

QUERY 1 10 20 30 40
UniRef90_G8C0U8 A F E K E R E L L V A T Q A V R K A S L L T K R I Q Q S E R V I S H K D S T T I T K N D D
UniRef90_G8JQP1 A F E K E R E L L V A T Q A V R K A S L L T K R I Q Q S E R V I S H K D S T T I T K N D D
UniRef90_A0A024S8A8 A Y E K E L L V A T Q A V R K A S L L T K R I Q Q S E R V I S H K D S T T I T K N D D
UniRef90_R0KfV6 A Y E K E L L V A T Q A V R K A S L L T K R I Q Q S E R V I S H K D S T T I T K N D D
UniRef90_H6C1R2 A Y E K E L L V A T Q A V R K A S L L T K R I Q Q S E R V I S H K D S T T I T K N D D
UniRef90_N1Q2I9 Y S K E L L N A A L L A V Q R A S I L T T K S V F F H H Q N A K G T L S K S D D
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UniRef90_B6JYN5 S F Q K E L L V A T Q A V R R A S F L T T K Q V F S N E S L V Q L R Q K G A I T K S D D
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UniRef90_J4WKP1 M N P M L N T A I R A A R K A G N V I A K G Y E R R D D L Q T T L K S T
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UniRef90_B7VHG7 M E L L N L A I K A S L D A G K E I L D V P F W Q G D L L D V Q S K S D
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UniRef90_B9HRJ2 E Q Q L L A V V A J A R H A G R A I M D V Y K Q E L A V V I K Q D
UniRef90_M9RXA7 L L N V M M G A R K A A R S L V R D Y G E L L E N L Q V S R K G P
UniRef90_UPI000395B0AA K E L D A A V R A V Q V A C F L C Q K L Q D S L I S K S R S N N L
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UniRef90_UPI000410E587 F L A S A I N D A A K A G E L I R K G F Y Q T K H V E H K G V
UniRef90_R9PF75 A V A I N T A A K A G E W I K S R V G E I R R V D V K Y S P
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UniRef90_F5LSF3 M H P M L N I A V R A A R K A G N V I A K A Y E Q P E S V E A T Q K G A
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| QUERY | 50 | 60 | 70 | 80 |
|------------------------|---|---|----|-----------|
| UniRef90_G8C0U8 | N S S P V T T G D Y A A Q T V I I N A I | K S N F P D D K V V G E E S S S G L S D A | | |
| UniRef90_G8JQP1 | N S S P V T T I G D F G A Q A L I I N A I | K S N F P T D D N I V A E E E S S A A G L K D D E | | |
| UniRef90_A0A024S8A8 | N S S P V T T I G D F G A Q A L I I A S I | K H N F P D D D A I V A E E E E S S D D L T D D D | | S A |
| UniRef90_R0KFV6 | S S S P V T T I G D F G A Q A L I I A S I | K H N F P E D E I V V G E E E E D | | S A N |
| UniRef90_H6C1R2 | K S S P V T T I G D F G A Q A L I I A S I | K H N F P S D D E I V V G E E E E E | | A S |
| UniRef90_N1Q2I9 | T S S P V T T I G D F G A Q A L I I A S I | K H N F P D D D E I V V A E E E E E | | A K |
| UniRef90_M2NJF0 | A S S P V T T I G D F G A Q A L I I S A L | Q H N F P S D D E I V V A E E E E E | | A K |
| UniRef90_B6JYN5 | Q S S P V T V G D F G A Q A V I A A N A I | H D A F P Q D D P I V V G E E E S A D F L R S D N | | |
| UniRef90_G8B5K7 | K S S P V T V G D F A S Q A V I N N A I | K L N F P Q D D E I V V G E E E S S Q D L Q D N | | |
| UniRef90_C4JGZ8 | F S S P V T K G D F G A Q A L I I Q A I | R T N F P E D E I V V A E E E E E | | A S |
| UniRef90_S8DT86 | K S S P V T V G D F A A Q A V V N T I L | S R T F P H D D P I V V G E E E S A D L R A D | | |
| UniRef90_M9LSC4 | K S S P V T V G D Y S A Q A V V N A I L | G S H F P D D D P I V V G E E E S S K D L Q K P | | |
| UniRef90_M3J1K2 | K S S P V T I G D F A S Q A I I N H A I | K I N F P N D E I V V G E E E S S Q E L Q E S | | |
| UniRef90_A3LUV9 | K S S P V T V G D Y A A Q A I I N Y A I | Q K N F P G D E I V V G E E E D | | S D T L R |
| UniRef90_F4P1F7 | K S S P V T I A D Y A A Q A V V N S L | K K A F P N D L I V G E | | |
| UniRef90_Q01D48 | R S I L V T L A D Y A A Q A I I S A R I | A Q D F P D M T L V G E E D A E A L T E G N | | |
| UniRef90_UPI000444A361 | K S S P V T V G D F S A Q A V V N T V L | Q Q A F P N D P V I G E E D A D D L R S N | | |
| UniRef90_UPI0002B4929D | D S P V T I A D W S V Q A T V S W I L | S E Y F G N I S I V A E E D V Q T L S T P | | |
| UniRef90_V4MJH3 | R S S P V T A A D Y G S Q A V V S L V L | E R E L Q P V K L S L | | L J A E |
| UniRef90_H1XWG7 | R S S P V T V A D F G S Q A I I C K R L | K E A F P E L D I V G E E D A Q S L R Q D | | |
| UniRef90_B4VJF6 | K S S P V T V A D L G S Q A V I C R A L | A M A F P D D L V V G E E D A S Q L R Q P | | |
| UniRef90_W9QI47 | D S S P V T I A D W S V Q A T V S W V L | S E S F G N V S I V A E E D V K T L S K A | | |
| UniRef90_D5SUU5 | K S S P V T M A D F G S Q A V I L E T I | G R A F P N D C L V A E E T | | |
| UniRef90_Q114M3 | K S S P V T V A D Y G A Q A L I C K A L | A E A F P N D P V V G E E D A T E L Q T P | | |
| UniRef90_UPI0002C350FB | K S S P V T V A D Y G S Q A L V S F V L | E R E F P S E S F S L V A E E D S G D L R | | |
| UniRef90_A1C949 | S T P V T I A D F A A Q A L I T G A V | H H V F P E D E F V G E E D | | S |
| UniRef90_K1W3N5 | K S S P V T V A D F G S Q A L I C K A I | S E A F P D D P I V G E | | |
| UniRef90_A0A059B9V0 | N S S P V T I A D W S V Q A T I S L L L | S E S F G T S N V S I V A E E D V H A L S | | |
| UniRef90_UPI000365FB21 | A S P V T V A D F G S Q A L I C E A I | A T A F P F D P I A E E D A S L L Q Q K | | |
| UniRef90_Q5AXE6 | D T P V T I S D F G A Q S L I A A I | H R H F P D D D I V G E E D | | S |
| UniRef90_D8U9Y8 | D S S P V T V A D Y G A Q A V V A W A L | Q R A D P S S R L S M V A E E D S A E L R | | |
| UniRef90_E0U796 | A S P V T I A D F G S Q A L I C Q G L | S V A F P D D D P I A E E D A T F L E Q P | | |
| UniRef90_U5DI66 | R T P V T I A D Y G S Q A L I C C R A I | A A A F P N D A I V G E | | |
| UniRef90_K9WE43 | R T P V T V A D F G A Q A L I C Q A L | G E A F P N D P V I G E E D | | |
| UniRef90_F2CUF8 | R S S P V T V A D W G V Q A T V S W L L | S D C F G D E S V S I V A E E D D K T L S | | |
| UniRef90_A0A022R1D1 | D S L V T V A D W S V Q A T V S W M L | S K S F G S K N I S I V A E E D I Q T L S | | |
| UniRef90_W5F5H6 | K S S P V T V A D Y G S Q V L V S L A L | N M E I V T S G S F S M V A E E | | |
| UniRef90_G1XTM6 | N S S P V T I A D F G A Q A L V F A S L | R N N F P D D N I I G E E D S G D L R S N | | |
| UniRef90_11KRI3 | K S S P V T V A D Y G S Q A L V S F L | E R E L P S E P F S L V A E E D S G D L R | | |
| UniRef90_UPI00030724FC | K S S P V T V A D Y G S Q A I I C R A I | A K S F P S D A I V G E E D A G E L R R A | | |
| UniRef90_UPI00042B1187 | Q T P V T V A D F G V Q A L V S L E L | S K L F P S I P L V A E E D S G F L R S N | | |
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| UniRef90_A1S540 | L S P V T V A D F A I Q A L L I A T F R H A F | P G D R F V G E E D | | A |
| UniRef90_E9FAT1 | N D F V T N V D K A A E A M I E V I R K S Y | | | |
| UniRef90_UPI000465CBC2 | Q T P V T I A D F S V Q A L I S L E L N R S F | P S I P L V A E E D S T F L R S S | | |
| UniRef90_W1P118 | N D Y V S E V D R E A E A I I Q T I K K Y P | P E H H I M A E E S G I K K G K K | | |
| UniRef90_UPI000366ED4C | N D F V T E V D K A A E A A I I Q T L K K Y P | P N Y G I | | |
| UniRef90_Q47FF3 | A T P V T V A D F A A Q A L L I S A L | H A A F P G D G F L G E E D S L A L R | | |
| UniRef90_E6R JL8 | N D L V T N I D K E A E | | | |
| UniRef90_B7VHG7 | D T P V T S A D L A A H K L T S K K L S E L T | P D I P V L S E | | |
| UniRef90_Q9CNV8 | N D Y V T N I D K A S E E | | | |
| UniRef90_U9VK79 | K S P V T V A D F G A Q A I V C K M L K D A F | P N D P I V G E E D A D D L R T P | | |
| UniRef90_E8T648 | R S P L T E A D L R S H R V I M N Y L R E T | | | |
| UniRef90_UPI00035EB955 | N D F V T E V D R A S E Q A I T E V L L K A Y | P Q H G I L G E E T G S T H | | |
| UniRef90_UPI000463AB42 | E S P V T V A D L A A H R L L A D G L R A L A | P D V | | |
| UniRef90_D5H8T6 | R T P V T A A D F G S Q A V I C K A L R D A F | P D D P V I G E | | |
| UniRef90_E1SRP4 | N D F V T N V D R D A E R A I V A T I Q K A Y | | | |
| UniRef90_UPI000476864B | R S P L T E A D M A A H N H I V T A L K D L T | P A L P V L S E E S D R I P F | | |
| UniRef90_U2XRR3 | G D F V S N A D L K A E K T I F E E L S H A R | P G Y G F I M | | |
| UniRef90_UPI00035F708F | N D Y V T Q I D K E A E K A I I N K I R Q S Y | | | |
| UniRef90_D1P3S6 | N D F V T N V D R E A E E Q | | | |
| UniRef90_T1IQ47 | I D L V T E Y D R K V E E F L F N E L R K K F | P H H K F I G E E T A S D M Q K V | | |
| UniRef90_Q2JP57 | A S P L T E A D L A A H H L I L Q G L Q E L T | P G | | |
| UniRef90_D8SQT0 | V D L V T E T D K A C E K L I F E L L Q K H F | P D H K | | |
| UniRef90_R9PJ D8 | N D Y V T N V D K A A E K S L I D T I Q N A F | | | |
| UniRef90_B9HRJ2 | L S P V T I A D K A A E E A M I S I L E N F | P S H A I F G E E N G W R C K E E | | |
| UniRef90_M9R XA7 | V D L V T E T D K A C E D H I S N H L K E H F | P H H K F I G E E T T A A C | | |
| UniRef90_UPI000395B0AA | N D F V T N V D K A A E E Q | | | |
| UniRef90_U1K7Y0 | K S P V T D A D L A A N D V I T A G L K A L T | P D L P I L S E | | |
| UniRef90_UPI000471DE1E | Q T P V T Q A D L A A H Q S I V S Q L K A L T | P T L P I L S E | | |
| UniRef90_H8FXR8 | S D F V S A A D L I K V E K T L R Q E L K K A R | P A Y G F L M | | |
| UniRef90_K7M0G4 | N S P L T V A G W S V K A T V S R I L F E C L E N E N V S I | V T E K E V Q T L | | |
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| UniRef90_A4BVM9 | Q S P L T E A D R A A H E H I L A R L Q E L T | P T L P I | | |
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| UniRef90_B5EPY6 | S S P L T D A D R A A H G I L L H G L H A L Y | P E I P F L S E E G D A I P Y | | |
| UniRef90_UPI00037C683F | N D F V T E V D Q A A E A | | | |
| UniRef90_UPI000410E587 | N D F V T E V D R A A E A | | | |
| UniRef90_R9PF75 | A T P V T S A D Y A A H H Y I M D A L S K L T | P E | | |
| UniRef90_D7DJX5 | N D F V T E V D K A A E G A I I D M L K D L Y | P T H G F L G E E S G E S N | | |
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| UniRef90_E3ECM2 | D L V T E V D K G A E E Q M I R R L I L T H F | P D H A L L G E E G V | | |
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| UniRef90_F5LSF3 | H D L V T E V D K G S E K M I R N L I L T H F | P H H A F L G E E G V | | |
| UniRef90_UPI00047AFB87 | D L V T E V D K G S E R L I R N L I G T H F | P H H S F L G E E G V | | |
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| UniRef90_R8ATQ2 | N D F V T N V D K A A E K | | | |
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 I I G E E S G V T E L T D D E P T W I V D D P I I V D D G T K S F I T G K P F G T L I A
 I I G E E S G V A E G K D S D Y Q W I V D D P I I V D D G T T N F I H G F P F C V S I A
 E S A E I S W Q R Q T W Q R Y W L V D D P I I V D D G T K F I K K N G E F T V N S I A
 E A A D I S W Q R Q T W S R Y W L V D D P I I V D D G T K E F L A G N E F T V N S I A
 E E G G E I G D D R S N R W L V D D P I I V D D G T T N F L H G I P F C I V S I A
 L E I I S R C N G G P S G R F W T L S P L D D G G G S S C G D Q H V V A L S
 A D I A Q S V R A G W H R W W L V D D P I I V D D G T K E F L S G E E F T V N S I A
 L P D Y T S R R D W P L Y W L V D D P I I V D D G T K F I K K N G E F T V N S I A
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 L A E E S G A S A E S S D S E Y Q W I I D D P I I V D D G T T N F I H G F P Q Y I S I A
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 I W I I D D G T T N F L H G M P Y C I S I A
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| QUERY | 170 | 180 | 190 | 200 |
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| | L V E N H R P L M G V V Y A P V S G V S Y Y A | | | |
| | V R I K G R T E V A V V Y D P I R N E L F T A T | | | |
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QUERY
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R K D W T R C
I P I L S E E D P
D G V
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 I
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 L G E E D S
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 K S H T W
 D P Q V F A Y L S E E T Y
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 L D A S I P V L S E E D C
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 P E A
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 V T P F P V L S E E G K
 P H H
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| | 170 | 180 | 190 | 200 |
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| UniRef90_N2JFA4 | L N D G S T P V I G I M | N Q P F T G E R F V I G T P | | |
| UniRef90_UPI00034C028E | L V I Q G T T P V L A V V A | I P E A E K L Y Y A T K | | |
| UniRef90_G7UQU5 | L V D N G E P T D A V I | F D P L R N E L F T A S R G A G A Q L N E R K | I R V S E | |
| UniRef90_G0HAF5 | L V H K G E A V V A V C | E M P L L G R R I T A R K G | | H G L F V |
| UniRef90_Q0VXS0 | L V E G D T P V L G V V V | H V P V T A V T Y M G K K | | |
| UniRef90_L0M9J5 | L I E H G K P V L G V V Y | A P V T K V M Y S A A E G K A W K E E | C D V | |
| UniRef90_A0A023D3G0 | L Q R Q T E M A A G I V | Y N P V A D E M F W A E K | | |
| UniRef90_A4CKB0 | C E K G K P I F G V I Y | V P V T R E L Y Y G D T R E G K S F K T | V L D Q N H T | |
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| UniRef90_UPI0004692832 | F L R A D V P Q L G L I | R M P A L G E V Y A G A | | |
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| UniRef90_I4F2W8 | L L D G D V P V V G L V S | A P A L H R R W W A A A | | |
| UniRef90_UPI000375B783 | L M R G N Q L I L G V S | N A P | | T F G S G Q L A Y A E |
| UniRef90_A5EUU0 | A S K Q G K L E I G L V | Y N P L T E D W F L A A | | |
| UniRef90_Q9VUW3 | L A I N K E L V L G I V | Y N P S A N E L Y S A | | W |
| UniRef90_UPI000444A1D2 | L I D E K R P V L G V I | Y N P F L D H L Y T G I K G Q G S Y | L T R G V P P A K L | |
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| UniRef90_V6L2J2 | L T E G D H P V V G L I | S A P A L H R R W W A V Q | | |
| UniRef90_UPI000379A0DE | L V V D G T P E V G V V | S A P A L N R R W W G A T G L G A Y L D D D L A | | |
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| UniRef90_D5UUQ3 | L L E D G V P T V G V V | S A P A L R R R W F A S A G A G A F A Q F | | |
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| UniRef90_A0QX86 | L L A D G E P V A G L T | W L P E T G E K Y S A L V G G P L Y S D G | | |
| UniRef90_W7E5X2 | L Q K R H E N V S G L V | Y N P V A N E M F W A E K | | |
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| UniRef90_T0RZD2 | L V I K G K P V V G V V | H C P M R K E T F S A S L G N G M K Y N G R V I F N D | | |
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170 180 190 200

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V K G E T V A G L I H D P V L G D T V V S L L T V D G H P E V A A V S L P A K G E V F R S D A E Y R G E T V V G V V E V P S R G E T F R A V L F V S Q G I T E L G G L Y N P A T Q E L Y L A R R S H Y A Q T I A L A V I E A N L P V A A V V Y A P D S S E M Y A A A L V R E R E T V A A W I L D V V E D S L T V A E A D K Q Y V L G L A L M S D V G T P E L A V M I A P K W P G G G L E V V A A L V E D E P V L G L V A A P S L S R R W W A G V V H Q G R P V A A A L V A P A L A E E F T A L E G G E A L K N G E P I S A A R W V A V K G Q P V I G V I H K P F E D S T A W A W L L S R G E P L I G F V H A P V G D A D Y E A V R G V P I W A T L I A L I D G V P V V G V V S A P A L R R R W W A V L R D G R P W L G A T E L P A L D Q R L C S W L V R D Q Q P V L A V L Y S P L G D E L Y T A E A I I E N G R P I V G V V Q C P A Q R E L Y A A V L I S S G K P L I G M L S A P A R E E W F S F A G R G S T L N G E A V S N G D N L R D V F A G L V I D Q Y S G D R Y V A S L A V Q G R V T V A A V G M P D L G Q V F T S A E S R A V A H L E D G R V T A G V V F D P I R D E M F V A E A L M Y K R E P V L G V V Y E P I T E R L F V S V L L T D G E Q V G A W V L D P L A G T L A V A R A G V V H Q G Q P T A G V L Y A P A L G E V Y Q A T R A G V A R K N G V E I A V L V V D G E I V L G V M G C P H W Q E S N K C I S G V Q E P F G T G L M V S H I T V S D E P I A S V T H Q P F V K D T N G R Q G I T Y W A W L T I G R P A D C A V S L P A I G E I Y T T D T V P A V G G E L T G R M V A S L L Y R G T P V F G Y V H L P L N Q S F H G L I V D G Q P V L G L V Q A P A Q G I L Y A G W V A A D V F I D G E I S H G W V Y D P T R R I T Y L G I S V F I D G E P H C G L V Y D C M K R D L Y H A K L W E R G G I T A A A V A Q P A L G A V Y S S G D E A D S V P A N S P L R V V V L W D A E V P I L G V V Y D I F R G D L Y S G L V G D A S W K N R A Q I D G R S V A G A V D V A R D V V Y T A T S L W E R G E L T V G V V A L P A L G V T L S S E G P L P A R A L P A A R G A G A V S I H N R P L M G L I S Q P Y H L E K T F T F K P K L Y F G H V D S S Q V I Y L 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210 220 230 240

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