

| QUERY | 1 | 10 | 20 | 30 | 40 |
|-------------------------|---|----|----|----|----|
| UniRef90_UPI00041C79BA | P T L A E P E R Y A F A H L M A E F A D A L F Q E G E F S E Q A F D L F A A S L | | | | |
| UniRef90_UPI0001E89A66 | I K E D I F S T A Y A S Y M V E L L L D K S V D D R S P N P Y L F E L L Y Q S L | | | | |
| UniRef90_E5WIP9 | I R E D I F L T A Y A S F I V E L L M D R T T D E G K R N P A L Y D L L Y Q V L | | | | |
| UniRef90_UPI00047E3ED2 | I K E D I F L T A Y A S Y V I L E L T D R L T E E R H P H P A L F D L L Y Q T L | | | | |
| UniRef90_D5DMM5 | I R E D I F T T A Y A S Y I L E L T D K A T E N N K P N P Y L F E L L M H Q S L | | | | |
| UniRef90_UPI0003644B7E | I K E D I F K T A Y A T Y V V D L I D K G T E E R K P N P Y L F E L L Y Q T L | | | | |
| UniRef90_A6CSJ7 | I R E D I M K T A Y A S Y I I E L L D K G T E E D K K P N P Y L F E L L Y Q T L | | | | |
| UniRef90_UPI00030E8F35 | I R E D I E K S A Y S A Y I I V E L L T D K L T E E K K T N P P F L F E L L Y Q T L | | | | |
| UniRef90_K6BZA4 | I R E D I F L A S Y A T Y V V E L L I D K G T E E K K P N P Y L F E L L L Q S M | | | | |
| UniRef90_D3FY31 | I R E D I F L T A Y A A Y I I A E L L T D K I T E E Q K R N P Y L F E L L L Q T L | | | | |
| UniRef90_Q65H74 | I R E D I F L T A Y A A Y I I A E L L T D K L M E E K Q P D P F L F E F I L E S L | | | | |
| UniRef90_A0A023CL68 | I R E D I F L T A Y A A Y I I A E L L T D K A T D E K T P N P Y L F E L L L Y Q T L | | | | |
| UniRef90_L5N3Y8 | I R E D I F L T A Y A A Y I I A E L L L D R L T P E N E A N P Y L F Q L L L L T Y | | | | |
| UniRef90_P42095 | I R E D I F L T A Y A A Y I I A E L L L D K G T E E S K V N P Y L Y E L F Y Q T L | | | | |
| UniRef90_N0AY76 | I R E D I M K T A Y A S Y I I T E L I D R L T E Q D E P Q P A I Y D M L Y Q A L | | | | |
| UniRef90_UPI0003153827 | I R E D I M K T A Y A A Y I I V E M T D R T T E D G E I N L P F N L L Q K S L | | | | |
| UniRef90_G9QPU0 | I Q T D I E A T A Y A S Y C V E L I V D R L T E Q D R P D E Y A Y N V L S Q A L | | | | |
| UniRef90_W3AB33 | I R Q D I F L T A Y A A Y I I A E L L L D R L T P E N E A N P Y L F E L L L Q T L | | | | |
| UniRef90_UPI000365FB9E | I R E D I F L T A Y A A Y I I A E L L L D K G T E E E S K V N P Y L Y E L F Y Q T L | | | | |
| UniRef90_UPI000289E28D | I R E D I M K T A Y A S Y I I T E L I D R L T E Q D E P Q P A I Y D M L Y Q A L | | | | |
| UniRef90_E6TW49 | I R E D I F L T A H G A Y I I V E L L I D R L T E D R E R N P P F L F E L L L Q T F | | | | |
| UniRef90_UPI0002FA2695 | I R E D I F L T A Y A A Y I I V V E L L T D R A T E S R K S N P P F L F E L L F Q T L | | | | |
| UniRef90_UPI000314F04F | I G E D I E A T A Y A C F V V E L L I D R A V E D R N P P Q P A I F N L L R Q A L | | | | |
| UniRef90_C1KVA7 | I Q Q D I F M T A Y A C F V C E L L I D R A T E E R Q R N P P F L F E L L L Q T L | | | | |
| UniRef90_UPI00037CC3E6 | I R N D I F R A S Y G S Y I I V E L L T D K L T E E R Q R N P P F L F E L L L Y Q T L | | | | |
| UniRef90_V6SV86 | I R E D I F L T A H G A Y I I V D L L T D K V T E D K M A N P P F L F E L L L Q T L | | | | |
| UniRef90_UPI0003F57101 | I R E D I F L T A Y A T Y L S E L L T D K L V E K N N Y D P P F L F E L L L Q T L | | | | |
| UniRef90_I8UEG8 | I K E D I F K T A Y C A Y I M V E F L D K V T E E N G P P Y L F E H H Q S F | | | | |
| UniRef90_UPI000370124A | I R E D I F V K A A Y A S Y V C E L L D R V L Q E E E T G A F W F R Q L K A C | | | | |
| UniRef90_B1HT19 | I R E D I F M A T A Y A S Y I M E L V I R V V E E G K P E P F A F D V L L Q A L | | | | |
| UniRef90_W4CK92 | I R E D I F L A A Y A Y A A Y I V E L L T D K S T E E Q K R N P P F L F E L L L Q T L | | | | |
| UniRef90_W7YHI1 | I R E D I F L T A H G A Y I I V E L L I D R L D R V L H D E E T G S F W F R Q L T A C | | | | |
| UniRef90_UPI0003B5E1F6 | I R E D I F L V L T S Y A S Y A C C E L L D K V T V D Q E R N P P Y L F E L L F W Q L L | | | | |
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| UniRef90_W7D277 | I Q T D I F L T A Y A T Y L S E L L D K S T E E Q K A S T G L Y D L F Y Q I L | | | | |
| UniRef90_D3E525 | I R E D I F L V K A A Y A S Y A C C E L L D K V t e e r q r n p p f l f e q l l t t l | | | | |
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| UniRef90_J2Z7Z6 | I S Q D I T L N A Y A T Y I L S L V D A A F P D G Q P L E R W Y E Q T D L A L | | | | |
| UniRef90_H7F7R8 | I Q T D I F L T A Y A A Y I T C E L L D K A T E E R K P N G Y L Y E L V F Q I L | | | | |
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| UniRef90_UPI00047A838F | I R E G L E G P A Y A A Y A A E L L T D R A I N D D E A A A Y L F H Q L K A C | | | | |
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| UniRef90_M1YZP9 | I R E D I F R S A W A S Y I L V E I V D K S V E E Q V S F P E L F T L L Y Q S L | | | | |
| UniRef90_F5SE00 | I R S D I V R A S Y A A Y W T E L L L D K L K E E K E P D L P V Y I W L E T V L | | | | |
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| UniRef90_UPI0003B7A78E | I R E R I F L A A Y A S Y A A E L L A D R T L Q D D E A D P F L Y A Q L K A C F | | | | |
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| UniRef90_Q831U0 | I S Q D I F T T A Y A S Y C V D L L D K A I E E R E P N P A L F S L I Y Q V I | | | | |
| UniRef90_W7CYM6 | I S Q D I F K T A Y A S Y I V E L L V D K L T E E K N L I F W F M T G L F L A M | | | | |
| UniRef90_W7YM80 | I S Q D I A L N A Y A T Y V M N L M D V A F P D N Q P V G R W Y Q Q L T S A L | | | | |
| UniRef90_Q88VS1 | I Q Q D I F L A G Y S T Y I L L N L V D A A I E D K I Y D P H L Y Q F L S L C | | | | |
| UniRef90_S1P4L0 | I Q Q D I F L A G Y A T Y I L L N L A D S A I D D R V Y D P N L Y H F L H E A L | | | | |
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| UniRef90_F6B8E4 | I S E D I T K N A Y A T Y I M S L I D M A Y P D G E P I A T W Y D K L L T G L L | | | | |
| UniRef90_F4FUS5 | I D F L N A Y A T Y V L G L L A D A A L E D G I V D P T L F H K I E M T L L | | | | |
| UniRef90_K8EH67 | I R E D I F L N A Y A T Y V L G L L A D A A L E D G I V D P T L F H K I E M T L L | | | | |
| UniRef90_UPI0003F66C62 | I R E D I F L N A R G S C M L E L L D K L T E D Q Q A S P A L Y D L I T F A L L | | | | |
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| UniRef90_UPI0002490297 | I T Q D I V K N A Y A T Y I L L G L V D S A F A D Q Q Q L G G G W F H Q I K Q A L | | | | |
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| UniRef90_U5PAA3 | I N Q D I F R L L S Y A T Y I L L A L A D A S I Q D R Q P D P A L F S F L E Q T L | | | | |
| UniRef90_A5USV2 | I R T D L E R I G A A Y Y A A E L L V D R L V E E E A E N K R A F S I L L G T L | | | | |
| UniRef90_G2T1E4 | I T G D F D A T Y Y G F Y F L E F A D Y Y C Q E N N D E R E M L K L L Y Q S L | | | | |
| UniRef90_UPI000225B3A0 | I R E D I I K T A Y A A Y I L T E L T E K L L D D Q V P F G E I Y T E F F Q T L | | | | |
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| UniRef90_UPI00046AAAAAF | I S N D L F L N A Y A T Y I L L N I D V A F P D S Q P L G G W F Y G R I E Q A L | | | | |
| UniRef90_XOP943 | I T A D I T K N A Y A T Y T M S L I D L A V P D S Q P L G P K W Y D Q L M G L L | | | | |
| UniRef90_B9DSQ8 | I N Q D L F K L L S Y A S Y I L L A L A D A A I S D N E S D P H L F V F L K K T L | | | | |

50 60 70 80

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| QUERY | R G V A H Q P D P E W V A L V M S Y K L L G L A G V I P Q T A R C A R C G A P D |
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| UniRef90_UPI0001E89A66 | H Y I N D G F D A E I I L T F I F E M K M L C D V I G I T P E L N R C C S C G A T E |
| UniRef90_E5WIP9 | N L I N E G Y D P E I I L T N I F E M K M L M L N A L G L D Q C S V C G S T D |
| UniRef90_UPI00047E3ED2 | H Y I I D E G I D S E I I L T R I Y E V K M F I V A G I Q P E L H Q C C A S C C G Q V E |
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| UniRef90_UPI0003644B7E | N Y I I S E D Y D P D I I T H I F E M K M L Q V L G L Y P E M K K C S V C G A T E |
| UniRef90_A6CSJ7 | T Y I I N E E Y D P D I I V T H I F E M K M L P V L G L H P S L D D K C C A V C G E T E |
| UniRef90_UPI00030E8F35 | H Y I I D E D Y D P L V L K F I F E M K M L P V L G I P P M L D R C C V N C G E T E |
| UniRef90_K6BZA4 | N Y I I N E G M D L E I I L T Y I Y E M K M L N I A G I Y P K L D G C C V H C C S K T D |
| UniRef90_D3FY31 | L Y I L D E G I D P E V L L R I F E M K M M Q V A G I T P E L D Q C C T N C G S T D |
| UniRef90_Q65H74 | R R L I N D G T D P D I I A N L I E V K M L S V M G L P P T L D R C C A I C S R T E |
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| UniRef90_L5N3Y8 | S W M N E G K D P N I I L S M M Y E L K M F K K A G F A P V V D Q C C I H C G S Q D |
| UniRef90_P42095 | K Q L N E G T D P D V I T F I V Q M K M L G V M G L Y P E L N H C C V H C K S Q D |
| UniRef90_NOAY76 | N L M I N E G Y D L D I M A N I Y E M K M L D L F G L H P C L D Q C C S V C G N T D |
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| UniRef90_G9QPU0 | D Y I I D E G Y D A T I I L T N I F E M K M L Q V I G L R P E L N Q Q C C V N C G S K E |
| UniRef90_W3AB33 | H A I I E E G Y D P E A I S L F I E W K M L P S A G L T P T L H Q C C A N C G A T D |
| UniRef90_UPI000365FB9E | E Y I I N E G A D A A I V T N I F E M K M L S Q V G L P Y T G V Q P T L H Q C C T V V |
| UniRef90_UPI000289E28D | H A I I E E G Y D P E A I S L F I E W K M L P Y T G V Q P T L H Q C C A S C G A T E |
| UniRef90_E6TW49 | Q F L N E G D P E I I L T R I F E T K M L H V A G V T P V L T Q C C T S C C G S E S |
| UniRef90_UPI0002FA2695 | S Y I I D E G Y D K D D V L L Y I Y K L K M L D V L G I A P Q L N R C C A I C C G A S D |
| UniRef90_UPI000314F04F | H A I I A D E Y D P E A I A L F V E W Q M L P V T G I Y P T L H Q C C T N C G A T D |
| UniRef90_C1KVA7 | R D I N E G Y D P Q I I L T Q I F E M K M L P V L G L Y P T M D K C C A I C G E T T |
| UniRef90_UPI00037CC3E6 | H Y L I N E G I D A E I V L T R I F E V K M L A V A G I L K P E M D A C C V S C G S T D |
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| UniRef90_UPI0003F57101 | T W I S I E G K D A E I I T I I Y E L K M Y Q R A G F A P E L Q Q D E C I S C N Q P E |
| UniRef90_I8UEG8 | H L L I D E G V D P E V I I L S I F E M K M L V Q A A G Y G P Q L D A C I S C G R A L |
| UniRef90_UPI000370124A | S A M S E G K D P L T V I T N M Y E M K I L Q A A G Y G P Q L D A C I S C G R A L |
| UniRef90_B1HT19 | Q A I I E D G Y D P E S I T L F A E W K M L P Y T G V Q P I L H A C A A C C G A V D |
| UniRef90_A4IR14 | Q Y M S E G R D L E I M T F I Y E M K M L S V L G I P P V L D R C C A R C C G A T E |
| UniRef90_W4CK92 | N A L E E D K E K P G V I I N V F E M K I L Q A A G Y G P E F D S C I S C V I C G A E K |
| UniRef90_W7YHI1 | Q A L E E D K D P A I I I H L Y E M K I L Q A A G Y G P E L Y S C I S C G R E E |
| UniRef90_UPI0003B5E1F6 | R R I I D E G E D A E V L I R L F E V K M T A V A G I Q P V I D R C C A N C G R Q E |
| UniRef90_D7UZ94 | R D I I D E G Y D P E I I L V Q L Y F E M K M L P V M G F Y P V M D K C C A I C G E T T |
| UniRef90_W4BLA2 | Q A L L K E E K D P V V I I S L Y F E M K M L Q A S G Y G P Q F D E C I S C N Q E R |
| UniRef90_UPI00035CD56E | H Y M S E G V D P E I I L A L I Y Q T K M L P V L G L N P H F D T T C C T N C G E Q E |
| UniRef90_V6MDQ1 | G Y L I D E G R D A E I I L C R I F E T K M L Q V A G I S P Q L T C C T N C G E Q E |
| UniRef90_K2FMW9 | T Y I I D E G R D P E I V T M M F E L K I Y R K A G F A P V L S R C I N C G N S E |
| UniRef90_W7D277 | H H I I D E G Y E P Q V I L T Q I F E M K M L S V L G L Y P T M D R C C A I C G H V D |
| UniRef90_D3E525 | E A I L Q E D K D P Q I I I I N L Y E M K I L Q A A G Y G P E I L D V C C I S C C N Q S E |
| UniRef90_D6XWA2 | R R L I D E G D D P A V L L A I M E V K M L R Y A G V D P V L H Q C C A S C C G S V E |
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| UniRef90_F9DNC7 | H A M E E G Y D A E A I S L F V Q W K M L P V A G I H P I L H E C C A N C G A T E |
| UniRef90_J2Z7Z6 | R Y I I D D G F D P Q I I I T N I M E V Q Q L L Q I F G V A P R I L E S C C V V C Q R T D |
| UniRef90_H7F7R8 | K D I I D E G Y D A Q I I L V H I F E M K M L N V L G L Y P V M D K C C A I C G A T S |
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| UniRef90_I7KAZ3 | E A L E E S G K D P L I I V M S I Y E F K I L Q A A G Y G P Q L D A C I S S G Q Q E |
| UniRef90_UPI00036B8983 | E R I I D D D K D P E I I L T M I F E W K M Y K E A G F A P V V T Q C C V S V S C G N P D |
| UniRef90_D4MW50 | R A L E K K T D I E L V R C I Y E I K I L A L Y G I G I E A S R C C V V K C C G R E D |
| UniRef90_UPI00047A838F | T A L L A E G K D P Q I V L R A Y E M K I T V A A G Y E P V L D E C C V S C G R Q E |
| UniRef90_C6CTV4 | A A M E E G K D P Q I V S H L F E M R I L E A A G Y G P E L E I C C V N C S E Q G |
| UniRef90_V5XRH3 | Q R M D Q G D D P E I I I T N I F E I Q L L Q R F G I S P V W T H C A V C C G K T Q D |
| UniRef90_M1YZP9 | L A L D T G K D M E I I V A R I F E E L Q Y L G F M G N D P E L F S C C S I C R G R S D |
| UniRef90_F5SE00 | N L L E E E G V D P E I I I L S R I F E E L K V L E S A G Y R P R L Q G G C C V Q C G G A D |
| UniRef90_G5K5C5 | D L M E E G L D Y E I I I T N I F E I V Q I L L E R F G I V Q L N F H N C C V V F C H R A G G |
| UniRef90_H8L9D4 | Q R M D Q G D D P E I I I I T N I F E I V Q I L L Q R F G I A P I W T H C V V C G E T T |
| UniRef90_UPI00031F847E | T L I I D D G L D E Q I I I T N I F E I Q L L R A F G V A P E L Q R C C A V C C G R T D |
| UniRef90_UPI0003089C37 | R A L I I D E G K D A Q V T T H L F E M K I L L Q R T G V A P E L H T C C V V C C G R E D |
| UniRef90_UPI00038F9D2A | D G L R E G K D P A V V I H F E M K I L L E A A G Y G P Q L F Q C C I N C G S Q D |
| UniRef90_UPI0003B7A78E | S R L I E Q G T D P E I I L T R V I L R I L S L A G A S P V L D H C C A H C R Q S R D |
| UniRef90_E0I3A9 | E A M Q Q D K D P Q I I V S H L F E M K V L Q R A G Y D P Q L N A C I S C C E S E E |
| UniRef90_Q831U0 | S A L I N E Q K D P E I I I T N I F E I Q L L E R F G V R P E W H H C V A C C G E T T Q |
| UniRef90_W7CYM6 | E K M A A G E N A H V I S Q I F E L L K M L N V L G H Y P E F R G C C V L T G E T E |
| UniRef90_W7YM80 | H Q L I N N Q G D P E I M A R I F D L K M L G L A G A K P Q L D C C A S C G S Q D |
| UniRef90_Q88VS1 | Q L I I D Q D V A P A L V A N V V E I I Q L L Q P F G V A P E L R W C T V C G R S D D |
| UniRef90_S1P4L0 | N L I I N D G Y D A E I I I T N I F E I V Q V L L Q R F G V A P I I F D H C C V I C G K T S E |
| UniRef90_T0UAL3 | Q L I M D T D N D A E I I I T N I F E I Q L L Q R F G V S P I W T H C C A V C C G Q T E |
| UniRef90_F6B8E4 | Q L I I D L E G Y D P E I M L N I F E I V Q Q L L Q P F G V A P E L T G C C G Q S L |
| UniRef90_F4FUS5 | T D I I D E G Y D P E I M L N I F E I V Q Q L L Q P F G V A P E L R G C C V A C G T T E E |
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| UniRef90_UPI00035CCCEE | A A L I Q E G K D P Q I I T H L F E M K I I Q L L Q A G Y A P E M D R C C I H C G N Q E D |
| UniRef90_UPI00038067A9 | L W I I N N Q D E V D I P V I M Y E L K L I Y K K A G F A P V L H Q C C S R C G N Q E D |
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| UniRef90_UPI00029A3085 | T L I I D E G F D E R I I I T N I I I E I I Q L L N V F G V I A P N W Q G C C S V C C G R N D |
| UniRef90_R6LQX6 | D L I I N Q G L D P Q I I I T N I V L E V Q V L L N L G L V A P Q W D R C C V I C G N Q A |
| UniRef90_Q38XA1 | R V L I T K K I I P E I L V R Y I F E E L K A L S V S G E G P Q V F Q P Q V F R C G N R E |
| UniRef90_UPI0002490297 | N L I I D E G F D A A M I T H I I E I I Q L L Q V F G V Q P Q L Q G G C C V I C H Q T T |
| UniRef90_H4GHX2 | T L I I D E G F D E R I I I T N I I I E I I Q L L N V F G V I A P N W Q G C C S V C C G R N D |
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| UniRef90_A5USV2 | Q L I M D R G L D Y E I I I T N I F E M Q I L S R F G V A L N V H E C C C V C H R V G |
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| UniRef90_XOP943 | T L I I D E G F D A A M I T H I I E I I Q L L Q V F G V Q P H L E S C C V V V C C G R T D |
| UniRef90_B9DSQ8 | D L M E E G L D Y E I I I T N I F E I Q V L D R F G L H L N F N E C C V F C H R T G |

90 100 110 120

| QUERY | P E H P D P [L] G G Q L L C S K C A A [L] P P Y P P A V L D F L R H A V R R T V R A | G S F F S F R E G G F I C H R C L D K D P Y S P A A V K L L R L F Y Y F D L S R R | G S F F S I K E G G F I L C N R C F H K D P Y S P A T L R L L R T F Y Y D L N R R | G H F F S I K E A G F L C H R C L E K D P Y S P M T V K L L R L F Y F D L S R R |
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| UniRef90_UPI0001E89A66 | G S F F S I K E G G F I L C N R C F H K D P Y S P A T L R L L R T F Y Y D L N R R | | | |
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| UniRef90_UPI00030E8F35 | G F F F S I K E A G F L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_A0A023CL68 | G N F F S I V R E A G F L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_P42095 | G T F F S I V R D N G F I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_N0AY76 | G H F F S I L R E G G G L I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_UPI000365FB9E | G K F F S I L R E N G G L I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_UPI0002FA2695 | G V F F S T K E G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_C1KVA7 | G H F F S T S S S N G I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_V6SV86 | G D F F S I L R E G G G L I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_I8UEG8 | P I Y I S P R L G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_UPI0003B5E1F6 | G H F F S T H S D G I I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_UPI00035CD56E | P Y A I S I S Q G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_W7D277 | P F D F S I A Y A N G L V C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_D3E525 | D M I L V S P R L G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_D6XWA2 | P F Q F S I M T Y G G A I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI0002626461 | P F A F S I G E G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_F9DNC7 | G E F F S F Q Q I G F I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_J2Z7Z6 | P L D Y S Q S Y G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_H7F7R8 | G H F F S T H A D G L L V C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_B1YL74 | P F A F S I L N H G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_I7KAZ3 | D M F I S P R L G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI00036B8983 | L K V F S I S N G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_D4MW50 | L I W F D A R E S G G V V C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI00047A838F | P F R F S P L A G G G A I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_C6CTV4 | P F R L N P H A G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_V5XRH3 | G K F Y S S K Y G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_M1YZP9 | L V A F S I V R E G G G F I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_F5SE00 | P V K F S I L R Q G G G F I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_G5K5C5 | P F D F S H R Y S S G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_H8L9D4 | K F D Y S S K S G G G V I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI00031F847E | P F D Y S E K L G G G L I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI0003089C37 | G I A F G W R L G G G A I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI00038F9D2A | P F R L S A D G G G I L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI0003B7A78E | P V R I F S V T Q G G G F I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_E0I3A9 | P F A V S A G G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_Q831U0 | G K F Y S S K Y S G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_W7CYM6 | P F D F S I K H N G L I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_W7YM80 | I N F A F S V T Y A G G F I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_Q88VS1 | P L D Y S E S Y G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_S1P4L0 | G R F Y S S K F G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_T0UAL3 | G R F Y S S K Y S G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_F6B8E4 | T V R F G L R H G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_F4FUS5 | P F D Y S E A Y G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_K8EH67 | G I F Y S S S Y G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI0003F66C62 | G E T L S I R D G G G A I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI00035CCCEE | P H A F N V Q A G G G S I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI00038067A9 | G P F F S I Y R L G G G I L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_Q8CXD4 | G S K F S I R E G G G M I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_K0N8U3 | P L D F S E S Y G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| UniRef90_R6LQX6 | P C V F S V K E G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_Q38XA1 | L A F Y S E S Y G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI0002490297 | P L D Y S I K Y G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_H4GHX2 | P F D Y S E S Y G G G L L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_U5PAA3 | P F D F S F R L G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_A5USV2 | T E R F S P V T G G G A I C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_G2T1E4 | U N I F O R M A T I O N S U B S C R I P T I O N S U B S C R I P T I O N | | | |
| UniRef90_UPI000225B3A0 | U N I F O R M A T I O N S U B S C R I P T I O N S U B S C R I P T I O N | | | |
| UniRef90_UPI00042547D4 | U N I F O R M A T I O N S U B S C R I P T I O N S U B S C R I P T I O N | | | |
| UniRef90_UPI000360EE75 | U N I F O R M A T I O N S U B S C R I P T I O N S U B S C R I P T I O N | | | |
| UniRef90_K0JX64 | P H R F N V H A G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
| UniRef90_UPI00046AAAAAF | L A F Y S E S Y G G G V L C H R C L E K D P Y S P M T V K L L R L F Y Y F D L S R R | | | |
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| QUERY | S F E Q P V P S A D R P A L W R A L E K F V T V Q V G G V H S W R Q L V P |
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| UniRef90_E5WIP9 | L G N I S V K P E T K A E L K K I I S A Y Y E E Y S G N L K T K K F L |
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| UniRef90_D5DMM5 | L G S I S V V K P E T K K Q L K F V I D Q Y Y E E Y S G L L K T K R F L |
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| UniRef90_A6CSJ7 | L G T I S L K E S T K E E L L K K I I R T Y Y D E Y S G L L K S R K F L |
| UniRef90_UPI00030E8F35 | L G N I S S L K A E T K K E E L L S F V I D A Y Y E E Y S G H I K S K K F L |
| UniRef90_K6BZA4 | L G K I S V V K D T T K K E L L K T V I I S S L Y D E Y S G N L K S K R F L |
| UniRef90_D3FY31 | L G Q I S L K D E T K K E L L K L I I S A Y Y D E Y S G T L R S K R F L |
| UniRef90_Q65H74 | L G N V S S V K Q E T K D E E L L K R V I I Q T Y Y D E Y S G |
| UniRef90_A0A023CL68 | L G T I S V V K E K T K R E L L R T V I I S S Y Y D E Y L K T K R F L R Q I |
| UniRef90_L5N3Y8 | L G T I T M K E E E N K K L L R Q L M D D Y Y E R Y L K S K K F L R Q I |
| UniRef90_P42095 | L G N V S L K E E T K A E L L K Q V I D L Y Y E E Y S G L L K S K R F L |
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| UniRef90_UPI0003153827 | L G E I E L R D A T R S Q L R H V M R R F D E H L D R L K S R H F L |
| UniRef90_G9QPU0 | L G S I S V V K P Q T K K E L L R T V L S M Y Y D E Y S G L L K S R K F L |
| UniRef90_W3AB33 | V G S L K L K K E S K S L L K G I I V R T I Y E E Q A G R L K S R K F L |
| UniRef90_UPI000365FB9E | L G N I D V V K E S T K K E L L R A V I I S M Y Y D E Y A G L L K S R R F L |
| UniRef90_UPI000289E28D | V G S L T L K K E T K R F I L K N I V S T I Y E E Q T G R F K S K K F I L |
| UniRef90_E6TW49 | L G K I V N V K Q E T K K Q L L K E I I L S Y Y Y D E F V G H L K S K R F L |
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| UniRef90_UPI0003F57101 | I G N I S V V K P E N K Q L L K K L M E E Y Y E Y H I K S K K F L N Q I |
| UniRef90_I8UEG8 | L G N V T L L K Q S T T K D E I I R T V L S M Y Y E E F S G Y F K S K K F L |
| UniRef90_UPI000370124A | L G N V N I S D S T T K Q E I I K Q V I M R Q F M D M Q L G |
| UniRef90_B1HT19 | I G K I E L L K K E T K Y F I K K I I I T T I Y E E Q T G |
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| UniRef90_D7UZ94 | L G N I D V V K P E T K K L L R K V I D T Y Y Q E K T G L L K S K K F L |
| UniRef90_W4BLA2 | L G N I S V V S E S T R D E L I K K L M R A F M D H Q L G N L K S R S F L |
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| UniRef90_K2FMW9 | L G N I S M K K E N K E K L L R Q L L D R Y Y E Q Y G G Y L K S R K F L |
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| UniRef90_D3E525 | L G N V D V K D E T K A E L L K K V M R A L M D M Q L G R L K S Q N F L |
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| UniRef90_H7F7R8 | L G D I V N V K P E T K A L L E K T I D T Y Y E E K T G |
| UniRef90_B1YL74 | I G T V D V V K P E T K R L L R Q I I M D A Y Y M E R Y S G R L R S K R V L |
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| UniRef90_UPI00036B8983 | I G N I S V V T E N K M I I L Q R I I M D Q Y Y E E H G G Y L K S K R F L |
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| UniRef90_UPI00047A838F | L G N V A V V K D N T K R Q L Q V M R R W M D T H L G N L K S R Q F L |
| UniRef90_C6CTV4 | L G A I Q V K P E T K K E L L K K L M R E L M D A H I G |
| UniRef90_V5XRH3 | I S G I D L L K E E T K Q K I I R Q L I D L L Y E E Y V G Q M K S W E H I M |
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| UniRef90_F5SE00 | L G Q I R V V K E E T R R Q L L E R I I L R S F I D E Y I D P L R S R D F L |
| UniRef90_G5K5C5 | L K R I I P V K P E M K Q K L R Q F I D A I Y D D Y V G R L K S K K F I |
| UniRef90_H8L9D4 | I S G I I H L K E E T K Q A I I R D L I D Q L Y D E Y V G H L K S K K F I |
| UniRef90_UPI00031F847E | I T T I N V S P R T K R G L R R V L D L I Y E N S V G H L R S K R F I |
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| UniRef90_UPI00038F9D2A | L G N I Q V R P E T S K Q L L K T A L R V L M D T H L D R L K S R S F L |
| UniRef90_UPI0003B7A78E | M G E V T V V K A E T N E Q L E T T I L R A F M Q E H I |
| UniRef90_E0I3A9 | L G N V T L L K Q E T T K T E V K K A M R R L L D T H I G L Q L K S R S F L |
| UniRef90_Q831U0 | V Q N I Q V K E E T T K K S I I R E T I D M L Y D E Y V G H L K S K K F I |
| UniRef90_W7CYM6 | L G K I D V N D E V T K T Q V Q W A I I D T Y Y N E V S G N L K T K R F L |
| UniRef90_W7YM80 | F G T I T V V K D A T T K Q Q L I N H M L T F Y Y D E Y V G Q L K S K R F L |
| UniRef90_Q88VS1 | V H S I K V V K P R T A A E L I R R I I D E I Y Q N S V G R L K S K R F I |
| UniRef90_S1P4L0 | V K T I K V V N A E V K K E I I R R V I I D L F Y E E Y V G H L K S K K F I |
| UniRef90_T0UAL3 | I A S I K V K L P E T K T Q A I I R Q V I I D L L Y D E Y V G H L K S K K F I |
| UniRef90_F6B8E4 | L H Q I R V V P E A L R Q E L S R L L R S Y I E Y H L E R |
| UniRef90_F4FUS5 | L T H I K V V N D R T K K A L L R E V L D Q I Y S R S V G V V P K S K H F I |
| UniRef90_K8EH67 | L G E I K V V K E E T T K T E L L R R I I D M I Y D E S V G |
| UniRef90_UPI0003F66C62 | L G S I T L L H Q E T K T K E L L Q I I L D E Y Y Q N Y V G T L R A K R F L |
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| UniRef90_UPI00038067A9 | L G S I Q V S S T T K S E L L R A C I C I R G M L D T H |
| UniRef90_Q8CXD4 | I G N I R M K K E N V Q L I I R K I I L Y E Y Y D Q Y G G F I K S R K V L |
| UniRef90_K0N8U3 | Y E R I N V K P D T K A E L R R I I L D V I Y T D T M V G T P K A K R F L |
| UniRef90_UPI00029A3085 | L L N S I H V V K S T T K N I I R Q A L D Q I Y D N E V G L N L K S R H F L |
| UniRef90_R6LQX6 | L Y T F T L L S D E V L K E L L G K L M G R Y L D V Y V A H R F K S L |
| UniRef90_Q38XA1 | I Q S V V N V K E A T Q V E L I K M I I D R L Y Q D T V G K M Y S F D S Q L P |
| UniRef90_UPI0002490297 | L T S I V E V H E E T T K K H R Q V I D E I Y D D D G V G R L K S K K F I |
| UniRef90_H4GHX2 | V G Q I V S V V A D P I R K Q L L T W A L D K I I Y D D D Q V G R L K S K R F L |
| UniRef90_U5PAA3 | L E T T I S I H D A M K K E L L R K C L D Q L Y D E Y V G |
| UniRef90_A5USV2 | S G E L R I S P A T R A E T E S S L L R A Y I L R H I L E R D R S L A F L |
| UniRef90_G2T1E4 | L Y T F S V V S G Q V L E E L T T R L L R S Y F G V V Y V G H A F K S L |
| UniRef90_UPI000225B3A0 | L G N V S V K E E N R T L L R G L L D H Y Y E R Y G G Y L K S K R F L |
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| UniRef90_K0JX64 | V D T I P N A P R R E A S G L V A A H L Q W H L E R Q L R S L |
| UniRef90_UPI00046AAAAF | I Q S V T V K P E T E A A L K A I V D Q I Y Q N S V G L V L K S K Q F I |
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| UniRef90_S3B400 | V T D Y D R Y T A G T A M L E T A E R F T D E G E P N V Q Q Y L L L V G G L |
| UniRef90_N1ZN24 | T Q D I E L N A Y A S Y I L S L I E R L T T E D L V N L G W F L R V K K A L |
| UniRef90_M7E7A6 | N A D I F R L S Y A S Y I V A L A D A A I E D G R H D A P L F A F L V K T L |
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| UniRef90_UP10003FED23 | R E D I I K T A Y A A Y I V E L T D K L S D D D K D P D T F I F E Q L F E T M |
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| UniRef90_R7FZ72 | L R T D V E G A Y Y G F Y F M D L A G Y Y A R E A N D E T E M L K L L Y Q T L |
| UniRef90_H3NEU4 | I Q Q D I F K N A Y G T Y I C G L V I D A S M E D R I P A P G L Y N Q A I G L |
| UniRef90_W7ZSD7 | D L F K A A H A A Y I T E L L E K L T E E R R P Y V F L F D L L L L A L |
| UniRef90_R5AV96 | L R A D L G A F A L G S Y F A E L E T V S A E E Y P D P P V L Q L G L N S L |
| UniRef90_F6DMX4 | L R G D L D R L T A A Y V A D L L D G F T G G E P A M Y L F G L L L G T L |
| UniRef90_C2ESB0 | I A S D L S K N A Y A T Y I L L A V I D S A F Q D G Q G I G G W F N Q V A A A L |
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| UniRef90_D8I099 | P L V A D Y Q S Y T A A S A I A E T A D R L A E E G E P V L K L Y L L V V G A L |
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| UniRef90_D6S5L2 | I Y S D L T L N S Y A C Y L C D L V D H A F V E Y Q S L G E F Y N L I L V A L |
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| UniRef90_D7AND5 | I E K D L V K F S V A S Y I S E T V N K I L E E N Q K S E K L Y Q F L K H S F |
| UniRef90_R6B2F6 | I R K D L D K L T Y A S F I S R L V Y D V T D E N Q Y T Y K L Q L L L N T L |
| UniRef90_R5YEZ7 | I V T D L D A A S L G F Y F M E F A E Y F C Q E N N D E R M M L K L L Y Q S L |
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| UniRef90_R6QCE9 | P L K S D L W L T S C A L Y I T E L I N Q F T A D H I E N Y P L F Q L L E T M |
| UniRef90_X1V8I0 | P Q E E L E A T Y Y G C Y F L E F A D Y Y C Q E N N D E R E M L K L L Y Q S L |
| UniRef90_D4KNM5 | I V T D Y P A Y T A G T A V L E T A D R L T A E E E P S L R I L K L L V I G A L |
| UniRef90_D2SDC6 | I L R T D L E L L S L G T Y F A Q V A E V L S Q E D D P N P A L L S S L T L N A L |
| UniRef90_R6H0W8 | I L R S N F E L L S L C A S Y L V E L V I E A P S V E G G D P N E Y V F L L L V S I F |
| UniRef90_C8W3M8 | I L R A D V V G A Y Y G F Y F L E V A N Y Y A R E R R N D E R E L L K L L Y Q T M |
| UniRef90_R6NYC6 | I L K T D L D G I T Y G T Y F C L E L A E H L T H E N L D D R E E Q L K L L Y V T L |
| UniRef90_R5JSZ4 | I R S D L E R R L S L A S Y F A E V M E A V A V E G R P D P P A L S L I L N S L |
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| UniRef90_R9MH4 | I N Q D I F T L L S Y A T Y I T A L T D A A L K D N E I D A Q L F A F L K K T L |
| UniRef90_M5PSV4 | P L L N D L D K L T Y A S Y F C E L I D I S M Q D E E S N R E F K L L I T A F |
| UniRef90_C6PTY4 | P L S R D F S R W T A G Q A M L E T A D R L T E E G Q P A V Q Q F L L L V G A L |
| UniRef90_C6KU2 | P P R E D L K R L S Y A S Y L V E A V T A T E R F T D E G E P A V Q Q Y L L L V G A L |
| UniRef90_R8MG71 | I S D L D L A V C Y A C Y F A E I A D Y Y G R E N L D A D M L N L L Y V S L |
| UniRef90_UP100036F0F96 | P L V G D Y Q R Y T A A S A I A E T A D R L T E E G E P A M R L Y L L V V G A L |
| UniRef90_UP10003776B72 | I V T D Y D R Y T A G T A M L E T A E R F T D E G Q P A V Q Q Y L L L V G G L |
| UniRef90_UP100036D4215 | I L R T D V I L L S L A S Y F C E L I D I S M Q D E E S N R E F K L L I T A F |
| UniRef90_NEDLF6 | P L I V A D L K L T Y A S Y F C E L I D I S M Q D E E S N R E F K L L I T A F |
| UniRef90_R5IKR6 | I V A D Y R R Y T T A C A V L E T A D R V A E E R E P V L R M Y L L V V G V L |
| UniRef90_K1LKH9 | I V T D Y D R Y T A G T A M L E T A D R L T E E G Q P A V Q Q Y L L L V G G L |
| UniRef90_K1ERK7 | P I P H E D L K H A Y G I Y L A Q L I D A S I N D R E N H P E L F A F L L Q D A L |
| UniRef90_R0ERV4 | I F Q D I E L N A Y A T F L L N L V D A A F D D D N F K I E A W F D R L A R A L |
| UniRef90_R5LL26 | I L T S D L Q K T Y T A Y F F E L L A E Y F T V E N D E S M M L N L I Y A S F |
| UniRef90_R6Y106 | I K K D L L K I S Y A S F I L L E T S Q V L K Q T N E K D I F E L L E E T L |
| UniRef90_Q04N32 | I N S D L F V M A Y A T Y V A A L A D A S L Q D N Q Q D A P L F A F L E K T L |
| UniRef90_UP1000378FCEC | I E E D F L F K L S Y A T Y I M A L A D A A I P D N Q V D A P L F A F L E K T L |
| UniRef90_R7IL90 | I M E D M D R I S Y G F Y F E L L A Q Y F G V E N M E S K N M L L L Y Q S L |
| UniRef90_D9T9H7 | I L G D Y P R Y T A A S A I A E T A E R L T P E R E P S L R I L F Q L T L G A M |
| UniRef90_UP1000367B2E3 | P I A G D Y P R Y T A G Q A M L E T A D R L V P E G E P A I Q Q Y Q L L V V G A L |
| UniRef90_F5XMF3 | P L T G D Y P A Y T A G Q A M L E T A D R L V P E G E P A I Q Q Y Q L L V V G A L |
| UniRef90_D4J8T1 | I R K D M D A T C Y G C Y F L E F A D Y Y G R E N A D D L E M L K L L Y Q T V L |
| UniRef90_S1NW04 | I Q Q D I F M S A Y T Y I L N L A D A I E D R I Y D P N L Y H F L R E A L L |
| UniRef90_UOEFP4 | I V V D D Y S R Y T T A C A V L E T A E R L A E E R A P A P Q L Q R L T V G A L |
| UniRef90_N4WWQ8 | I R E D I F K T A F V S Y L A E L T D K L I D D K Q F N P K I Y H Q L L H T V |
| UniRef90_UP10003B703BF | I R S D F T R I T Y G C Y F L E F A D Y Y G R E N A D D L E M L K L L Y Q T V L |
| UniRef90_U7JGB4 | P I R L D D Y Q L F T A A E V M V E T A D R L V P E K E P D P V Q Y R L L A G G L |
| UniRef90_V9XE64 | I V V D D Y S R Y T T A C A V L E T A E R L A E E R A P A P Q L Q R L T V G A L |
| UniRef90_R5VHZ1 | I R Q D I L D A L Y M G L Y F C E V A D Y F T T R E G M N A K E E L N L L Y V S L |
| UniRef90_Q3D8F9 | I S D L F K L S Y A S Y I T S L A D V X L S D N V A D A Q L F I F L K K T L |
| UniRef90_A5FRN7 | I R N S L Q L S A M A F Y A C E L Y H F S P E E A A N P A L F Q L L S T L |
| UniRef90_G5JXM0 | I N A D I Y K L A Y A S Y I V A A L A D A A I S D G F Y D A H F S F L V K T L |
| UniRef90_UP10003B4EE74 | P I L A D Y E R Y T A G Q V M L E T V D R L V V E N E P A L R H Y L L L A G A L |
| UniRef90_E4L241 | I N Q D I Y R L A Y A T Y V M S L V D A I P D N E P D S Q L F A F A R K T L |
| UniRef90_M5J5T5 | I V E D I T L N A Y A T Y I L E L S R A F G D D Q L A I K W Y A T I E Q A L |
| UniRef90_R5RGMG6 | I T T D Y D A L C Y A S Y F A E M V Q Y L S R E G I E A A E L L L M Y T T M |
| UniRef90_UP1000237A465 | I V D D Y Q R Y T A A C A V L E T V D R L A E E G E P V L R L Y L L A I G A L |

| | 50 | 60 | 70 | 80 |
|------------------------|---|----|----|----|
| UniRef90_G9WH52 | E K I N S G L D P Q I I A N I F E I Q L L T V F G V E P N L D P I D H T Q Q G | | | |
| UniRef90_F5LCH1 | M A I E Q E K D M Q I V A H V F E L K M L A A S G Y T P V L D K C A S C G R T E | | | |
| UniRef90_G5KFL3 | T L M N E G L D Y D V L T N I F E I Q L L D R F G V Q L N F D D C L F C H R K A | | | |
| UniRef90_S3B400 | R T L A S G H S A G L V L D A F L L R S L A M G G Y A P S F A D C A K C G L P G | | | |
| UniRef90_N1ZN24 | E L I D D G F D P A I I T N I I E I I Q L L A S F G V R P Q L E S C V I C Q N T T | | | |
| UniRef90_M7E7A6 | E L M E Q G G D Y E I I L T N I F E I V Q I L L D R F G I Q L N F H D C A L C H C A G | | | |
| UniRef90_R3W3Q7 | S L M N T E V D A E I I T N I F E I V Q L L Q R F G V S P T W S H C C V L C G Q T Q | | | |
| UniRef90_UPI0003FED23 | K W I E K N D D V N I P T M M Y E L I K L Y G K G G F A P T L D R C S N C G N T P | | | |
| UniRef90_UPI00037AD747 | E L M D K G L D Y E I I L T N I F E I I Q V L E R F G V Q L N F H E C C A I C H R V G | | | |
| UniRef90_I7L7E1 | T K I I N S G F D E E I I K Q M I E L K M L K Y F G V A P K L D S C L V C H K T Q | | | |
| UniRef90_E2SB19 | R A I T E G H N P G M I L D S Y Q L L R A L A I A G Y A P S F G L C A R C G A P G | | | |
| UniRef90_R7FZ72 | R A L T N V H P E L I R C Y E L K T I T V N G E G P Q V M E C I M C G D R E | | | |
| UniRef90_H3NEU4 | E L L D Q G Q L D G Q V I M N I F E V K V L L Y Q F G V M P E L R G C C V I C Y R Q D | | | |
| UniRef90_W7ZSD7 | K Q I D T G Q D P E L I A R I V D L K M L T V A G A K P N L D D G C C A S C K S V D | | | |
| UniRef90_R5AV96 | Y A L S R A L P P E Q I K A V F E L R L M C L A G Y E P D L E H C C A Q C C G A A E | | | |
| UniRef90_F6DMX4 | H L V S G G H R E M A L R A F E A K L M E L A G F K P E L E H C C S A C C G A S L | | | |
| UniRef90_C2ESB0 | D L I I N S G L D E Q V I A N V I E T Q L L V R F G V A P T W D R C V I C G R D D | | | |
| UniRef90_R6EAU1 | R A L T N P H I P R L I R Y I F E L R A L C I N G E G P Q V F Q R C C I S C G K T G | | | |
| UniRef90_D9S2Q9 | Y L L Q V W E D L E F M A R I F E L K L M A L Q G Y T P Q L S H C C V N C R N D E | | | |
| UniRef90_UPI000476820E | R A L D R S H P P E L I L D A F L R A M G F S G W A P S L T E C A R C A A P G | | | |
| UniRef90_R5TNA2 | R A L N V I S L S P K E L I L D A F L R A M G F S G W A P S L T E C A R C T S C G S R E | | | |
| UniRef90_UPI0003B6C7F8 | R A L E S H K D N K L V R V I F E L K V L T I E G I A P M V F R C C I G H S E E G | | | |
| UniRef90_A0A059MPV5 | R A L S D Q R P P E L I L D A Y L L R A M A Y A G W A P A I S R C A R C D E P G | | | |
| UniRef90_A4J7D2 | H L I A V G N S E M I L R G F E A K L L G F S G L Q P D L T N C C S V C G A E I | | | |
| UniRef90_W7IEB3 | R A L A D G R D P S L V L D A F L R A L A F A G W S P A L S E C C A R C C G D P G | | | |
| UniRef90_D8I099 | R A L A D G R D S S L V L D A F L R A M S Y A G W A P A L T E C A R C G L P G | | | |
| UniRef90_A0A101ZT99 | R A L T V G H D A P L V L D A Y L L R A M S Y A G W A P A L M E C A V C C G L R G H | | | |
| UniRef90_G2KU80 | N L I N N G F D A E I I I T N I F E I Q L L P L F G V A P D F K N C T V C H E E H | | | |
| UniRef90_F8B4N3 | R T L A Q G E R P S L V L D A F L L R A L T I L A G Y G M A L A D C A H C G D P G | | | |
| UniRef90_Q9CJD9 | E L L D Q G G F D M E V V T N I F E L Q V L H R F G I S L N F S E C A F C H K T G | | | |
| UniRef90_W9EIP3 | T F I I N N G F D P E I I I T N I V E I Q L L P L F G V A P E W H H C C A A C C G L D K | | | |
| UniRef90_D3Q0J9 | R A L D A E H A A T L V L D A Y L L R T M T G V S G W A P A L T E C A L C G A A G G | | | |
| UniRef90_D6S5L2 | T K L I N A G Q D P E I I I C Q V L E L Q M L A A Y G V R P Q F K Q C A I C G E H | | | |
| UniRef90_W7SDA8 | R A L L D R Q R D A G L V L D A F L L R A M G F A G W A P A V T E C A R C G T P | | | |
| UniRef90_R7BMJ7 | K A L L D L D K R I P N L V R N V Y E L K Q L V I N G Q Y P E F F C C A E C G S T G | | | |
| UniRef90_F9HEQ7 | E L L M N Q G L D Y E I I L T N I F E I I Q L L S R F G V G S L N F H E C C V F C H R T Q | | | |
| UniRef90_A4VYJ7 | D L M E S G L D Y E V L T N I F E I I Q L L G R F G I S L N F H E C C A F C H R V G | | | |
| UniRef90_UPI00037BCF54 | E A L A Q G K D A Q I V I R A F E M K I V Q A A G Y A P L L D A C A N G N P E | | | |
| UniRef90_D7AND5 | K A V N E Q I D P L I F I V S Y N L K L V S I L L G Y M P Q L D N C C I V C G R E D | | | |
| UniRef90_R6B2F6 | Y I I S E T D D K D F I L S V F E L L R L M V L L G Y S P R L G K C C V S C G S P E | | | |
| UniRef90_R5YEZ7 | R A L L E S P H I P E L V K V V F E L K A I T I N G E G P E V F F S C C M K C H D K E E | | | |
| UniRef90_UPI000466153F | R I V V K R S S L S L I R C I F E L L K M I C L E G E A P Q V F F S C C T Q C C G S T E | | | |
| UniRef90_R6QCE9 | R A L E K K T D P K L I R R V Y E I K L M A L Y Q G Q G M E V F F C C V S C H S P L | | | |
| UniRef90_X1V8I0 | H R L C Q A D D N E L V L H Y F E L R R L L D E V G Y R P Q L Q Q C C V S C H S P L | | | |
| UniRef90_D4KNM5 | R A L S A A Y D K R L V R F F E L K A M A V N G E A P N V F S C C R R C G E K E | | | |
| UniRef90_D2SDC6 | R A L S E R T H P A L V L D A F L L R A M S V A G W E P A L G G C C A R C G E E E | | | |
| UniRef90_R6H0W8 | Y A L G K L R K P Q L V K A V F E L R A A C L A G Y T P D L E G G C C R S C G N P E | | | |
| UniRef90_C8W3M8 | H L L N P L D A E L L T R A F E I I K L L T V F G F R P H W E S C C V H C R E P G | | | |
| UniRef90_R6NYC6 | R A L T N P H L P Q L I R Y I F E L L K V L T I N G Q G P Q V F Q V Q C G R T R | | | |
| UniRef90_R5JSZ4 | R A I A K K Q V P E L I R R I Y E L K R A M A L D G E E M Q V F S C C V R C G N Q | | | |
| UniRef90_H1C9M2 | Y A L D R L N R P E L V K A A F E L K L M C L E G Y E P L L D A C C A V C G A P E | | | |
| UniRef90_R9MH4 | R A L V N P N P I P N L I R Y I Y E L K A V S V N G E G P Q V F S C C V C C G R E K | | | |
| UniRef90_M5PSV4 | D L M E E G L D Y E V M T N I F E V Q I L L D R F G V R L N F H D C C V F C H R T G | | | |
| UniRef90_C6PTY4 | Y F L N K V V D I E L L A R A F E I I K A L Q A T G Y G F N L E H C C M C R K K I | | | |
| UniRef90_C6KVU2 | R V L N E G R E T S T I L D S Y I L R S L A V A G Y A P T F T D C A K C G S P G | | | |
| UniRef90_A8MG71 | F L L K K S D E I N P I V R A F E I I K L M N Y L G Y K P Q L M S C V N C D S K E G | | | |
| UniRef90_UPI00036F0F96 | R E L M D E G L D Y E I I L T N I F E V Q V L Q V L D R F G V R L N F H E C C V I C G S T G | | | |
| UniRef90_UPI0003776B72 | G L I N E E L D P A I I T N I F E I I Q L L E R F G V K P F L E S C C V I C G S T G | | | |
| UniRef90_UPI00036D4215 | R A L I A D G R D A S L L L D A F V L R A M A F A G W S P A L G E C A R C G L S G | | | |
| UniRef90_F8JP08 | R T L I S G G H D A R L V L D A F L L R S L A V V G G Y A P S F E A C K A R C G M P G | | | |
| UniRef90_R7HGF6 | K A L L A N K K I P D I V K C F E L R M A I L N G E C P E V F A C K K N C G T Q D | | | |
| UniRef90_UPI00036FC5E9 | N A L S Q G E R P T L V L D A F L L R A M A Y A G W A P A I I T E C A R C G L P G | | | |
| UniRef90_D6B049 | R A L I A D G R D A S L V L D A F L L R S L A V V N G Y A P S F L G D C C A R C G M P G | | | |
| UniRef90_R5IKR6 | R T L I A R G H A P R L V L D A F L L R S L A V V N G Y A P S F L G D C C A R C G M P G | | | |
| UniRef90_K1LKH9 | Y A L A K K K P P Q L V K A A T E L R L A L A I L A G Y L P E L S G C C V C G D P E | | | |
| UniRef90_K1ERK7 | E L M V K S T M Y P V I A T Y V E L F L L I P Y F G V H F D F H C V V C H K P H | | | |
| UniRef90_R0ERV4 | R T L I A Q G H A A E L V L D A Y L L R A L A I A G W A P S F H D C A Q G D E G | | | |
| UniRef90_R5LL26 | T L I I D A G N D A E V I T D L I I Q I Q L L N S F G I A I V W D H C V V C G R R R D E | | | |
| UniRef90_R6Y106 | S A L V K G R N P R L I R Y I F E L K T L V I N G E Y P E F F V C R N C G T K E | | | |
| UniRef90_Q04N32 | L K I I E D G Y D P I I T N I I L E L K Y L D Y L G I K P V L D S C A V C G R P S | | | |
| UniRef90_UPI000378FCEC | E L L M E A G L D Y Q V L L T N I F E I I Q I L T R F G I S L N F N E C C V F C H R V G | | | |
| UniRef90_R7IL90 | S S L M D E G L D Y E V V L T L I F E I I Q I L D R F G V Q L N F H E C C T F C H R V G | | | |
| UniRef90_D9T9H7 | R A L I I H S L D N R L V R R I Y E L K M L C F H G E Y P G M F E C C V F C H R V G | | | |
| UniRef90_UPI000367B2E3 | K S L I A R G E H A T L V L D A Y L L R G M A F A G W A P A L A A C A V C G E P | | | |
| UniRef90_F5XMF3 | R T L I A G G H A P Q L V L D A Y L L R S L A V V N G Y A P S F G N C A R C G M P G | | | |
| UniRef90_D4J8T1 | R A L I C K K T I A P L I R C I Y E L K I M A V N G E C P Q C E C A C C H T T E | | | |
| UniRef90_S1NW04 | F L I D Q G Y Y D A E I T N I I F E I I Q I L Q R F G V I N W Q Q A V C G Q A N G | | | |
| UniRef90_UOEFP4 | R A I I A E Q A R R P E F V L D A F L L R A M G Y A G W A P A I E E C C V F C H R V G | | | |
| UniRef90_N4WWQ8 | Q R I I D Q E A D A Q V L A M I Y E W K M Y K E A G F A P V I H Q F D C C V F C H R V G | | | |
| UniRef90_UPI0003B703BF | Q F L I A D A D D V P L L I A R G F E I I K F L D C A G G Y G P E L S Q C C V F C H R V G | | | |
| UniRef90_U7JGB4 | R T L I G H G R P A E T I M D S Y I L L R A L S A A G Y A P D L Q D C C V F C H R V G | | | |
| UniRef90_V9XE64 | R A V I D R T R P P E L V L D A Y L L R A M A Y A G W A P A I T H C A R C D R P G | | | |
| UniRef90_R5VHZ1 | H A L I T R K E I P E E L V R R I Y E F R M L Y I E G V A P R I Y Q C C V F C H R A G | | | |
| UniRef90_Q3DF89 | E L I I D E G L D Y E I I T N I I F E V Q I L L E R F G V A L N F Y D C C V F C H R A G | | | |
| UniRef90_A5FRN7 | E E L I D N G S Q P E L I C L K Y F E I I N L L I A S S G Y K P E L R E C A N C H K K I | | | |
| UniRef90_G5JXMO | E L M D E G L D Y E I I T N I I F E V Q I L L E R F G V W L N F H E C C V F C H R V G | | | |
| UniRef90_UPI0003B4EE74 | R V L G E G R S A G M I L D S Y I L L R S L S L A G Y S P S L D S C A A C G R V G | | | |
| UniRef90_E4L241 | D L M E E G L D Y E I I T N I I F E I I Q I L L E R F G V R L N F H E C C V F C H R V G | | | |
| UniRef90_M5J5T5 | F L I I N Q G L D P L I I T S V I E L Q M L Q L F G V Q P E L K H C C V F C H R V G | | | |
| UniRef90_R5RMRG6 | R A L I Q N R R S F E L I I R V I F E M R L M L T E G E G L L E R F R C C L H C G K E E | | | |
| UniRef90_UPI000237A465 | R A L I A R E R D S S Q V L D A F L L R A M S F A G W A P A L A E C A R C G E A G | | | |

| | 90 | 100 | 110 | 120 |
|------------------------|---|-----|-----|-----|
| UniRef90_G9WH52 | E F D F S E K Y N G I L A K Q H F A M D E H R P A A I Y Y L R M F S R L D L E K | | | |
| UniRef90_F5LCH1 | E A A F S A A A G G A M C S R C K H D P Y A A A T L K L M R L L Q Q V D L S R | | | |
| UniRef90_G5KFL3 | Q A F F S Y R Y S G V I C P E H F S K D E V D P N V I Y L I N R F Q N I Q F D D | | | |
| UniRef90_S3B400 | P N F F S V A S G G V V C G D C R V P G S V S P E A L R L L G A L L T G D W E T | | | |
| UniRef90_N1ZN24 | R A F Y S E S Y G G L L C Q A H W H D P Y R K R T V Y Y I L R L L S V V D L N R | | | |
| UniRef90_M7E7A6 | P F D F S Y K Y S G G L L C P Q H Y E K D S Y R P N V P Y L L D R F Q S I S F E D | | | |
| UniRef90_R3W3Q7 | G K F Y S S K Y N G G V L C Q N H W S A D E H R P R A V H F A R L F S A I S Y D K | | | |
| UniRef90_UP10003FEDE23 | P F V F S I A E G G I L C H H C R S M D R L S E L L A K L L R I L F A T V N L Q R | | | |
| UniRef90_UP100037AD747 | P F D F S H R Y S G G L L C P D H Y Q D A Y R P N V I Y L L D R F Q N M K F E D | | | |
| UniRef90_I7L7E1 | G I F F F S L E K G G G I V C S D H F N Q V P L N P K T V S L L I R T L A L I D I D R | | | |
| UniRef90_E2SB19 | P H R F H A P S G G G I L C D T C R G S A A P S P S A V T L L Q Y I V C S P V E K | | | |
| UniRef90_R7FZ72 | R E V F S I L R R G G V I L C T Q C A G G I R L L P S T L Y T L Q Y I V C S P V E K | | | |
| UniRef90_H3NEU4 | G R F Y S S R L H G G L L C P E H F D R D D Y R P R A V H F I R Q F A Q L N I E K | | | |
| UniRef90_W7ZSD7 | P I A F S I P F A G G F I L C R S C V H R D P V S L S M V M K I R T L Y Y V D L T K | | | |
| UniRef90_R5AV96 | P D W F S P R G G A V C A H C R A V T P L L P E T L A A M R H V N A D P K K | | | |
| UniRef90_F6DMX4 | V E W F S S R Q G G G L L C R E C A G M E N F N R G T L E S L K I L Y R W E L S K | | | |
| UniRef90_C2ESB0 | P L D F S E Q Y G G M L C C R N H W H D L D Q R T V Y Y L Q R F S T L N L Q K | | | |
| UniRef90_R6EAU1 | Q L V F S V V K K G G G L V C P D C G K G I C L N Q S T L Y S M Q Y I E S S Q L E K | | | |
| UniRef90_D9S2Q9 | E I R F S H A L G G G I L C E K C R G S D E I S R A V L M M M R R M L K G K F E D | | | |
| UniRef90_UP1000476820E | P H R F H V A A G G G S V C V H C R P P G S A T P G V D L M V A L E R G E W D | | | |
| UniRef90_R5TNA2 | Q L W F D E K S N S N G V M C R E C Q P G P P L D E A A L Y T M Q Y I V T A P V E K | | | |
| UniRef90_UP10003B6C7F8 | L N Y F S I E H S G I L C P K C A K V Y K I S D A T R Y T M Q F I I S Q K I E K | | | |
| UniRef90_A0A059MPV5 | P H R F H V A A G G A V C V R C R P P G A A T P G A L D L M D A L F H G R W Q | | | |
| UniRef90_A4J7D2 | R E T F A V Q V Q G G G L L C K D C A T H E K F S R G T V E V L K T L Y R W E L T K | | | |
| UniRef90_W7IEB3 | P H R F S I Q V A G G G S V C P R C K P P G S A S P E V L T L M A A L A D G T W A V | | | |
| UniRef90_D8I099 | P H A F S V A A G G G S M C Q D C R I A G C V A P E V L A L L T A L L H G E W P | | | |
| UniRef90_A0A101ZT99 | A H R F S V Q A G G G C V C G N C R P P G S A S P S T E A L E L M V A L L D G D W | | | |
| UniRef90_G2KU80 | Q I Y Y S E K F G G G I L G E Q E F A H D S H R M R T I Y Y L R L F S A V D I T K | | | |
| UniRef90_F8B4N3 | P H H F S V P A G G V V C P E C R P H G S M S P A A V K L L S D L L T G D W D R | | | |
| UniRef90_Q9CJD9 | P F D F S Y K F S G G I L C P Q H F D E D H L D P N V I Y L V N L F Q E I S L D E | | | |
| UniRef90_W9EIP3 | S V Y Y S E K Y G G G L L C C A A D F A L D S H R M R T I Y Y L R Q F S A I D M M K K | | | |
| UniRef90_D3Q09J | E H R F S V A A G G G C I C R R S C R P A G S A S P A A I T L M R A L A K G D W R S | | | |
| UniRef90_D6S5L2 | P F D Y S S I S A G G G V I C Q K H F A R M M H L D A Q K V A M I R T L L G L V N I N R | | | |
| UniRef90_W7SDA8 | P H A F S V P A G G G S V C G T C C R P P G S A S P A T L S L L D A L T H G D W A L | | | |
| UniRef90_R7BMJ7 | N N G F S I L L R N G G V V C A S C C R N Q T D I S P A A L Y A L Q F T V S T P I D K | | | |
| UniRef90_F9HEQ7 | P F D F S F K W N G L L C P E H Y Y Q D E L H P N I P F L L N Q F Q S V E F E T | | | |
| UniRef90_A4VYJ7 | P F D Y S S I S A G G G V I C P Q H Y Y Q Q D E L D P N V P Y L L D Q F Q A I S F D E | | | |
| UniRef90_UP100037BCF54 | P F R L S A A A G G G V L C L R C C S G R D P L E E G G A W K L L R L F A A L D L R R | | | |
| UniRef90_D7AND5 | L K Y F S S N S C G G G V V C N N K C F D A R P L I H E V A L K A I K Y F F K G D Y E K | | | |
| UniRef90_R6B2F6 | N I Y F S I A H S G F L C C N N C C G R V D K V I T K D T F D A L K Y I C T A P A K K | | | |
| UniRef90_R5YEZ7 | N Q F F S V Q R G G G M C C R D C C V S K R R V G Q S T V Y A L A F I V A T P V E K | | | |
| UniRef90_UP1000466153F | P Y W F S A A K G G G L L C C S N C T K S G H I S G S A V Y T L L Q F I I S S P P E K | | | |
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| UniRef90_X1V8I0 | T N A F S P R A G G G V L C C P K C C S R S Q P L I S V N A L K V L R L L Q S S D Y D T | | | |
| UniRef90_D4KNM5 | N R W F M T R R G G G C I C E T C E K K D P L E E S T L Y T M Q Y I I S A R V E K | | | |
| UniRef90_D2SDC6 | P H H F S V P A G G G M V C C P P C C R P T G S A N P A T V E L L D A L L T G D W D A | | | |
| UniRef90_R6H0W8 | P D R F D L E G G G C L E C A H C R S G D A V T P G I L A A M R H V A A C C P A S R | | | |
| UniRef90_C8W3M8 | E I R F S P A M G G V L C C Q S C L E Q D A L L N R G T L E T M K K L L A W E P S Q | | | |
| UniRef90_R6NYC6 | P A V F S A A K G G G V I C C N E C R D G M F L D G S T L Y T M Q Y I E S S T I E K | | | |
| UniRef90_R5JSZ4 | T G Y F F R A R Q G G G V C V D H C M V D Y L N P S T V Y T L L Q F I I L S T T L E K | | | |
| UniRef90_H1C9M2 | P E L F H L N E G V L C C A A C R A A I P L E E G G A L A A M R H V Y G D P K R | | | |
| UniRef90_R9MH4 | E Q V F S V K R G G G L L C C R D C C A G R A R L L S S T L Y A M Q Y I V A T P V E K | | | |
| UniRef90_M5PSV4 | P F D F S H K Y S G V L C P Q H Y H E D H L D P N V V Y L L D Q F Q A I I H F D E | | | |
| UniRef90_C6PTY4 | N N Y F S F Q Y S G G V V C C Q E C A K G I N V S Y P A Y N A L K Y I S K I P L E N A | | | |
| UniRef90_C6KVU2 | P H R F S P A A G G G V V C C G V C C R P P G S V R P A T L A Y L T A L L V G D W P A | | | |
| UniRef90_A8MG71 | T T A F S A T E E G G G L L C C S S C C Y S A D K I S N T A V K L A I F L L M K D I T E | | | |
| UniRef90_UP100036F0F96 | P F D F S H K Y S G V L C C P Q H Y E K I D Q H R P N V P Y L L D R F Q T V S F E E | | | |
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| UniRef90_UP100036D4215 | P H A F S V P L G G G T V C C G Q C C R P A G A S R P A T I S L M R A L L D G D W D E | | | |
| UniRef90_F8JP08 | P N F F S V V A S G G G V V C C G Q C C R V P G S V V P S A E S L E L L G A L L A G D W | | | |
| UniRef90_R7HGF6 | L D T Y S M T A D G I Y C H A C H G Q A P L E E S T V Y T L L Q Y I V T A P L E K | | | |
| UniRef90_UP100036FC5E9 | P H R F S V P A G G G V V C C V N C C R P P G A H P T A I G L M N A L L E G N W D A | | | |
| UniRef90_UP1000477494A | P H A F N V Q A G G G L L C C G N C C R V P G S V H P A P E V L V L L E S L L H G D W | | | |
| UniRef90_D6B049 | P N F F S V V A A G G G S V C C G E C C R V P G S V S A E A V G L L S A L L S G D W | | | |
| UniRef90_R5IKR6 | P D R F S I A A D G T L E C A S C R A S D P L S A A S L A A M R Y I V S C P D K K | | | |
| UniRef90_K1LKH9 | E M D F S S M R L N G M I L C S D H A H D L S P K V V Y L L Q V L S K A K L K Q | | | |
| UniRef90_K1ERK7 | P H R F H V A H G G V L C C R S C R V P G S S A P A P E T L E L L A A L L V G D W | | | |
| UniRef90_R0ERV4 | L A D Y S E S R G G M I L C C Q N H W H L D E H S V K A A K T M A M L S L V S I F K | | | |
| UniRef90_R5LL26 | L T G F S I F H D G I L C C K D C A K V M E I N G S T T L Y A L Q Y I V Y S D I K N | | | |
| UniRef90_R6Y106 | A I T V S T S K G G G F V C C A N C H T T N E K V D K K T I N V L R K L Y H V D I S K | | | |
| UniRef90_Q04N32 | Q A F F S F K Y G T C L C P E H Y H E D E L I N P N I P Y L L N Q F Q A I I D F E T | | | |
| UniRef90_UP1000378FCEC | P F D F S F R Y S G G L L C C P N H Y D K D Y L D P N V P F P L L D R F Q S I S F D E | | | |
| UniRef90_R7IL90 | K L D F S I V Y N G V L C C G N C H S A D E L D T S T I Y T M Q Y I V A S E I S K | | | |
| UniRef90_D9T9H7 | R H R F S V P A G G G V V C C P D R G A A H P A P A T L E L M S A L T S G D W G | | | |
| UniRef90_UP1000367B2E3 | P N F F S V V N A G G G V V C C G D C C R V P G S V S P E V L A L L G A L L L T G D W H T | | | |
| UniRef90_F5XMF3 | P H A F S P A T G G A V V C C E R C R P A G G S A S P A T F E L L G A L L E G R W | | | |
| UniRef90_D4J8T1 | N S V F V S A R Y R G G L L C C E K C A G H E S I S P A A I Y T M Q Y I I S T P I E T | | | |
| UniRef90_S1NW04 | Q Y Y F S H K Y H G G L L C C E K H V I L D P T S P K I M Y L V G Q L L A N V H Y E Q | | | |
| UniRef90_UOEFP4 | P H R F H V A A G G G V V C C T Y C R P A G A A S P G V L G L M E A L L R G E W E | | | |
| UniRef90_N4WWQ8 | Q F A F S I A E G G G V V C C R R C C Q S M D P H H E K L L K L E V F D Y V E M D Q | | | |
| UniRef90_UP10003B703BF | G M G F S V R Y R G G V V C C A N C K N R D A L T P G S C E L L K M L R R A E W E R | | | |
| UniRef90_U7JGB4 | P H A F S P S L G G G V V C C A D C Q P P P H P R P E T L A Y L Q A L L V G D W P A | | | |
| UniRef90_V9XE64 | P H A F H V A A G G G V V C C V H C R P P G A A T P A V L A L L D A L N H G R W | | | |
| UniRef90_R5VHZ1 | L V F F S V K D A G V V C C S R C C G G G R G I S G T T L Y T L Q R I L S S R L E T | | | |
| UniRef90_Q3D8F9 | P F D F S H K Y S G G L L C C P N H L H R S H L D P N M L Y L I N R F Q S I Q F D D | | | |
| UniRef90_A5FRN7 | P M D F S E E Y G G G V V C C P N C R N G M P V S V N T V K V L R Y I Q E N S F S S | | | |
| UniRef90_G5JXMO | L A F F S Y S R Y T G G L L C C P K H Y D K D E L D P N I F Y L L D R F Q S L H F D D | | | |
| UniRef90_UP10003B4EE74 | P H F F S P S S G G G M V C C A G C R G S G R V S A E T S V L L A A L V R G D W P | | | |
| UniRef90_E4L241 | P F D F S H K Y S G G P L C C P N H L H R S H L D P N V L Y L L D Q F Q N V Q F S E | | | |
| UniRef90_M5J5T5 | P M D F S E E Y G G G V V C C Q R W Q L D P T P R T V L F M Q R L A A V N L H K | | | |
| UniRef90_R5R5MG6 | V H S V Y L S E S G G G L I C R E C A A K D K L S A D A K Y T L Q Y I L T S T P E K | | | |
| UniRef90_UP1000237A465 | P H A F N V Q A G G A V V C V R C R P A G S V R P S T L P L M E C L L H G D W P S | | | |

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|------------------------|---|
| UniRef90_G9WH52 | I H S I K V S D K I K R S L Q R V I N L I Y D R Q I G R A R S F |
| UniRef90_F5LCH1 | I G N V N V K P S T K S Q L K H S M R L Y M D A H V D V R W K A R S F L |
| UniRef90_G5KFL3 | L K T I S I K T D M K V K L R L F I D S I Y D E Y V G H L K S K R F I |
| UniRef90_S3B400 | A D A A E P R H C R E G S G L V S A Y L H W H E R L R S L R |
| UniRef90_N1ZN24 | L N S I K V K E Q T K I N L R K A L D T I Y E H Q V G G |
| UniRef90_M7E7A6 | L Q T I S V V K P E M K Q R L R R F I D G I Y D N Y L G H L R S K K F I |
| UniRef90_R3W3Q7 | L Q E V N V K S E T K D Q I R L F I D A L Y E E Y V G H H L K S K K F I |
| UniRef90_UPI0003FED23 | V G N I S V V K K E N Q Q L L R Q L L D A |
| UniRef90_UPI00037AD747 | L K T I S L K P E M K Q K L R Q F I D L I Y E D Y V G R L K S |
| UniRef90_I7L7E1 | L G K I N I N P T L K N S S K K V I D R M Y T R Y L D N L K S K K F L |
| UniRef90_E2SB19 | T V D V S D D A R R E S T G I V N A Y L M W H E R S L R S L V |
| UniRef90_R7FZ72 | L Y T F V V K E D V L K L K A L T K A Y L D E Y L G R F K S L E I L |
| UniRef90_H3NEU4 | L R R I S V S D E V K G E R M Q R V I D T I Y E E L V G |
| UniRef90_W7ZSD7 | L G S L S I K P E T K E R L H Q I I S S Y Y Q E Y V G T L K S Q R F I |
| UniRef90_R5AV96 | I F S F T L G D A G R R Q L A H V C E D Y T A T Q L G E R |
| UniRef90_F6DMX4 | L H Q L K L P E M L R K E L K A L L G A Y I E Y Y L E R L K S A D F L |
| UniRef90_C2ESB0 | L N S I K I N S T T K R K Q F V L D S L Y D N E V G N L K S K K F I |
| UniRef90_R6EAU1 | L Y T F V V K E N V L E E L L A R V M K R Y T D V Y V D R F K S L E I L |
| UniRef90_D9S2Q9 | L A K L K V E D G V K E E L K A V L T G F V L H M E R K R T L R F L |
| UniRef90_UPI000476820E | Y T E T T S T A V R S Q A S G L V A A H L Q W H L E E R Q L R T L |
| UniRef90_R5TNA2 | L Y T F T V T E E V L G Q V T K L I Q Y Y M R Q Y V E E K |
| UniRef90_UPI0003B6C7F8 | L Y T F K L S D E I L S E I R Y V V K K F I D Y H I Q H K F K S L |
| UniRef90_A0A059MPV5 | G T D T V S E A T R G Q Q A S G L I I A A H L Q W H L E E R Q L R T L |
| UniRef90_A4J7D2 | L Q Q L K V S E P L K T E L S A L L R S Y I E Y Y L E E K |
| UniRef90_W7IEB3 | A E R A T D A A R R E A S G L V A A L L Q W H L E E R Q L R S L |
| UniRef90_D8I099 | L A E A T L P G T R R D A S G L V A A H L Q W H L E E R Q L R S L |
| UniRef90_A0A010ZT99 | N H A G R T E P P T R E A S G L V A A H L Q W H L E E R Q L R S L |
| UniRef90_G2KU80 | I N N I K V N R V T K Q K L R Q V I D K I Y D N S V G N L K S K K F I |
| UniRef90_F8B4N3 | A G I S E A T R R E A G G C I A A Y L Q W H L E G L R T L P H L |
| UniRef90_Q9CJD9 | L K K I S I K A D M K L K I R Q F I D G L Y D E Y V G H L K S K K F I |
| UniRef90_W9EIP3 | I T H I Q V N R E T K K K L L R Q V L D K I Y D S S V V G N L K S K H F L |
| UniRef90_D3Q0J9 | A D A S E S S V R N E A S G L I S A H L Q W H L E H T M R T L |
| UniRef90_D6S5L2 | L G Q I N V K P D T K K A I R R A I D R I Y |
| UniRef90_W7SDA8 | V E R T Q V S S K R E A S G L V A A H L Q W H L E R L H S L P |
| UniRef90_R7BMJ7 | L Y S F T V V K D E V L N E L T Q V M H R C V D A Y V D R M K S L D M L |
| UniRef90_F9HEQ7 | L E E T I S L N K E I L K Q Q L R N I D Q L Y D E Y V G H L K S K K F I |
| UniRef90_A4VYJ7 | L E E T I S I K P E M K R K L R F F I D Q L Y E E Y V G H L K S K K F I |
| UniRef90_UPI00037BFC54 | L G N T D V K E S T K R R R L A Q A M R L W M D H H L G V K L K S R H F L |
| UniRef90_D7AND5 | L I Q N I K V S G V I K E E V D K I I T A Y M K E H L E E L K S |
| UniRef90_R6B2F6 | I Y S F N V S D E S K E R L Q I I S S L Y L N K N L D K D Y K F E K L |
| UniRef90_R5YEZ7 | L Y S F T V V S Q E V L E E E L L K T I L M Q A Y M A H Y V H H E F K S L |
| UniRef90_UPI000466153F | L Y T F T V V T E K V L E E E L L K T I L M Q A Y M A H Y V G T F R S L E M L |
| UniRef90_R6QCE9 | L Y T F R V S K E V L K E E L L D S V S E S F L K Q Y V S H H F K S L |
| UniRef90_X1V8I0 | A S K L K M N P E L S H E L L D E M M S H Y L E Y L L E R |
| UniRef90_D4KNM5 | L Y T F S V S D S V L R Q L I A I M K S Y R A V Y L D H S F Q T L |
| UniRef90_D2SDC6 | A E A S Q N A N R R E G S G L V A A L L Q W H L E R G F S Y K S L |
| UniRef90_R6H0W8 | L F S F C L G E E T L R A F G S L T E R Y L S T Q L E R G F S Y K S L |
| UniRef90_C8W3M8 | L V R L K A D Q G V R R Q L K K I L R S Y V D Y H L E R V K S A R F L |
| UniRef90_R6NYC6 | L Y T F N V K P E V L E K F G R V M G R L M K M Y V D E F K S L E I L |
| UniRef90_R5JSZ4 | L Y S F Q V S A E V V Q Q E L L N R I C T D F L A E Y T D R S F K S |
| UniRef90_H1C9M2 | L F S F R L E G A D L S C L S H V C Q R F L T T Q L D R G F R T L |
| UniRef90_R9MH4 | L Y T F V V K E E V L K E L L G E V V G A Y M D E Y V G R F K S L K I L |
| UniRef90_M5PSV4 | L K V I S L K P E M K E K L R L F I D E L Y D D Y V G H L K S K K F I |
| UniRef90_C6PTY4 | V Y R V N L S K E I K D E L L Y K V L S Q F I D Q Y F R R P K S L D I L |
| UniRef90_C6KVU2 | T R D A T P E V V R E G S G L T A A F T T W H L D R L R S L A H V |
| UniRef90_A8MG71 | V Q K L K I S D H L N E E L K K I I L K Q Y I L T H T N K Y D F K S L |
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| UniRef90_UPI0003776B72 | L H S I K V K P E T K Q H R H T I D T L Y S D E V G |
| UniRef90_UPI00036D4215 | A E I S E D P V R E G S G L V A A H L Q W H L E R Q L R S L |
| UniRef90_F8JP08 | E T A D A C E E R H A R E G S S G I V A A Y L Q W H L E R L R S L R F V |
| UniRef90_R7HGF6 | L Y T F T V S E N V L T E L K M V L K R I C A K H L D K Q M K S E A M L P |
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| UniRef90_D6B049 | D V I A E A S V A G T R R D A S G I V V A A H L Q W H L E R Q L R S L |
| UniRef90_R5IKR6 | V S A D A C E G R H V R E G G S S L V S A Y L H W H L E R R S F Y T L |
| UniRef90_K1LKH9 | L F S F A L T G A A E K E L L C D A A E S Y L L T Q L E R R S F Y T L |
| UniRef90_K1ERK7 | I R S I D V S D E T L K M L R D F M S A L Y Q E Y V G R L K S K S Y L |
| UniRef90_R0ERV4 | V V A D A S E Q R H R R E G A G L T A A Y L Q W H L E R V L S L R H V |
| UniRef90_R5LL26 | L G Q I S V S P A T K R E I I W Q L T E R I Y Q D Q V V G N L K S R H F I |
| UniRef90_R6Y106 | L F T F V V S D E V L T E M K M V M A R C M H A Y V |
| UniRef90_Q04N32 | I S K I K L S N N T R K E I D D F I N E Y D R Y S G L L K S K N F L |
| UniRef90_UPI000378FCEC | L E E T I S L K P G I K Q E L L R Q F V D A V Y E D Y V G H L K S K K F I |
| UniRef90_R7IL90 | L R S I S L S L K D D M K G K L L R Q F V D A V Y E D Y V G H L K S K K F I |
| UniRef90_D9T9H7 | L F T F Q V S E N V L T E F G M V M N R F L S V Y T D K V H S L E M L |
| UniRef90_UPI000367B2E3 | Y A D A A E T G V R R E C S G L V A A H L Q W H L E R A L R S L |
| UniRef90_F5XMF3 | A D R C G A H H V K E G S G L V A A Y L H W H L E R L R S L R H V |
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| UniRef90_S1NW04 | I Y T F T V S D D D V L V N N L K S I I E R Y R N Q Y I R R F K S L E I L |
| UniRef90_UOEFP4 | L N H L S F K P Q T K Q E R L R K F I D F L Y E E Y V G H H L K S K K F I |
| UniRef90_N4WWQ8 | G T D S A P A T L R T Q A S G L V A A H L Q W H L E R Q L R T L |
| UniRef90_UPI0003B703BF | I G D I S I K E E N K H K L Q A I M D R |
| UniRef90_U7JGB4 | L N R I R A S T G N H T E L K R V L G S F I E Y Y T E R L K S L K F I |
| UniRef90_V9XE64 | V R D V P M V V I R E A A G L V S A Y V T W H L E R L R S L P L L |
| UniRef90_R5VHZ1 | A D T E A A D T A V R R Q A S G L V A A H L Q W H L E R Q L R S L |
| UniRef90_Q3D8F9 | L Y S F T V V G E K V V Q K E L L S R V V G R Y L E A N T D R K F K S L |
| UniRef90_A5FRN7 | L Q T I S V K P E M K L K I I R Q F L D M I Y D E Y V G H L K S K K F I |
| UniRef90_G5JXMO | I C R L K I N R E I L S E L L E L A I R A N I R F V L E K |
| UniRef90_UPI0003B4EE74 | L K T I T L K A D M K K K L R L F I D D Y D N Y V G R L K S K K F I |
| UniRef90_E4L241 | S T R A A T P M V Q R Q V S G I V S A F A T W H L E G L R S F S H V |
| UniRef90_M5J5T5 | L K N I S L K K D M K K K L R Y F I D D L Y E D Y V G H H L K S K K F I |
| UniRef90_R5RMG6 | V S A I T V R P E T K A D L H H A L D Q I Y Y D M V G P H K F K T L |
| UniRef90_UPI000237A465 | L Y A F T V T D S V L N E L K R F M K M S Y L A R Y E R Q L R S L |

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| UniRef90_UPI000462E354 | I A A D Y D [L] Y T A G T [V] M V E A A E K M T [V] E G T P S P G H Y Q L L R G A L |
| UniRef90_R6FMR9 | M N D [D] S M Y M G M Y F L E [L] A D Y Y G R E G I E A K D T [L] E L L Y I A M |
| UniRef90_D7AYI9 | V S D Y S R Y T A A T A M L E T A E K [V] V V E K D P A L R Q F L L I G A L |
| UniRef90_J0KY03 | [C] N D I V L N A Y A S Y V L G L G E A A F G D A [P] V N I W Y E K L V H V L |
| UniRef90_E4NAX7 | V D D Y T R Y T A G T A M L E T A E R F A E E G Q P A V Q Y L L L V G A L |
| UniRef90_R5XGV8 | L R D D I I A A Y Y G F Y F M E Y A M Y F T K E A N D E R E M L K L L Y Q T L |
| UniRef90_Q04F73 | S L D I I L N A Y A S H H [A] E L L A A A F D E N T N I D Q W Y F M F F Q A L |
| UniRef90_UPI000375C379 | N N D L F L L A H A T Y I V A L A D A A I V D N V Y D S Q L F A F T C K T L |
| UniRef90_C8XGR3 | L A A D Y S R Y T C A T A I A E T A E R L T E E R E P S L R L Y L L V V S A L |
| UniRef90_UPI0003B63943 | I A R D Y P A F T A A N V M L E T C E Q L T D E G Q P A P Q H F R L L A G G L |
| UniRef90_X0Z8W5 | K F A F A F C A N C V E V V I N R L T E E R E I N I G L F N L L K E V L |
| UniRef90_A5Z945 | M K D I D S M Y M G M Y F L E [L] A D Y Y G R E G I E A G E T L K L L Y M S M |
| UniRef90_C7R517 | [C] C I D Y G R Y T V A G A G L V E T A D R L V A E R E P S V Q Q F W L L A G A L |
| UniRef90_J9HGJ0 | I S S D Y Q S W T V A S A I L E A A E R F T Q E H E P A L L Q Q F L L V S G S L |
| UniRef90_S0Q0N8 | I S E D I F L N A H A S Y I S L A D A A I P D N Q Y D S S L Y A F V I K C M |
| UniRef90_D8JZJ7 | L R S S L E R T S Y A L Y F A E L V A R F T P E E E A N R R V F D L L A E A L |
| UniRef90_R6RJL1 | Y Y G G F Y F L E L A D Y Y A S E N T D E K Q M L N L L Y V T M |
| UniRef90_UPI00045E96CC | [C] A D Y A [L] Y T A G T A M L E T A D R L V E E H E P S V Q Q F L L L T A A I |
| UniRef90_Q5UYZ4 | I I D D Y G R Y T T A C A I L E T A E R L A E E R A P A P K L H A L T A S A L |
| UniRef90_D5GX8 | D L T K N A Y I S F I F D L I D H A F V E Y Q P I G K Y Y D L A L F A L |
| UniRef90_R5X5P2 | [S] Y D L D F S Y A T Y I Q L I D Y N V E D E V T N R L F I L L A Q T L |
| UniRef90_UPI000381F510 | I V N D Y G R Y T A A C A I L E T T E R L S E E K A P A L A L H Q L T V G A L |
| UniRef90_U2YRF7 | I A T D Y D R Y T S A S A M V E A A D R L L N E A E T T P Q Q Y L L L V G G L |
| UniRef90_UPI000262AF7D | I S A D Y D R Y R A G S V I V E T A E R L A E G D P S R R L Y E L L V G A L |
| UniRef90_F5YZ71 | V S D Y G R Y T C A C V M L E T A E R L A G E R A P A T A L H R L T V G A L |
| UniRef90_R6L5P1 | Y Y G Y Y F L E L A D Y F G R E G T D E R E M M M N L L Y V T V |
| UniRef90_E3IXT6 | L A T D Y A R H T A A A V M L E T A E R L T E E R E P A L R L F L L L V G G L |
| UniRef90_UPI000470E55E | I R N D V E R L A Y G T Y I L N L T E E A V N Y E E G N F R L F Y I L L H T L |
| UniRef90_UPI00035EAC19 | I Y L D L E K S A Y A S F V L D L I D H A F V E Y A P I G K Y Y D L A K F A L |
| UniRef90_I7KLV0 | I L A A D Y P R Y T A G S A M L E T A D R L T H E K E P A L R Q F L L L V G G L |
| UniRef90_UPI000476EBCF | I R A E L G L L A R A S Y L C E L T D K L V D D E G P C G E V Y D L L R G A L |
| UniRef90_UPI0003B4645F | Q E D F N C M A Y G T F I V A E L V A E L C P E K Q P E P Q V F D L L L E V L |
| UniRef90_I8U2V6 | V A E L L D R M I A E G E P N R E I W A L A V D T L |
| UniRef90_D1CFL2 | P I R E N I Q R M M Y G S Y L L E L V D L S I M E E E E N E K L F L L L A K G L |
| UniRef90_M1ZG39 | I L I D D I E A N A Y A A L I A S L I D Q S Y E E G E P I T R W Y H Q F E L A L |
| UniRef90_UPI00020DA169 | I G E D I Y K Y M A A S Y V L E L T E K V I P E E I P Q P G I F K L L M N F I |
| UniRef90_W2BXX3 | I A A D Y G R F T V A A A M T E T A E K L I T D A D E S G T A Q Y N L L V G A L |
| UniRef90_A1R6V3 | L V A D Y P R Y T A G C A I L E T A D R L L T P E G E P A R E L F L L L V G A L |
| UniRef90_UPI000360CFFD | P I V G D Y G R Y T S A C A I I E T A E K L V V E E D P A M R L Y L L V G A L |
| UniRef90_UPI000365CF2E | P I L E D M H T R A Y A M T Y I M G L V D A A F V D N Q P L P A W F D E I A L A I |
| UniRef90_M5J9J4 | I V A D Y G R Y T V A A A M T E T A Q R L T D D G E T S T A Q Y L L L V G A L |
| UniRef90_UPI0004249A80 | T D I K K N A Y G I Y F C M L T D A A L A D R E A N S T V Y S E L I Q A L |
| UniRef90_UPI000476CADC | L T M D I D A Y C Y A S Y F C E V M S F M T H E G D R A A D Y L N L L Y V S L |
| UniRef90_R5WLF5 | L V A D Y P A Y T S G C V V L E T A E R L A E E G D P S P R L L G L A V G A L |
| UniRef90_UPI00029A2E50 | L R N D I E A L A L A Q Y F C E L A G E L A P V E D D A D E F I R R L I L N A L |
| UniRef90_R5XY74 | R A D I L E R T L T A S Y L I E L V D A F T L T E G K K N E G L F A L L N T F L |
| UniRef90_UPI00046F0434 | L R E N I D I D L A A H A S Y V A E L T D R A L Q D E E A G N W I F S Q L I A C L |
| UniRef90_L0EDW4 | I S Y D I D A F S Y A S Y I S R L V E N S L L E N Q T N R K L F N L I V K T M |
| UniRef90_B6G1Q5 | D I E L L A L A A W F C E L T E A V C A E E T P C P E L L S L L L N A L |
| UniRef90_R6D8W7 | L L N D L D S V Y Y G F Y F L E L A S Y Y T Q E N N D E R Q M L K L L Y Q S L |
| UniRef90_R7R2S6 | I A A D Y G R Y T T A C A V L E T A E R L A E E R A P A K Q L H R L T V G A L |
| UniRef90_M3UY16 | I A D D F T D L C Y A S Y F A E L A R Y F T R E N V A P D E L L L L Y V A C |
| UniRef90_R6VAE3 | L S D Y G R Y T T G S A M L E T A E R L A E E R A P A R E L Q Q L T V G A L |
| UniRef90_UPI0004679E96 | L S S D Y S A W T A A V A I C E T A E R F T E E G E P A L R Q Y L L L V G A L |
| UniRef90_UPI0003B3F5FF | I A A H D Y R F T A A N A M V E T A D R L S D S E A T P D Q Y L L L V G G L |
| UniRef90_T5KVE0 | L R L D I D R L S Q A M Y M I D L V E K T A F M G M E Q D N I L Q L L L K T L |
| UniRef90_N1ZF49 | I C A D Y G L Y T A G A A M L E T A E R L A A E H E P A V Q Q Y W L L A G G V |
| UniRef90_F6FXH8 | I C E D Y A L Y T A G A A M L E T A E R L A D E R E P A V Q Q Y W L L A G G V |
| UniRef90_UPI000464CA56 | S S S D L D A I C Y A C Y F A E L A D Y Y G R E N L D A S Q L L N L L Y M T L |
| UniRef90_R7AQD8 | L A A D F N A A Y Y G F Y F L E F A D Y Y C Q E N D E T E M L K L L Y Q S L |
| UniRef90_R5I2R3 | L R E D I E K L S L A N Y F C E L A G E F S P S N E A H E F L S L T L N L L H |
| UniRef90_R6I3W3 | L I K D I E A N A Y V A V I A S L L D A A F E D E G E P I T H W Y Q Q F V I A L |
| UniRef90_UPI00020D9AD9 | L R E D I S Y V Y Y G L Y F C E F T D Y M T R E G N D E T E M L K L L Y Q S L |
| UniRef90_A9KJ35 | L T Q D L E A V Y T G F Y F L E F C G Y F C Q E N N D E K D M L K L L Y Q S L |
| UniRef90_C4ZAV9 | L R N D I S A L A L A A Y F A E C A E A L A D E G S P D P G M L Q L I L N C L |
| UniRef90_R5D527 | L S K D F E L Y A R A C V M I E I A E K L T A D S D D G V R Q H L L L I G A L |
| UniRef90_K0YP74 | I V A D Y G A Y T A A S A M V E T A D R L S E E D A G L Q Q Y L L L V G A L |
| UniRef90_UPI0003B5BFB6 | L A A D Y D L F T T A T V V V E T A E R L T A D E E S A H S Q Y L L L I G A L |
| UniRef90_R5XIG2 | I R T D I S R I S S A S T I V E L L N A V V P P E E Q N E E I F N L A L E C F |
| UniRef90_UPI0003B446A0 | I L L N L L D K L L A Y G S Y F L E L I D K L L T E K D S V N L S L M G L L L K T L |
| UniRef90_A6WDF0 | L R A D L E K L S L A S Y F A E M A E A V T S E D L P S G E V L S L L L N S L |
| UniRef90_C4Z1J0 | L V A D Y G L Y T V G H A L L E T A E R F T E E R E T A T Q Q Y L L L V G A L |
| UniRef90_D5XAP1 | V N D L N A V C Y A C Y F A E I I A D Y Y G R E N L D A S E M I N L L Y I T L |
| UniRef90_R6YVL6 | L R E D L V K L L A Y A S T Y L T E L V D G F T A E G E P N E Q V F L L L L T T |
| UniRef90_C7Q5A0 | I R E E L E D I Y M G M Y F C E V A E Y V T M E N M D T R E I L K L L Y Q S L |
| UniRef90_A6NVU9 | L V S D Y P A Y T A T G Q A M L E T A E R L S E D D V P A V Q Q Y L L L V G G L |
| UniRef90_R6QJ84 | R Q D V E K L L A L G S Y F A E V M E T V A E E G R P D P A L L S L I L N S L |
| UniRef90_D6GPR7 | I R T D L D K L K Y A S Y I T K I I N D V T D E N Q N T Y K I L Q L Y L N T L |
| UniRef90_R5HCV1 | L T E D I D K T F L A Y Y F V E L L S E K L L V E N Q T N H R L L Q A L L E S L |
| UniRef90_R5E4F8 | I K K S I E K I K S Y A S Y I L L E S S Q V Y K Q N N Q K G I L Y S I L I E S L |
| UniRef90_R5ACY5 | I K N D I E G I C Y G T Y F C Q D I L E Y L C V D G I G D I N M L N L L Y L S L |
| UniRef90_R7CAU4 | L R K D V T A L A L A Q Y F C Q L A A E L V P E G V E S G E Y L R L L V L N A L |
| UniRef90_UPI000463697D | I R Q N L E H L Y L A L Y F C E V V A D Y F T R E G M T A K H E L N L L Y L S L |
| UniRef90_N2A162 | I S Y D F D A F S Y A A Y I I K L V E N Q T N H R L L Q A L L E S L |
| UniRef90_Q8RB48 | I Y D D L I K N A Y T S F I L D L I D H A F V E Y Q P I G K Y Y D L A D F A I L |
| UniRef90_R7XYN1 | I E K D L K K F A L A S Y I S E T I S R V L E E K Q K N T K L Y F F T K H S L |
| UniRef90_A9WF9W9 | D Y E R Y T A G T A M L E T A E R L T E E K Q P S V Q H F L L L V G G L |
| UniRef90_C5C4P4 | L R T D L T R L G C G Y Y V A E L Y D R L A A E S E E N P L F Q L L V E T L |
| UniRef90_E2MXA0 | P L V D D Y A R Y T C A C A V L D V A E R I V G E E Q P A P E L W D L A T Q S L |

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| UniRef90_UPI000462E354 | H A L A Y R H H P E L I M N S Y L L R A L A L S G W A P S C W D C A I C G K A G |
| UniRef90_R6FMR9 | K Q L S K K A P D L I R C Y E L R T L V I N G E Y P N V F N C G K C G N T E G |
| UniRef90_D7AYI9 | R T L L G E G H D S R L V L D A Y L L R S L A V A G Y A P S L A E C A R C G S R G |
| UniRef90_J0KY03 | K A I D S G I D D A A I L T N M V E V Q M L G F F G V K P N L C V V C A E N Q |
| UniRef90_E4NAX7 | R T L L A A G H Q A H L V L D A F L L R S L A V N G Y G A S F T D C A R C G L P |
| UniRef90_R5XGV8 | K A L T N P N I P R L I R Y V F E L K A L C I N G Q A P Q V F Q C T C C G S T |
| UniRef90_Q04F73 | K K I D A G L D P Q V I A N V F E I Q L L S V F G V E P N L F S D P I N G Q T |
| UniRef90_UPI000375C379 | E L M E E G M D H E V L T N I F E I Q L L D R L G V Q L N F N E C V F C H R V |
| UniRef90_C8XGR3 | R A L L E S G R G P S L I L D A F L L R A M V L A G W A P A L R E C C A R C G S P |
| UniRef90_UPI0003B63943 | A S L L A S G H D P R L V L D S Y L V R A L A I A G W R A S F S D C A R C G M S G |
| UniRef90_X0Z8W5 | H Y L R E S N D P K L L T L S F K W Q T M S I L G Y R P S L N H C C R C N K Q K |
| UniRef90_A5Z945 | K A L L S K N M K K E L R C Y E L R I L V I N G E Y P V N F T C C A Q C G A P |
| UniRef90_C7R517 | R T L L A S Q Q V P D L L I L D S Y L L R A F A V A G Y A P S F D V C C A Q C G A P |
| UniRef90_J9HGJ0 | K V L L A E K K D A S L I L L D A Y L L R S L S V A G Y A P S L T C C S R C C D A P |
| UniRef90_S0Q0N8 | D L L D Q G F D K E I I I T N F E I Q V L S R F G V A L N C T E C C A F C C H K Q G |
| UniRef90_D8JZJ7 | D A A C Y D A D N L E L A R Y F E V N L L A A L G Y Q P R L G A C L D C G K T E |
| UniRef90_R6RLJ1 | K A L L V K Q K E N Q L L Q Y E L K A M T I N G E Y P V A F C R K C G T T E |
| UniRef90_UPI00045E96CC | R A L L A E A H N P G L L L D A Y L L R S L S V A G W A P S F T D C C A R C C G A P |
| UniRef90_Q5Y7U4 | R A I I A A K R P E L V L D A Y L L R A M R F A G W A P A L D E C C A K C A T P G |
| UniRef90_D5GXV8 | K K I I D S G V D A E M I T Q I V Q M K I L A A Y G V E P Q L K H C C V I C G K E |
| UniRef90_R5X5P2 | Y L L L A K E E D I V F I K D V F E L K F L E Y I G F K P I V N R C S N C G S K N G |
| UniRef90_UPI000381F510 | R A I I A Q A H A V G L V V D A F L L R A M S I S G W A P A L D D C A R C C A A P |
| UniRef90_U2YRF7 | R A L L A R G H D S R A V L L D S Y L L R A M A L S G W A P S L D A C C A R C C G R P |
| UniRef90_UPI000262AF7D | R T L L A A A R P P D L V L R D G Y L L R A L S I A G W T P G F V D C C V R C G A P |
| UniRef90_F5YZ71 | R A V I A D G R R P E L V L D A Y L L R A M S V A G W A P A L T E C A R C A T P G |
| UniRef90_R6L5P1 | K A L L N P K D N P L I R C Y E L R T M V E E G L C P E L F Q C A Q C G R E E G |
| UniRef90_E3IXT6 | R T L L A S G H P P G V M D A F L L R A L A V S G Y G M A L D D C A R C C G E P |
| UniRef90_UPI000470E55E | S Y L L A Y G E S P E D I T H F E L K L I D V L G Y R P V L D R C C V V C G E S N |
| UniRef90_UPI00035EAC19 | K A L L S E K V D N K L I R C Y E L K A M V I N G E Y P N L F E C C M N C G K K E |
| UniRef90_I7KLV0 | D H I I D R G T D P E V L T Q I V Q M Q L L P A F G V G P Q M E A C C V I C G K K Q |
| UniRef90_UPI000476EBCF | R T L L A E R H E P R L V L D A Y F L R S L A V A G Y A P A L E A C C A R C C R T P A |
| UniRef90_UPI0003B4645F | S L L E I G H H P D T V H A Y E L R L L E E R G Y A P A L L G C C V R C G K E W |
| UniRef90_I8U2V6 | K I L L P M R N P R M V A L A W A W Q M L F I M G Y Y P D F K Q C V I C G Q A L |
| UniRef90_D1CFL2 | E R L L N N T N D P W K P V T Y F Q V R L L I L A G Y Q P E L K V C S R C G Q P E |
| UniRef90_M1ZG39 | K V L L S K D R D Y Y K F I L S Y E L K Y I I S Y L G Y K P F L E G C A V C G R K K |
| UniRef90_UPI00020DA169 | U H I I Q L E A G Q D P Q V I A N I F E I Q L L V P L G V A P N W R A D P I S G Q T G |
| UniRef90_W2BXX3 | A E L L E K R K A H H T L L I A Y E I K L L R L L G T F P E L N R C T I C G S K N G |
| UniRef90_A1R6V3 | A A L L S R D H P P E L L I L D S Y L L R A L A T G G W A P S F T E C A R C C G R P |
| UniRef90_UPI000360cffd | R G L L S T G R D P H L V L D A Y L L R A M V I A G Y A P A L T E C A R C C G E P |
| UniRef90_UPI000365CF2E | R A L L A S D R E P P G V L D A F L L R A M A F A G W A T A V R E C A R C C A R C G A E G |
| UniRef90_M5J9J4 | E K M E A D F S S A A L A H Y F E L K L L P A F G V V H I D W T H C C V V C E E T T |
| UniRef90_UPI0004249A80 | A S L L A R G H A P Q L I I L D S Y L L R S L S I A G W A P S F T D C C A R C C G E P |
| UniRef90_UPI000476CADC | T Y L L N E D V D A E I I I S C M Y E L K R L K E F G V M P N W L G C C A L C H K T E |
| UniRef90_R5WLF5 | K A L L E K G Q M P A L I R C V Y E I K L M D V F Q G Q I Q S F H C P I C G K T E |
| UniRef90_UPI00029A2E50 | R S L L A E Q R R P G L V A D A F L L R A M A A S G W E P V L D C C V R C G V V G |
| UniRef90_R5XY74 | H M L L M N K K R P Q A L K A V V E L R I L L C L S G Y M P D I L V V C C G E E G |
| UniRef90_UPI00046F0434 | G I L L N A G N S S E G M V R I F E L R I L L G V L G Y E P V L D R C C S G C G T D P |
| UniRef90_L0EDW4 | A A I L E D G K D A A I T T H V Y E M K I L I Q A A G Y A P V L D R C C V S C G R T D |
| UniRef90_B6G1Q5 | Y I L L S Q K D D K E F I T A A F E L K F S D C Y E L M G F R P I T D R C C S V C G D E S |
| UniRef90_R6D8W7 | Y A L L C R G K D P R L V K A A F Q F R L M A I L S G F E P I T A E C C A V C C G Q P E |
| UniRef90_R7R2S6 | R A L L Q H S L L N N R L V K V I Y E L R V L V V N G E Y P N V F S C C M K C G K E D |
| UniRef90_M3UY16 | Q A L L A E D R D R Q W L D A F L L R A M S T A G G W M P A L D V C A R C C A Q P G |
| UniRef90_R6VAE3 | S A M T R G K S L P L V R V I E M R M M Q I E G E A L E L F Q C L G C K S Q G G |
| UniRef90_UPI0004679E96 | R A L L A A Q R P A S L V L D A Y L L R A M S F A G W A P A L D D C A Q C S A P G |
| UniRef90_UPI0003B3F5FF | K S L L A R E H D P S L I I L D A F L I R S M S L A G W E P A L K E C C A V C S A P |
| UniRef90_T5KVE0 | R A L L S R G E H A R S I I L D S Y L L R V M S L S G W A P S L D E C C A R C C G T P G |
| UniRef90_N1ZF49 | Q I L L C Y G K K I P E L A S R V F E M K F L Q I A G V M P N L Q Q C C V C G K E A G |
| UniRef90_F6FXH8 | R A L L A E A H S P G L V L D S Y L L R A L A V A G W A P S F T D C A R C C A E P G |
| UniRef90_UPI000464CA56 | R A L L S E H H A P G L V L D S Y L L R A L A V A G W A P S F V D C A R C C G E P G |
| UniRef90_R7AQD8 | R A L L A N D N I P E L I I R Y I Y E I K L I S I N G E C P N M F E C C A E C C R K S E E D |
| UniRef90_R5I2R3 | R A L L E S A F S N R L V R C I Y E L R T L I T I N G E A P N V F G C T K C G K K E |
| UniRef90_R6I3W3 | L L S E D K D R S A D F I L P V G E R M L A L A G Y M P D L A G C Q S C G N P D |
| UniRef90_UPI00020D9AD9 | D K I I N N G A D P Q I I T N I I F E V Q L L V P L G V A P N W R A D P I D G N Q V |
| UniRef90_A9KJ35 | R A L L N P H I T K L L V R Y I I F E L K I I I S L G G E A P Q V F E C L N C G T K E |
| UniRef90_C4ZAV9 | R A L L E S A Y V K N E L V R A F E L K A I I T I N G E P S L F S C C I H C H R E G E |
| UniRef90_R5D527 | F A L L S N G Y D Q Q H I K T A F E F R L L M R I A G Y E P D L S A C C I V C G D S E |
| UniRef90_K0YP74 | Y A L L A H R H D P N L V L A S Y I I R A L A I A G W A P S F F D C A V C G A Q G |
| UniRef90_UPI0003B5BFB6 | R S L L A R G E H V T T A T L S Y L L R A M S I I A G W A P S F R D C A V T G E P G |
| UniRef90_R5XIG2 | K A L L N P H V K D L I R C Y E L R A M A E E G Y C P E L A S C C A C C A R D |
| UniRef90_UPI0003B446A0 | F A L L A R R H D P P L T S Y M L R S L A L A G W A P S F C D C A I C G T Q G |
| UniRef90_D9PK38 | H E L L K S C E K P A K I T T I F T I K I L L A L A G F K P H L D S C V S C G A E G |
| UniRef90_A0A017RUQ2 | Y I I T H D E D I E L L K L V F D F K A I S L F G N M P Y L N G C I K C R K K I |
| UniRef90_R5RZW3 | Y A L L D T L D R P E L V R A A F E L R L L A L S G Y E P F L L D D C A M C C G R A D |
| UniRef90_A6WDF0 | R S L L S R E H D A S L V L D A Y L L R S L A V A G Y A A S F G D C A R C G E A G |
| UniRef90_C4Z1J0 | K A L L G R G A S H E L L I R F I Y E I R M V A V N G E C P D F T C C H E C C G R E D |
| UniRef90_D5XAP1 | F Y L L L K D N P G L L V R A F E L K L L N I L G Y C P Q L E S C C V H C G N A A |
| UniRef90_R6YVL6 | R A L L K V S L S R E L L V R R I Y E F K L V A L I N G E A P R L F A C C I E C C G R K D |
| UniRef90_C7Q5A0 | R T L L A S G H I S A G L V L D A F L L R S L A I A G Y A P S F E D C A R C G D P |
| UniRef90_A6NVU9 | Y A L L D K L S K P P L V K A A Y E L K I L L S L V G Y E P M L D A C C A V C G V P E |
| UniRef90_R6QJ84 | Y M I I E E K N I D F V I S V F K L R L C C L L G F M P E I R K C C I A E C C G A Q E |
| UniRef90_D6GPR7 | Y A L L K D I E K Y E L V K L Y F E C K A L I R F C G Y Q P Q V F C L N C G N S I |
| UniRef90_R5HCV1 | I K I I D E G Y N P M A M N I V E L K Y L D F L G V M P V I D C C S K C G S N I |
| UniRef90_R5E4F8 | K A L L G R K E I P D L I R R I F E L K A L A F D G E A M A A F S C C V K C C G E K Q |
| UniRef90_R5ACY5 | H F L L C K G T R P Q P V L A I V E L R M L S E A G Y M P N L A Y C A E C C G A Y E |
| UniRef90_R7CAU4 | R A L L S V P S L P E L V R Y I Y E F R M L A I A G E A P R I F E C C I R C G K T E E |
| UniRef90_UPI000463697D | Y Y T Q D N V D K Q Y T S A F E L K K F L D Y A G V K P V V D R C C I S C S K T E E |
| UniRef90_N2A162 | H K I I N K G V D P E I I T Q I V Q M Q L L T A F G V Q P E I R H C I C K K E Q |
| UniRef90_Q8RB48 | E A V E S N V E T S I F L F S Y T L K L I S L L G Y M P V L D S C A V C G K K E |
| UniRef90_R7XYN1 | R A M A E E H A A N Q V L L D S Y L L R S L A V S G Y A P S F D H C T S C G V V E G |
| UniRef90_A9FWW9 | Q A L L D G S A N P E L T L R S F E L H L L H I L G Y R P Q L H Y V V C N E P A |
| UniRef90_C5C4P4 | R A L L A E A H A P T L V L D S Y L L R S L A V A G W A P T F D C A R C C S R E G |
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| | 90 | 100 | 110 | 120 |
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| UniRef90_D7AYI9 | E H R F A V H A G G M V C T V C R P H G S V S P D T L R L M S A L L G G D W E S | | | |
| UniRef90_J0KY03 | G E F F S Q S L G G G L L C Q K H W N M D P L D K R T I F F L R Q F S A V D I L K | | | |
| UniRef90_E4NAX7 | P N F F S L Q A G G G V L C G D C R V P G S A S P E T L V L L G A L L S G D W Q T | | | |
| UniRef90_R5XGV8 | H S M F S P R K G G G L V C T E C D G G M R L N N S T L Y T L Q Y V E N S K I E H | | | |
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| UniRef90_UPI000375C379 | Q A F F S F K Y S G L I C P A H Y H E D H L D P N V P Y L L N R F Q A I S F D D | | | |
| UniRef90_C8XGR3 | P H A F H V P S G G G A L C C P D C R S G S S G S P A T I D L M A A L T D G V W A V | | | |
| UniRef90_UPI0003B63943 | P H R F H V P S G G G S V C C P V C R P P G S S A P A T L E L L R A L L F G G D W Q V | | | |
| UniRef90_X0Z8W5 | E M Y F N I K E G G G L V C C S N N C I A K A D K V S L Y F N K K L R K I L I T P L S T | | | |
| UniRef90_A5Z945 | N D Y F D E K N S T M I C C A R C C R P P G S A S P A S G T F T H M A A L L A G E W | | | |
| UniRef90_C7R517 | P H A F S V A A G G A V C C A T C C R P P G S A S P A P E T F I L L A A L I S G D W | | | |
| UniRef90_J9HGJ0 | P H F F S L Q G G G G L V C C P A C K P S A S A S P A T L D L M A H L L T G D W E | | | |
| UniRef90_S0Q0N8 | P F D Y S K Y K F N A C L C C K N H F D E D H L D P N V L Y L V H F Q E I S L E Q | | | |
| UniRef90_D8JZJ7 | T N Y F F A N S L G G G V L C C P Q C A S R A P V A P N A L K V L R F L D D H S L E Q | | | |
| UniRef90_R6RJL1 | N Q W F S T E E A G G V Y C C E D C C R P P G A A S P A P E T F I L L A A L I S G D W | | | |
| UniRef90_UPI00045E96CC | P Q R F A V G S G G G A V C C A T C C R P P G A A S T P A V L D H L V A L A R G E W A G | | | |
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| UniRef90_R5X5P2 | N S V F N I Y E G G G V I C C E R L F E Y N M K T I R L M E Y I L N N D I L T | | | |
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| UniRef90_U2YRF7 | P H D F V A P L G G G S V C C D A C C A P A G R I I A P E T G A R L R A L I A G E W E T | | | |
| UniRef90_UPI000262AF7D | P H A V V V Q L G G G V V C C E D C C R G S P R L D P G S I G L L S G D W E | | | |
| UniRef90_F5YZ71 | P H R F H V A A G G S T C C G H C R P A G S T T P G V L D L M A A L H D G D W E | | | |
| UniRef90_R6L5P1 | Q V F F S Q D H G I L C C Q K C C A S G Q R I I S P S A L Y A M R F I A T A P M G K | | | |
| UniRef90_E3IXT6 | P H S V S V A G G G G V V C C P R C C R P H G S V V S V T A V Q L L A D L L H G D W A E | | | |
| UniRef90_UPI000470E55E | P L F F S S A S Q G G G I C C P Q C K D G Y T I H R S T L Q T M R Y I L D V D I R R | | | |
| UniRef90_UPI00035EAC19 | E Y W F S S A E K G S G V F C C E D C C Y K S I R L D A S S L Y A L Q F I A A S E I S R | | | |
| UniRef90_I7KLV0 | G V F Y S L R Y G G I I C C E D H F A R M H T A K E T A L L R T F A L L P I E R | | | |
| UniRef90_UPI000476EBCF | I R A F A I L V A G G G V V C C G A C C R P A G A A V P A T I G L M T A L L R G D W A V | | | |
| UniRef90_UPI0003B4645F | P A A F S P T A G G G L L C R A C C R A G V E V R P A T I Q T M H T L K S G E L T E | | | |
| UniRef90_I8U2V6 | P S Y F C L N G G G C I C C S N N C D H G P V N G K I V D F I D C L L H I N W K N | | | |
| UniRef90_D1CFL2 | S V Y F S L S A G G M V C C R E C S K G D P V S P N V I K A L R L A S L P S Y E V | | | |
| UniRef90_M1ZG39 | N F K F S L I N Q G G G I I C P S C S T I E P Y D I S M Y K A M R T L L Y T P L D K | | | |
| UniRef90_UPI00020DA169 | R F D Y S E K Y N G I L A E E H Y D L D E H R L K T I F Y E R Q F S V I D L R Q | | | |
| UniRef90_W2BXX3 | P E F F S V E N G G I M C L N C H E K I P I N F D I V K V L N Y F T S N S L S T | | | |
| UniRef90_A1R6V3 | P H A F A A P G G G M V C C S D C C R P P P A P A P E T V V L L G A L L T G N W S V | | | |
| UniRef90_UPI000360CFFD | T R R F A V A A G G A V V C C D T C C R P G G A V V P S T W R L L E A L R D G D W S A | | | |
| UniRef90_UPI000365CF2E | P H A F S V N A G G S V C C S R C C R P A G A V T P D A G T L A L L G A L L H G D W | | | |
| UniRef90_M5J9J4 | P Q M F S M K L G G G L L C C A K H F Q G D E H R P K A L Y I L R Q F S Q V S L K Q | | | |
| UniRef90_UPI0004249A80 | P H A F S A A L G G G A V C H D C C R P P P A P A P E T M T L L A A L L S G G W P V | | | |
| UniRef90_UPI000476CADC | G I F Y S S K Y H G I I C C S Q H F R R F H A N P K A I Y L L R Q L N Y L K F D Q | | | |
| UniRef90_R5WLF5 | S N V F D A A S G G G L L C C D G C C R H P L H L S D D A V Y T I Q Y I N G A Q L G K | | | |
| UniRef90_UPI00029A2E50 | P H R F H V A S G G T V C C V H C P Q G C L P S G V T E H L S A L L A G E W D A | | | |
| UniRef90_R5XY74 | N F L F S P V E G L I F C E K C K H S L T P G V L R A M R H I C Y S E D E K | | | |
| UniRef90_UPI00046F0434 | G E W F D P L E G G I R C C G E C C R E L Y Q L M P G T V R T L A L G R S V E P E R | | | |
| UniRef90_L0EDW4 | L A A L A P A L G G A V C C P A C C R A G G H L G D K A L K L R L F A A V D L R R | | | |
| UniRef90_B6G1Q5 | D Q R F N I E E G G M L C C K K C A G N I R L D D A T T R C L K L M N Y I L S N E L E T | | | |
| UniRef90_R6D8W7 | G P V L D I S G G G F V A C G T C R G P E P L T E A G L I A A L R H V L Y A D P R R | | | |
| UniRef90_R7R2S6 | L C Y F S V K Y R G T L C C K D C G T M E S L N E S V L Y T L Q Y I I S V E L K K | | | |
| UniRef90_M3UY16 | P H R F H V A V V G G A V C C C H C R P A G A A T P G V L D V M D A L A R G E W D H | | | |
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| UniRef90_UPI0004679E96 | P H R F H V A A A G G S V V C C V H C R P P G S A R P E S L E L M A A L L S S D W P V | | | |
| UniRef90_UPI0003B3F5FF | L H A F H I A A G G A V C C P N C R P A S P R V A E K T L A L L R A L I A G E W D V | | | |
| UniRef90_T5KVE0 | P H R F V A Q L G G L V C C Q N C A P S P R V A E K T L A L L R A L I A G E W D V | | | |
| UniRef90_N1ZF49 | K Q Y F D A I S G A M V C C N E H K R G G R L S P A A I C A M N F V F S N D I K N | | | |
| UniRef90_F6FXH8 | P H R F S V A V Q G G G A V C C G R C R P P G S T A P F Q T A L L A A L L A G E W | | | |
| UniRef90_UPI000464CA56 | P H H F A V A V Q G G G A V C C S R C C R P P G S T A P F Q T A L L A A L L A G E W | | | |
| UniRef90_R7AQD8 | G H Y F S M S R F G I V C C D S C C V R N T E I T E S E A M Y T L Q Y I V S S G I E K | | | |
| UniRef90_R5I2R3 | L H W F S G K T A R M L C D H C C V N E L R K P E T V Y T M Q Y I M T A K L A K | | | |
| UniRef90_R6I3W3 | E P V F S L R H A G G F C R N C A P G I P V T P G V I N A M R H I C T C D D R A | | | |
| UniRef90_UPI00020D9AD9 | G I F Y S E K Y N G I I S E N H F G L D E H R A K T I F Y L R Q F S T I N L A Q | | | |
| UniRef90_A9KJ35 | N S R F S A S A G G G C F C C E S C K D G K R L T S T L Y T L Q Y I I S A D V E K | | | |
| UniRef90_C4ZAV9 | L N V F S A R R G G V F C C D N C C G Q G R H I L S D T L Y T M Q Y I V S A D I T K | | | |
| UniRef90_R5D527 | P P R F S P Q N G I I C C C R N C R K S I P D S L K A L R Y I I L Y A E P R K | | | |
| UniRef90_K0YP74 | P H A F S I Q E G G A V C C E N C R P V G A S A P E A M E L M G D L L S G E W G R | | | |
| UniRef90_UPI0003B5FBF6 | P H A F V V V Q L G G V V V A D H A A P P P R L D P E T L H L L G S L L A G D W | | | |
| UniRef90_R5XIG2 | D C F F S Q E H H G I L C G S C A K G Q R I S G A A L Y A M R Y I V S A P M G K | | | |
| UniRef90_UPI0003B446A0 | P H A F S I T E E G G A V C C D N C C R P V G A S P D A M A L M G D L L S G D W A | | | |
| UniRef90_D9PK38 | G C K F S F A L G G G L L C C P K C C Q A K D S I F R G T V A T I L H I E R N D F K N | | | |
| UniRef90_A0A017RUQ2 | E F Y F S V S D G G G I Y C C P K C K E A Y P I I N K E T L N L L K I K N I K L E N | | | |
| UniRef90_R5RZW3 | P V V F D A A Q G V V L V C C K K C C A G G L P D A G A L A A M R H I V G A P S K R | | | |
| UniRef90_A6WDF0 | P H A F N V S A G G G A V C C P S A P P D P A T L E L L A A L L S G E W | | | |
| UniRef90_C4Z1J0 | N L Y Y S Y S Y S R N G L L C C K N C C A D G I T L S G S T V Y T L Q Y I V T A Q L N R | | | |
| UniRef90_D5XAP1 | K V R F S S R L G G V L L C C D K C S G H D P I Q M G S L K T M Q Q L L K W D I R R | | | |
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| UniRef90_C7Q5A0 | A H F F N L P A G G A V C C S D K P A G S V A P A R E T L A L L G A L L A G D W | | | |
| UniRef90_A6NVU9 | P E R L H L R E G V L L H C A R C C R G G M P L D D G P A L A A M R H I V V M G D P K R | | | |
| UniRef90_R6QJ84 | E N Y F S L K D N C L K C T A C G K I D K I S D S T R T A I Q Y I V L I A D A K K | | | |
| UniRef90_D6GPR7 | P F Y F Q V E D G G V V C C Y H C K S E T E Y D N T T Y Q L L D F M M R E S L Q Q | | | |
| UniRef90_R5HCV1 | S I A L L S S I A G G Y V V C C N K C L T N E P V S E K T I K L I R M F Y Y V D L S K | | | |
| UniRef90_R5E4F8 | V S A F Y P A G D G M L C C K N C A G G S G M S E S A I Y T L Q Y I L S T T L D K | | | |
| UniRef90_R5ACY5 | S E Y F K I N R G T L Y C C K D C Y N G D P L S P A A L T A M R H I V F A D F E R | | | |
| UniRef90_R7CAU4 | N H H F Y V G D A G I V C C D D C C H D G K T L S E T A I Y T L L Q R I L S S P L Q K | | | |
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| UniRef90_N2A162 | G R F Y F S I K L G G V I C C S D H F S R L Y L K P K Q T A L L R T M G L V P L E R | | | |
| UniRef90_Q8RB48 | N S Y F S S S C G G A V C C K D C K D A K F L N K K V L K F L Y L L K A K Y E K | | | |
| UniRef90_R7XYN1 | P H Y F N P S A G G V V C C T T C K I P P G S A S P A T I R V L S A L L T G D W A C | | | |
| UniRef90_A9WF9W9 | A D R Y F S P T L G G V V C C P R D R T A D P M N E P T F R L R Y L Q A Q P V T A | | | |
| UniRef90_C5C4P4 | P H R F S A P M G G A L C C P P G A A A P A A E T F L L G A L L A G D W | | | |
| UniRef90_E2MXA0 | P H R F S P A L G G A V C C T N C R P P G A D T P E V L H L M W Q L A H E Q W S G | | | |

| | 130 | 140 | 150 |
|------------------------|---|-----|-----|
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| UniRef90_R6FMR9 | L F S F N V K E E V L A Q L K Q V I E S Y □ N K I I K K F N S L E F L | | |
| UniRef90_D7AYI9 | A D A S E D R Q R S E C S G L V A A Y L Q W H E N □ R S L R H V | | |
| UniRef90_J0KY03 | I G N I S V K D D T K K N L R A A L D Q I Y N N N E V G | | |
| UniRef90_E4NAX7 | A D G C E P R Y W R E G S G L V A A Y L Q W H E R □ R S M R | | |
| UniRef90_R5XGV8 | L Y T F I V K E N V L D E L G R L M E R Y N D L Y V D R F K S L E I L | | |
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| UniRef90_E7G713 | [I R T D L D K L Q C A S N I T K I V N E V T T E N Q N T Y R V L Q L Y L N T L |
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| UniRef90_Q2RKV8 | [P L L S D M D T I T Y G S Y F C E L I L I A L E Q E Q F Q S D R E L F K D F I K S F |
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| UniRef90_D6ZGQ5 | H A I L A T G H E P S L I L D S Y L L R L M S L A G W A A S C W D C A S C G A R G | | |
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| UniRef90_UPI0003B5EC60 | R S L S R E H G A S L T L D S Y I L R A L S L A G W A P S F Q D C C A R C C G R V | | |
| UniRef90_D1BUV6 | A L A Q R D H A P S L V L D S Y I L R A L A V A G W A P S F T D C A R C C G E P | | |
| UniRef90_D3CU16 | R T I L A A G E R P S L V L D S Y I L R S L T V S G Y G M A L D E C C A L C G E S G D | | |
| UniRef90_R6HDR3 | Y V V A E D E N L D F I L G I F K L R L L G I L G F T P R I K E C C V N C K E K D | | |
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| UniRef90_UPI000255D279 | S A L A R S H H P D P L V L H S H L L R A M S L A G W G I S W E A C A S C C G R P | | |
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| UniRef90_UPI0003B3C220 | G T L E D R S R K G F I L V I A Y E K L L D A V G G M L P N L D E C C V V C G S K P | | |
| UniRef90_X8K7E0 | H L L C K G G K S I V I K S V V E F R L M S L S G Y M P N I L A C A N C G E S D | | |
| UniRef90_R7BBY5 | S H L N H S G Y N P M I I R Y F E M N L L V N L G Y S P L L D H C V L C G K K D | | |
| UniRef90_Q0AWP3 | S A L S R G H A P E L I L D S Y I L R A L A T A G W A P S F T D C A R C C G T P | | |
| UniRef90_UPI00031B0382 | Y L L N D A M D Y E L L V R A F E L R L L K A T G Y G L Q F D N C S L C K K K I | | |
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| UniRef90_R5Q588 | D A L N H G Y P Y P L V Y L L Y N A F I L K R C G M A L Q V D G C V R C L R Q D | | |
| UniRef90_UPI00041F5B55 | Y L L N T D A D Y E L L I R A F E L K L L K A T G Y G L N L E S C C S V C K K K I | | |
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| UniRef90_UPI000361C657 | Q E I G K G Y D Q V L L D S Y I L R F L T V M G Y R P H L K T C L E C G R N S | | |
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| UniRef90_R6N3A1 | K A L A Y R D E P D K V I K A V Y E L K M M S I G G Y E P S Q L N A C C V S C G S N E | | |
| UniRef90_UPI0003F70658 | N A L A Q G H D A Q M T A E S Y V L R A L A L A G W R Q R L D S V V C G R T D | | |
| UniRef90_C8NEZ9 | E A I N N G I D A E V I L R F F E L K I L R Y F G V E V E W Q H C C V I C N R T D | | |
| UniRef90_UPI0004794C31 | D R I L E M Q E S P P P V A R I W E T K I L R L V G A S P D W T T I C S K C G K P | | |
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| UniRef90_E7G713 | K A L D H G Y S P L L V Y L L F N V F V L N H N G V S D V E G C C V V C G S S S K | | |
| UniRef90_R6XZK6 | Y T I I S E D K N L S L V T S T F V L R L L S I I G Y K P I I E E C Q N C K T K D | | |
| UniRef90_G0V4X0 | Y M L N E D I N L D L L K L T F E Y K V L S F A G Y Q P I V N Q C I K C R K T N | | |
| UniRef90_Q2RKV8 | E A L G E L E P A L V A R A F E A T L K L L G L A P R L E A C A L C Q R E G | | |
| UniRef90_A0Q1P9 | Y F L I N Q A M D L E I L A R T F E L K L L K A T G Y G F D F E K C C I C G G K N K | | |
| UniRef90_UPI00040B961F | N L L D D G N E S F G V T S L V L V K M L P A Y G G Q L N L D S C A V C G R S D | | |

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| UniRef90_UPI00036B8014 | P H H F H P G V G G A C C H Q C C R P P G S A N I A V L H Y M W L L A G R Y W D K | | |
| UniRef90_R5SFT7 | V N T V Y L Q A G G G L C P A C A A K D K L S S D A L Y T L Q Y I L T S E W S K | | |
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| UniRef90_R5SZ65 | I V T L N S E K G G Y I C K E C C Y E N E K V D E K T L K V I R L F Y H V D I S K | | |
| UniRef90_R6Z9W3 | K I Y F S L R D N G F K C S T C C G K Q D K M S E S T Q N A I K Y I V M A P P K K | | |
| UniRef90_E6U538 | G M V L L P R S G V F L C A S C C A A R E Q V S P G A L A A L R H T A Y A D F A R | | |
| UniRef90_B1C3P1 | H I A I S I S S S G G F I V C C K E C L G M M R L S I E V L K G F R Y I N K C S L E N | | |
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| UniRef90_UPI0002F72E18 | P H A F Q V Q A G G A V C C E G C C R P A G S V T P S A M A L M G A L L S G D W P L | | |
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| UniRef90_D4YE0 | N T T F S L K R H G I L C C K E C C A N L E A I I S Q S T L Y T M Q F I V S S K I E E K | | |
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| UniRef90_A0A033UZB9 | Q Q A Y S F K Y N G P L C S N Q A L H A Y R I S N R A L Y F M N L M Y Q L P I K H | | |
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| UniRef90_S3Z0M1 | P H A F D V S Q G G V V C C R E C C R P G A V A P S V T E H M I F L A G D W D E | | |
| UniRef90_D8GP33 | T D Y L N L Q Y C G G V C C S E C C E K G I P I K Y A T S S A L K Y L S K I P L E N | | |
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| UniRef90_U1L8S8 | P H R F V P Q L G G M M S D E A A P P G R I D P A T E L L E L L G A L L T G E W A L | | |
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| UniRef90_UPI0003B35A1C | N V R F D L K E G K I I C E S C C R H G L Y V S K G T L K Q L F W I I N N S D I L K R | | |
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| UniRef90_R5T1K5 | I V T I S S Y K G G Y I L C C N H C C R G N E K Y N T T K T I K L I R M F Y Y V D I S K | | |
| UniRef90_R6GT36 | S F Y F V P D I N G I V C C D E C F V K F K L T N S V L Y A L R Y T V Y S E F N K | | |
| UniRef90_UPI0004683AE6 | G R F F S V I L G G G I I C S K H F D A D H I I S E R I V Y F L R L F S K I N L D Q | | |
| UniRef90_E2ZIT1 | G A A F D V Q E G H L C A D C C A A K A G I D Q G A L Y A L R H I C L V D D K K | | |
| UniRef90_X4QX46 | P H A F H V Y S G G A V C C D D C C R P P G S T T V E T W Q L I G A L S V G D W A I | | |
| UniRef90_E1VW89 | P H A V H V Q L G G G V V C C T N C C R P S G S L S P H T I G Y I L Q A L L E G D W A T | | |
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| UniRef90_U2F0F2 | G M L F S P Q N G N L L C C R D C A Q P G P L S P G L L A A M R H I I Y S D F S A | | |
| UniRef90_R5LPQ1 | I V T L N V D S F G Y I C C R N C C Y S N E G L S D K T I K M I R L Y Y Y V D I K N | | |
| UniRef90_R6I1H37 | D A F F S V V Q G G G L I C C E A C H G G E E L S S G A Q K L L Q E L I A L D F N D | | |
| UniRef90_K1MKJ6 | P F D F S S M R Y Q G G L L C C Q T H C C R P M S D Y R A E S I P L I Q S I S G M S L S R | | |
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| UniRef90_R7BBY5 | I M Y F D T L D G C V Y C C A N C H K I G T I T K N V I T A V R F I C L T E P K K | | |
| UniRef90_Q0AWP3 | D K V F S S L P D G G G M L C C R D C S G A V S L S K E T T L A L I S L L G R S R L A T | | |
| UniRef90_UPI00031B0382 | P H A F S A P L G G G V C C P D C C R P P G A A S P A S M E L L A A L L S G N W G T | | |
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| UniRef90_D0WN47 | L A A F H L Q S G G G V V C C S D C C R A A A Y P A P E T I E L L G S L V S G R W D V | | |
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130 140 150

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| C S K A K V S K Y I T Y E L D K I L K K Y L H V H V D N V N L K S L | | |
| A A E L S R K P E I S S T A H R L V R W H L Q W H M E R | | |
| L Y A F G V S E E V L R E L T H F M K R Y L G R Y L | | |
| I I Y T F T L K P E V E R E V T R W V K R Y I D R Y T D R F K S L E I L | | |
| I I S K L E L S N I T I K E I S D F L E E Y Y D R Y S G L Y L K S K S L L | | |
| L L F S F N L K D E S L N E L K L I T K L Y F N E K L E K | | |
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| I I D L L K L D D D V I D Q L T E I M N A Y I D E F T G L V F Q S R K F I | | |
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| I I F S F N V S E E S Q K E L D L V T K L Y M N D K L E K E Y K L E E L | | |
| L L Y A F T L L T G E G Q N Q L S D A A E R Y V A V Q L L E R G F R T L L | | |
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| V V L D A D E T V M H E A G R L I T D T M T W H L E R S V R S L | | |
| L L Y R L N L N D E I L K A E I E K V I T F L I A N Y A K R P K S L D M L | | |
| A A V A S N A R Q R E Q A A G L A A A Y A Q W H L E R G L R S L | | |
| L L Y T F T L K P E I I R E T G K W M E R Y M E R G T D R R F K S L L | | |
| A A D A S T S R D R A Q A S G L V S A Y T T W H L E R R L R S L | | |
| I I F S F D L P P E E S I K E L D L I T K L Y L N E K L E Q E Y K L E D L W | | |
| S A T A S E K H R R E A S G L I A A Y L Q W H L E R G L R S L | | |
| I I D M L H L E E N I I D E L M P I M E A Y I D E F T G | | |
| L L Y T F V L N N E T E E E L T R I I L S S Y | | |
| L L D R L R W N D G M K K E I V T S L Q F L C E Q T F K R L K S W S | | |
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| A A D R I K F S S F A I K E G E M L L E A F I I S F H I G R F K S L Q F L | | |
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| A A D R I K F S P F A M A E G Q A L M E S F I P F H I G R M R T L K F L | | |
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| I I F S F S L S S E N L E I L S K I I S E Q Y V | | |
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| L L Y R L N L N E I K S E I E K V I | | |
| A A L Q S S T S A I A A Q V H R L T S V H L Q W H A E G V K S L K | | |
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| I I Y K L N I N A D V K R D I S K V T T F I I S N Y S K K P K S L E M L | | |
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| I I D Q L K V P D E S I D L L M E I M D Y Y V D E M T G I L F K T K K M I | | |
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| L L K E I K W P E S I A R K V K N I L R E F M V Y H L E K | | |
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| A A | | |
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| L L F S F T L L A P A S L K N L S R V S E Q Y V L A H L E G L K S L D F L | | |
| A A E K S E P R H R R E A S S L V I A Y L H H W H L E R G L R S L | | |
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| U U N I F R E F 9 0 _ D 1 P K M 4 U U N I F R E F 9 0 _ U P I 0 0 0 3 6 3 0 A 0 3 U U N I F R E F 9 0 _ R 6 N 3 A 1 U U N I F R E F 9 0 _ U P I 0 0 0 3 F 7 0 6 5 8 U U N I F R E F 9 0 _ C 8 N E Z 9 U U N I F R E F 9 0 _ U P I 0 0 0 4 7 9 4 C 3 1 U U N I F R E F 9 0 _ L 0 R C R 2 U U N I F R E F 9 0 _ D 1 A 9 T 5 U U N I F R E F 9 0 _ E 7 G 7 1 3 U U N I F R E F 9 0 _ R 6 X Z K 6 U U N I F R E F 9 0 _ G 0 V 4 X 0 U U N I F R E F 9 0 _ Q 2 R K V 8 U U N I F R E F 9 0 _ A 0 Q 1 P 9 U U N I F R E F 9 0 _ U P I 0 0 0 4 0 B 9 6 1 F | | |
| A A D A S Q M R H R V E C S G L V A A Y L Q W H L E G I R S L R H V | | |
| I I D H H M E E N I L K E L I P Y M N G Y I E E Y T G V S L K T | | |
| L L F S F N V P Q E S I K E L Q I I S K I Y L Q E K L E K E F K L | | |
| L L R N I K Y D S I L I L E K F I E I V E D Y F K H I R E I K S | | |
| L L K R L Q I N P M L M G E L G E V V M P A F L E Y Y L R R L R | | |
| A A H I I S V S V N E I K E V V K V L D M F I | | |
| V V N S I K I S A D I G R Q L L K F I E V L Y D E Y S G V Y F R S K K L I | | |

| | 1 | 10 | 20 | 30 | 40 |
|------------------------|-------------------|-------------------|---------------------|-----------------------|-----------------------|
| UniRef90_R4K5W1 | L S D L D T | T Y T S Y | L C E L I D | L S M T E G E S N R A | L F K T F V T A F |
| UniRef90_A0A022KYL8 | I T A D Y G R F | T A A S A M L | E T T D R L T D E | V D P S Q R G F L L | L V G A M |
| UniRef90_L7VQ88 | R Q D M T | L L A Y A H M | R L L N D A T Y E | N Q P A K D L I T V | F L Y A L |
| UniRef90_R7LRD8 | R T D L D K L | K Y A H I | H I N K I I Q D | I D G L E D G E | I D K N L Y I E F I |
| UniRef90_N9Y228 | L M S N L D K | L T Y A S Y V | C E L I D I | G L E D G E | I D K N L Y I E F I |
| UniRef90_D4W718 | K L D Y E T | V A Y F Y F | M I E L L I L | K G V S S D E Y S A | I Y R L L K N F L L |
| UniRef90_R7GCX5 | R T D L D K L | K Y A H I | H I N K I I Q D | I D G L E D G E | I D K N L Y I E F I |
| UniRef90_A5D3W7 | R E S L E R I | G Y A S Y V | A E L V E A L | T P E G E P N E S | S L F F L L L D V L |
| UniRef90_D7WE14 | I E D F D R Y | T A A C A | V A L E S A E R | L S Y A G E A D P A | L F A E V S T A I |
| UniRef90_J7IVJ6 | D L D R S F A | T A G I A E | E L L D I S T I | K E Q P N I E | L F R L T L T C F |
| UniRef90_R6H1G9 | L R Q D L T A | S L A A Y F A | E L T E A V A D G | C G G D | V L P L L L N A L |
| UniRef90_C2CN48 | I E D Y E R Y | T A A C A | E S A E R L A F | D A D S D P Y | L Y T A L V H T L |
| UniRef90_R610L2 | L R G D I T A | L S L A S Y F A E | C I E A L S D E G N | P D P L L L Q L I | L N C L |
| UniRef90_W5Y250 | I I E D L E R Y | A A A S A V L E | A V E K L S V A | S G E A E E L Y | D L T I A A L |
| UniRef90_R5BVM0 | Y F G F Y F | L E L A D Y Y G | G R E G V D A H | E T V N L L Y V S L | |
| UniRef90_Q67RZ0 | L R E D L V R | M A Y A T Y A C | E L V D A L L P | E R Q R Q E A P Y | L L L L T S L |
| UniRef90_X8ISR2 | I I G E D I D | D R Y V V A S K | L L Y V D K T T | E E Q A R P R L | F D M T L E F M |
| UniRef90_R6TFH4 | L R V D L D A | L A L G C Y F | A E L T E A V T | S E E V P A E G | G L L R H L L N G L |
| UniRef90_E8LF12 | P K S M D M Q Q | M A Y A A V A | S E L L T A V L | T E D R V P Q P E | L Y E M L G A A L |
| UniRef90_UP100047A8518 | L S D L D T | T I A Y A S Y | L C E L I D F S M | V E G E S N R L | L F K E L V I A F |
| UniRef90_UP10003100838 | L K N N I D S Y Y | R G S Y I L | L L I D F S M | V E G E S N R L | L F K E L V I A F |
| UniRef90_B0PF51 | R G D V C K | L S L A S Y L | C E L T A E T A P | R G E S A G E Y | L R L L L N S L |
| UniRef90_B8FKE1 | I R M D L H | K T A L A S L | W A E T I Y S W A | E E H A Q E E | F Q L L I R S L |
| UniRef90_R7RS47 | L L T D Y E | K L M G T Y F | L E F I D K S T E | E S K N I Y I | I L A L L L K T L |
| UniRef90_D9TPN9 | I D D D I L K L | S Y A S Y F A D | D V V Y K L L Q | D D R N I N Y | N L L K Y S L |
| UniRef90_UP100047AD93F | L R E N I E D | I Y T G M Y | F C E V A D F F | T R E N I E A R D | D M L K L L Y Q S L |
| UniRef90_R7B873 | L R N D F F R | R S S A S A P | V E L L A K S T Y | E D Q P T A R | L F A L S R A A L |
| UniRef90_R6G2U8 | L L N N L E K | L T Y S Y S Y | L C E L I D C V E | N D E V N S A L | F K E F M I C L |
| UniRef90_E0QJA2 | S E D L H K Y Y | L A S A Y L | C E M I E K T Q Q | E N I T D I R | L F K T T L E I F |
| UniRef90_B2A1Y4 | L R T D L V L | M S A G M C | C L E L I D K A I | P E G E E Y P A | L F G V T L S C F |
| UniRef90_U7KSP5 | L I E D Y E R Y | T A A C A | V A L E S A E R | L A F A D A A H P Y | L Y E S V T A T L |
| UniRef90_K8ZBK5 | L Q T D P L | A Y T Y A Q Y I | L C E L D A S R A I | P E R D A P P A | Y R Q F V A V L |
| UniRef90_C8WY29 | E D V V K | A A Y A Y I | L C E L D A S R A I | P E R D A P P A | Y R Q F V A V L |
| UniRef90_R7FZB6 | I R D T L E G | A A L A A Y I | A E V A C D I S | L E D Q P E E K | L L R L V L N S F |
| UniRef90_UP100028867E1 | L L E D F E Y | L I Y G S Y L | N E L V D I C C | E D E Q K E F F | I F K D L I T A F |
| UniRef90_UP10003812010 | I I D D Y D K | T Y A G Q A | L E S A E R L A F | A D Q K E F F | I F K D L I T A F |
| UniRef90_X0Y0C7 | P L R E D L W | R S S L A | Y V Y A A E M | V H Q F T A E H | V Y K L L L Y T L |
| UniRef90_W8T4P0 | S K D L K T | L S Y A S Y | V L N L T K N | V V V E N Q T N N R | L F A L L L K T L |
| UniRef90_W6JU0 | R A R D Y R | R A Y T A L S | T V L E T A D R L | T E E K A P A L Q | F Q F L L Q G A L A |
| UniRef90_L0R3Q3 | R T C A T K T | G Y A S Y W L | E M I N S W M E E | G R P D D D L Y E | I Y Y V L |
| UniRef90_Q892S3 | I S D D I T L | N A Y A A Y | F G L I D L A F | G R P D D D L Y E | I Y Y V L |
| UniRef90_R7CDY3 | T G D L D L | T Y Y G C Y | F L E I A D Y F | C A E E E E N I | Q Q L K L L Y Q A L |
| UniRef90_UP10004798E35 | K N D L N K I | S H A T Y | T D L V N Q V M | K Q N D P E E K | L F K E F V T I |
| UniRef90_R5Q8X6 | V G D Y A A Y | E A A N V I | V E T I D K L V | G E R E R M T D Q | R L L I G A L |
| UniRef90_K6QUR1 | R L D M Q K | L A L A S Y F | S E I I T C A V T | S G Q T A N D I | Y R L F L N S L |
| UniRef90_F7V5Y3 | I E D F T R Y | S C A S A L | E L A T H I A L E | N D P E E K F R | T L W A L |
| UniRef90_R6GU02 | Q D H I E T D I | L A Q C | L E Y Y R Y V P | E N K P D L E T | T Y T F L V D A L |
| UniRef90_B7GQ05 | I A A N Y D | L Y L A A T V | I V E T A E R L T | T D A Q D G T H Q Y | L L L L G A L |
| UniRef90_R7KVU2 | L R E D L N R | M A Y T G F | A L E I L T E L C | P E R Q A E P E | Y E W L L R V L |
| UniRef90_R9ST79 | R A D F H A | L S L A S Y M I | E L T E F P P G | V G V S E P R M F | D L L K D A F |
| UniRef90_R7GL12 | I R Q D L I Y A | H S Y A S L C | E T I D R A M E | T D E I N P T M Y R | L L D F A F |
| UniRef90_S2Z6T9 | L L E R I Y A G | F Y L A E L L | T E M T D T G D P | H P E E L F H A S N R | R V L |
| UniRef90_UP10003735394 | R R Q F D L K | Q M A Y A A L | I A E V T E N L | T E H H Q P | E E L L L A V |
| UniRef90_D8FDR2 | P L R E D L D | R L L T E A A S | P I A E L L E | G A E S E G V Y D R | V L N A L |
| UniRef90_E8SIB9 | I I D D Y P R | Y T A A S T V | L E V E L L N S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_D2QYW8 | I I Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_X0SA06 | L R G D V | V K T C L A | Q Y F C E L A I | I C P R E Q N S E | F L K L I L N S L |
| UniRef90_R5FP61 | I I K E D L K | K I T T A F Y | L I K L I T Q V | I C P R E Q N S E | F L K L I L N S L |
| UniRef90_R7MKI6 | I I R Q D L E | L Y A L A S I | I I D E F L L G I | S E G E P D E K | T F R T L W A L |
| UniRef90_R7FG02 | P L R Q F D L | K Q M A Y A A L | I A E V T E N L | T E H H Q P | E E L L L A V |
| UniRef90_K1Z9F6 | I I D D Y P R | Y T A A S T V | L E V E L L N S | G A E S E G V Y D R | V L N A L |
| UniRef90_R6HB57 | I I Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_C2GK99 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_G5JLU1 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_R6MUE3 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_R7HFG8 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_H5UPX9 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_Q3DJT0 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_G4Q3N7 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_S2WDG7 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_UP100037F80E8 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_F8I931 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_UP10003B76AA3 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_UP100047EC047 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_R6NV66 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_R5WSL0 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_UP10003B49A87 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_S7TJD7 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_B1VG10 | P H V M D I E | G M A Y G A I | I I A E V M Q | L F F E E E P L | E E A F F L I C Q A F |
| UniRef90_U2KRR8 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_R6D9P1 | P R I A D L D | R M G W A M I | L A D T V D Q L | W A D R E A S P | E T F T V L V A A L |
| UniRef90_D4K1T1 | I I R D R D L E | K I A L G | S Y F A E V L V E | G Q P D E E L L | P L L L N C L |
| UniRef90_R7DAC1 | I I R D R D L E | K I A L G | S Y F A E V L V E | G Q P D E E L L | P L L L N C L |
| UniRef90_X8CUA9 | P H V M D I E | G M A Y G A I | I I A E V M Q | L F F E E E P L | E E A F F L I C Q A F |
| UniRef90_R7NHZ9 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_U2UPX1 | P H V M D I E | G M A Y G A I | I I A E V M Q | L F F E E E P L | E E A F F L I C Q A F |
| UniRef90_UP1000479F3AE | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_R6Q1G7 | P H V M D I E | G M A Y G A I | I I A E V M Q | L F F E E E P L | E E A F F L I C Q A F |
| UniRef90_R7IAX6 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_UP100030CFB49 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_UP10004710EB5 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |
| UniRef90_M5RHZ9 | I I R Q M D L Y | V S S Y A S L | A A E T I D R S | M D E G D I S P | Y N Y Q L L Q F V L |

UniRef90_R4K5W1
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UniRef90_L7VQ88
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UniRef90_R6H1G9
UniRef90_C2CN48
UniRef90_R610L2
UniRef90_W5Y250
UniRef90_R5BVM0
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UniRef90_D9TPN9
UniRef90_UP100047AD93F
UniRef90_R7B873
UniRef90_R6G2U8
UniRef90_E0QJA2
UniRef90_B2A1Y4
UniRef90_U7KSP5
UniRef90_K8ZBK5
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UniRef90_R7FZB6
UniRef90_UP100028867E1
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UniRef90_X0Y0C7
UniRef90_W8T4P0
UniRef90_W6JU0
UniRef90_L0R3Q3
UniRef90_Q892S3
UniRef90_R7CDY3
UniRef90_UP10004798E35
UniRef90_R5Q8X6
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UniRef90_B7GQ05
UniRef90_R7KVU2
UniRef90_R9ST79
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UniRef90_S2Z6T9
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UniRef90_E8SIB9
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UniRef90_X0SA06
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UniRef90_R7MKI6
UniRef90_R7FG02
UniRef90_K1Z9F6
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UniRef90_R6MUE3
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UniRef90_S2WDG7
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UniRef90_F8I931
UniRef90_UP10003B76AA3
UniRef90_UP100047EC047
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UniRef90_B1VG10
UniRef90_U2KRR8
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UniRef90_D4KIT1
UniRef90_R7DAC1
UniRef90_X8CUA9
UniRef90_R7NHZ9
UniRef90_U2UPX1
UniRef90_UP1000479F3AE
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UniRef90_UP100030CFB49
UniRef90_UP10004710EB5
UniRef90_M5RHZ9

50 60 70 80

| | 90 | 100 | 110 | 120 |
|------------------------|---------------------------|---|---|-----------------------------|
| UniRef90_R4K5W1 | S V Y F S Y Q Y Y G G I | C N Q C E K G K N I | I S F A A F K A L | L N Y L S K L S M D K |
| UniRef90_A0A022KYR8 | P H H A D V R A G G L | V C T P C C R P G A T | A V R Q A A V E H M I | F L L A G D W |
| UniRef90_L7VQ88 | D I Y F N F R H C G F | V C E K C N T T P R | V K T G A A K A I I | Y V L C A E P A K |
| UniRef90_R7LRD8 | L T K F S I R D N G F K | C E K C N T G K Q D E | M S E S T K S A I | L Y T I S A P P K K |
| UniRef90_N9Y228 | R T Y I N L Q S Y G G I | C E N C D H S I H | I S K E A Y A A L | K F L N K I D A S R |
| UniRef90_D4W718 | Q I T I G I R Q G G G | C E A K C Y D N T Q | I D A P L I P I V | R A L Y R V D D H |
| UniRef90_R7GCX5 | N Y Y F S L K D N G F K | C E E C C R S Q D K M | N E S T K N A I I | Y T V V C P P K K |
| UniRef90_A5D3W7 | P L F F S S S L G G A | C A N P V E V N K G T | C R E R Y S I R A G | S V A F M R Q L I |
| UniRef90_D7WE14 | P H H F H P A L G G A | T L E I L K A L L N W P | G F D V E T L H I | L P A R |
| UniRef90_J7IVJ6 | D R L F F S L E A G L | C G N C C R E R Y S | R A G S V A F M R Q | L I R A D I T K |
| UniRef90_R6H1G9 | P E M L D V V H G V V | T L E I L K A L L N W P | L I R A D I T K | L P A R |
| UniRef90_C2CN48 | P H H F H P A V G G A | C H E P P G E V D P | E T A G L A A L R Y I | L Y G D A K R |
| UniRef90_R610L2 | P E R F S P R N G V I | C C R P Q G E V D E | E T A G L A A L R Y I | L Y G D A K R |
| UniRef90_W5Y250 | P H H F H P A P G G A | V C V N C R P Q G E | E T A G L A A L R Y I | L Y G D A K R |
| UniRef90_R5BVM0 | E T Y F S Q S L H G M | C H N C C R D L S Y | V D E S V R Y T L Q Y I | A T V P L A K |
| UniRef90_Q67RZ0 | G V R F A P V L G G V | C P Q E G A L R L S | V D E S V R Y T L Q Y I | A T V P L A K |
| UniRef90_X8ISR2 | A E Y F S V S G G G I | C C D C Y K R L D M | G A L R L S L G A L E | T M K R L L D G D I R R |
| UniRef90_R6TFH4 | P E Q L D V V Q G V L | R C R S C C G V K E | D C Y K R L D M R D A S | E L V L D Y F T R T P L S G |
| UniRef90_E8LF12 | N A W F S P L Q G G G I | C C S S C C R G L E | C T S S L A A L R H I | V Y G D P K R Q |
| UniRef90_UP100047A8518 | N N Y F S S Y E Y Y G G I | C P C G A E T R E L | L W Q W L A Q L D Y E Q | N N Y F S S Y E Y Y G G I |
| UniRef90_UP10003100838 | D A R F S I S E G G G L | C F C P K S N G I | S H A A F N T L K F L | S K L Q L D K |
| UniRef90_B0PF51 | L I Y F L P L T G E L | C C G E C C Q P R M R L | S H A A F N T L K F L | S K L Q L D K |
| UniRef90_B8FKE1 | E D W F D H A R G G I | C C P K C C A P G P V | S A G V L A A M R H I | L Y A P F E R |
| UniRef90_R7RS47 | I N L F S N E H G G I | C C S N C C T N K N | L D M R D A S L E V L D Y F T R T P L S G | I N L F S N E H G G I |
| UniRef90_D9TPN9 | K V Y F S P A K G G V L | C C K S A V D L K | L D M R D A S L E V L D Y F T R T P L S G | I N L F S N E H G G I |
| UniRef90_UP100047AD93F | L I Y L S R Q R N C A I | C C K S C C F N K L K | I S P T A I Y T L Q Y I | S T T R V E K |
| UniRef90_R7B873 | E Q T F S F F D G G V | C C A R C C A A H H E | V S A G V L Q W C | N T L L Y S T F Q E |
| UniRef90_R6G2U8 | S D Y I S L S H Y G G V | C C D E C C K G F F | S K P A Y N A L R F L | K N T S M D K |
| UniRef90_E0QJA2 | T E Y I D I L S Q G S V V | C C D N C C S H P Y R M | M D R N L R I F R M K Y | V Y S N D L S N K |
| UniRef90_B2A1Y4 | N L Y F D P E T G G G L | C C E T C C F E Q F P | V E K G S I N I I K R M F E F P V Y K | N L Y F D P E T G G G L |
| UniRef90_U7KSP5 | P H H F H P A A G G A A C | C H E C C R P P G E | V D P E T L H H L W | L A H N H P T |
| UniRef90_K8ZBK5 | P Y D Y S S F Y H G V I | C C R E R H F A T I E | P P Q V L F Y L R K F Q | D F F N F F Q |
| UniRef90_C8WY29 | A P R Y D P R E G G G L | C C P R C A S A L P V | P R K T S A V L H L L A H A D I A K | A P R Y D P R E G G G L |
| UniRef90_R7FZB6 | T Y Y F D V E G G Y F | C C E S C C Y R A I P | L T P S V F A A M R Y V L Y C K P E R | T Y Y F D V E G G Y F |
| UniRef90_UP100028867E1 | N N Y L S M Q Y Y G M I | C C N D C E K R Y V T | N I I K R M F E F P V Y K | N N Y L S M Q Y Y G M I |
| UniRef90_UP10003812010 | P H H F H P G Q G G A V | C C N N C R P Q G E | V Q E Q T L H V M W L | L Q N G H L A S K |
| UniRef90_X0Y0C7 | T N F F S I S S G G G V L | C C P Q C C P Q C C | V Q E Q T L H V M W L | L Q N G H L A S K |
| UniRef90_W8T4P0 | G I G I Q P E N G S C I | C C S D C C A P H M R I | V Q E Q T L H V M W L | L Q N G H L A S K |
| UniRef90_W6JU0 | P Q A F N V A A G G A V | C C P S C C R P G S V | I D P T T L E L M R Y I T G S E F N I | P Q A F N V A A G G A V |
| UniRef90_L0R3Q3 | D E I F D L K A G K L V | C C C N K C C S S R D | R P A R A T L D L L A A L L A G D W | D E I F D L K A G K L V |
| UniRef90_Q892S3 | S N Y I S L S Q F L G G L | C C C N K C C S S R D | V S K G T L K Q L S W M N T N D I R R | S N Y I S L S Q F L G G L |
| UniRef90_R7CDY3 | L V I N F S F L E G G I T | C C C S V C S H D F E | I S N A S Y N I I K Y L N K L P L E K | L V I N F S F L E G G I T |
| UniRef90_UP10004798E35 | E E F F S V L S G G G V L | C C C S V C S H D F E | V K G E V I Q W I Y T L L Y S T F E Q | E E F F S V L S G G G V L |
| UniRef90_R5Q8X6 | N I Y F S I S N N G Y L | C C C K N C C G F L | N I I K Y L N K L P L E K | N I Y F S I S N N G Y L |
| UniRef90_K6QUR1 | P L D F S E S Y Y G G L | C C C Q N H W D K D P H S P R A I D A L R L I S T K W S A | P L D F S E S Y Y G G L | P L D F S E S Y Y G G L |
| UniRef90_F7V5Y3 | L E Y F D P A G Q R V V | C C C S S C C Y H G T P I D A S A L Y T L Q Y I I A S P V E K | L E Y F D P A G Q R V V | L E Y F D P A G Q R V V |
| UniRef90_R6GU02 | I V T I D P D V G G Y I | C C C K N C C Y T N E I Y D E R V | R K M L R M Y Y L V E I D S | I V T I D P D V G G Y I |
| UniRef90_B7GQ05 | P A Y L S I A S G G V M | C C C K N C C Y T N E I Y D E R V | R K M L R M Y Y L V E I D S | P A Y L S I A S G G V M |
| UniRef90_R7KVU2 | P L I Y F L I K Q Q G I F | C C C K N C C Y T N E I Y D E R V | R K M L R M Y Y L V E I D S | P L I Y F L I K Q Q G I F |
| UniRef90_R9ST79 | P H A F H P G P G A V V | C C C L Y C R P P G E | V P P E A L H H M M W L V A N G Q A A R | P H A F H P G P G A V V |
| UniRef90_R7GL12 | V T S F S L V D G G F V | C C C L Y C R P P G E | V T S F S L V D G G F V | V T S F S L V D G G F V |
| UniRef90_S2Z6T9 | P H S F S I P D G G T | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | P H S F S I P D G G T |
| UniRef90_UP10003735394 | P A G F D L A A G G G V | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | P A G F D L A A G G G V |
| UniRef90_D8FDR2 | R A V F K H S K G G I A C | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | R A V F K H S K G G I A C |
| UniRef90_E8SIB9 | P A H F S F K F D G I I | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | P A H F S F K F D G I I |
| UniRef90_D2QYW8 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_X0SA06 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R5FP61 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R7MKI6 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R7FG02 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_K1Z9F6 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R6HB57 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_C2GK99 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_G5JLU1 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R6MUE3 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
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| UniRef90_H5UPX9 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_Q3DJT0 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_G4Q3N7 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_S2WDG7 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_UP100037F80E8 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_F8I931 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_UP10003B76AA3 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_UP100047EC047 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
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| UniRef90_R5WSL0 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_UP10003B49A87 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
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| UniRef90_B1VG10 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_U2KRR8 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R6D9P1 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_D4K1T1 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R7DAC1 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_X8CUA9 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_R7NHz9 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_U2UPX1 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_UP100047F93AE | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
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| UniRef90_R7IAJX6 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_UP100030CFB49 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_UP10004710EB5 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |
| UniRef90_M5RHZ9 | U N I Y F S I S N N G Y L | C C C C D T C R P P G A S S P A T | V A L L Q G Q L L S G D W E | U N I Y F S I S N N G Y L |

130 140 150

| | | |
|---|---|--|
| V Y R V N L D S K I K K D E I Y K I L D L I L Q S Y G K K P K S L E I L | | |
| G N A V T A D E T V M L E A G R L I A D T V T W N L E R S V R S M | | |
| V F D F E L A P E V L K N F E D I V D R Y V D D R L E K E Y S | | |
| L Y S F S S L K D D S S L R E F E I S K I Y F N E K L E K E Y K L E E L | | |
| I Y M M K L S G D I K K Q I E K I N L Y F I T N Y S R K P K S L E M L | | |
| L P E V E L E D E L L Q P I E Q F L D A Y Y E T H R T K K F L L K D L | | |
| L Y S F D I K D Q S L E E F K L I V K L Y F N E K L E K E Y K L E E L | | |
| I G L L R V N R R F R N R I R L I R Q Y L T Y H L E R I K S Y A F L | | |
| A A A D R L T E T T A A Q T H R L A T A H L Q Y H E | | |
| L D R M R W G V W M E Q E I L E T T L R L Y I E H K F E R I K S W R | | |
| L Y S F A L P Q P G L R A L D H A S D A Y V T A Q L E R S F R T L | | |
| N P T H E Q R Q E A H Q L T R A H L Q W H L E R | | |
| M L S F K I D D D A L S R A A K A S E A Y L L A Q T E R K F S W R Q I | | |
| A R E L E T P A R V A T A H Q L T R A H L Q W H L E R | | |
| L Y T F T V S D K V Q R A L G K L V H T Y V Q R N T E R F K S L E I L | | |
| A H M V R L S G E L A A E I D R A L S A Y I L A R T E R I K S K E F L | | |
| F E K V S L K P S V S S L E Q R I L S E Y L K Y Y L | | |
| L Y S F T L G E D A L E R L A G A A E A F A A A Q L E R G F R T L | | |
| P T P F K V R G G A L M E L E K I L F K I F F Q L N S L N F L S Q L | | |
| I Y R I N L N N Q I K D E I Y G I L D L I F Q S Y G K K P K S L E I L | | |
| L G S I E V N K S M N I R K F L F Y Y V Q V Q L D K R F P T L | | |
| L F A F T L P Q E Q L V Y L G E V T Q Y Y V Q V Q L D K R F P T L | | |
| A G R M K L S R E A M D R G R D L L E S F L A Y H L G E P K S L R F L | | |
| L V K L N Y D E K I R K I E Y L K D Y I N Y Y L | | |
| I G K I V V Q K A T V D E L D R L M T E Y M N V H F D K I F Q S K | | |
| L F S F T V T E E V R E E L E S I V S E Y F H R V T G K E F Q S K S F L | | |
| I E A Y H V P A G V L E E A L V F T N E W H L H L G S M K S L A F L | | |
| V Y R L N V N D E I K K Q M E R V I T N I A N Y S K R P K S L E M L | | |
| V V L E V K I L A D I L L E Q L D V F I Q N Y I N Y H L G A L | | |
| L R T L K P T Q L Q Y D T L E K M L T S M L E V H F G | | |
| N P T N A Q K Q E G H R I L A R A H L Q W H M E R | | |
| I G K I D I H P Q W I R Q I W Q V I D S I Y E E E L G | | |
| L H R V D L S G A M R D A L S R I L A H Q L R E F F G | | |
| L F A F E L K D E A M G E F S G A C E K Y L L C H L E R D F R S L | | |
| V P R I K V P Q N A K K E I E Q I L S N I I A N Y T K R P K S L D M L | | |
| A C D L A D A H I S A Q V H R L T S A H L Q W H L E G V K S L K A | | |
| UniRef90_XOY0C7 | C V K A K V S P F I V G Q L K K V L R L C L R A N V D G | |
| UniRef90_W8T4P0 | D V A D A S A A Q H R R E G S G I T A A Y V Q W H L E R L R S L P H V | |
| UniRef90_W6JUJ0 | A E R L K F S V N A L R E G E N L E G F P C H I G R N L R S L I | |
| UniRef90_L0R3Q3 | T Y R I T P D N L K K E I Y D I L K Y I Q N Y R R P K S L E I L | |
| UniRef90_Q892S3 | I L T F S I S D S L Q Y D I L R F L Q Q W I K V H L G Y S L K S L | |
| UniRef90_R7CDY3 | L E E I S L T V E E E K S I G D I L H S Y I I A H I D K F N S L K V L | |
| UniRef90_UPI0004798E35 | L Y S F T M S D E A K K E L K L I S N L F V N H N L D K E Y K L E | |
| UniRef90_R5Q8X6 | S T S N L I P K Q N Y D E F W M L | |
| UniRef90_K6QUR1 | L F N F R V T D E V Y D T V S H I I H R F F H V Y L D R L K S E R F L | |
| UniRef90_F7V5Y3 | I K E L K I K D Y V I D S I N K F L S V Y Y D R Y T G L I R S K E F L | |
| UniRef90_R6GU02 | L D A A P V E R V V R E L V E D W G E Y Y L E R P I R S L R | |
| UniRef90_B7GQ05 | I F S F R L S E G A L K K L G K I S E M Y A Q E H F E R H F R T L | |
| UniRef90_R7KVKU2 | I P R E H P E Q Q T T I H Q L T T A H L Q W H I E R K L P T L | |
| UniRef90_R9ST79 | I D A L S I D E A V L K E I L F I F E Y Y I D E Y C G | |
| UniRef90_R7GL12 | H A D R C E P Y A R T E A S G I T S S Y T Q W H L E R R L R S L | |
| UniRef90_SZ26T9 | M E G F L V S R E A L L M L E A L L L S Y V E H H I E R L R S L | |
| UniRef90_UPI0003735394 | A Q K V T L T D G M I E E M K R V L R Q H L R Y S L G E L K T T R Y L | |
| UniRef90_D8FDR2 | I N A L R I Q D A I V E E M S K F I L L L Y K E Y A G | |
| UniRef90_E8SIB9 | W S S I A L E P K L A G E M R A V T Q H Y L A H H L G | |
| UniRef90_D2QYW8 | I R H I K V T E R V G K V E V E R L L K S F I N Y H L G | |
| UniRef90_X0SA06 | I E E S Y T L S P D I Q E L L R F L Q T W V K T H I G Y T L K S L | |
| UniRef90_R5FP61 | L Y N F R V S D N I Q S Q L S E Y A E K Y L I T H E H N F K T L | |
| UniRef90_R7MKI6 | L F C F R L G K D N L R R L G H C T E R F V Q Y H | |
| UniRef90_R7FG02 | L H R L K L A G P V L S E A L L H H Y G R T F R E I N S W K T M S F | |
| UniRef90_K1Z9F6 | A G Q S T A R I S E A H A L T T A F V T F H E R I R S L R L L | |
| UniRef90_R6HB57 | P E P F T V R G K E L M E V E K I L Y R F L T F Q T D R L K S L Q F L | |
| UniRef90_C2GK99 | A D G A P D F A R R E A A G L V A A W V Q W H L E R I K S Y S L I | |
| UniRef90_G5JLU1 | A Q D L E L G P E T A H I A D R L T R S H V Q F H V G R I S S F Q V L | |
| UniRef90_R6MUE3 | F G Q A E V V K G Q M Q T E L T E F Y R F T I V A R A G R L R S F D F L | |
| UniRef90_R7HFG8 | L L S F R L D E A G L E Q L G Q V S E A Y L L T Q T E R G Y R T L | |
| UniRef90_H5UPX9 | L F S V L L D A G S L A L L S D L C L E A F F L T Q F E R G F R T L | |
| UniRef90_Q3DJT0 | L D G T A L L P E T R Q M V E K W G E Y Y L E R P I R S M R L L | |
| UniRef90_G4Q3N7 | I K N L N V A D S L S K Q A L Q V C G R Y I A H | |
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| UniRef90_Q4JWN9 | N V A F G L S L G G V I C A G C C R P G Q P H D G G T L T A I R A L A A P G G E |
| UniRef90_S7TYU6 | P H R F H P G A G G V C V T C C P P G A F T P H A P R Q R V V L G R E A A Q T L Q L S R S D P D V |
| UniRef90_UPI0003B3DC35 | U n i f t l n p p g v i l s d e a q n m p v s s k a i h l c r l a n i r p n q |
| UniRef90_D6Z8K2 | P H R F N P R A G G A V C P L C R g s g t P g p g v l e l l m s a l a e g r w d |
| UniRef90_H0DEQ7 | L V G Y S F K F D G A I S Q Q A L S E D P H S N K T L Y L Y M L Q S L P I D K |
| UniRef90_V6HLJ1 | K E M T S V T L Q T L V C G N C L H S D Q N D L G L V Q W I Q T F L M R F R D |
| UniRef90_R5MB10 | N I T L N G S L G G L I C R S C Y Q K E Y L N K T I I M I R N Y A N I D L K |
| UniRef90_R9LXU4 | V V Y F L P Q S A S A I C G A C I Q R V P L S R T V L A A M R H I L Y A E S E K |
| UniRef90_UPI00037A372E | L I A F D P L R G G S L C R S C A A G A E V G V G T L G S L S R A L Q T P I D L |
| UniRef90_Q39RG3 | P A T A E R R T G A I L C A N C R Y G A S V G P E A A A L L G R C I A T G R |
| UniRef90_UPI00047B644E | K P Y F D L L E G E F V A I E S L N P I L R G E N I Y Y F K T F L G I N F D A |
| UniRef90_E6UAA4 | D D H F N Y L E D R L E C Q D C C P N P D L D K Q L L Y I V R F I A L T E Y E K |
| UniRef90_G1WG10 | L A F F S S A S A G G L L C S S C A S S E A V D A E A V N W L R A L L P L T F D E |
| UniRef90_R0MAA4 | Q A F F S F K Y G A C L C P E H Y H E D E R R R C I S P I S L |
| UniRef90_C5CCC2 | P H A L H V G L G G D V C C P C C R P P G A A A P E T F D L L S A L A A G D W A T |
| UniRef90_I4M5A4 | L D Y F S A A S G G V V M C S K D H A L E S I K C N D L V R L Q M I S L I D W Q N |
| UniRef90_R6U005 | R R M Y L D V M N G S I A C D N C F G N D P L S P A V L G A L R Y V I G C P P K K |
| UniRef90_UPI00029A6A18 | T E G F W V S E G G L I C P D C C Y T Q L S I H A G T A A A R R L L A G E S E Q A |
| UniRef90_UPI0002D8D507 | M I A M S P M A G G V V C G P C G K R R T V S M D G L V C L N E L V M G E |
| UniRef90_R6AIN4 | E V A F S K V Q G G T L C D Y C G V G V C R V S A L S A E A L R R M I L L P L P Q |
| UniRef90_UPI000361477A | P F D F S Y K Y S G L L C P Q H Y E K D S Y R P N P Y L L D R F Q S I S F E D |
| UniRef90_U2M7F4 | D A Y F L T Q E G G A L C V D C R A S T S F S E E L R A L L C S L E M L D W A H |
| UniRef90_UPI00036377B7 | P P |
| UniRef90_F0SVD1 | P E V L D A E T G G I L C L P C R Q G S G L G A G S L A L M R Q L L K T D L E K |
| UniRef90_R6ZQF2 | V T Y F S A T A G G L L C A S C A R N V P L D A V T V G W L Q S L I S L R F D E |
| UniRef90_V2XIX2 | S I D E G I F L |
| UniRef90_G9RZ19 | G F C F D A R K G R L Y C G E C C A A K R E L G K L K P S T V Y A I K M I A V T D I T K |
| UniRef90_F1T4W3 | I A Y F S A T S G G S I C T S C A H L S E L T P S E V Q F L E F M L G S V F D K |
| UniRef90_B9DNL2 | Q I A F S F K Y H G V I S E Q Y I D R D P H S N K T L Y L M D I L L Q K L P I D N |
| UniRef90_R4Z488 | L V A I D P S V G G A Q C R S C A T G M A L S A D A L A V L R A V S E G R V N D |
| UniRef90_E4DCZ6 | P H Q G F S P S L G A W C V L V S R P E L L I R T R R R F R |
| UniRef90_S7VM20 | D Y A F F N L E S G V F E A S N H G I Y S V S G E N L T L L K R L L G T S F D A |
| UniRef90_E3FGS3 | R P R F D Q A H G G A V C E P C G V R A R D A V A V P A A L L A G L R A L L Q E |
| UniRef90_UPI0004233865 | P H A F H I Q A G G V C A A C R P A G V D P A V M A L L S G D W E A |
| UniRef90_A4CIM7 | A P Y F D L S E G E L C G D C F D R E Y L T R E I L G A M Q N I V Y A R L D E |
| UniRef90_R5LH19 | P A R R A G A A G T V L C T G C C R Y G A P L S A E T V R L L H R C L G T |
| UniRef90_Q74FM9 | V H A F S A D K G G F V C Y R H T L G E D L M P I A L K R H I Y K C P P E R |
| UniRef90_M2P8H6 | L L A F F L A I D S G R L S P A C R G W D R L G Q E A V S T L R F L S R S D P G G |
| UniRef90_S7T1L2 | T V Y A D V T D G A L L C A H C L S D A P L T P H A L A A A R F V R E A P L S R |
| UniRef90_R6SN97 | D A F F L L A R E G G A L C Q D C C R T V E P F P A Q V R E L L V A L E N V D W A H |
| UniRef90_F5RPX5 | P H H F H P A S G G A V C E D C C R P P T P A G E S L R I L W I L A G H T E |
| UniRef90_U3GYY2 | K A Y F S I R E G I D F Q D P Y S F S T R D L I Y L N K I L Y S K L D D |
| UniRef90_UPI00037D0397 | L N F F S V Q A G G M C S T D R L L D E I S H E S R V Q L F A L L K G R W D L |
| UniRef90_UPI000376C855 | F T A V G V K E G G S I C R E C L S K A E Y S D F S L N Q M R A L Y K I I F A K |
| UniRef90_U1SIM2 | L N Y F S V S A G G I T C S T D R F M D E I S Y D M R V Q L F A L L K G R W D L |
| UniRef90_W5WQI2 | P H R F H A G A G G A V C V R C R P P G A F T P P A M R G L W M L S K G R L G E |
| UniRef90_UPI0003B5B406 | S L L D S T R Y A M N Y I A T S S N L E K |
| UniRef90_B8IZ94 | S V Q F V V D E G H V R C P S C R A G V E L S A G G L D L R H V Q Q E L P S G |
| UniRef90_M7MLP3 | E S W F N L A E G T F Q H H K T N M Y A V S G E N I I L L K H L G I N F D K |
| UniRef90_UPI000368308F | T V W Y S A T S D G V T C G D D R G S V A L S A E S V A T A Q R I F R G T V K G |
| UniRef90_Q2JQL5 | E A F F S P H A G G L V C V D C P C R L A Q R I S P S V L Q A L G S L P N P T L P S |
| UniRef90_V5RT94 | K E Y L D A G H G G F V C V D C S H G L G F S V Q A V D T L R E L S G N K L S K |
| UniRef90_X0XNS9 | Q N F F S P V A G G T Y G A G A G S R A L S V N G L K V L R L L Q R A S Y K E |
| UniRef90_K2FJF6 | K N Y L S M P R G G I L C F D C Y K S E P I S N E M K L I R F S K N K L E S |
| UniRef90_R5QL31 | G V L C V R C R P P G A F T P P A M R G L W M L S K G R L G E |
| UniRef90_C7N5M4 | D V S F S V L D G G C C D D C S R L S E L P P A E T I Q W A N Y L L M S T F A D |
| UniRef90_UPI0003B781A0 | A H S F H P A A G G P V C P A C R P P G S I S A G A V P L L H A L Q H G Q W H Q |
| UniRef90_K2AQE9 | S E S F S Q A H G G G L C A N C A H E N P T S A N A I K M M R I F L K N N I S T |
| UniRef90_C7MNH6 | E V R F S Y D G G A L C Y D C A A H V A L S L H T L N W H A L S L M T F D E |
| UniRef90_R7MHZ4 | T M Y F P T A G G V V C K N C A A K Q M P H K L R D F F K Q M A I N D F D E |

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| UniRef90_D3QC17 | M N Q L S I H Q E I I N E M S D F M I M L Y R E Y A G V F F K S Q K L I | |
| UniRef90_K6ULU6 | G R A D A S S P V H R R E G S G L V S A F L Q W H L E R V R S L R | |
| UniRef90_UPI0003B59576 | L P R L K I G A P Q R V E I E K I M L Q F L A Y H S G S S R T P K S L | |
| UniRef90_UPI0002F99AB5 | A E R T P D H A A A D A S R L V T S Y V H W H L E R V R S L T V L | |
| UniRef90_UPI0003A4E3CD | A D A S A P E H R R E A A G L V A A F V Q W H L E R S L R S L | |
| UniRef90_Q1D7T4 | G A R T P L P P E L R A R A R G L L N V F I A H H L G R | |
| UniRef90_W51HD1 | L D Q Q D L S P Q V R E I V E E W S Q Y Y L E K I H S L R | |
| UniRef90_B9YB45 | F A Q L P Y G P W T K K D A E L L V E F L M L H S G K L E S W R F L | |
| UniRef90_S0ESR6 | L L H Y L P P K T V V S S I E R A L R S F I R F R A E R | |
| UniRef90_C7NH47 | L L G G A R S D A C C R R E V H S L V T G H V Q W H T E R V R S V R H L | |
| UniRef90_I4MEK3 | I D G V P I D S S T L S C A K L W A E Y Y L E R P I R S I | |
| UniRef90_E8RB87 | L G R L Q L P R H A V I E A M N A L H H Y T L H L Q D I H S W R | |
| UniRef90_C8W6X9 | L V V A E I A P E T A F L F L T S A H I W A A T H L E R L K A F E F L L | |
| UniRef90_K9CFT7 | P G S L H V R G G T L L M S A E A I V L A H V R E L T G R L H S L D F L | |
| UniRef90_UPI00047CD293 | A A A A E E S T R N R A A G M I A S F V Q F H V E R S L K S L | |
| UniRef90_M5B8U1 | A E A A T L R S Q A R A S G V V A A Y A Q W H L D R I R S L R Q L L P | |
| UniRef90_U1R197 | A G R A A A A Y A R P E A A G L V S S Y T Q W H L E R L R S L Q V L | |
| UniRef90_UPI000479C8CC | P V E L K I K T G S L L M Q A E H L F L T Y L Q S L L G R P L K S L | |
| UniRef90_D5SRN7 | W S R L L P S P Q Q V K E L R A V M L A A V T H T L G K | |
| UniRef90_E3EMS1 | L D G A P P D A R V L R F V E D W G E Y Y L E R I R S L R L L | |
| UniRef90_A6CD04 | S Q R L N L S L Q Q Q R E I R Q L L S T T M S H L L G R | |
| UniRef90_R6SYR5 | L F A F K I S E R Y Q K K L T A F T E R F V R Y N L K G K F P S L | |
| UniRef90_Y5PKD9 | M N H F N I N Q A L L D E M S E L M I M L Y R E Y A G | |
| UniRef90_A9A0L3 | A E R M R F T A A A R E Q G L A A L E A F V T Y H L A E I K S L K V L | |
| UniRef90_X0XQ31 | K G P L P F S T P E L E S I K K T L Q D I I I F H L E K K K T L R Y L | |
| UniRef90_M1YMK6 | T D R L K I P K G S E A E I I E S I T H R L I L A R L G R L K S Y P F I | |
| UniRef90_R5B5G1 | I N R V V L P E K Q R A E L L K Q A V N S F A E F A L E K K F R | |
| UniRef90_UPI000365BD65 | D N K I P F S E Q Q I E S V R K I L K S I V F H M E R | |
| UniRef90_U7PEF7 | M N S V N I H Q D I V D E M S D L L I M L Y R E Y A G V F F R S Q K L I | |
| UniRef90_UPI0003B5ADBA | L K C L R P Y A E N I N Q A G K L I E R F I L L R V A D E I H S L R I L L | |
| UniRef90_E8QXT4 | W R N L L D L S P E S G R P L R G T V S A I I S H L M G R R P H L L P | |
| UniRef90_Q4JWN9 | V F R D Q Q G Q D I A A Q S H R L L A H V R Q Q L E | |
| UniRef90_S7TYU6 | W P A F D D V S P A V R R E C S V A V D R F I E Y H L G | |
| UniRef90_UPI0003B3DC35 | L G K L D I N P V T V K D A L K L L S V F Y N D Y I G S L K S R K Y L | |
| UniRef90_D6ZBK2 | D A M G A A T A A R A Q A G G L T A A H L Q C H M E Y Q L R T L L | |
| UniRef90_H0DEQ7 | M S G L S I H Q A I V D E M S E L V I M L Y R E Y A G M F F K S Q K L I | |
| UniRef90_V6HLJ1 | L K E R K I S V E T T L L D L D R I C N R M L E P I L R K L K S S V T L | |
| UniRef90_R5MB10 | I I K E I K I S P L V K T E I N L F L S N Y Y E T F T G | |
| UniRef90_R9LXU4 | L F S F T A P K E Q L M D L N E I T Q H Y V M T Q I E K R L E T L | |
| UniRef90_UPI00037A372E | F A G F Q G F G R T L R D G A A M M N L V L Q L I L P R V K S Q R F L | |
| UniRef90_Q39RG3 | F G A V L F S P Q S L R E A G T L L D G A L A A H L R P L N S L A F L | |
| UniRef90_UPI00047B644E | M H T V K M K K T N R Q E L L K S L I L Y F E L H L Q G F R K P K S L | |
| UniRef90_E6UAA4 | L F Y F K I S D K Y L K K L T E F T E K F V W Y H F N R | |
| UniRef90_G1WG10 | L V L Q H V D T G T S N L L A L S H A W A A T H L D R L R A M E F L L | |
| UniRef90_R0MAA4 | I C S I S F K P L I L R | |
| UniRef90_C5CCC2 | A D A S G A P A R R E A A G I V A A Y L Q F H A E R L V S L S V L | |
| UniRef90_I4M5A4 | L D G T S I D D L T S K C V E Q W C E Y W L E K P I K S M R | |
| UniRef90_R6U005 | I F S F A L P D E E K E D F C R V C E K Y L V N Q T E R S L P T L | |
| UniRef90_UPI00029A6A18 | W K R L N L A P Q Q L K E V K H V T T S A I S H V L G R | |
| UniRef90_UPI0002D8D507 | H P A V G G R E V R E V L G F Y I S S V V L G R | |
| UniRef90_R6AIN4 | M G R V K L P D N V R K E L D L I I Y E Y A E Y S F E Q I | |
| UniRef90_UPI000361477A | L Q T I S V K P E M K Q R L R R F I D G I Y D N Y L G H L R S K K F I | |
| UniRef90_U2M7F4 | P A P L S L R G G I L M M A E S I V L A H V Q E L V G P L R S S F L | |
| UniRef90_UPI00036377B7 | L D R L R W N S K M K E E V L Q G L C F Y C E G R F G R L K A W R Q | |
| UniRef90_F0SVD1 | L A A A P C D A P T A A L L L A F A H I W A A T H L D R L R A L E F L L | |
| UniRef90_R6ZQF2 | L F S F D L E A E S K R E F I K L A A E Y | |
| UniRef90_V2IX2 | L F S F S L A E H S T Q L L G A V T G R W A L Y C V D R L R S L D F L | |
| UniRef90_G9RZ19 | I I H T D Y D P K I M Y N L G L L A H Q W A A T H L D R L R A F E F F L | |
| UniRef90_F1T4W3 | M N H L N I H Q N I I N E M S D L L I M L Y R E Y S G I F F K S Q K L I | |
| UniRef90_B9DNL2 | V L A A A P V A V G E V G R V A Q V A M E T H E R | |
| UniRef90_R4Z488 | L H T I T I K A K Q R Q E F L N M L L Y Y F E L H L G S F K K P K S L | |
| UniRef90_E4DCZ6 | G H R T P L A P E L R A Q A R G I L N V F I A H H L G R | |
| UniRef90_S7VM20 | A D A S A R R E R A R A S G L V S A Y T T W H L E R | |
| UniRef90_E3FGS3 | I H T V E L T Q A E R E R E L L N S L I L Y E I H L Q G F K K P R S L | |
| UniRef90_UPI0004233865 | A F R F S V S P Q A A K L L G I V T E N Y F L A R T E R S F S A L | |
| UniRef90_A4CIM7 | F G A I V F P P E P L G I E A G P L L D G A I I G A H L A R L A F L R Q L T P | |
| UniRef90_R5LH19 | I H E L H L G N E V K D I L P I L D Y Y I D E Y C G | |
| UniRef90_Q74FM9 | W P D L D V S P T A R R E C F A V A D R F I E Y H L G | |
| UniRef90_M2P8H6 | V L S F R L E R E A L A S F A A F A E S Y L H H L G R G F Q T L | |
| UniRef90_S7T1L2 | P V P L Q L R G G T L L M A A E S V V L A H V Q D L A G P L R S L A F L | |
| UniRef90_R6SN97 | L E N I E I D L I N R K K Y L H N I V I K Y L K Y N L D I S S F K S | |
| UniRef90_F5RPX5 | L P E T T G K Q V L N P D V P E I V E D W L Q Y Y V E R I R S L K | |
| UniRef90_U3GYY2 | L K A K Q F S E P L T N K L M E L T E N F L L A Y H L D N P K S L S F L | |
| UniRef90_UPI0003D0397 | L D E S R Q D K A A L N A I G G I V E E W L Q Y Y I E R V R S L Q L V | |
| UniRef90_UPI000376C855 | L Y T F T V T D E V L I S E L E R I I S S R Y I E D S I D R L K S L E M L | |
| UniRef90_E4RIL8 | W H A E E L P S A D R R A C S R V I D G F V Q Y H L G | |
| UniRef90_U1SIM2 | L N T I K L N S N Q R Q S F L K M M L L Y F E L H L E G F R K P Q S M | |
| UniRef90_W5WQI2 | L A E E D W P K T R G A D L R R F A V E T L E R H L E R L V S A R A L | |
| UniRef90_UPI0003B5B406 | L A E R A L P L A S W L A A E R L L R R V L E L H A D R I R S | |
| UniRef90_B8IZ94 | S T E K I L K E L N T I T S A L I D E H F S R I K S R E L L | |
| UniRef90_M7MLP3 | V E G L N L P P A L A E E V E R H L R S Y I V C V L E R | |
| UniRef90_UPI000368308F | L A K L K T E T K D V Q K L K A I I K E I N W | |
| UniRef90_Q2JQL5 | L Y T F K V S D A V L Q Q L A E Q C R I Y R D R Y I G R F K S L A V L | |
| UniRef90_V5RT94 | I A Q H P C E R R V A F D V M Q L C Q S W S R E H V G R L K S M N F L L | |
| UniRef90_X0XNS9 | T T E C T A D L R R H E A V E V V T G F A Q H H L E R P F K A L | |
| UniRef90_K2FJF6 | F G K I N A T R E D C D S V R M A M D F L R R W | |
| UniRef90_R5QL31 | V E Q A D C D D T A F H V L H C H S W L R G A L G N L K S M N F L L | |
| UniRef90_C7N5M4 | I Y E T K A N E K V C T V S F Q V L K E Y I E L K S P K K F K S | |
| UniRef90_UPI0003B781A0 | UniRef90_Q1D7T4 | G A R T P L P P E L R A R A R G L L N V F I A H H L G R |
| UniRef90_K2AQE9 | L D Q Q D L S P Q V R E I V E E W S Q Y Y L E K I H S L R | |
| UniRef90_C7MNH6 | F A Q L P Y G P W T K K D A E L L V E F L M L H S G K L E S W R F L | |
| UniRef90_R7MHZ4 | L L H Y L P P K T V V S S I E R A L R S F I R F R A E R | |

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| UniRef90_UPI0002E04B13 | L R L D I Y E S S Y A S L C T E A I D R S D N D E L S Q F S Y E L L H F V L |
| UniRef90_D5BCK9 | T N M I K T S L V M F I A E V L K S A I R E E E A N P A L Y H F L E T A F |
| UniRef90_V2YGI8 | R D D I Q R L A G C Y F A E V A E L L A V E G L P S P E L L S L T L N S L |
| UniRef90_R8VTY8 | M E T Y A L C C Y L A E L T G H M T D T E E D S P A A R L L L Y A L |
| UniRef90_B9MS55 | L S Q D V N L A I Y S G Y L I E L V D S F L E F E Q K N E D V L R L L L N S L |
| UniRef90_F7KA64 | L R S D Y E G A Y Y G M Y F L E V C D Y C T R E N N D E R E E L L K L L Y Q S L |
| UniRef90UPI000255F2AD | M V E T A E R L T V T G V E A P S Q Y R L L H G A L |
| UniRef90_E0S2J0 | R A D L E G A C Y G T F F L E L C S F Y T R E N N E D K D L L N L L Y F S L |
| UniRef90_X5DMX7 | I S T D V D R Y Y A G V A M L E I A E L T V Q S G E E A G H V F D G L D E A L |
| UniRef90_G1VNT5 | I R E D L V K Q S I A S Y F C E C I Y R S G F E E N V Y I L L K Q S L |
| UniRef90_R9L1P4 | E S S T A A M P V L E L L G R V A Q P A L E N P R L F Q A T D R A L |
| UniRef90_U2U8W7 | L R M Q V E H M S A A V C V C E I A Q H T S F E D A Q D G F L F P L L S R V L |
| UniRef90_Q2S3C9 | L R E K L P T I T V G L R I V E L V I D A L M E E E D P Q P A A F A L V V R A L |
| UniRef90_E6MH99 | L R G D V M K M A L G S Y L L E L L D V F F D F Y Q G D P E E L L K A A T H I L |
| UniRef90_C4V4B2 | I A D D L M A L A Y A T F T A E V V I C A F M P E G V A D E H F F D T I A L I V |
| UniRef90_K1S7G3 | L R N D I E K L S L A Q Y F C D I A F E L S P K E D D A T D F L R V V L N S L |
| UniRef90_B0SB31 | D Y V G T L F V L Y L T E L T S Q L Y P D G E N H P F L Y Q L L S G S L |
| UniRef90_X1SPW7 | P L K S D L W L T S C A L Y V T E L L I N Q F T A D H V E N Y P L F Q L L L E T M |
| UniRef90_K0Y7U7 | I V F D A Q H A A A C A P V V D L A S R L T Q P D L A S P K M F A L L S S A L |
| UniRef90_B2RM78 | I Q S D P V R N S I A L F L A E F L Y L I L R L P E A D T N L Y D F V A F S I |
| UniRef90_T0F6Q9 | D N A K T G Y A S Y I V E L L V I S S F L T E G G V H P Q E Y K L L Y A A L |
| UniRef90UPI00047E7139 | D L G R F T A A S T I A E C V L R L V H D E S A P S V Y L A L V D S F |
| UniRef90_D5MME5 | L K A D L G R L L G R G A Y L V E L A G A S I V E D E E P N E E I F L L L R D A L |
| UniRef90_F2N7Q7 | D L P V L A A A S A L T E V A K L N C F E D A E D P F I F P I T R C A L |
| UniRef90UPI0003B45008 | R Q D F N A S L Y G M Y F M E L A D Y Y T R E N N D E R E V L K L L Y Q S L |
| UniRef90UPI000367E7EE | L K S N L D T I S T T Y F A I E I I L D K L T A Q N D P D E N I F S L T L G F L |
| UniRef90_K2ACW6 | I R K D Y S R F L Y A S Y F A E L L L T E I P S T E A P L Y F N W L S S I L |
| UniRef90UPI0002627B2E | R K D F D C S I Y A T Y F A E I I A D Y Y T R E N N D E K D I L L K L L Y M S F |
| UniRef90UPI00040E5646 | L M T D Y V G A C Y G M Y F A E V A D F Y C R E N N D E K E E M M K L V Y Q S L |
| UniRef90_R6X591 | I R G D L S R F Y I A C Y W A E A G G L Y L N E L L V V R L T G R Q D P S P P L F D A Y A L T T L |
| UniRef90_I4W6R0 | S D L Q I S S S M A S V L V D I V D R L V V L N E D T S N L Y I L I E K S F |
| UniRef90_E1R377 | L R R N W Q R M G L A A N C L R F V E A M G V G E D E A A P E A F L L V E D L |
| UniRef90_K1ZCM2 | T D I L K T G L V M F L S E M L K N C I R E E E P N H E L Y T F L E Q S F |
| UniRef90_D2MQG1 | L T R T Y A G Y Y V A E T L R W W L D D A E R H E E L F D L T L A T L |
| UniRef90_B6GCF1 | T D I L T K N A L T F F L A E M L S N S I Q E E E D N A N L F E F I E A S L |
| UniRef90_B6WRD9 | D K L G M A V N C L R F V Q K I C P E G D D S S R I Y P L I L E V L |
| UniRef90_I3YVL8 | L R L D P K E H L S A L E W N R M V S R Y T C S G V A E D D V L I L L Y W T M |
| UniRef90_M5T7T3 | P D V R D V N V H Y A G L Y V A E L L L N S C S E Q F D P A P A W Y D A A V A T L |
| UniRef90_E6X765 | L R N N F T N L C Y A S L I L E I V E K S T L Q S S S N N I Y R L L S K I L |
| UniRef90_D6SM11 | L A Q N Y D D Y L L A T L I C E I A E Q A V A D R Q P D N A L Y E L L T T T L |
| UniRef90_D5EEA9 | A L F L A E F L N F A T R D E Q Y N P L L Y D Y V E Q S L |
| UniRef90_F0SNQ9 | L S S D M E G A C Y G S Y F L E L A D F Y S Q E N M D A T E Q L K L L Y Q S L |
| UniRef90_D1VTF8 | D I I K N S I V F F L S E T L A S V L Q E E E E N K S M F K F I I E S S I |
| UniRef90_A0A037UL59 | I S S D F Y K F V F C E I I S K I I L K G D S S P L L F K L I Y A C F |
| UniRef90_R5FQD0 | MA K N A I V L F L S E F L S N A I Q E E T E N K E L F S F I E T A L |
| UniRef90_C0CX28 | D A T R L G V L S F F A E V L I D E A L P E R D P Q E T F R L V V S V L |
| UniRef90_B1QGY3 | D V R K S T M A L F M A E V L Y R L V R E C E P N D P L F D F V V G A L |
| UniRef90_W2UKM1 | L R D D F E A A C Y G M Y F L E L M D Y Y T R E N N D E K E M L K L L Y Q S L |
| UniRef90_I7LB80 | L S Q H L G K L A V S Q Y L T E I I I L S F A L S D H P Q P E L F T L L Q E H L |
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| UniRef90UPI0003769CF7 | D I K K Q V L A S L I L E T A F S M T E T E Q K V L K T Y T Q V C K A F |
| UniRef90_R6W3R9 | S D I S K N A I T L F L S E M L A N S I Q E E E R N E G L F Y Y Y M E S A L |
| UniRef90_R9NF54 | L R E D L D Y M A Y A S V V S E Y I E R A G L E D E A D Q A L F S L L V I I L |
| UniRef90_K9Y8S9 | L R K D Y E S F I Y G S M I V E L Y E K S N F E S E I N K K T F D L L A K Y L |
| UniRef90_D1NSQ3 | F T H E G A P S P G V F P V L L A V L |
| UniRef90UPI000363C8AE9 | S N V L K S A I V M F L S E V L S N T L Q E E E Q N D S L Y G Y L E N T F |
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| UniRef90UPI0003703150 | L T K D L G K L T A S Q Y L A E I V L C Q A L S E Q P Q E E L Y E L L N E H L |
| UniRef90_A4APW3 | L A K D L G K L A A S Q Y L A E I V L C Q A L S E Q P Q E E L Y E L L N E H L |
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| UniRef90_U7UTW8 | R E D L S R F E T A A R M V G Y V R A L S G G D E A D R R V F N L L F H A L |
| UniRef90_K6Q1H1 | S N I V K Q S V V L F L S E V L S N A I Q E E E Q N T L Y E Y L E T A L |
| UniRef90UPI000364174A | L S E D L S A M A Y G S F V A E L A L E L F P E H E P A P D A F D R L L Q F F |
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| UniRef90_D7DYV6 | L A K D Y E D Y L V A T L M V E V L D Q A I E E R T A D D E L Y N L I T T S L |
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| UniRef90_I4VJU9 | L R K N Y S K F L H A S Y F S E L L L Q C E I P E L D S H E Y F D L L K N A M |
| UniRef90_G8NS25 | I R E N Y R L F L Q I A N A L R F L I Q A L P K K E P N S E I F Y L L L N T L |
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| UniRef90_Q72AU1 | T R N D Y D K L L W A G L P V R A I L S L L P P H V Q E P A L F E L F L H Y L |
| UniRef90_C9LT43 | L K E D L T L S T Y A F H I I L V D K L T A E N Q E N S I L Y E N L V Y V L |
| UniRef90_C7H003 | L S K D L G K L A A A Q Y L A E L V L N L A L D D L P Q V E V Y E L F N E H L |
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| UniRef90UPI0003735C1B | L S L D L G K L T A S Q Y L A E L A L C Q A L D D H P Q P E L F S L L T E H L |
| UniRef90_E7C712 | G N L E K Y V F F S Y M G E V L S K V S F K G L E A E Y F N F I K D W V |
| UniRef90_B5YIN3 | L R Q D F A G A Y Y G M Y F L E I C D Y Y T R E N N D E T E M L K L L Y Q S L |
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| UniRef90_D1Y8K8 | T R N D Y D K L L W A G L P V R A I L S L L P P H V Q E P A L F E L F L H Y L |
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90 100 110 120

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| UniRef90_UPI000255F2AD | P H R V N V T L G G S V C D D C R P P G S T P A S V A L L A A L L S G D W T T | | |
| UniRef90_E0S2J0 | G Q K L L D S T R Y A M G F I T T S P L N K | | |
| UniRef90_X5DMX7 | P H A F H P L A G G A V C T T C R P P G A F T P P A V R V L W L L S R G | | |
| UniRef90_G1VNT5 | H Q A V S R R D G G F V C K S C C R Y G D H V I P R D L K T F R L L C K A E L E H | | |
| UniRef90_R9L1P4 | G A R F S A I E G G G V A C P A C R P S E S V D A A T L C W A Q Y F L A S T F D A | | |
| UniRef90_U2U8W7 | P S R F S A A M G G V V C E S C A A A E P I S H T E I E W L D A L L H M T F D Q | | |
| UniRef90_Q2S3C9 | L L L S L A D G G G V Y P A D G T P D Q P A S R A A L R A Y A V C A R A D L D T | | |
| UniRef90_E6MH99 | L T A F S I A D G G G V V T E R R A G D Q A L S A D L R R A L E R L M G E S L R D | | |
| UniRef90_C4V4B2 | D A F F H A G E G G G A L C G T C A G A R P F A A A L R A L L T D L Q H L D W T D | | |
| UniRef90_K1S7G3 | T M Y F D M E R G L L Y C D N C A D E N A L F P | | |
| UniRef90_B0SB31 | K A Y F S V D S R E F L C S D C H P I T K D H L P V L K L F H T M L S K K F S N | | |
| UniRef90_X1SPW7 | | | |
| UniRef90_K0YJU7 | T V L F S A A E G G V V C S R C S D A Q R I I P V E V L S W A H F L L M S T F D D | | |
| UniRef90_B2RM78 | P R W F D P A D G R F V P N A P A H G R G L P P H Q S T Y L Q L F R R I T F D N | | |
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| UniRef90_UPI0002627B2E | P P N F L P S E G G I R S P G Y T E P N S L S S G T V I G L R R L S A G D L Q W | | |
| UniRef90_UPI00040E5646 | | Y E A S T T Y T L E F I W N T P I E E K | |
| UniRef90_R6X591 | K L E E S T R Y A L N Y I A E S S V E K | | |
| UniRef90_I4W6R0 | A S Y R Y E V E Q G A V R C A A S S P H A I L G R D L L A | | |
| UniRef90_E1R377 | G V F L D T L A R G F L C G H C A S D L P L G P G G V R Y L R F T E A L P F E K | | |
| UniRef90_K1ZCM2 | S Q D F S S S A G G A L C E K C K S E K N P V R A N A I K M I R I F L K N N I G A | | |
| UniRef90_D2MQG1 | V V S F S S S K E G G F L C A D H A Q E L R M K V N Q L K T L R M A F K A R L E H | | |
| UniRef90_B6GCF1 | P G Y F S A Q A G G L L C A S C C A S G E P V D A N M V R W L E G L V S M R F S E | | |
| UniRef90_B6WRD9 | D A L F F V V D E G Q L L C S S C O R S G V E I P A Q Q G L D L L R H V Q Q S F P S G | | |
| UniRef90_I3YVL8 | D E Y F N I M E G N F Q S K N T S N Y C L E G V Q I E N F K L F F G I N P S T | | |
| UniRef90_M5T7T3 | K V A F S L D G G G I V C E T C R P R Q S I S A A T L E C L D G L L Q A P E R D | | |
| UniRef90_E6X765 | A P Y F D L L E G A F S Y S I S L N P E N L Y F F K Q F L G I N F D A | | |
| UniRef90_D6SM11 | L G F F S F S D G R V F C P G C I R D Q K G T I K T L L F L D R L R T S G P G Q | | |
| UniRef90_D5EEA9 | K D A V Y W S D S G F L C Q N C S S N G G S S M I A R L L Q A A A M P R R N | | |
| UniRef90_F0SNQ9 | E D D R S I Q Q G V L L C D Q C R Q P E P L T G E V L T L L R E L S E A P I D Q | | |
| UniRef90_D1VTF8 | N N F F S L E S G V V T K N S Y T S Y S I I F K E D I Y Y L R N L L Y T S L D K F | | |
| UniRef90_A0A037UL59 | I K T I S F L E E G Y L C K N C L P R D Y I P E L V K V F N S N F H T N F Y F | | |
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| UniRef90_W2UKM1 | A K Y F D L Q K A E A Y T S I K P K H S Y L S E D Q L Q L F N A F L G S D Y D T | | |
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| UniRef90_X1AX57 | K I Y F S V K Y G G I L C G K C A G M E V L G A S D Y R F L Y D L E F N L K L E D | | |
| UniRef90_C0BL4 | S P Y F D L V E G D F C S H A G L N P H M G E P E I S F F K S I L G I N F D K | | |
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| UniRef90_UP10003769CF7 | P H R F H V G A G G S V C P H C R P A G S T T P G V L D L M S A L H D G D W E | | |
| UniRef90_R6W3R9 | G G W F D V R E G L Y T P H P G A H P E V M T Q P S S Q L L D R L L H C D V Q A | | |
| UniRef90_R9NF54 | | D T P Y L D S T E Y T V N Y I V N T T V E K | |
| UniRef90_K9Y8S9 | P H W F S Y Q A G G I V L N K E S V N H L N V G E L K L L Q Q L S K S T L S A | | |
| UniRef90_D1NSQ3 | Q T H F S A R S G G V M C A T D R T P D A I R I Q P A E R L Q L I A L L D W A A | | |
| UniRef90_UP100036C8AE9 | P Y F D L V E G A F I E M P G I N P V L K G E A L E N F K A F L G I K F D A | | |
| UniRef90_R9KGF7 | | E F G G V D S K D A L G E S T A Y T V T Y I I N T P P E K | |
| UniRef90_UP10003703150 | K E V L H F S Q G G G V C D N C K S D K T L I N S E E V R G L Q L Q Y L E | | |
| UniRef90_A4APW3 | G L Y F D L L E A E F T N N L T L S P N K G E N L N Y F K R F L G I N F D T | | |
| UniRef90_M5E2Q4 | S T P L S V E E G G I C K N C F N N N N K Y T L F S L N E M R A L Y K V T F A E | | |
| UniRef90_U7UTW8 | G N Y F S I E N G G M V N E S D V S L D S Y K E E Q K D Y L K F L L Y S D L S G | | |
| UniRef90_K6Q1H1 | P A G Y F S A E M G G A L C R R C R P G R P L D P A T W Q V L R L A G R I N P Q L | | |
| UniRef90_UP1000364174A | W S F F N L Q E G R F E N K P S N K Y A V T G E N L I L K Q L L G T T F D A | | |
| UniRef90_U2QNL5 | G D F F D L L R E G S F E A A A P L H G D Y L G P E E A A R L Q Q V M R M S Y E N | | |
| UniRef90_D7DYV6 | Q V G F S I S A G G T I C L Q A W E Q S R L G A K E L N M L Q H L S Q P E I M Q | | |
| UniRef90_Q3MF83 | P N W F S I A A G G I V C L E A W E G H P V T P A E L G M L Q Q L S Q P E I M Q | | |
| UniRef90_I4VJU9 | A H Y E Y R V E Q G A V A C L P G R R H V L R G S D L L A H D R M P D | | |
| UniRef90_G8NS25 | T V W W S P A G D G V T C H D D R G S R P L S A E S V A E S Y R I A R S S L P Q | | |
| UniRef90_A0A023X409 | P A R F A P D L G G G V V C A E C R D S F A L P P G S P G A L L H L V R S P L R E | | |
| UniRef90_A2TXC4 | F D L L E G V Y S D N F A N K N V I H K N D F Y Q F K K L L G I N F D E | | |
| UniRef90_Q72AU1 | G A R F H V R D G V L Y C G R C S A P T A L S R E T L D A L R F V Q D N S P L R | | |
| UniRef90_C9LT43 | P M S V D I G E G G A L C A D C R K E D | | |
| UniRef90_C7H003 | S C Y F S L K S G K T Y E T Y K K A K T E V S S D I I N T V R Y L A N A D I S K | | |
| UniRef90_R4U0U6 | G I T I S F I D Q G G L I C R G C | | |
| UniRef90_UP100047BB4BA | | K L S D S A R Y A V D F I V N T P L E K | |
| UniRef90_UP10003735C1B | D Y W F D L R E G V F L P G C P F H N E A L P P E E A E Y V K L F S R I R F D N | | |
| UniRef90_E7C712 | P Y Q L D A S L G G V R C P R C C I P S S Y S P G S L A F L H V R Q N A K Q S | | |
| UniRef90_B5YIN3 | K E E F Y Y S S G F I I C K K C A L P I P S Q G V I K L L K E I S T W T L N F | | |
| UniRef90_Q30ZR4 | G V R F L P R E G G V F E C S A H G G A S G M S A E T L D A V R F V Q E N P P L M | | |
| UniRef90_D1Y8K8 | G G R A V W R E G T F V C T D C A P G | | |
| UniRef90_Q5R108 | S D S Y F I P D H G F V T Q A R D N Q Q R A Y S V A D I Q K | | |
| UniRef90_UP10003FB7A44 | P V L D L Q E G I F I R E K P A H P Y Y I E S R L A E V A G Q L L S Q F N D | | |
| UniRef90_K9S5N1 | Q A G F S I Q A G G V V H P E A L P R P K L A P R A I A A V S T L S A A E L S L | | |
| UniRef90_UP10003B7BAFA | K F Y F S V K E G G I I C Y R C R Q E G R L S A E Q V E V L K I F S K M D L E K | | |
| UniRef90_R9JP11 | G D C F D L L N A C F V A E S P R H G M Y V G P Q E A S H I S L L M R M N Y E T | | |
| UniRef90_R6SC90 | K V R F D P E S G R V R C R D C S R L M D G E K S R I L R I L E R F S G E D L Q G | | |
| UniRef90_I0IPX7 | F V N F Q E G L Q L D G V N I K I I N L L K S L E S M S W D G | | |
| UniRef90_K2CHB1 | P S W F S F D A G G L I N L R I R D K E R L K A T E T I L L Q H L N E S S L P H | | |
| UniRef90_T2J499 | F D L L N G S F S E A T G N R N I I S G N E L F Q F K K L L G I N F D T | | |
| UniRef90_A4BXZ7 | | | |

130 140 150

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| UniRef90_UPI0002E04B13 | M S A L S I H Q D I V D E M S Q L L M I M Y S E Y A G |
| UniRef90_D5BCK9 | M Q R V K L S G E Q R A D F L R M L L Q Y Y E L H I E G F R K P K S L |
| UniRef90_V2YGI8 | L F S F Q L G E E S L K L Q L A D T A E A Y L R T Q L E R G F S |
| UniRef90_R8VTY8 | V Y A F A L S G P A R V Q L A Q V C E A Y A L C R A E R L T F Y R S L E P |
| UniRef90_B9MS55 | L N K I S L E R S L N N K I K T I T L P Y K M V L |
| UniRef90_F7KA64 | L Y T F T V T P P V L R E L G R L A G L Y C K N A L G H F K S L E |
| UniRef90_UPI000255F2AD | A D A A P E A S R R E A A G I V A G Y L Q F H L E R L K S L |
| UniRef90_E0S2J0 | L F S F S L S E E V L G E D R I T K E Y R N T Y I D R L K S L E M L |
| UniRef90_X5DMX7 | |
| UniRef90_G1VNT5 | Y E L I P F S S E N F E E L Y G F F E D Y G G I A L K S V R F L R T L |
| UniRef90_R9L1P4 | I A A G P A D S S A S F A V L H L V Q S L V R A H V G P L K S L E F L |
| UniRef90_U2U8W7 | I L A A Q V D K Q T A A Y I A S L A H I W A V T H L D R L R A F E |
| UniRef90_Q2S3C9 | V M R L T M S P A V R R E V E A L V R D F L R Y Q F D D A Y P D R S |
| UniRef90_E6MH99 | I C H G D W D A A V V R Q A L K L G Q A Y I I A A Q V G R I K S Y R Q L |
| UniRef90_C4V4B2 | P P P M R V R G G A L M E A E E I V L A H V Q E L L G P L R S L A F L |
| UniRef90_K1S7G3 | V L V I F P K E A E Y R E G D M I L N Q F L R S L L G R |
| UniRef90_B0SB31 | V V A S R P P C R V M F E I L H L C Q S W V R E H V G R L K S L D F L |
| UniRef90_X1SPW7 | M K A F R L S R A E R R Q V L D Y L V D Y Y R F H L |
| UniRef90_KOYJU7 | L K E E K I S L E L L K E A D R L S N R A L K P L L G R |
| UniRef90_B2RM78 | P L A D P A I R A H Q R L L R E F L H Q H P D N R P L K |
| UniRef90_T0F6Q9 | S L A S P L S H P H T T N L Q E V L K V C T H F F G R L R S |
| UniRef90_D5MME5 | L A T S P I D A P A A A V M L S L A H T W A V T H L D R L R S L E F M L |
| UniRef90_F2N7Q7 | L F S F A V T D E V L H E L E H I C D R F I D R K L L N S L |
| UniRef90_UPI0003B45008 | I V D S A I N D N S L A E F R K I I D V Y L R Y N L |
| UniRef90_K2ACW6 | L K R D N S L A Q A E K E L T T L L D I Y L Q E N L G R L K S H Q A L |
| UniRef90_UPI0002627B2E | Q P T K L N L R E L H K A I F I Y L R F H G R |
| UniRef90_UPI00040E5646 | L F T F K V S R D V L T E L D H I C D V Y |
| UniRef90_R6X591 | L Y T F T V S D K V L A E L S Q I A S E Y R K R F M D R S F K S L |
| UniRef90_I4W6R0 | L E Q D R M P D A A L K A L R D M I R R V I R F H L G E L R A W R V L |
| UniRef90_E1R377 | A V K V H T D L Q T E R Q L T K I L R R V L G E A L |
| UniRef90_K1ZCM2 | L V K I Q A T R D D C D S H L V V D D F L K W |
| UniRef90_D2MQG1 | Y D L L K N K D F G H Q E I H F A L D L F R Q H A G S L K S F |
| UniRef90_B6GCF1 | L A I A P I D S H T A A H V L G L A H L W A A T H E R L R A L E F L L |
| UniRef90_B6WRD9 | W P D G E L L S P P V R R A C A R A I D G F V Q Y H L G |
| UniRef90_I3YVL8 | L N T V K L S K K E R Q N L L E F I L S Y S F H V Q G Y Q K P K S L |
| UniRef90_M5T7T3 | A D E D R V S E T S Y P E L R G L I S R Y M Q T L L G R S L R |
| UniRef90_E6X765 | I H A V K M N K K K R Q E L L K S I I L Y Y E L H H G F R K P K S L |
| UniRef90_D6SM11 | W L D W N P E P E V L Q D C F R V I D A Y V Q Y H L |
| UniRef90_D5EEA9 | L I S F S S Q G A P S D G T E K A F W K T Q I G R L K |
| UniRef90_F0SNQ9 | P F P T E I S L P T H K L I R P L V T A L V C Q T L D R |
| UniRef90_D1VTF8 | D F I Y D E G R K K Y L F F I L T K T Y L K Y N L G D F N S L K F L |
| UniRef90_A0A037UL59 | H N K I N I K V L I L F K M L C E Y Y L T K V G S I Y E M R Q |
| UniRef90_R5FQD0 | M H V F H I S Q E E R N R C A D L I L L Y Y R L H V P K F P E L K S L |
| UniRef90_C0CX28 | L Y R F A L T D E V L R L E F E R V V E S G R R R F L R H |
| UniRef90_B1QGY3 | L Y K L S I D T E T K K D I Y K I L N T I I Q N Y L K K P K S L Q I L |
| UniRef90_W2UKM1 | F V Y I R A S K A T R K E L L K A I I R F Y Q F H L H G F R E P K S L |
| UniRef90_I7LB80 | A S A I D A G R G R A A E A H R L V T A H L H Y H G S I R A L |
| UniRef90_X1AX57 | F R D L E V G L P T L K R V Y K L I E N Y I Y H T E N L E S F K |
| UniRef90_C0BL4 | L N D I K M S Q K S R R E L I S H L M V Y Y Q H H D G F K T P K S I |
| UniRef90_UPI0004793472 | F A G E D W P R R R G Q D L R R F T L Q S L I E R H L E R L R S A E A L |
| UniRef90_UPI0003769CF7 | F F A E Q T P Q S H R N Y V S G L V A A H L Q W H L E R Q L K T L L |
| UniRef90_R6W3R9 | L G E L A L N R A Q R S D F L S E M L V F L G Y H L D A I N S V Q S V |
| UniRef90_R9NF54 | L Y T F T V T G Q V L E E L S Q I |
| UniRef90_K9Y8S9 | D F S A E T S H L K T V E T L L R N Y T E Y H F R S I R S |
| UniRef90_1DNSQ3 | L E H H S P L L S G T Q R L V E L W A E Q V L E R P V R S M R |
| UniRef90_UPI00036C8AE9 | I H K V R M G K T Q R E L L K S L V L Y F E V H L H G F K K P R S L |
| UniRef90_R9KGF7 | L F S F D V K P E V L K E L T V F F C R K I C Q R T F D E F K S L E I L |
| UniRef90_UPI0003703150 | D P L N I L P Y E N K K K I I L P F I C S F I T F H L R |
| UniRef90_A4APW3 | L N K I K M K K M A N R Q E L L Q S L V L Y F E L H L Q G F R K P R S L |
| UniRef90_M5E2Q4 | I S Q L K F S A N I L E K I N E I T E K F L L Y H L D D K P K S L T F L L |
| UniRef90_U7UTW8 | E Y E K N L S D D F L F E I V L K Y I K Y N L E I K D F N S L |
| UniRef90_K6Q1H1 | A A R L R P A P A T L A R A A E V T Q T H L V Y H L G R P F R S |
| UniRef90_UPI000364174A | L P S I K I N A K Q R Q Y F L S M I L L Y F E L H L G S F K T P K S L |
| UniRef90_U2QNL5 | M H L F R M S H A Y R N W F T E M I L L K Y Y Q L H I P G F P Q L K S L |
| UniRef90_D7DYV6 | I D A A S D F G W L S V E H I L R Q Y T Q Y H L G R I R S |
| UniRef90_Q3MF83 | I N T T S D A S W L S V E Q I L R Q Y A Q Y H L G R I R S |
| UniRef90_I4VJU9 | D E G L K A L R G M M R E V I R F H L G E L R A W R V L |
| UniRef90_G8NS25 | L A E E S W S E G R A K D L R A F A I G T L E R H L E R L R S |
| UniRef90_A0A023X409 | A E R S E A S E G V L L R V V R T H V A |
| UniRef90_A2TXC4 | I Q E V S F S K E E R Q V V L Q I I I Q Y F K L H G N F R N P K S L |
| UniRef90_Q72AU1 | W S E L L C F S P T G R R E C S R A V D G F Q Y H I G |
| UniRef90_C9LT43 | V G E L T I P D D K F N E Y W M F L R R Y A S Y H L G K L |
| UniRef90_C7H003 | |
| UniRef90_R4U006 | |
| UniRef90_UPI00047BB4BA | L Y T F S V S D S V L N E L M A L S K R F I D K P L K S L E M L E T |
| UniRef90_UPI0003735C1B | M R L F R L N R I Q R A R I L D I L I L Y Y R L H L G S L H S P E I L |
| UniRef90_E7C712 | A F V F R P T Q N N L E E L D H A L F V Y F R H Y F G R |
| UniRef90_B5YIN3 | L E R V K I S D K L F N E M E K F L Q N H I F T V L G Y N K T W D T |
| UniRef90_Q30ZR4 | W T D I P L S P E G W K Q W G R A V D A F Q Y H V G |
| UniRef90_D1Y8K8 | |
| UniRef90_Q5R108 | L A A W D V D D E N R L R L L K I M R D A L A V Y L G D K P L R S |
| UniRef90_UPI0003FB7A44 | L D H I S L N R Q I R R E L L Q A F Q T Y I A L H V G E M K S L G V L |
| UniRef90_K9S5N1 | L Q Q L P L A P E T W R T L E Q L L R Q Y A Q Y H F D R I R S |
| UniRef90_UPI0003B7BAFA | V M K K K V T F E E L K V L N S L S E R F S Y F L V E F N S L Q T L |
| UniRef90_R9JP11 | L Y S F H V K T E V L Q E L L R R M C K R V M D K N F K S L |
| UniRef90_R6SC90 | M H L F A M S R R E R N R C L E I I N E Y Y R L H P D F P E L K S L |
| UniRef90_I0IPX7 | S E R V V L S D H Q E G H L L E L V D Q L I S W H V |
| UniRef90_K2CHB1 | I E K L K I K E E K A M E L E I V L R Y H L E R V I G R L K S R Q L L |
| UniRef90_T2J499 | P G K I L P A T I L D K V E H L R N Y A E Y Q L G R S F R S V |
| UniRef90_A4BXZ7 | I E N A S F S K K E R Q L V Q I I R Y F E L H L D G F R K P K S L |

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| UniRef90_L8LY74 | L S K D L G K [] A A A Q Y [] A E [] L A L Y [] L A V D E Q P Q Q A [] L Y E [] L N E H [] | | | |
| UniRef90_UPI00031FD4D5 | D V R K S T I A L F M A E V L Y R L V K E C E P N Q R L F D F V V A A L [] | | | |
| UniRef90_G5HPU3 | L S M D M E C T C Y G S Y F L E M A D Y F S Q E N N M D G T E M L K L L Y Q S L [] | | | |
| UniRef90_UPI00047DBB82 | I T R N Y D N Y L F A S V I S I L E S D D F N S K S Y Q T F V S L E K A L [] | | | |
| UniRef90_UPI0002F53714 | L R E D L L K Q G [] A Q L M M E V M D R L E E E M M F G Y E E L L T C L [] | | | |
| UniRef90_A0L635 | S A A Q L M L E Q V Y R L L P V E D A N P K L F G A L Q E A L [] | | | |
| UniRef90_I3ZJM3 | D Y P R A A A L A F L A E V L E G A L P D R A V E D V F R L T L A A A [] | | | |
| UniRef90_R6F5U1 | D M A K L S I A L F V A E F T I Y V T R S E Q A D P A L Y A F V E N S V [] | | | |
| UniRef90_R7G801 | I R E D L Y M Q S I A S Y M C E V I E K S D F E E N A F P L L K T M L [] | | | |
| UniRef90_H8L394 | P L R M Q G G T T L V G L Y [] N E L V T R L C P R D D P H P G I Y A A Y R Q T L [] | | | |
| UniRef90_UPI00047683BA | L A K D L G R [] A A S Q Y [] A E V V L W C Q G L S E Q P Q E E L Y E L I N E H [] | | | |
| UniRef90_UPI00031DD5AB | I R S N I K K I Y L I Q M F F D I I E R T T F K N E E I K V V Y E L L I K T M [] | | | |
| UniRef90_H3NPX9 | L A K D L V K L [] A A S Q Y [] A E I V L C Q A L S E Q P Q T E L Y E L L N E H [] | | | |
| UniRef90_UPI00047AAA91 | L R G N W Q R M G L A A N C L R F V E A L G V N E E G A D E T F A L V E D L R [] | | | |
| UniRef90_G2DAD1 | L S A D M E G A C Y G A Y F L E V A S W L S D E N M D G T E L L N L L Y V S L [] | | | |
| UniRef90_D9YE28 | L F C G F Y [] N E L L T R L L Q R E D P H P Q F L H Y S N T L [] | | | |
| UniRef90_R51RM7 | L Y S G T V L V S Y L V E L V I S S F T E G G S H P M E F K L L L G A L [] | | | |
| UniRef90_F9UH85 | L G K L A I S Q Y L A E I V L C F A L S E Q P Q E E L F T L L R E H [] | | | |
| UniRef90_I0XM79 | Y D K N M V S L V M I E K I A H F C E H V F N Y E L F Y H F V K K M [] | | | |
| UniRef90_K9YQ74 | K Q A L V M F L A E V L K N S I K E E E N N E A L F H Y L E Y S L [] | | | |
| UniRef90_R6UN16 | D V F R G T I G L F M L E V A R N A I R E S E E N P A L F D F L Y A A F [] | | | |
| UniRef90_UPI000417C3F0 | E R F A V A S L A L E R V I D V L C E P G E P V P E F D L L D S T L [] | | | |
| UniRef90_UPI0003121498 | P I T E D M E A A C Y G S Y F L E F A D Y Y G R E N L E A V E T L K L L Y Q S L [] | | | |
| UniRef90_UPI00035FE274 | P L A G D A L L S G F Y [] N E L V L K L T E P A D P Q P A L F D A Y T R T L [] | | | |
| UniRef90_E6PC28 | I V K N S M V G M F L T E I L L Q V L A D E A P D E Q L Y E F V A Y S I [] | | | |
| UniRef90_D7GPL7 | R N D F N G S M Y G M F L L I A D Y Y T R E N N E E I E M L K L L Y Q S M [] | | | |
| UniRef90_R7C1N0 | D Y T R A A A L A F Y S E V L E E C L P D Y D P Q D A V F R L V H S V L [] | | | |
| UniRef90_UPI000248FCAC | L R E D F S A A C Y G G M Y F L E A T D Y Y T R E N N E E I E M L K L L Y Q S L [] | | | |
| UniRef90_UPI0003FB0380 | I L S D Y D T Y L S A N V I V E T A D K A V V S D S I S H T M Q Y R L L A G A L [] | | | |
| UniRef90_UPI00047920BB | P D Y K S S I A M F L A E F L Y R A L R E E A N G P L F A Y L E H S I I [] | | | |
| UniRef90_R9JMJ2 | P I F S D I I K S T M A I F L N E V L Y K S I R Q Q M A D E H L F D F I I F N A I [] | | | |
| UniRef90_J0LL44 | L S K D L G K [] A A S Q Y [] A E I V L C Q A L S E L P Q T E L Y E L F N E H [] | | | |
| UniRef90_A6L065 | D A A M A G L Y [] N E L V V R L T E R Q D P S P T L F D A Y A R T L [] | | | |
| UniRef90_W6TM94 | R Q D L E G A C Y G T F F L E L T S Y Y T R E N N E E D R Q L L N L L Y L S L [] | | | |
| UniRef90_K7VVB9 | I R A D L D A S L Y G M Y F L E V V I E Y N T R Q F N D E L N I L R L L Y S S V [] | | | |
| UniRef90_I4VM47 | S S E I A D I A Y A M A I M E C V D K F I H E H Q K D E G F L L V T N V M [] | | | |
| UniRef90_UPI00047D701A | D P V K N V L A F L S E L V L F R V V K D T Q P D E R M Y A F L T D S V [] | | | |
| UniRef90_UPI0003B543D2 | I V D S Y A K Y T A A C V A L D V A E K L T V G E E A T L C D D A A A A I R V [] | | | |
| UniRef90_UPI00047939DC | L S K D L K N Y Y A G F A I L K V L S D F S A E N V S N P T L Y A V K A L [] | | | |
| UniRef90_X1JCL6 | L A Q D M E G T C Y G S Y F L E L A D Y Y A R E N E D A T G L L K L L Y Q S V [] | | | |
| UniRef90_R7JHM3 | I R K D L V A L A F A S Y A C E M A Y I S A V P D D S S V L R L L L N T L [] | | | |
| UniRef90_C4LQJ7 | L S R D L G K [] T V S Q Y [] A E L V L S [] A L S E Q P Q I E L Y E L L N E H [] | | | |
| UniRef90_R7KDM3 | A A Y A M C E L V S R A A E F D N K M P E I Y D A L K N S L [] | | | |
| UniRef90_X0TR64 | K S A I V F F I S D M L R S S V Q E E E N A P L F E F L V A S S [] | | | |
| UniRef90_UPI00046622EE | D L E A F A Y V N Y L C E L S D R L L G G S S A A D P T S F A L L C D A I [] | | | |
| UniRef90_R6W5Z0 | Q A L L C G Y Y L N E L L V K L T P R D D P H P N L F V A Y A D A V [] | | | |
| UniRef90_E0UE55 | I H T Q I A K S A I V L F L S E E L N Y S I Q E E E K N D A L F E F I E N A L [] | | | |
| UniRef90_K2BKE4 | L A K D L G K [] A A S Q Y [] A E I V L C Q A L S E Q P Q E E L Y D L F N Q H [] | | | |
| UniRef90_A2TQI2 | D L E K S A C G F Y [] N E L L V K L L A R E D A H P A L F D H Y V S T L [] | | | |
| UniRef90_A6G167 | L S L D M E C T C Y G S Y F L E V A D Y F S Q E N M D G T E L L K L L Y Q S L [] | | | |
| UniRef90_A1K606 | U N I F O R M A T I O N D V R K S T M A L F M A E V L Y R L V R E D E P N E A L F D F V V G A L [] | | | |
| UniRef90_A9DQ10 | U N I F O R M A T I O N U N I F O R M A T I O N L S Q N L A K L T V S Q Y [] C E L V L A I A L S E Q P Q R E L Y E L I C G H [] | | | |
| UniRef90_UPI000346D47B | U N I F O R M A T I O N L R T H P K R L G M A V N C L K F F E A V P I G P Q S A A E A Y G L L R E M L [] | | | |
| UniRef90_UPI00028A3054 | U N I F O R M A T I O N L A K D L G K [] A A S Q Y [] A E I V L S Q A L S E Q P Q E E L Y E L F N E H [] | | | |
| UniRef90_UPI0002EAD37B | U N I F O R M A T I O N D L L R A A A A P L I E C I A K A A Q P D L P N R S Y A C A V A A L [] | | | |
| UniRef90_C5EHS9 | U N I F O R M A T I O N E R L Y C G L Y [] N E L L Q R L L P P Q E P H Q T L F A Q Y I E T L [] | | | |
| UniRef90_I3YEL6 | U N I F O R M A T I O N L R T D W N R L G M F M N C V R F V E A L G V P Q D G A A G V F L L L K D T L [] | | | |
| UniRef90_B0JJN2 | U N I F O R M A T I O N L A K N A I T F F L A E M I A N S I H E E E P N K E L F Q F I I E A S S L [] | | | |
| UniRef90_UPI0004639EE6 | U N I F O R M A T I O N D K L A I S L F V A E F L Y Y A L R S E Q N R E N E L L Y E Y L E N S I L [] | | | |
| UniRef90_B2ITL1 | U N I F O R M A T I O N D A L F S G L Y [] N E L L I R L L P A E D P H P A L F V H Y A A T L [] | | | |
| UniRef90_D0WER6 | U N I F O R M A T I O N D L L R A A A A P L I E C I A K A A Q P D L P N R S Y A C A V A A L [] | | | |
| UniRef90_N6WYN1 | U N I F O R M A T I O N E R L Y C G L Y [] N E L L Q R L L P P Q E P H Q T L F A Q Y I E T L [] | | | |
| UniRef90_E5Y628 | U N I F O R M A T I O N L R T D W N R L G M F M N C V R F V E A L G V P Q D G A A G V F L L L K D T L [] | | | |
| UniRef90_UPI000478C672 | U N I F O R M A T I O N L A K N A I T F F L A E M I A N S I H E E E P N K E L F Q F I I E A S S L [] | | | |
| UniRef90_D5EV78 | U N I F O R M A T I O N D K L A I S L F V A E F L Y Y A L R S E Q N R E N E L L Y E Y L E N S I L [] | | | |
| UniRef90_L1M0L3 | U N I F O R M A T I O N D A L F S G L Y [] N E L L I R L L P A E D P H P A L F V H Y A A T L [] | | | |
| UniRef90_K1ZBV8 | U N I F O R M A T I O N L M N D I D R R V L T Q A S L S L V D R H M R E Y D Q D E I L Y H L V L D W M [] | | | |
| UniRef90_UPI00046A7194 | U N I F O R M A T I O N L I C G F Y [] N E L L V R L L H R N D P H E Q L F I Y Y Q E A L [] | | | |
| UniRef90_R5Q0X4 | U N I F O R M A T I O N D A Y K L S I A M F V A E F T H A T R S E Q D N A P M F Q Y I T N S I V [] | | | |
| UniRef90_A1WT15 | U N I F O R M A T I O N G A L A C G F Y M A E V L L A L T R R E D P H P R T W E R Y A V A V [] | | | |
| UniRef90_UPI0003B698E8 | U N I F O R M A T I O N I S D A L E P I T L G L Q V M E L L D Q L L E D E D P Q P P V L N I A I D I L [] | | | |
| UniRef90_F4B152 | U N I F O R M A T I O N T E V A K S A I V F F I A D V L R S S V Q E E E N V P L F D F I V N A S [] | | | |
| UniRef90_K9FM03 | U N I F O R M A T I O N L S Q D L V R L T A G Q Y [] A E L V L C Q A L S E Q P Q A E L F A L L V A H [] | | | |
| UniRef90_UPI0003B520C6 | U N I F O R M A T I O N P F R R N L E D T C Y G Q Y [] L L E D A Y D Y A T E N S D E T E L L K L L Y L S L [] | | | |
| UniRef90_E1W219 | U N I F O R M A T I O N T A L Y S G F Y V N E L I T R V I E P E T A N P Q L F Q H Y L Q C L [] | | | |
| UniRef90_A0A022H0A0 | U N I F O R M A T I O N P L A S D A L L S G F Y [] N E L L L R F C Q A R E D A H V A L F R Q Y M A T L [] | | | |
| UniRef90_R7FMW1 | U N I F O R M A T I O N P L S A D M E R F A T M Y R I I D I S Q A L S E E K N L P F S L L T G V L [] | | | |
| UniRef90_B3E106 | U N I F O R M A T I O N L T K D L G K [] A A S Q Y [] A E I V L C Q A L S E Q P Q E E L Y E L F N E H [] | | | |
| UniRef90_UPI0003458536 | U N I F O R M A T I O N D M E C A C Y A S Y F V E F A D Y Y E R E G I E A T E M L K L L Y Q S F [] | | | |
| UniRef90_E7GJ04 | U N I F O R M A T I O N P L S A D M E R F A T M Y R I I D I S Q A L S E E K N L P F S L L T G V L [] | | | |
| UniRef90_UPI00036EECAC | U N I F O R M A T I O N L T K D L G K [] A A S Q Y [] A E I V L C Q A L S E Q P Q E E L Y E L F N E H [] | | | |
| UniRef90_G2IGS1 | Y L S Y F F E L L D I S F N D G D V D V N F F K I L I K I F [] | | | |
| UniRef90_UPI00036D35C7 | D Q Y K M V I S L F L A E F T F Y A I R G E Q K N T P L F G Y V I N S L [] | | | |
| UniRef90_C0QXY4 | L E K S I Y S S Y I R E V V L L Y C A K D F D N R Y F V L I M E K T L [] | | | |
| UniRef90_D9SFC5 | T A L M C G C Y F Y L L E D L L I N N L L A R D D A H E Q L F D Y Y R A T L [] | | | |
| UniRef90_B3T0S9 | A Y Y L N E E L L I R L L P A E D P H P G V F D H Y A A T L [] | | | |
| UniRef90_I4N9P5 | D A G K L S I S L F L S E F L Y Y A T K D E Q D N R P L F K Y V E T S M [] | | | |
| UniRef90_L1N0X5 | D P F K L S I S L F L S E F L Y Y A T K D E Q D N R P L F K Y V E T S M [] | | | |
| UniRef90_UPI00046A3B98 | D S Q N L G K L S A S Q Y L A E V V L S V A L S E H P Q E E L F L L L N E H [] | | | |
| UniRef90_A0YK11 | A V F Y I R E L L Y F A K D F D E R Y F I L M D K T L [] | | | |
| UniRef90_J9UTZ7 | P I D P V K S S V M L F L S E F L F H V T K G E Q E N R S L F N Y I V T S L [] | | | |
| UniRef90_UPI0004262D9A | P I D P V K S S V M L F L S E F L F H V T K G E Q E N R S L F N Y I V T S L [] | | | |

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| UniRef90_L8LY74 | R R I E Q Q E N V Y P Y L A Q A V F H I L A I A G I A P Q V H A C C T Q Q S L |
| UniRef90_UPI00031FD4D5 | D A L D E G V A N F H L W F T N L S R F L G F S P G N A Y L P |
| UniRef90_G5HPU3 | R A L L K P A P R L V R R I F E K T M V I N G E Y T E T |
| UniRef90_UPI00047DBB82 | N N I N Q N N D P F S T M V F F L F Y L L K P L G G K F L N R C Y R C N K P N |
| UniRef90_A0L635 | D L L E T A K Q P Y C I L T L F L A L I A H E I G I E P N V D S C C R C G S K Q |
| UniRef90_I3ZJM3 | D R L E A G E A A L E V V G L W Q G F L L H N L G F G W Q V A H C A G C G E T D |
| UniRef90_R6F5U1 | T H L T G T N L G L P V T Y F A L W I T R L L G W M P D L N R C A I S G E P E |
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UniRef90_U7UGP4
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| | 50 | 60 | 70 | 80 |
|-------------------------|---|---------------|----|----|
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| UniRef90_C7LQ80 | W F [] P L M F R A K M A F S Q G Y Q P D L Q R C R Q C G G P [] | | | |
| UniRef90_I2BVF1 | L A L A E G R P L E P L L R A F E W R L L D D L G Y G F E L A N D L H G E A A D | K S D | | |
| UniRef90_A6EA79 | C W F D E T N E Q Q N F H L A F L L K L M T I N G E Y D L T P G L K D | | | |
| UniRef90_J4K933 | L A L T K K S I P R L V R R I F E L K L M T I N G E Y D L T P G L K D | | | |
| UniRef90_UPI000410BBB2 | Q V L E E E Y G L A N F H L V F M L K L T R F M G F Y P N L E D Y H E | | | |
| UniRef90_A6GWBO | H W L D N H D Q I A N F H L V F M L M R F S R F I G L Y P N L D D Y A | E | | |
| UniRef90_UPI0003F58B22 | T W L D E Q S D F A N F H L V F M L M R F S R F I G L Y P N L D D Y A | E | | |
| UniRef90_B3QU22 | Q K I N V S R K N H I F F Y F Q V Q L I S L L G F R L N F Q K C V L T G K S L | | | |
| UniRef90_L8MVP4 | D R I Q T A E D R H V L A C L N H Y H L A I A G F A P Q V H N C C I T Q Q K W | | | |
| UniRef90_UPI00047139AF | E E K I N L N E N P F S N V F V L T L F K L I Q F F G G D W I L N Q C Y R C Y R S Y | | | |
| UniRef90_UPI0004699366 | A W L D A Q R S F S N F H L V F M M R M L T R F L G F Y P N L D D Y C E | | | |
| UniRef90_UPI0003B63C8A | L G L S R D P E P E L A L R H F E F A L L N Q L G Y G V D F S T L D D C P A A | | | |
| UniRef90_F9VKJ1 | L V L E N S M D K D L M M R I F E F K L L N K L G C S I E F E K C Y Y C S Q N L | | | |
| UniRef90_U7G113 | G W L A D G E P Q D V V L R Q F E L G L D E M G Y G I D L S Q D I Q G E P | | | |
| UniRef90_R7CY54 | Q W L D A C E T S A N F H L V F M L M R I S R F V G L Y P N L D D Y R P | | | |
| UniRef90_UPI0003957EEC | T Q L A R Y H N P E P A L R C F E L A L L E A L G Y G V D F L H C A G S G D P I | | | |
| UniRef90_UPI00047D82A6 | Q W L D L Q D S F S N F H L V F L L D L T K H L G F Y P D T L N T H | | | |
| UniRef90_K2DUB6 | A V L A N S K Q P E L A L R F E K S L L E I L G Y G L Q L D R T V S D E P V L | | | |
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| UniRef90_G1WCW6 | U R W L D S D H N F A N F H L V Y M I H R L F L G V Y P N L D D Y V S | | | |
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| UniRef90_F4CDY7 | C W L D S S E E P I N F H L A F L L K L T K Y L G F Y P A S R T G E E | | | |
| UniRef90_C3XAS8 | N R L A T S E S A Q T V L R I F E L A L L K E T G V A A D L S D T T T R Q P E E | | | |
| UniRef90_R5U6R6 | Q W L D A E K S F A N F H L V F M M R I S R F L G L Y P N M E D Y A | | | |
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| UniRef90_R5B7Z2 | E A L E A G N G I A N F H I C F L L R L C R F I G I E P D W E S W E K | | | |
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| UniRef90_W5Z1A4 | A E L L S E A S D V E P V L R R F E Q S L A A E L G Y D F V W D Q A M D S G Q P | | | |
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| UniRef90_UPI000362F3E8 | A L L A A E R G Q S Q G L L A S V W Y V L L D V S G W L G D L S H C W H C G A E V | K D | | |
| UniRef90_UPI0003812D26 | L A L A G E I D P Q V A L R R F E L T L L D T L G Y G V N F E E D I Y S G E A G | | | |
| UniRef90_A5FM31 | T W L D H H D D I S N F H L I I L L E I T T K Y L G F Y P D V S E I D D | | | |
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| UniRef90_UPI00029B4743 | N W L D S H S E I A N F H L I I L L K L T R Y L G F Y P E V S G | | | |
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| UniRef90_W0EPJ6 | N L I D E D G K A N F H L C F L L Q I C S F L L G F S P N M E S Y R P G | | | |
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| UniRef90_UPI000318DEA1 | E L L D H E H G V A N F H L I I L L K L T R F L G F Y P D L G G A E K | | | |
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| UniRef90_F8WZ17 | Q I L L E T D K S I I A N F H L V F M L K L S H F M G F Y P N L E E Y R E P | | | |
| UniRef90_R5ALF9 | M A L L D T L D N P T A I A N F H L Y R L A A L L G V E P D M S T Y A P | | | |
| UniRef90_G0A9S1 | N Q L A H Q E P A P I V L R K F E R A L L K Q T G V A G D F T R C T S S R Q P E | | | |
| UniRef90_K9W038 | R R I A E Q F P S K T S V S L L P Y L H L L A L A G I A P Q V H A C C L T K D P D | | | |
| UniRef90_F3ZQB2 | Q W L D E Q N S Y A N F H L V F M M R I L S L F L G L Y P N I D N Y T E | | | |
| UniRef90_K9WY7A | Q R I E A L P R N E P A S V V A H L H L L A L S G L T P Q V Q V C C L T Q R T N D | | | |
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| UniRef90_F3QX08 | Q W L D A G E G F S N F H L V F L T R L L T R F L G F Y P N V W H K G D C | | | |
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| UniRef90_S2JT42 | Q A L A E G G P L E P L L R S F E W R L L E D L G Y T F S L S H D I N D D P V E | | | |
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| UniRef90_I2BVF1 | M S E A D W H P G A L S A A K R L M R Q A L A V H L G G |
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| UniRef90_UPI0003B63C8A | I A S Y D F D A D S L K V A K Q L S R L A L A P L L G G |
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| UniRef90_R7CY54 | M H L F E M S R T E R N R C V E I I I N Y Y R L H I P D M P E L K S L |
| UniRef90_UPI0003957EEC | L A T R H F E T A Q L R A A K R F T R M A L K P Y L G |
| UniRef90_UPI00047D82A6 | L I E D L K L S S K Q R Q S F L N M L L L Y F E L H I G S F K N P K S L |
| UniRef90_K2DUB6 | L H A G T L T R E E L Q D A K R L L R S V L A I L L G D |
| UniRef90_K9T156 | L G V K S L P E E S L K K V E H L L R D Y A Q Y H F G R S F R S |
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| UniRef90_K9PLX0 | P E I M P L I K D D G W S V E Q I L R Q Y T Q Y H L G R I R S |
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| UniRef90_F8NB75 | M H L F R M N R E E R N K C V E V I M M Y Y R L H I P D F P E L R S L |
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| UniRef90_G6AI13 | M H L F R L S H H E R N R I A D T V L R Y Y C I H V P D M P E L K S |
| UniRef90_UPI00037F448A | F E S P K V Q G E A K L L M R T V I D A Y L Q |
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| UniRef90_K1JWP8 | L S G E P M S P A A L R A S R D I L R T L I D F H L R S I H S R R I L |
| UniRef90_UPI000362F3E8 | Q S I R L S G N D A D T W Q K M I A M V L R E H |
| UniRef90_UPI0003812D26 | D P Q I L K A A K R F C R Q A L A H F I G D |
| UniRef90_A5FM31 | V F H V V E R Q I L L R V L I D F Y S A H L D G F K K P K S L |
| UniRef90_V6SCL4 | D Q K I F A G T E R Q L L L K I L D Y Y A V H L D G F K K P K S L |
| UniRef90_UPI00029B4743 | I D D V K L T K N N R S E L L E L L L N Y Y Q L H I E S F K K P K S L |
| UniRef90_UPI00036D4818 | P E T L V Q S K T L L R M L I N H Y L G T L Q S R R V L |
| UniRef90_W0EPJ6 | L R Y F H F N R G E R N A V L D R I L T Y Y R L H I G E L R S P E I L |
| UniRef90_H8KWy8 | M E Q L K I S S A E R K V L L H A L I D Y Y E L H I G K V K S Y E V L |
| UniRef90_UPI000318DEA1 | F E E L K I G S S V R K V L L N K L I E Y Y S F H I E D F |
| UniRef90_L8J920 | F E T P E Q L R A A K R F T R I A L K P Y L G G L K S R E L F I P |
| UniRef90_F4DAU1 | P P L Q I Q A A K R F S R L A L Q P Y L G K R Q L K S |
| UniRef90_D3EMU9 | L N Q S Y L P H A G K Q K I E H L L R D Y T Q Y Q L H G C S F Q S V V |
| UniRef90_B6IMY9 | A E E V V Q G L A L T G H F F D R H L F A L R |
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| UniRef90_L9PF70 | D A A T Q A Q S K Q L M R F L L A H H L G G |
| UniRef90_H0JH14 | D P T V V R A A K R L M R Q A L A P H I G S |
| UniRef90_F8WZ17 | M H H F V F S R Q D R V N I I I N R I L I E Y Y R L H I Y D F P A L K S L |
| UniRef90_R5ALF9 | L G A I K M N Q T S R N D F L N M L L L Y Y E L H I E G F R K P K S L |
| UniRef90_G0A9S1 | E D Y S D V V T Q A Q S K V L M R F L L A H H L G G |
| UniRef90_K9W038 | L E T F P T V D T A W E S V E R I L R Q Y T Q Y H I L G P I R S |
| UniRef90_F3ZQB2 | M Y L F K L N R H D R N E I L D V L S D F Y K I H I P N F P E L K S L |
| UniRef90_K9WYA7 | |
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| UniRef90_F3QX08 | M R F F A M N R L E R G R Y L E V L D E Y Y R L H V P E F P E L K S L |
| UniRef90_W0V4J0 | E R E D Y V D A T T Q A Q S K L L M R F L L A H H L G G |
| UniRef90_UPI0003F58626 | L H N I K M N Q T S R N D F L N M L L L Y Y E L H I E G F R K P K S L |
| UniRef90_K2D4H5 | T L M I N K R L Q H K E N I E Q W G R R F L S H Q L K S E E A L R |
| UniRef90_K9ZLTO | I E A A S D Y G W L S I E Q I L R Q Y I Q Y H I D R I R S |
| UniRef90_N6UI63 | A S R P I D F N D M K N G F S L T N F F L T R H V W E P R R I K Q |
| UniRef90_Q9K0W0 | G S F R T A E S L L Q Q A L K I T R L F F I R H L E G L K S R Q V L |
| UniRef90_U2SWD4 | P G A L L A A K R L M R Q A L A V H L G |
| UniRef90_UPI000465D910 | M I E Q V N N S S F L L A L L Y A L I T Y Y Q K V L G |
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| UniRef90_W9V579 | A S G D S L V D G Q R R E S R T L L R R I L A H H L G E R P L R S |
| UniRef90_S2JT42 | P G A L L A A K R L M R Q A L A V H L G |
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| UniRef90_K2FVC7 | M H L F R F S R E E R N R C A N L I L R Y Y R L H I P S F P E L K S L |
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| UniRef90_V5FG07 | M T Y R Y R E Q Q G F I | A S V R K D N L T F K G E D L I | A L S E R R F I S K | |
| UniRef90_Q3JQ79 | P Y V F D P Q R G | V R D A G S D A P S H W P V I A G Q T L L D M E E D D | | |
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| UniRef90_R7LDW9 | G Y Y F D L L R S S D F T A E Q P L H P D F L E | P R D A A L V P L L M R M R Y D N | | |
| UniRef90_S3JM90 | A V V Y S A V E N G F F C P S C A A R E D L S | L S L E A V R Y L D A V S R L S P H E | | |
| UniRef90_UPI00046A33F9 | L P F F E M K E G V F L F Q A I S S L S E H Q S N L F K K L I A L R L D S D Q K | | | |
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| UniRef90_R5KMC6 | G S R F D L R A S C C F R T D V P L H N D Y L | L P P E E A E K M N L L L R M N Y P T | | |
| UniRef90_A6VAK4 | P Q A L Y L P E A G L | E P V T Q L Q P G L F Q G V E L L S M A D A D W | | |
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| UniRef90_W8I5N3 | L A F V S P K S G R A V C R | A A G M P Y A D R M A L P E F L A V E | | |
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| UniRef90_A6U7B9 | L V Y V S P K S G R A I C R E | A G A P Y A E R M L A L P D F L S | | |
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| UniRef90_J3I417 | L I Y V S P K S G G A V V S R | G A G E P W R D R L L R L | | |
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| UniRef90_W7XY58 | L P Y F N L K T F Q Q S E P A H P H Y M N H S E T S I L R Q L S E I R I E E | | | |
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| UniRef90_Q3SRB6 | L I Y V S P K S G G A V S R Q A G E P W R D R L L P L P F L R V T H D E Q | | | |
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| UniRef90_F8JHF4 | Q I Y V S P K S G R A V S A S A G E P Y R D K L L A L P Q F L T K Q | | | |
| UniRef90_R6XAL9 | N C F F D L E E G C F V P H V P N H A H F L S I E D T H S L V Q L F R I S Y K T | | | |
| UniRef90_UPI000478BAB2 | Q V G F S F L S G G I V | S G K K Y D D A V Y M A F D K I Y N L P V T K | | |
| UniRef90_K9Y1A4 | F F W S I D A | | | |
| UniRef90_K2DAF6 | G I Y R L Q T D D G L V | P I K D L S N D Q K I L L M K L E E F S W D Q | | |
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| UniRef90_A1KVH9 | E A R L T P V Q G G F I C R R C | | | |
| UniRef90_U7DA13 | A A Y K Y V S E Y G F I A V G | R E P D T I P G S M L L A I A N Q D F Q D | | |
| UniRef90_U1K214 | D A Y I F R E Q Q G F V A S L M K S N N | D P P L R A G D S A R Y A W Q Y V I Y A P I E K | | |
| UniRef90_R7ACX4 | U N I F R E Q Q G F V A S L M K S N N | | | |
| UniRef90_R1IIK3 | M Q A C S L E E S H F V C G D C Q T P P S D K L G L V R F L Q D C L L L R Y R D | | | |
| UniRef90_S3UMH7 | M Q A C S L E E S H F V C G D C Q T P P S D K L G L V R F L Q D C L L L R Y R D | | | |
| UniRef90_M1N325 | G L Y V S P K S G R A V C G E A G H P W K D K L L P L P Q F L L A Q R T | | | |
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| UniRef90_S6AUY8 | G I Y R L L P D A G L E P V Q G Q L Q P G | L F Q G R E L L A | | |
| UniRef90_UPI000462EBC6 | L I Y V S P K S G S A V S R T A G E P W R D R L L R L P P F L R E D G R R | | | |
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| UniRef90_H2G0B2 | G R Y F S I E E A S M I C D D D M A K V G L N H N Q I R Y F M K L L Y T K S E D | | | |
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| UniRef90_K2CSV8 | P Q K Y L P A V M A A L H H I E R S K I A K | | | |
| UniRef90_R5IML9 | S Y Y F Q P E Q G V V L S A D T V Q N D R Y L F L G R H L I A I G Y E Q | | | |
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| UniRef90_E3H2E2 | I D N A S P L A A R K I L N L T L H T T Q N Y L E T P L K T L | |
| UniRef90_V5FG07 | S Q L S S A K R F T R I A L K P Y L | |
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| UniRef90_I9BXM6 | G E Y V Y D P E Q G V R L A A Q D A P A A W P V V K G Q T L L D M T A N D F S R | | |
| UniRef90_D4DQ95 | A E K Q Y L L Q A E L L A S A P N N A N G I T A N G S T L L L Q L H | | |
| UniRef90_UPI00042727BD | D L R F S P K S A R A V C G D A G A P Y A D R L L R L P A F L L S G S | | |
| UniRef90_UPI0003731190 | E H Y R Y V A E H G A V R D G R D G L P V L G K T L L D M A A D E Y A D | | |
| UniRef90_UPI0004244395 | P M A R Y R A E N G L L S D R G A A D R S D A P S G Q A L L A Q D E M P A | | |
| UniRef90_R6B4T0 | S K Y F D L D E G K F V P F V P A H S H Y L S E S D S F H L L Q M F R L D Y K T | | |
| UniRef90_V6S506 | P F F E L N E G V F T P F H G I S C I S E H E T F L F K K L V G L K F D S | | |
| UniRef90_J2UXZ6 | L T Y V S P K S G R A V S R D A G A P W A D K L L V M P P F M V S S N I R A | | |
| UniRef90_A0A031MDY6 | Q R Y V W H A S D G L L P I H D P L L A D A G L S G A A L L A M A A D D W | | |
| UniRef90_I2B6F4 | A D Y R Y R E E K G F I A S L V V D N R S F T G R Q L R A | | |
| UniRef90_E5ANZ0 | R S Y V F D P E R G V C D V E M L E P D A H A L R A G Q T L L D M E R D D Y S R | | |
| UniRef90_L0T2A9 | P A A R Y V L D A R R L S D R G H D Q R S G M A T G R A L L A L A | | |
| UniRef90_UPI0003B33C02 | E Q M L Y R L V P Q S G F E A V S L V Q S G V F Q G A D I L A | | |
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| UniRef90_E4T6J3 | A K Y F D L M N G V F S E Q K A L H M H Y L L P E T T I D F I S L L E T D Y A G | | |
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| UniRef90_UPI0003742B70 | A P L F D L E G G R F C Q T Q S G F T L G E E E S H F F K K L I F T D F N Q | | |
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| UniRef90_E4RT13 | UniRef90_D1NDV6 | R M A L A E N G I P L T R S A L Q T L Q R I L E N P F G | |
| UniRef90_D0L0J7 | UniRef90_UP00035DEE44 | D T Y R Y R E E K G F I A S L V K D N L T F Y G R D L L A | |
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| UniRef90_U7ULN4 | UniRef90_E6WUA2 | T W Y R Y D P D G G V E P V A A G R G E A I P G A A L R A L A S G Q | |
| UniRef90_UPI00036BE40E | UniRef90_S5XRN6 | P Y R L D P E H G A R R L L S E R A G E R Q C A P T G Q A L L A H D T L P A | |
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| UniRef90_F4HAI7 | UniRef90_K5YGC9 | P Y R L D P E H G R R L L S D R G H G E R N A A T G R A L L A A | |
| UniRef90_V7EMR6 | UniRef90_A1B5X7 | L I Y V S P K T G R A V S A S A G E P Y R D K L L P L P Q F L | |
| UniRef90_K5YGC9 | UniRef90_A1B5X7 | L A Y V S P K T G R A V S R A G A G | |
| UniRef90_D6Y889 | UniRef90_A3MZ81 | T G Y F S I R E A S L I C E E H K A G D V I R D D L L Y F M K L L Y T K S _ D E | |
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| UniRef90_H8XNH0 | UniRef90_D6Y889 | N Y F D L K N G I F S K Q Q P N H L L Y I T N D D L Q N F I I L L L R C S L E N | |
| UniRef90_V5V628 | UniRef90_D6Y889 | M T Y Q Y R E E K G F I A S L L K N N L T F Y G R D L Q A | |
| UniRef90_K9UP57 | UniRef90_D6Y889 | L A Y V S P K T G R A V S R Q A A G P Q R L A P L P A M L | |
| UniRef90_A4BRZ6 | UniRef90_D6Y889 | P A A F Q A G E P F C A S H C S A I P F N A N E L D L M Q T L T F R S L K E | |
| UniRef90_U2QSR9 | UniRef90_D6Y889 | M T Y Q F R E N Q G F I A S L L Q N N Y T F L G K D L L A | |
| UniRef90_J9GX65 | UniRef90_D6Y889 | R V G F S I L N S G G T I C F P F F E M I E G V F V P F Q G V S C L T A H E T L L I K K L I D L R F | |
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| UniRef90_E0RN16 | UniRef90_D6Y889 | P N F F S I E S G S T V T G L N L T T D D P Y R L T A L D L Q H L S D P N L D R | |
| UniRef90_S3DZ10 | UniRef90_D6Y889 | P Q R W Y R Y E G A V P V T A P R G R L V V Q G A T L S A I A | |
| UniRef90_J0QGH9 | UniRef90_D6Y889 | F P F F E M I E G V F V P F Q G V S C L T A H E T L L I K K L I D L R F | |
| UniRef90_B2VI48 | UniRef90_D6Y889 | T D Y R Y R E E K G F I A S L V D V H Y S F T G N E L K A L A | |
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| UniRef90_A1VRT0 | UniRef90_D6Y889 | Q V A F S P N T Q A A T S A P P V L A L Q V H E A Y F D Q L L K E P D Y A T | |
| UniRef90_K8WE58 | UniRef90_D6Y889 | G A W W G S V V E E G L L C R G C A V G R E G A W W L S G A M R G F A E G R V G L | |
| UniRef90_UPI0004789C77 | UniRef90_D6Y889 | M L Y R Y S S Q K G F I I S I I K D D A T F L G N E L L L | |
| UniRef90_W11PV3 | UniRef90_D6Y889 | L R Y V S P K S G R A V C E E A G H P W K E K L F I L P Q F L V K R T D R | |
| UniRef90_H0PU17 | UniRef90_D6Y889 | G M Y F D M Q N G I F V Q Q Q P P H T H F V H S D D S W I V A K L L Q M N Y E N | |
| UniRef90_B6YQ41 | UniRef90_D6Y889 | G Y Y Y Y V H E Q G F V I A A N A H P E I R G M S F D G E S L L G I S V S N Y E R | |
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| UniRef90_V8AXX6 | UniRef90_D6Y889 | G R Y F D P E R G L A Y V S P K S G R A V S R D G A G | |
| UniRef90_F2L9H4 | UniRef90_D6Y889 | Q R Y V L V A E A G L R Q A H D D D R F S L S G A Q W Q A L Q Q A L G G K S L F | |
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| UniRef90_UPI0003602D94 | UniRef90_D6Y889 | G R V N I K T A S I V Y E K E P Y V A N I D V H Q T T L L V R L T Y L D Y D K | |
| UniRef90_A9NGS7 | UniRef90_D6Y889 | L I Y V S P K S G G A V S R A A G E P W R D R L L P L P A F L R D E E D | |
| UniRef90_H0TQX2 | UniRef90_D6Y889 | T L Y F R S Y S G F S V D Y H D S D C V T I S R D E A I A L G Q S D | |
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| UniRef90_Q6MED5 | UniRef90_D6Y889 | H Q E A F F F R G E V F C R L H Y P M G A L R E N E I N V L Y Q L L N C N Y Q E | |

130 140 150

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| V K N Y T | Q I L N Q I H Q F M | D F |
| P V S A T Q S R M | L M R F L L D Y Y | |
| A G R F D N G E S | L Q Q A L Q I T R M | L D F R |
| E E S P D A A D V | A A L K L T G F F | L D R H |
| P T T A Q Q S K Q L | M R Q L L N H H | L G G |
| P G D L A A L R R | G M R R V V L E H H | V G G L T S W Q M |
| M H L Y K M S R Q E | R N H S V E V M I E Y Y R | L H I P G F P E L K S |
| D Q K I F A G T E | R Q I L L K I L L D Y Y T A H | L D G F K K P K S |
| L S M T E I S D A F R | L T S F F T R H | V W E P R |
| S A T T T L R V A K Q L | M R Q A L G V H | G D |
| L Y A R E F P D E T | L R A A K R F T R I A L K P Y | L G G L K S F R Q F I P |
| A Q T V A Q S K T L | M R R F L L N T Y L | G G |
| A D E M P V A E D L P G | L R R G M R V V L M H H | L G G L K S W E M |
| L A T A D W Q Q E I L | Q T A K R V M R Q A L A A H | G G |
| A F T M T | | |
| S H I A A L S P R E | M K R L R E L L K T A D L H | E G L R S R R L |
| M H R L I L T R E R R | S V L L K G L V E Y Y L L H I P E F H T L H S | L P |
| F A E M D F S E E T | L Q S A K R F T R I A L K P Y L G S L K S F Q S V L | P |
| A H E L R L E R E T | R Q K L L N E L I R Y F Q L H L E G M | |
| I A N H D F S Q A D | V L Y M A K Q L S R Y L L K P L L G N K P L K S | |
| A A L L K I N K E E | R A L L L S K M L D F Y N I H V G E I N S | |
| M S L Y S F S R Q D | R V G V I N R I V E Y Y R L H P D F P E L K S | L |
| M H L Y T M S R M E | R N R C V E V I L E Y Y K L H P E M K S F A V | L |
| L L E G R L S R Q A | R Q E A K H M L R G L L D Y H L Q G R R | |
| D S K N I F N Q M Q | R R S S L N N L L Q Y Y Q L H P D F R E P K S | L |
| M A D D D F S R A T | L A Q S K H L L R M L L N H T L G G L H S R R V L | |
| I S Q L K M S R E E | R N D L L E Q L L N Y Y R W H P A F H S W E V L | |
| A L A A D V R P E | D L D S L R L A M R E L V S R H V G G L R S W Q | |
| U n i R e f 9 0 _ E 4 R T 1 3 | N P L N I S K T Q R M E A L D H L L A F Y S Y N L D S F H G V R S | L |
| U n i R e f 9 0 _ D 1 N D V 6 | F E A L D F S D A V R Q A A K F T R I A L K P Y L G D | |
| U n i R e f 9 0 _ D O L O J 7 | A D N Q T L A D A D R R Q A R N L L Q S L L A P H V G S | |
| U n i R e f 9 0 _ U P I 0 0 0 3 5 D E E 4 4 | T V P D N Q A R V S R D F M R R L I D T H L A G R P L R T | |
| U n i R e f 9 0 _ G 7 U Q F 1 | P S D L A D L R R A M R L L L A H H L G G L K S W E M | L |
| U n i R e f 9 0 _ U P I 0 0 0 3 6 3 2 8 C 7 | Y V V K L S Q G D R K A F E T L V A Q Y L I S Y Q G E R | |
| U n i R e f 9 0 _ U 7 U L N 4 | R E T V R F S A K G L A L L E D L L Y A Y V Q C S E R R L K S I S F | L |
| U n i R e f 9 0 _ E 6 W U A 2 | D V Q P D A E D L A S L R L P L R A V L A H H L G | |
| U n i R e f 9 0 _ U P I 0 0 0 3 6 B E 4 0 E | | |
| U n i R e f 9 0 _ S 5 X R N 6 | | |
| U n i R e f 9 0 _ C 7 R F X 3 | | |
| U n i R e f 9 0 _ U P I 0 0 0 3 6 4 D 9 6 2 | | |
| U n i R e f 9 0 _ U P I 0 0 0 4 0 C C 1 A E | | |
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| U n i R e f 9 0 _ V 7 E M R 6 | | |
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| U n i R e f 9 0 _ A 4 B R Z 6 | | |
| U n i R e f 9 0 _ U 2 Q S R 9 | | |
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| U n i R e f 9 0 _ U P I 0 0 0 3 F D 2 9 D 6 | | |
| U n i R e f 9 0 _ E 0 R N I 6 | | |
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| U n i R e f 9 0 _ K 8 W E 5 8 | | |
| U n i R e f 9 0 _ U P I 0 0 0 4 7 8 9 C 7 7 | | |
| U n i R e f 9 0 _ W 1 1 P V 3 | | |
| U n i R e f 9 0 _ H 0 P U 1 7 | | |
| U n i R e f 9 0 _ B 6 Y Q 4 1 | | |
| U n i R e f 9 0 _ F 3 L C 5 9 | | |
| U n i R e f 9 0 _ V 8 A A X 6 | | |
| U n i R e f 9 0 _ F 2 L 9 H 4 | | |
| U n i R e f 9 0 _ J 1 T 7 Z 4 | | |
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| U n i R e f 9 0 _ A 9 N G S 7 | | |
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| U n i R e f 9 0 _ A 3 W P R 9 | | |
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| U n i R e f 9 0 _ D 3 A 6 D 3 | | |
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| U n i R e f 9 0 _ E 0 M L 1 9 | | |
| U n i R e f 9 0 _ Q 6 M E D 5 | | |

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| UniRef90_UP10003801743 | A L F C A M Y L N E L I N R T M P V G L A S E M L F G H Y Q Q V L |
| UniRef90_T1BUZ4 | P L R L E G V A L W A G F H I N D L I L R M T G Q Y D P I M G V Y D R Y S E A V |
| UniRef90_R9GLH5 | D L I K S S L V L F L N E V L Y K V V R Q H H D D V L L F E F I F H S I |
| UniRef90_UP1000468A1C3 | P L S G D A L Y A A M Y L N E L L V R V L G N H Q S G E A L F F S Y H Q S L |
| UniRef90_F7QP00 | E A V F C G W Y L N E L L T L V Q R H D P H P Q L Y A D Y T E A L |
| UniRef90_I7ZEU2 | I A E N Y N N Y V Y S S I M F K I L D Q I E Q I S D K H Y K I F K M L T F C L |
| UniRef90_S5LWX3 | D R M T L A N A V T A L L S F C L P E R E P H A A L Y R R T E A L L |
| UniRef90_UP100046ACE9D | R F A Y A S Y L G E L A F R L A S P E V A S R I W P I L I S G L |
| UniRef90_D7BFQ0 | L T A D L P R L D A A G R A L R W V R D I T P A H I A E P D V W R E L N R L L |
| UniRef90_A0A017T026 | L L Y S G L Y V N E L I S R V L E H E T R F S E L F F D Y L H C I |
| UniRef90_B5XNH2 | Q A M L A G F Y N E L L M R M L A P R Q D P L P E L Y D H Y A Q V R |
| UniRef90_C6CNM2 | L L S D P D R L L A L S S A C A V L E S T V T E R V P V P D L Y D A T L A L L |
| UniRef90_UP1000308CDD7 | D F D K L Q V A F E I T R I I N F I V S E N E D T E K L L T L F L N T I L |
| UniRef90_UP100037F0D14 | L L Y S G L Y V N E L L V R V L E H E T N Y S A L F F D Y L N C L |
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| UniRef90_X1KMY3 | T A L Y S G F Y V N E L L S R V L E P E T A Y P Q L F Q N Y L R C L |
| UniRef90_C9PN8 | D R L S L A N A V T A L L F C L P D R E A H R R L Y R R T E A L L |
| UniRef90_A6FMT7 | D R L A L A N A V T A L L F C L P D R E A H R R L Y E R T I A L L |
| UniRef90_A4EEZ6 | L F D S A V A V Y G L Q T L R L L P E R D P H A G L Y E M L G L M I |
| UniRef90_H0HQ4 | L S Q H L G R L T A S Q Y L A E V V L L M A L S D C P Q S D L F N V L V E H L |
| UniRef90_G7Q3V9 | R L L P E R D A H G G L Y E A L S V M I F R L V L S V L |
| UniRef90_Q985A3 | L M S D R L A L A G L A A V T A L L S R S L P E R D A H A P L Y A R T E A L L |
| UniRef90_UP1000370AC9D | L Y S G L Y V N E L L V R V L E Q E T N Y S L F F D Y L N C L |
| UniRef90_G9Y6J4 | T H L A S L A R L L P E R D P H A S L Y E M L E T A L L |
| UniRef90_W3RE64 | P I R L R G D C L L S G L Y L N E L L V R L L Q Q D A H R Q L Y T I Y H S T L |
| UniRef90_C1F1J2 | D Y A R A A A L A F Y T E V L E E A L P D H D P Q E V I F R L V L S V L |
| UniRef90_K1ZFL8 | P I R L R G D C L L S G L Y L N E L L V R L L Q Q D A H R Q L Y T I Y H S T L |
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| UniRef90_U2AXH9 | R S S V L F F L S E I G S Q V L Q E E V A N A S L F S F W E E N L |
| UniRef90_Q0G3H4 | R L L P E R D P H P R L Y D G L I V L I |
| UniRef90_UP1000367602C | E R L L S G Y Y L N E L L L R M L A R D D P H P A L F D V Y A R A L |
| UniRef90_I3Y6P9 | G F Y L N E L L L R M L A R D D P H P A L F A F Y Q D A L |
| UniRef90_UP100046F388C | P L S G R Y L Y C G L Y V N E L L L R M L A R D D P H P A L F F D Y L Y C L |
| UniRef90_F5T7H1 | I A L D L E K A C Y A A Y F L E L A D F V S Q E N L P A E E M V N L I Y L S L |
| UniRef90_Q0FLS2 | D R L S L A N A V V A V L L S F C L P E R E A H P A L Y A R T E S L L |
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| UniRef90_UP100037EDD8C | K S A I V F F L A E I E I L N L V L K E E T D N S D L Y F Y I E H S L |
| UniRef90_Q8PMU8 | D T M I L A G F Y I G E L L L R L A P R H D P V P E L Y A C Y A Q A R |
| UniRef90_W6LSA2 | P I A L P P N R V L A G L Y V N E L L L V R L L P R D P L P G L F A A Y E V L L |
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| UniRef90_A5VEW5 | L T A A S L A E G Q P H A R L Y E A L D A V L |
| UniRef90_Q0VP21 | I L G D R L A L A G L N A V T A L L C F A L P E R E A H E A L W P L Y E Q A L |
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| UniRef90_B4SRK8 | L Y S G L Y V N E L L L S R V L E H E G N Y V F L D Y L Q C L |
| UniRef90_V5CKA1 | I S T N I K K T A I A M F L A E V L Y K T V K E E G E V A E L F D F I F H S I |
| UniRef90_L8JUH7 | I Q E D L F K S S C C F V L H D L I S K T K K E E G E V A E K F N I L L D C W |
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| UniRef90_UP100035CC8DD | I I K S S I G I F L A E F L N H I L R E E E D N P V M F G F I H D S L |
| UniRef90_Q6D221 | I I K S S I G I F L A E F L N H I L R E E E D N P V M F G F I H D S L |
| UniRef90_E1JRI3 | I I K S S I G I F L A E F L N H I L R E E E D N P V M F G F I H D S L |
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| UniRef90_E4UDC2 | I I K S S I G I F L A E F L N H I L R E E E D N P V M F G F I H D S L |
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| UniRef90_Q0FLS2 | D L L | A E R E L W P L A Y M R W E M A L L D E M G F G L D L S A C A V T G T N E |
| UniRef90_X6L1R8 | D L L | G Q P T L W P L A Y L R W E M R L L E E M G F A L D L S S C A V T G A T E |
| UniRef90_UPI00037EDD8C | K E F | D K K E D F A D F H L I F L I Q L S H F L G Y P N L E M D |
| UniRef90_Q8PMU8 | R H L | A S D L P L A W G L R R F E R D V L E G L L G F A F D L Q H D S E G Q P I D |
| UniRef90_W6LSA2 | A E L | V T V P G E E P P L R R F E K R L L E E L L G Y G L T L D C E A I S G M P E |
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| UniRef90_A5VEW5 | A A I | E Y A P S A R G W A A A Y E L M L M A D L G Y A L D L S A C A A T G R D D |
| UniRef90_Q0VP21 | S D L | L T D P L D I T L R Q F E L A M L E E I I G Y G I A L D Q D V H G Q E A D |
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| UniRef90_Q6D221 | Q H L | A A Q D A P E P A L R R F E L A L L G Y L G Y G V D F L H C A G S G E P V |
| UniRef90_E1JRI3 | A A L | E N A S A P A A I F L F F R A R L A T L H G T F P V C D R C A V C G R P D |
| UniRef90_G9WJX5 | K A L | L H D L P E L V R A V Y E L R V L L L E G E Y S E L L P P R S Q |
| UniRef90_E4UDC2 | N S H K | I K S S I L G K I F I Q I E L L K N I G F G L E I T K C V V T G S H D |
| UniRef90_F3KZK1 | E V L | E A D S S P R A P I R R F E W S I L Q T L G A E P D L S T D A N G E P P D |
| UniRef90_E4TVX5 | T Y F D K G E D Y I N F H L Q F L A Q I L T Y L G F K P S G A V E | |

UniRef90_C0BIH8
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 UniRef90_UPI0003801743
 UniRef90_T1BUZ4
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 UniRef90_UPI000468A1C3
 UniRef90_F7QP00
 UniRef90_I7ZEU2
 UniRef90_S5LWX3
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 UniRef90_D7BFQ0
 UniRef90_A0A017T026
 UniRef90_B5XNH2
 UniRef90_C6CNM2
 UniRef90_UPI000308CCD7
 UniRef90_UPI00037F0D14
 UniRef90_R5SZZ2
 UniRef90_G7LSD5
 UniRef90_UPI0003734679
 UniRef90_D7AAE0
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 UniRef90_C9PNN8
 UniRef90_A6FMT7
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 UniRef90_G7Q3V9
 UniRef90_Q985A3
 UniRef90_UPI000370AC9D
 UniRef90_G9Y6J4
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 UniRef90_U2AXH9
 UniRef90_Q0G3H4
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 UniRef90_Q824J3
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 UniRef90_D5X4R2
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 UniRef90_Q0VP21
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 UniRef90_B4SRK8
 UniRef90_V5CKA1
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 UniRef90_B7CAE1
 UniRef90_I2GLQ5
 UniRef90_A6DUT7
 UniRef90_Q11JS6
 UniRef90_E7NTM0
 UniRef90_A4C6M8
 UniRef90_B6BDU5
 UniRef90_I3DJJ1
 UniRef90_H1PPL4
 UniRef90_C7RTP1
 UniRef90_M4U2Q4
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 UniRef90_B4WKV5
 UniRef90_UPI0003F53F38
 UniRef90_Q16AI3
 UniRef90_K7SP80
 UniRef90_UPI0003817E89
 UniRef90_S5ZY21
 UniRef90_U6B4G3
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 UniRef90_Q6D221
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 UniRef90_E4UDC2
 UniRef90_F3KZK1
 UniRef90_E4TVX5

90 100 110 120

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

130 140 150

| | |
|------------------------|---|
| UniRef90_C0BIH8 | V G E M K L S R Q E K S V L L D S V V I Y F E L H L Q Q F K S P K S |
| UniRef90_UPI0003468584 | A A R K T A K I I T R Q A L R N L L |
| UniRef90_UPI0003801743 | R S L E E A R R L L A L V Y D A H L G R V R R W |
| UniRef90_T1BUZ4 | M H L L K I S S V N R K D L L S K V L D Y Y R M H I G E I H S H K |
| UniRef90_R9GLH5 | |
| UniRef90_UPI000468A1C3 | |
| UniRef90_F7QP00 | |
| UniRef90_I7ZEU2 | L R D E R F D D A A L R D M R R L L N R Q L K P L L G S |
| UniRef90_S5LWX3 | N V E Q K Y I Y T D L L I A I H N I I I D Y Y E R T L G |
| UniRef90_UPI00046ACE9D | A V E A L E R A P L D R L L R A L K V H A D S T V G A L N S |
| UniRef90_D7BFQ0 | G G E G A I A P D D L R T A L D L V E G A L T A H |
| UniRef90_A0A017T026 | T L R A A K R F T R I A L K P Y L G G L K S F R Q F M P |
| UniRef90_B5XNH2 | E T L R A A K R F T R M A L L K P Y L G G L K S F R Q F I P |
| UniRef90_C6CNM2 | A L A A D P G P E D L G S L R R P M R A V L M H H L G G L K S F R Q F I P |
| UniRef90_UPI000308CDD7 | L L S G P A D R L S L G Q G L S L T G H F L R R H |
| UniRef90_UPI00037F0D14 | V F D F Q V A D V D N L K L |
| UniRef90_R5SZZ2 | D S E T L R A A K R F T R M A L K P Y L G G L K S F R Q F V P |
| UniRef90_G7LSD5 | P L S R T A R N E L L D A V V A Y Y R I H L G E I K S L P V L |
| UniRef90_UPI0003734679 | |
| UniRef90_D7AAE0 | |
| UniRef90_X1KMY3 | L F N L K L E D |
| UniRef90_C9PNN8 | F E A R E F D P A T L Q A A K R F T R M A L K P Y L G N |
| UniRef90_A6FMT7 | L G A G P A P D A E V A E G F Q V T G H F L Q N H L |
| UniRef90_A4EEZ6 | L G D R P M P A A R T R L L D A I M R A |
| UniRef90_H0HPQ4 | A D R A A L E D A F R |
| UniRef90_UPI000467C377 | G G V S N G G P D E L R D A F R L T G H F L A R H I Y G P R G L R |
| UniRef90_UPI000365AF4D | W A A C R P E P A A A R E F S R T V D L L V R Y H M G |
| UniRef90_UPI00036745C4 | G L R A D P A A V E D A F R L T G F F F T R H V Y E P R A L E Q |
| UniRef90_G9Y6J4 | |
| UniRef90_W3RE64 | L A E R R F P D P T L R A A K R F T R M A L K P Y L G G L K S F R Q F V |
| UniRef90_C1F1J2 | F A P T P W P P A R A A D L R R F A L I T L E R H L E R L H S A D A L |
| UniRef90_K1ZFL8 | L L S L R D A K R L M R M V L Q R L L G N Q |
| UniRef90_UPI000348CB05 | V C Q L R M S R T E R N D L L E Q L L N Y Y R W H L P S F H S W E V L |
| UniRef90_U2AXH9 | R A A D G E T L R T G F T L L T R Y F L S R H V Y E P R G L |
| UniRef90_Q0G3H4 | M A Q R E L A Q G L K Q Q L R G V L H A H C G V E L L R T R K M |
| UniRef90_UPI000367602C | A Q R E A R I L L R G I L T P Y L G E |
| UniRef90_I3Y6P9 | L S D R E F P D D T L K A A K R F T R M A L K P Y L G G |
| UniRef90_UPI00046F388C | L Y T F R L E E G T L L D F E M L C R E S F P M Q F H S L K I L K S L |
| UniRef90_F5T7H1 | L G R G S A P D G E I L D A L R T T G H F L E N R L |
| UniRef90_Q0FLS2 | |
| UniRef90_X6L1R8 | |
| UniRef90_UPI00037EDD8C | N S K N T F N Q P Q R S L L L E I L V K Y Y Q I H T N N F K K P K S L |
| UniRef90_Q8PMU8 | D D M P G L R R S M R G V L L H H L G G L K S W E M L |
| UniRef90_W6LSA2 | D G I L V D P T V L S E V K R L T R A A L A V Q L |
| UniRef90_C9Y9L1 | T T T L R A C O S E V M S E L K P Q L R A L L H Y H C G V K T L R T |
| UniRef90_B5ZBZ9 | K E Q I E D N E L T F K G L K I L N S I M Y D Q L G |
| UniRef90_Q824J3 | L T A I L L H P E S I N E A E R V L R E Y V Q Y H Y G R I R S |
| UniRef90_K9W954 | D V A L A R A A K T L M R S L L H Y H L G Q M L R T R Q L L |
| UniRef90_D5X4R2 | I C G G N W H P T A R K A A L N V C R Q M L A P H L G N R P L K S |
| UniRef90_A5VEW5 | D E E P D A A D L A S L R L P M R R V L A H H L G G L K S W E M L |
| UniRef90_Q0VP21 | L A E R Q F P P Q T L R A A K R F T R I A L K P Y L G S |
| UniRef90_A3TW46 | R I K I S N T M R R I L L D H I I K F Y Q T H D T L K E V K S V |
| UniRef90_B4SRK8 | L F T F N L D D L I Y L A K W V E Y H S Q K S Y P S I R F L E S I |
| UniRef90_V5CKA1 | A I K L S R S G R N E L L D A L V I S Y Y K I H G E V K S L P V L |
| UniRef90_L8JUH7 | M G H G P A P D G E I L Q G F E V T G Q F L R N H L |
| UniRef90_B7CAE1 | L Y D R A I L S Q A F A L T G F F F A R H V Y E P R G L |
| UniRef90_I2GLQ5 | S R A L P L S Q Q T Y G M L R R F L F Y L I T |
| UniRef90_A6DUT7 | P Q T R I L L A K Q F A R Y L L K P L L G E L K S R E L F L P |
| UniRef90_Q11JS6 | L G Q G S A A D A E I V Q A L R A T G F F L E A H L |
| UniRef90_E7NTM0 | F E Q Q Q F N D A V L Q A A K R F T R I V L K P Y L G N |
| UniRef90_A4C6M8 | V K S I I E D Y S I K E I K N V I E R Y L N F H G |
| UniRef90_B6BDU5 | D P R S L I S E A K Q L M R T L I G H Y T G G R S L A S |
| UniRef90_I3DJJ1 | N A E F L S P A K R F C R Q A L A H L L G N |
| UniRef90_H1PPL4 | D G E L M G P Q A V W L R L L A V V E C W R C H L R P V R S L G M L |
| UniRef90_C7RTP1 | Y R N V T V N R K Q E L Q V L K G L S E Y S A M V I E K L K S L K T V L |
| UniRef90_M4U2Q4 | A A C P E A S P E E V S A V T A L L Q E Y C A C H L G R M P H R K H L |
| UniRef90_Q05SE3 | |
| UniRef90_J5KAH2 | I D K I K L K Q L S Q I A I S A C L D |
| UniRef90_D4H8E3 | S D S F R P T Q N N L E E L D R A L F V Y F R H F F G R |
| UniRef90_B3QRD3 | S D E Q L P L A R Q F C R Q L I A Q L L R E L R S F K Q I S P |
| UniRef90_K9SNT4 | |
| UniRef90_K6FD31 | |
| UniRef90_E3I258 | |
| UniRef90_UPI00028927FC | |
| UniRef90_B4WKV5 | |
| UniRef90_UPI0003F53F38 | |
| UniRef90_Q16AI3 | |
| UniRef90_K7SP80 | |
| UniRef90_UPI0003817E89 | |
| UniRef90_S5ZY21 | |
| UniRef90_U6B4G3 | |
| UniRef90_C7D666 | |
| UniRef90_UPI00035CC8DD | |
| UniRef90_Q6D221 | |
| UniRef90_E1JRI3 | |
| UniRef90_G9WJX5 | |
| UniRef90_E4UDC2 | |
| UniRef90_F3KZK1 | |
| UniRef90_E4TVX5 | |

The figure displays a sequence logo for the UniRef90 database, showing the conservation of amino acids across 40 positions. The x-axis represents the position number (1 to 40), and the y-axis lists UniProt IDs. Colored boxes indicate conserved amino acids: blue for hydrophobic, red for polar, yellow for acidic, green for basic, and purple for aromatic.

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
inssm

| | 50 | 60 | 70 | 80 |
|------------------------|---|----|----|----|
| UniRef90_C3X4M0 | A R L A T A E S A Q T V L R I F E L A L L K E T G V A S D F S V N Q D R S P | | | |
| UniRef90_B9JUP0 | D H L H E P A S A G E L F I R F E L L A I L N D L G F G L D L T A C A A T Q R Q D | | | |
| UniRef90_C6XGB8 | N C H K I P S V I G K I F E L M L L K N I G F G L D L T K C V V T G T Q D | | | |
| UniRef90_K6V8X9 | Q Q L A L V N A Q P G L L R Q F E H I L E E L G Y A I P L Q L D V N T P M Q | | | |
| UniRef90_C6WX86 | K A L A S E Q H L A T T L R R F E L K F L Q E L G Y A I P L Q L D V N T P M Q | | | |
| UniRef90_A8PNX8 | Y R L F D N P M F A L R L F E K K L L A E L G Y A L S L N K E S R T H Q P H | | | |
| UniRef90_G8NCY9 | R G I A K H P E P L L P L V W A G W R V V K A G G L A P S L G P G L H | | | |
| UniRef90_UP10002D25C09 | R G L L T T A T D R E A L L R R F E Y V V L L A A C G O S I S T F E E A C S T N A H | | | |
| UniRef90_M3JRK3 | E H F D D P L A S G E L L R F E V V M M L E E L G F G L D L K E C A A T G R E N | | | |
| UniRef90_C1D7L6 | A H L A R G S A I A P V L R R F E L L Q Q L L A A T G Y A P T L L D R D L A G E | | | |
| UniRef90_UP1000424364C | T D L L A L D R P A D R I L R R A E W Q L L G G L D S G L A F I D P D D L E P E | | | |
| UniRef90_W4HJK1 | D T L L G N R D L W P L A Y L R W E V L L E E Q T G F A L D L G E C A V T G R T E | | | |
| UniRef90_B0VHW0 | D Y L L K K E R N A I L I F W R F L N R I T I L S G I G N P L S Y C C L C K N P L | | | |
| UniRef90_Q47EF5 | A L L L A A G K V I R E A D L R C Y F E K A L L Q E L G Y G L T L N H D S D A N E P D | | | |
| UniRef90_B6AR44 | E L L L S A Q E S P A F S W L R F A A S A L D L L G Y Q I R A D D C S F C K E A N | | | |
| UniRef90_N8YA04 | Q N L L S D H P D A N I L L R Q F E H A L L E E L G Y P L D Y E T D A S Q N Q A T | | | |
| UniRef90_B5JWZ7 | K G A T E R G D R E R C L R E F E L L D L L W L L G F S I D F S Q D I N E D | | | |
| UniRef90_UP100036BB2F7 | K W L L D S E F V H P S I F A Y V Q L L R L S Q I I G F G L I D D T T Q E N E | | | |
| UniRef90_D7DJV3 | K I L L A N G E N L A T T L R R F E L K L L L Q E L G Y A I P L Q H D V S N A Q E D | | | |
| UniRef90_A8LL2E2 | D A L L A E G T G W L P A Y L D W E M A L L D L Q M G F G L D L S G C A V R G N E D | | | |
| UniRef90_B3DX96 | G Y I L K K K P V S L K I V E L Y E K R L L A I H G L Q G A E I D H L Y E Q A P G | | | |
| UniRef90_A1S3Y3 | M S M A K G F C Q S Q L R Y F E S L L E E L G A C P S L S D D | | | |
| UniRef90_UP10003635941 | G D L L A H D R P A D R V L R R A E W Q L L G S L D S G L A F I D P D E L E S A A | | | |
| UniRef90_S9SKV7 | D L L L G Q A D L W P L A Y L R W E M A L L D E M G F G L D L S L A C A V T G R P | | | |
| UniRef90_D3HIV5 | N K L L V I S T K D L E A L L R R F E W T L L R T C G Y S F S L S T Q E A R T E N A E | | | |
| UniRef90_UP100037F8FDC | D L L L S Q P K V W P L A Y L H W E L E L L S V L G Y G L D L S K C A V S G C T D | | | |
| UniRef90_B6JGG5 | E D F D D P V I A A T H V V R F E M A M L E E L G F G L D L S C C A A T G T T D | | | |
| UniRef90_Q7TTW6 | E R L L D Q R S D C L D E L L A S A I H L L T L G G Y S L P L Q S C C L S G A P L | | | |
| UniRef90_D5QG51 | A R I L E A E R S G M A A L I R W E M M L L S D L G F G L D L S C C A V S G Q A D | | | |
| UniRef90_R5ZZH1 | S A F H Q K D A K A Y G Y A C L I Q V I I Q Q G I V P Y F D G C V A C G R T N | | | |
| UniRef90_K2AKV3 | K L L E S V K G L R S Q R D M F S K K L V L L G F W E E V P D E A L K G V V E | | | |
| UniRef90_UP100034687A0 | P A L L G A A D D T Q A A L R A F E I V L L R E I G L L P Q L D E Q T A S G A A D | | | |
| UniRef90_Q25B31 | H R L L P E S K N P E M F S A T F L L K L L Q Y E G I L D L S S T C A T C K Q H I | | | |
| UniRef90_UP100047A159B | H V L L E H G D A L Q P A L R A F E L L L R E V G L L P S L D L Q T S T L A P L | | | |
| UniRef90_A3PGG1 | D A L L D R P G W P P A Y L R W E M R L L E E T G F G L D L T R C A V T G R E D | | | |
| UniRef90_Q7VDI1 | E R L L L Q K E P K V P E A L A N C V Q H L L A L G G Y G L P I Q K C C W T G P P I | | | |
| UniRef90_Q14P62 | D N L L V A W E D N L S I V I A F M F R T L K W Y G L E W N F T M C K R C G K Q H | | | |
| UniRef90_UP1000370F9F8 | A H L L D D A S A A G E L F V R F E L A L L N E L G F G L D L A Q C A A S G R T D | | | |
| UniRef90_G7Y9A2 | T R L E L F K M V R E T N N A F C A D C Y G D P G | | | |
| UniRef90_A0A059INZ7 | D A L L G A P G W P L A Y L R W E M L L L D E M G Y G L D L G A C A V T G R E D | | | |
| UniRef90_UP100038162E9 | F H L L Q R G A D D M R Q V M F L E L A I L H C G H D L N L W Y D D K D E Q A E | | | |
| UniRef90_J9GP37 | E W L L D V N E G F A N F H L V F L M R L T R F L L G F M P N V E G M K E | | | |
| UniRef90_G9ZCW4 | Q S P D A S A L R R F E Y A L L M H L G L L P E M R G H A P C | | | |
| UniRef90_V4QTY8 | L Q L L P R K R Q G A A D L A R F E L L L L A E F G F G L D L T S C A V T G T E D | | | |
| UniRef90_K2EJN5 | D A L L K G P D W T T S Y V D F E V S L L E D L G Y G L N F S S C A V T G R D D | | | |
| UniRef90_UP10003043718 | Q R L L D H S S D F A A V S L L C S L H L L T L A G L A P Q V H V Q L T P G E | | | |
| UniRef90_C4K3Z5 | E A L L A S A Q D S E R A L R R F E L L A L L T H L G Y G V D F L H C V I E T G E P Q | | | |
| UniRef90_J6GT95 | E G L L S R G V A N F H L C Y F L L T L L P Y F G I A P D L P D E A R G C | | | |
| UniRef90_W7XAY4 | Q L L L A E R A D A Q L I L R A F E L L L R D I L G L P D L A H E G N T L A A L | | | |
| UniRef90_UP1000365E3DE | K T L L A I L S H D L A T T L R R F E L L K F L Q E L G Y A I P L H V D A N D T P V Q | | | |
| UniRef90_UP10004644E2C | L G L L A K A F E E Q A W V L R K F E F Q L L G D L G Y G F D L S V D A N G G P I D | | | |
| UniRef90_R6ET67 | D A L L Q A D F S N Y H I Y F L L E F C I A L G F R P E T D M I P F T G E Y Q | | | |
| UniRef90_UP10004133C94 | T T L L D Q L P Q Y E N F H L Q F F L L K L T F L G F G I E K V Q D L L E M A | | | |
| UniRef90_S3JSL1 | D G L L C V S D D C E R G L L R F L W R L L Q T A G V A P D I F H C G T C G I E | | | |
| UniRef90_A4WVP2 | D A L L A A P G W P A A Y L R W E M R L L E E A G F G L D L T R C A V T G R E D | | | |
| UniRef90_A7HX50 | D T M R L D E D V W P A V F V R W E L G L L L Q E L G F G L D L T Q C A A T G R D D | | | |
| UniRef90_D2TX91 | Q I L L A G S E S P E H A L R R F E L S L L S H L G Y G V D F L H C S G S G E P G | | | |
| UniRef90_D7J0D1 | S L L L D F T C D N T L V S L I F L L E Y G R R L G I Y P N T E T Y S E | | | |
| UniRef90_UP1000475535C | Q A L L S F N Q Q T A Q A L R Q F E W C L L Q S L G V A P D L R Q D E H E Q A L D | | | |
| UniRef90_Q3AZ53 | E R L L E S H A D D A D L V L A G S I H H L L T L G G Y G L P M Q S C C L S G A P L | | | |
| UniRef90_UP1000344F5D4 | Q Q V N G V K H I L A C L N H G T Y H L L A I A G V A P Q V H S C L S Q Q P W | | | |
| UniRef90_G4R625 | D D D W H P L D A A E L A R F E M Y L L E E L G F G L D L D E C A I S G A N D | | | |
| UniRef90_A0A059FBK1 | D Q I I E A R E I W P A L Y V R W E L G L L S A L G F G L D L D E C A I S G A N D | | | |
| UniRef90_U1KXV3 | D Q L I A S K H Q F E L T L R S F E F Q L L E Q L G F G V E F D C D A D G E A E T | | | |
| UniRef90_Q8EW65 | L Q L L A S K H Q F E L T L R S F E F Q L L E Q L G F G V E F D C D A D G E A E T | | | |
| UniRef90_UP1000474C4B8 | A R L L G T Q F A A A T P G I I W E I I I T D L G Y G L D L S R S C H S H C S K N | | | |

lupas_21
lupas_14

lupas

jnet

cont
sol25

50|25
50|5

sol0

jhmm

The figure illustrates a DNA sequence with two main sections. The top section consists of a series of 9s and 8s, with three red bars above the sequence at positions 4, 8, and 13, indicating recombination events. The bottom section consists of a series of B's, with two red bars above the sequence at positions 8 and 13, indicating recombination events.

This figure displays a multiple sequence alignment of UniRef90 protein sequences, focusing on a specific region spanning positions 90, 100, and 110. The alignment includes 120 distinct UniRef90 entries. The sequences are color-coded based on conservation, with black representing the most conserved amino acids and red representing the least conserved. The alignment shows a high degree of conservation across the entire set of sequences, with many positions being identical or showing conservative substitutions.

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
inssm

UniRef90_C3X4M0
 UniRef90_B9JUP0
 UniRef90_C6XGB8
 UniRef90_K6V8X9
 UniRef90_C6WX86
 UniRef90_A8PNX8
 UniRef90_G8NCY9
 UniRef90UPI0002D25C09
 UniRef90_M3JRK3
 UniRef90_C1D7L6
 UniRef90UPI000424364C
 UniRef90_W4HJK1
 UniRef90_B0VHW0
 UniRef90_Q47EF5
 UniRef90_B6AR44
 UniRef90_N8YA04
 UniRef90_B5JWZ7
 UniRef90UPI00036BB2F7
 UniRef90_D7DJV3
 UniRef90_A8LLE2
 UniRef90_B3DX96
 UniRef90_A1S3Y3
 UniRef90UPI0003635941
 UniRef90_S9SKV7
 UniRef90_D3HIV5
 UniRef90UPI00037F8FDC
 UniRef90_B6JGG5
 UniRef90_Q7TTW6
 UniRef90_D5QG51
 UniRef90_R5ZZH1
 UniRef90_K2AKV3
 UniRef90UPI00034687A0
 UniRef90_Q253B1
 UniRef90UPI00047A159B
 UniRef90_A3PGG1
 UniRef90_Q7VDI1
 UniRef90_Q14P62
 UniRef90UPI000370F9F8
 UniRef90_G7Y9A2
 UniRef90_A0A059INZ7
 UniRef90UPI00038162E9
 UniRef90_J9GP37
 UniRef90_G9ZCW4
 UniRef90_V4QTY8
 UniRef90_K2EJN5
 UniRef90UPI0003043718
 UniRef90_C4K3Z5
 UniRef90_J6GT95
 UniRef90_W7XAY4
 UniRef90UPI000365E3DE
 UniRef90UPI0004644E2C
 UniRef90_R6ET67
 UniRef90UPI0004133C94
 UniRef90_S3JSL1
 UniRef90_A4WVP2
 UniRef90_A7HX50
 UniRef90_D2TX91
 UniRef90_D7JD01
 UniRef90UPI000475535C
 UniRef90_Q3AZ53
 UniRef90UPI000344F5D4
 UniRef90_G4R625
 UniRef90_A0A059FBK1
 UniRef90_U1KXV3
 UniRef90_Q8EW65
 UniRef90UPI000474C4B8

130 140 150
 V R E D Y A D P Q T Q [Q S K H L M R F L L] A H H [D G V]
 K E E Q T [D A D S L K S A F Q L T D Y F [N K Y]
 G A D F S Q P Q L Q L L S R L Y R Q M I T S L L G D R P [L K S]
 [L H D D Y S D E Q T Q Q Q S K Q L M R Y L L A H Y L G D
 A L A Y L E E A P L E R L F L A L K G H A E E A L G P [L R S]
 [V L K M A K I I M R Q A I D H L L G G L K S R S L
 A S A V L R E A R F L N R A L L T H A L G T E L A S R A L L
 A S G R D V P D N L A R A S R D F M R A L I D A H L G R P [L Q T R G L L]
 A G S G N A A P S D I V T A L E T T G H F L T H H
 [L E D I I I N R A V V N E I N T V F E L Y W E A H
 E D F S D P R T R H E A K A L M R M L M A Y Y L
 A E I P G D P V L G R S V E F L D R I L S C [R V K D W R T I]
 M D F N P E Q L Q L L G K L Y R Q M I S A L L G D R P [L K S]
 [L R Q R Q W D E E S L L A A K R I C R E L I A F H L
 V F K L G L Q N L E L K K L I N H L D V Y F K Y H L D G Y K E R R S
 A S D D Y N N I Q T Q Q Q S K Q L M R Y L L A H Y L G D

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

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

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

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

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

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 solo
 jhmm
 jpssm

