRef90_K7FEE3 A S K K G E Q H [] V [] F [] K [] V [] R D M E H [] L E D [] V [] F [] F [] Q M [] I [] D E S Q A [] L [] G

UniRef90_H0VUK8 A S A S T M V A R A S D [] V [] D [] G L N D H [] L [] E Q [] I [] L [] E [] T [] L []

UniRef90_H2T3W3 A S A S T P E D V L Q [] V [] P T F S G L P Q [] I [] R E R L [] L [] T [] R L []

UniRef90_UPI000298DD9A A C N E P Q R V L Q K M R L F S D L E E F I D K M E D M L C

UniRef90_P15988 A S N S A T A F R V G S V Q E L S E L S E Q V L E T L

UniRef90_UPI0003343A68 S L S P E Y V F S L S T F R E L P S L E E Q K L L T P I T T L

UniRef90_UPI0003315500 A C N R K E R V T A M R R Y T D L V A E D F I E T M E T V

UniRef90_H3DGC0 G S K K G E R H A F R L S D A K A L Q Q V F E K L T D T I C G V G N

UniRef90_L9KG40

UniRef90_O88493

UniRef90_G3IMT1 A S N S A T A F R V G S V Q E L S E L S E T V L E T L

UniRef90_U2ZQS0 A N H G N G N Y A Y I D S A L E A R K V L T D E M A S T L F T [] A

UniRef90_UPI000326517 D M S Y G E R H [] L [] F R V [] P D Y H S L G V F Y Q T V S R K I

UniRef90_H2LW08 S Q E P T K A F L V A D S S L T D I E Q K L I L A I

UniRef90_UPI0002A4C4C9 S I N L G R S N F E A A M Q F I N G I I D N L

UniRef90_UPI0003595A39 A S A P N Q V L L S S N F N E L A K T L V Q A T S Q A C

UniRef90_H2M7Q7 V S L G D T S A I F R G D Y S M L N K F F E R F V R W L C

UniRef90_I3J6B0 A D S K D H V F P V N D F Q A L Q G V I D S I L K R S C

UniRef90_UPI0003599AD5 L A W P Q T N H S F Y V P D F R H F A M L A R S L

UniRef90_F5XVB9 T N A N P D N R A Y V L S S T A E L P D H L L E L T D Y L C T L G

UniRef90_Q258X0

UniRef90_H2RPL2 S S K P T K D H F F N V S D E V A L L T I V D A L G S R I F A L

UniRef90_UPI0002A47A6A A S E P V E K H F Y Y T D F N A I S T I A D N L K L N V C

UniRef90_H2VW27 E T N V F G L E D Q D K D L A W K L A R R I

UniRef90_F7RRG9 A D K G N G H Y A Y I D T A N E A R K V L V E Q L S S T L L T I A

UniRef90_UPI0003AFC6F0 A S D P D D I H M Y N V Y D F Q F L V D I I D K L S V N L C

UniRef90_G3PG93 A C Q K D G R V L G M K R F A D L V A D E F I N T I

UniRef90_R5L980 I T E V G G G R W V N S K D N G E I I S S V R E L L G D I F K M A G

UniRef90_U6MQE5

UniRef90_UPI00032A527 A S K P D E R H V F Y L R D L T D L Q Q A F H D M I D E

UniRef90_UPI0002B43D0C A S D P T E K H F F N V S D E L A L L T I V E T L G E R I F A L

UniRef90_K7FBR7

UniRef90_C3ZN55 A S E P T E K Y F F N V S E E A V L S T I A A T L G K R I F S I

UniRef90_M4A6V8 A S H P E Y T H S Y V L D S F A E F E A L A R R

UniRef90_F4X475 A G N E Y P D R V Y E V G T A Y E L D D H T A A I S R H L C

UniRef90_U6PA12 A S D P D S Y A I

UniRef90_K1R0L2 A W P N A P I L L I Q D F D R L P R E A P D L V

UniRef90_UPI00032B1079 A D T I E H V F P V T G F Q A L R G V I D S I I R K S C

UniRef90_W5U7S4 A S S P A E R F V F S H D N L K I V E S L I S L L H I K E C C

UniRef90_V4CEC4 A S K K G E R H V F K V K D M E D L E H V F S L M I D E S N T L G

UniRef90_G3W3U5 A D S K D H V F P V N D F Q A L Q G I I H S I L K K S C

UniRef90_UPI00042C6A58 A C N N K N R I T E M K Y T D L V A D N F I Q K M E T V

UniRef90_UPI0003B3699F A S A P A S R Y V H N I Q D K G V V D K I I R E I V D E V C

UniRef90_C0H5V7 A D V G N G N Y A Y I D S A M E A R K V L D D E L S S T L F T V A

UniRef90_F4QND6 S K Q N K G R R I F E A S D A A A L Q G F Y D E V A S

UniRef90_UPI0003BCCE5E A R N P N A D Y H V V S N D Y F D L H A K V S K L I T G L C

UniRef90_K1PTF4 A S A P T E K H F F N V S D E L A L V T I V E A L G E R I F A L

UniRef90_UPI0003BBC419 A S E P F E K Y L F A N I E N F N T L Q D F S G G I L Q T L C S

UniRef90_G1LQ70 E I A D S P Y H V F A V N G F K A L K D I V D P L E T K S C

UniRef90_E1BCW8 T M S V T P A Y A F S V P D F N S I N S I A Q R V V S

UniRef90_UPI0003836BC1 A S E P T E K H F F N V S D E L A L V T I V K A L G E R I F A L

UniRef90_UPI00046B47CF A S F P H S E H V F

UniRef90_A7SV31 A S G P T Y V Q T A S D F N T L A Q S L L L F S R S L C

UniRef90_V4BDS6 A L E N H G R R I Y E D S D A N Q L Q G F Y E E V A N P L L T

UniRef90_UPI00045D7BC9 A S S P E N V I T F Q T F D E L A A K L E S L V K L V C

UniRef90_K1R3V2 A A A P E N V F R V E G F K D L G L I I N S I L E K S C T

UniRef90_F6SXU7 A L E N K G R R I Y P D S D A A Q L Q G F Y E E V S N P M L T

UniRef90_UPI0003834B09 A D S K E Q V F P V K G F A Q L K G I V N S I L K Q S C T

UniRef90_UPI0003447FE2 S K K D G E R H A F I L Q D T E A L Y Q V F E M L G E E L C P L Q S

UniRef90_UPI0003890464 R I A D T K E Q V F P V T G F Q A L K G I N S I L K Q S C T

UniRef90_UPI00012434F A L E N C G M V R H F Q E D E D A L K G F Y D E I

UniRef90_E1BTM0 A D K G D G H T A Y V S N D T D A R K V F V D Q L P Q N I

UniRef90_UPI000364A0D7 A D S R D Q V F P V E G F Q A L R G L I N S I L K Q S C T

UniRef90_H9GFZ9 C S T K G E C P L F F M T N W D E I I R K V G E L M A E V C

UniRef90_Q464T5

UniRef90_UPI0004406340

UniRef90_D2VFU1 L D T V D D D K Y L K A V N F S V L Q C I N D V V V P N I

UniRef90_K1R4G1 A L E N K G

UniRef90_UPI00042C0E3C V S L P T E K N I F M M T S A A A L K P Q L R A L V S T I C

UniRef90_A7T5D1

UniRef90_C3Y2X8 A D T G N G N Y S Y L D S L S E A Q K V L S N E M N Q T L V T V A

UniRef90_B7LM60 A S E T G G S Y Y N A P S G S E L Q T V Y N T I S K E I

UniRef90_Q12VX7 N T A Q D G G Q Y F R A R N S E D L A N I Y D T I N Q

UniRef90_F9RE52

UniRef90_M5BS79 A D N G N G N Y S Y I D S L T E A K K V F G D E L A A T F N T V A

UniRef90_UPI00041495F6 L S E Y G T G N Y Y F I D N A D K I P E I F A K E L K G L L S V A

UniRef90_UPI00037DE861 A S D P D D K H V Y E V G D F T D L Q I S L I I C Y R C F V A

UniRef90_M7AYW1 A L D N G G R R I Y E D S D S A Q L K D F Y Q E V A N P L L T S

UniRef90_UPI0003F11BB3

UniRef90_UPI000012434F

UniRef90_T1FAC5

UniRef90_Q4RYT2 A S Q K G E K H V F I L K D F E T L G E V F N S I I S T M C G V A

UniRef90_N8ZV22 A D A G D G N Y S Y I D N K N E A K K V V Q R Q L S S T L A T V A

UniRef90_F0LYB8 A D E T G G Q Y F R A R N Q Q D L Q H I Y D T I N Q

UniRef90_UPI00034F4D5E A S K K D E Q H V F K V K D M E N L E D V F F Q M I D E S Q S L G

UniRef90_UPI0003B77F2F A D C G N G N Y S Y I D S L F E G K K V L I D E M G S T L V T V A

UniRef90_J2Y8W6 A D A G D G N Y A Y I D N L R E A R K V L V D Q L G S T L A V V A

UniRef90_UPI0003598540

UniRef90_UPI000377522E A D A G N G N H G Y I D S L S E A R K L L V E E L S S T L I T V A

UniRef90_S0FNB1 A D K G D G N Y A Y I D T L D E A G K V F I D Q L A G T L E V I A

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|------------------------|---|-----|---|-----|---|-----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| | | 130 | | 140 | | 150 | | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UniRef90_S5JAR5 | G | V | L | D | P | E | A | A | E | I | A | K | K | Y | N | A | T | I | Y | T | V | G | V | G | A | G | E | M | M | V | K | D | F | F | M | T | R | K | V | | | |
| UniRef90_J0LE41 | D | W | Q | D | S | A | M | S | E | G | N | Y | M | K | S | D | T | T | L | T | T | L | G | I | G | D | G | V | | | D | E | I | F | L | R | N | L | | | | |
| UniRef90_UPI0004439498 | G | G | S | P | Q | P | T | V | A | R | I | K | N | T | V | Y | M | N | H | T | V | D | I | Y | I | F | A | I | G | N | D | I | F | D | D | D | L | Q | P | L | | |
| UniRef90_X2ML57 | G | I | T | D | P | K | D | I | E | A | L | V | K | K | E | R | E | K | G | I | T | L | S | T | L | G | V | G | D | D | N | F | N | E | A | M | M | V | R | I | | |
| UniRef90_M7N615 | G | N | I | D | P | L | M | A | A | R | L | A | Y | A | H | G | I | K | M | H | T | I | A | I | G | N | Y | H | E | N | T | L | D | E | T | T | L | R | E | L | | |
| UniRef90_E5RYN3 | E | D | D | L | P | H | Y | W | A | Y | R | I | K | N | A | G | H | H | I | L | V | I | S | T | R | A | Y | N | H | E | S | Y | N | K | L | I | E | Q | H | R | | |
| UniRef90_H3BXX3 | Y | V | H | D | T | V | K | E | A | N | E | A | R | K | Y | G | A | R | V | Y | C | V | G | K | D | | | | | | | | | | | | | | | | | |
| UniRef90_A7RM81 | S | V | V | D | P | A | N | K | L | K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UniRef90_M4A541 | L | Q | E | Q | L | F | D | A | Q | Q | A | E | E | A | R | R | L | G | A | I | V | Y | C | V | G | V | | | | | | | | | | | | | | | | |
| UniRef90_UPI00033473BE | D | K | I | K | E | I | L | S | I | Q | K | R | D | D | Y | L | D | I | Y | A | I | G | V | G | K | L | D | V | D | W | R | E | L | N | E | L | G | S | K | | | |
| UniRef90_C3ZTU5 | S | V | S | G | P | S | R | D | L | V | A | A | G | V | E | V | Y | A | I | G | V | | | | | | | | | | | | | | | | | | | | | |
| UniRef90_L1P0F3 | G | V | A | D | T | E | T | L | K | S | M | V | A | E | K | R | K | S | G | I | S | L | I | T | L | G | F | G | T | D | N | Y | N | E | E | M | M | E | Q | I | | |
| UniRef90_K1QTR9 | P | D | K | T | R | I | A | A | | I | T | A | R | A | I | G | I | T | L | I | A | V | G | I | G | V | T | P | G | S | S | A | A | T | E | L | N | A | L | | | |
| UniRef90_UPI000298B8A0 | D | V | G | Q | V | M | S | E | L | K | A | E | G | V | F | V | L | A | V | S | A | V | | | | | | | | | | | | | | | | | | | | |
| UniRef90_K2QRA3 | D | V | E | S | V | I | I | H | A | A | K | L | D | K | | C | D | A | P | A | W | Q | V | G | I | Q | F | F | Q | V | G | R | E | P | G | A | K | E | H | | | |
| UniRef90_C1D2W8 | G | V | T | D | R | R | E | I | A | R | Q | V | R | G | L | T | E | R | G | I | S | T | T | I | G | L | G | S | H | Y | | | | | | | | | | | | |
| UniRef90_L7UC97 | G | P | S | L | S | P | E | S | M | L | E | S | I | R | K | Y | V | A | E | G | V | T | L | T | T | V | G | F | G | M | G | N | Y | R | D | D | L | M | E | K | | |
| UniRef90_A0D130 | D | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



