

QUERY Y Y D V D L D R T 50 Q E D V E A L 60 K R M H E L A E K N Y D V I K K V S W H UniRef90_U4TCB4 Y Y D F A Y K R R S P L T P D D L T E A L I E K R M Q E E L L A K Q N Y D P V V V K Q K E M S W R D UniRef90_U1L153 Y Y D F A Y M E H S L T P A E D D L E E K I L I E K R M M L E E L L A K Q N Y D P V V V K Q K E M S W R D UniRef90_D3SG47 Y Y D F A Y R R R G F T A E E D D L E E K I L I E K R M M L E E L L A K Q N Y D P V V V K Q K E M S W R D UniRef90_Q30Y11 Y Y D F D Y E R R P F T A D D D L E E K I L I E K A E M D K E I I V K A A H P F E R S V L M S K R D D UniRef90_R1AUT9 Y Y D F D T S H K F F T P E D D L E E K I L I E K E M K K E L I V K A D D L D D V E T R R F E L D D R R D UniRef90_Q21KE0 Y Y D F A Y S R A F T P E D D L V V I E E K E M K E L I V K A D F D V T V T R R R V L L D R R D UniRef90_F9ZFD3 Y Y D F S Y K R R S F T F E D D L T A I E E K R M M L E L I S K A R D K I D R R K I L E R A UniRef90_UPI00036CEBFB Y Y D F A Y K E R P F T P E D D L L K I E A E M K K E L I V K A D H P I S R S V L M T L R D UniRef90_Q0BXC2 Y Y D F A R K E P F T T D D D F D K I E A E M R M E I L V D A D Y P I V R E R S V L G K D D UniRef90_Q4FNH9 Y Y D F S R K E P F T E D D L N K I E N K M K E I V D R D V P T T R E V V W K R D UniRef90_F7XUW5 Y Y D F A K S T P F H A E D D L Q V I E K K M L E E L N A N Q K I T R K V V S K K D UniRef90_F5REL8 Y Y D F S Y K R P F T P E D D L V A I E E K R M M L E E L A K A D I P V T R E V V W P R D UniRef90_H6SRJ6 Y Y D F A R A E P F S L D D L A Q I E E R M R E I V A R N L P I V R E V V W N S R D UniRef90_F3KF03 Y Y D V D L S E H R K F T D E D D M E K I E K R M K E L I V K T E N Q Y D V I K K K V S W H UniRef90_C8WOF7 Y Y D F D S E H K F T P A D D M E K I E A E M N K I L I V K E N Q P F K R V L S S R A UniRef90_M1ZJ92 Y Y D V D P P E P P K A Q D L P R I E E E M K K E I V A E N L P I S R H V L S R R E UniRef90_R7IKP9 Y Y D F S C K K P F T E E D D L S E A I E K R M D E L I V A A N A P I T H T R E V P T K A UniRef90_E1K0R5 Y Y D F A F E E S F N Q E D S L E E I E A E M Q K I I D E D D E V R R K E L P R A UniRef90_E4RLI9 Y Y D F Y S E K P F T Q D D M T K I E A E M V Q L I I N Q D Y D V I K K I T P R A D UniRef90_R6HWZ2 Y Y D F S V D V P F T P E D D L E K I E A E M K K E I V K E A D L P I Q R S T L D P UniRef90_A8PNG6 Y Y D F A L S H P F T P E D L E N I E K R M R E I V K Q D I P I Q R S T L D P R D UniRef90_I3Y987 Y Y D F A R D E T P P I K E D D L E K I E K R M H E I V K R D L P I V R E V V W D S UniRef90_B1R0N2 Y Y D F D M D T P P I K E D D L E K I E K E M N K I V K E N L K F E R I D V S K E UniRef90_U2EPR8 Y Y D F D K E G S F S A E D L T K L I E E M K K I V K E E L A L I E R F E L P S R E UniRef90_F8FCG0 Y Y D F S M E T S P L T P E D D L A K A I E K E M E R I A G R N I K I E S R R V S S R UniRef90_K1JK11 Y Y D F S Y S R P F T P E D D L K A I E E E M D E I V K R N I K I E R I E M S S R D UniRef90_UPI00036915E1 Y Y D I D L D R S L S P E D D L P A I E E E M K K I I Q E A D L E I V R K E V S S R N UniRef90_R7B6K3 Y Y D V M P A T P L S A E A D L P K I E A E M K K I I K E A L P L E R F T L P R N Q UniRef90_UPI0002F7C9E6 Y Y D D V E M E E P L I S A E A D L A K I E K H M T K L V K T N Y Q V I K K V V S W Q UniRef90_B8EES6 Y Y D I D L E H K L T Q D D I D A L I E K R M L Q L A K T N Y D V V V K R V V S W Q UniRef90_I3THX9 Y Y D F A L D R G P F T P E D D L A A I E A R M T E L L A R E R P V V K R R M L P R R D UniRef90_I4Y4F0 F Y D F A Y E R P F T P E D D L E R I E E A R M T R L A A T N H A V R R E L S R D UniRef90_R7L780 Y Y D F D V E K P P I S E E D F E K I E E M K K I I K E D L P L E R Y T L S R T D UniRef90_B5YLD2 Y Y D F D R D T P F T E E D L Q K I E K R M H E I I K S N Q P F I R K E I S K D UniRef90_D8GSB0 Y Y D M D A D F S F T P E L L E K I E G E M N K I I K E N E K L E R F E L T R D UniRef90_F9DVZ7 Y Y D D S P T P P I T A E D L P E L I E K E M K R I I G E N L P I V R H D V S R E UniRef90_N6VGC5 Y Y D F A R K Q P F T L D D L T L I E K K M R E I I Q R N K P F R K E L W S Y UniRef90_R9C782 Y Y D M K R C H S L T A N E L A A I E K 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| | |
|------------------------|-----|
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UniRef90_D7N5R2 EAARALFFFKD L R G E T Y K L E L I E D E M D D D E N I V S G L Y Y K I H Q G D Y Y D L M
UniRef90_CON1T3 DARALFFEARGET NYKLVRLI ED D E M D D D E N I V S G L Y Y K I H Q G D Y Y D L M
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UniRef90_A0A058ZK39 RAIRKHYEDANE P F K V V E L I E D R I P E D E T L S R M Y W H Q G D F W Q D L M
UniRef90_D3EB15 EAERIFQDND P Y K M E L I R E L P E D E V I S V Y R Q H Q G D F V D L M
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UniRef90_A1ARE5 EAVSLFSGMGGE NYKVE L I N D L A A E T V I S V Y S Q Q G F F S D L M
UniRef90_H6LK18 EAL EK V T K E G E Y K A E L I E N L P A D A D I S F Y S Q Q G E F S D L M
UniRef90_M9R663 VALKY Y E D R G G E P Y K I E L I N G I P G D E P L R M Y W H G D W Q D L M
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UniRef90_C0E9S5 EAVALMQEAGE P Y K V E L A K E H A E K V G D E K I S F Y K Q Q G E F V D L M
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UniRef90_B9KAN7 EAK E I F K D Q P Y K L E L I E E I E G D T V T I Y R Q Q G E F V D L M
UniRef90_J1RFX3 AAREELAD E P Y K L E L I G L K G M Y D N L D A K T G D L C W K D L M
UniRef90_UPI00038188AA DALKELEAHE P Y K C E L I G L K G G A T D E T S V E V G G T W S D L M
UniRef90_UPI00037072FD EALNHFS S L D E T Y K V E L I N D L E D G T I T Y R Q Q G D F T D L M
UniRef90_R9AGU8 K L L E L F A Y N K Y K Q Y I S S K I P D G S T T V Y R Q Q G P M I D L M
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UniRef90_D3Q4P5 DAARAE LA D E P Y K L L L V D D L T I Y D N L D A K S G D R V W G D L M
UniRef90_R6HKL9 EAKELFADDRFKLEHI D D L P T E G E I S V Y R H Q G S F I D L M
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UniRef90_E6LBU1 EALEKFKD D D D L K Q E V L A K I P S D E V S D E V I Y K Q G E F E D L M
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UniRef90_A1A1J8 EALAE E A D Q P Y K L E L I K D K E A H G K E L S F Y D N V D W K D L M
UniRef90_Q5NPH1 K L I S L W E S Q G E K F K A E W A K E L P E H G Q E L T I Y R A G E W F D M
UniRef90_F4AZJ2 EALDKYKAEGNE F K V E L I E N L E D G T I T F C D H D D F T D L M
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UniRef90_R7QP3 E A R H R I K E Q I D E P Y K L E L I S A L S E P I T V Y H I G D R W W D L M
UniRef90_R7KQB9 EAL E M F K D P Y K I D L I N E F P A D E V I T C Y T Q Q G E F T D L M
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| | 130 | 140 | 150 | 160 |
|------------------------|---------------------------------------------------------------------------------------------------------|-----|-----|-----|
| UniRef90_E6U6N9 | A G P H L V P D T T R G R V L K A F K F L L T S T S T G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_S6GSW2 | R G P H L V P N E N V K A L R S F K F L L M S N I A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_D7N5R2 | K G P H L V P E N V K A L R S F K F L L M S N I A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_CON1T3 | R G P H L V P S T T G M V L K A F K F L L T H V S A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_A6CKN9 | R G P H L V P S T T G M V L K A F K F L L T H V S A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_A0A058ZK39 | R G P H L V P S T T G M V L K A F K F L L T H V S A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_D3EB15 | R G P H L V P S T T G R I V K A F K F L L M S V A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_G4RDG7 | R G P H L V P S T T K D V L K A F K F L L T K V A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_UPI00035CDACO | R G P H L V P S T T G F I L K A F K F L L M N V A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_D4YFJ4 | R G P H L V P S T T G Y L K Y F K F L L L K L S S G A Y W H G D S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_M1LVY4 | K G P H L V P S T T G Y L K Y F K F L L L K L S S G A Y W H G D S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_D6Y2E1 | R G P H L V P S T T K A L I P A F K F L L M R S S A G A Y W R G D S E K N R P Q L L T R R I V Y G T A | | | |
| UniRef90_A4CN88 | R G G H L V P S T T G L A I K A F K F L L N V A G A Y W R G D S E K N R P Q L L T R R I V Y G T A | | | |
| UniRef90_UPI00047983CF | R G V H L V P R T A K I K V F K F L L L S T A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_I8HYU3 | R G P H L V P A S T G A K L K A F K F L L T K V S A G A Y W R G D A S D N N K M L L R R R I V Y G T A | | | |
| UniRef90_A8GR83 | R G P H S P A S T G V V K A F K F L L M K V A G A Y W R G D S A R N N E M L L Q Q R I V Y G T A | | | |
| UniRef90_F7XXR3 | R G P H L V P N M S F C H H F T L L Q K T S G A Y W R G N H K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_R5D5C8 | A G P H L V D S T T G R V L N A K L L T S C S G A Y W R G D S E K N R K M L L Q Q R I V Y G T A | | | |
| UniRef90_R5VJF5 | A G P H L V M T T T K P L K A F K F L L T S S S G A Y W R G S E K N K M L L T R I V Y G T A | | | |
| UniRef90_X1RRT5 | R G P H L V S S A G E I L K A F K F L L I N I A G A Y W R G H E R N P M L L Q Q R I V Y G T A | | | |
| UniRef90_E3KK63 | V G P H L V P N T G Q L I K A F K F L L K N S A S Y F L G D S E K A N D S L L Q Q R I V Y G T A | | | |
| UniRef90_F8KSF2 | R G P H L V P H H T G F L H F F K L T K L A G A Y L G G D E K A E S L L Q Q R I V Y G T A | | | |
| UniRef90_UPI00037930B7 | R G P H L V P S T T G R I V Q V F Q L L N V A G A Y W R G K S E N P M M Q Q R I V Y G T A | | | |
| UniRef90_W0IT18 | A G T H V P R Y T T K G F I K A F K F L L S I A G A Y H R G D E K K R K M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI00036CC6B2 | R G P H I V P S T T G F I K A F K F L L T N I A G A Y W R G D E K K K M L L Q Q R I V Y G T A | | | |
| UniRef90_M2N772 | R G P H I V P N T T G R I K A F E I L M K N S A S Y F L G D A K N D S L L Q Q R I V Y G T A | | | |
| UniRef90_L5N453 | R G P H I V P E S T T K W L G A F V L L T N V A G A Y W Q G D E K K K M M Q Q R I V Y G T A | | | |
| UniRef90_S0EW40 | R G P H V E P E S T T G W L G H V K L L T K V A G A Y W R A D A K N R E Q L L R I V Y G T A | | | |
| UniRef90_V4JDK6 | R G P H L V P H H T G W L K A F K F L L S L A G A Y W R G D E K N R M L L Q Q R I V Y G T A | | | |
| UniRef90_A1ARE5 | R G P H L V P H H T G W L K A F K F L L S L A G A Y W R G D E K N R M L L Q Q R I V Y G T A | | | |
| UniRef90_H6LK18 | A G P H I P Q N T S G I K A K L S L A G A Y W R G D S E K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_M9R663 | R G P H L V P N T T G Q V P S W K L L M S I A G A Y W R G D S D R T M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI00036C0BE4 | R G P H L V P M T T R H I P A A F T L T R V A A A Y W R G N A P Q L L Q R I V Y G T A | | | |
| UniRef90_C0E9S5 | A G P H L V P S T V S K V K A K L L T Q A T A G A Y W R G D A N N A Q L L V R I V Y G T A | | | |
| UniRef90_E6W563 | R G P H I P S T T G K L G A F K F L L S I A G A Y W R G D E K R P M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI0003B7019B | R G P H L V P N T T R Y I K A F K F L L E R A A A A Y W K G S E A N P M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI0004634453 | R G P H L V P S T T K H I P A F K F L L M R T A A A Y W R G S E K N P M L L Q Q R I V Y G T A | | | |
| UniRef90_B9KAN7 | R G P H L V P S T T G V V K H F K L L L S V S G A Y W R G S E K N P M L L T T R I V Y G T A | | | |
| UniRef90_J1RFX3 | R G P H L V P S T T R A I P A F K F L L M R S A A A Y W R G S E K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI00038188AA | R G P H L V P S T T K H I P A F K F L L M R S A A A Y W R G S E K N P M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI00037072FD | R G P H L V P D T T S Y I K A K L L T S V A G A Y W R G D E H R K M L L T T R I V Y G T A | | | |
| UniRef90_R9AGU8 | R G P H L V P H H T G K I K A F K F L L M N H S A S Y F L G D A K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_Q251L3 | A G P H I P S T T G V V K A F K F L L M N L A G A Y W R G S E K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_D3Q4P5 | R G P H L V P S T T R H I P A F K F L L M R S A A A Y W M G S E K N P Q L L Q Q R I V Y G T A | | | |
| UniRef90_R6HKL9 | A G P H L V P S A G K F I G A F K F L L M K L A G A Y W R G D A S Q R E Q L L Q Q R I V Y G T A | | | |
| UniRef90_A8FB30 | R G P H L V P S T T G K V K S F K L L T R V A G A Y W R G D A S Q Q V L L Q Q R I V Y G T A | | | |
| UniRef90_UPI0003627B18 | A G P H L V P E N T S E L N A I D I E S V A G A Y W R G D E K R Q Q L L Q Q R I V Y G T A | | | |
| UniRef90_R5FXP9 | R G P H L V P D T T S I K A K L L T V A G A Y W R G D V K R P Q L L Q Q R I V Y G T A | | | |
| UniRef90_F6ELK3 | R G P H T P T T K H I P A F R L T R T S A A Y W R G D Q V K R E D L Q Q R I V Y G T A | | | |
| UniRef90_C7N6X1 | V G P H L V L Y T K A L K A F K F L L T A V S G A Y W K G D K D N K M L L T T R I V Y G T A | | | |
| UniRef90_UPI00047E54CA | A G P H L V P N T S F I K A V K L I A I S G A Y W R G S N E K K N M L L T T R I V Y G T A | | | |
| UniRef90_E6LBU1 | R G P H A P N T K F L R F F K L T R I A G A Y L G S D E K N R M L L T T R I V Y G T A | | | |
| UniRef90_X1UQ22 | R G P H L V P S T T G Y I G V C K L L S V S G S Y W R A D E K R E N L L Q Q R I V Y G T A | | | |
| UniRef90_D6B9A1 | R G P H L V P T T R N I P A F K F L L M R S A A A Y W R G S E K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI000255DE16 | R G P H L V P N T T K L I N A F A L L M R S A A A Y W L G N E K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_E7QPH2 | K G P H L V P S S T G E I G G F T L L E T S A A A Y W R G D E E N D M L L T T R I V Y G T A | | | |
| UniRef90_D2PKV5 | R G P H V P A T G Y L G N F A L L M R T A A A Y W R G S E K N P Q L L Q Q R I V Y G T A | | | |
| UniRef90_K9YIG1 | A G P H V N H T G E I G N F A L L E S V A G A Y W R G D S E K N P Q L L Q Q R I V Y G T A | | | |
| UniRef90_D1CDN7 | R G P H V N E S T G K I G P F K L L S V A S A Y W R G D E K R P Q L L Q Q R I V Y G T A | | | |
| UniRef90_T0M3N9 | R G P H V P S T T G Y L K A F R L L S I A S T H Y K A D E N R D M L L V Q R I V Y G T A | | | |
| UniRef90_W4TF69 | R G P H V P S T T K Y L N A F A L L T K F S A S Y W K G D Q A N R D Q L L Q R I V Y G T A | | | |
| UniRef90_J5KGB7 | K G P H L V P S L N F I G A Y K L T T I S G A Y W K G D S S N T M L L T T R I V Y G T A | | | |
| UniRef90_A1A1J8 | R G P H L V P N T T R Y I K A F K F L L E R S A A A Y W R G S E A N P M L L S R I V Y G T A | | | |
| UniRef90_Q5NPH1 | R G P H L V P S T T G K L D A F K L T R V S A A Y W R G D E N N A M L S R I V Y G T A | | | |
| UniRef90_F4AZJ2 | R G G H I P N T G L I K A V K I M S V A G A Y W R G D E N K P Q L L T T R I V Y G T A | | | |
| UniRef90_Q5LEQ6 | R G P H L V P M T T A P I K A I K L T S V A S S Y W R G H E D R K M L L Y G T A | | | |
| UniRef90_B3EEC1 | T G P H L V P S T S R L K A V L L S N I S A S Y W R G D S S R E N M Q Q R I V Y G T A | | | |
| UniRef90_U7PLD5 | L G P H L V V D T G R I K A F A V L K H S A S Y F L G D A K N D S L L Q Q R I V Y G T A | | | |
| UniRef90_UPI000255CD11 | R G P H L V P H T K L I N A F A V M R S A A A Y W R G D A K N R Q Q L L Q Q R I V Y G T A | | | |
| UniRef90_U2P3Q7 | R G P H L V S T G A I K A I K I T S V A G A F W R G D A K N R E Q M T R I V Y G T A | | | |
| UniRef90_A6DET7 | R G P H L V P N T K Y L H N V K L L Q K V A G A Y L G G D S N K E M L L T T R I V Y G T A | | | |
| UniRef90_G4I3P5 | R G P H I P P T T K D I P A F K F L T R S S A A Y W R G D Q S N A S L Q Q R I V Y G T A | | | |
| UniRef90_E8PQ42 | R G P H V P S T T G R I P H F K L T H V S A G A Y W R G D E K R P M L L Q Q R I V Y G T A | | | |
| UniRef90_Q05R78 | A G P H V A N T S E L N A F E L E S V A G A Y W R G D E N N A Q L L Q Q R I V Y G T A | | | |
| UniRef90_A9SJF5 | A G P H V E R T G Q L N S I E L E S V A G A Y W R G D E K N Q M L L Q Q R I V Y G T A | | | |
| UniRef90_R7QPB3 | A G P H V E H T G Q L D S I A L E S V A G A Y W R G D E N K A M L L Q Q R I V Y G T A | | | |
| UniRef90_R7KQB9 | R G P H V A S T K E L R H F K L L K C S G A Y Y K G D S K N K M L L Q Q R I V Y G T A | | | |
| UniRef90_R6RNL1 | R G P H V D N T R L C R H F K L L T R H S A G A Y W K G D S S N K M L L Q Q R I V Y G T A | | | |
| UniRef90_I4B243 | R G P H V P A T G K L G V F K L L T V A G A Y L G G N A E N Q M L L Q Q R I V Y G T A | | | |
| UniRef90_R6BQ69 | A G P H L V M S T G V I K A V K L L T Q A T S A Y W R G D A A R D S M C R M Y G T A | | | |
| UniRef90_U1P8G6 | K G P H V P E S T G E I G A F K F L L N I S S Y W R G D E D N D T L L T R I V Y G T A | | | |
| UniRef90_R4SWY3 | R G P H V P T T G F I P A F K F L T R V A A A Y W R G D D K N P Q L L S R I V Y G T A | | | |
| UniRef90_W9BYR0 | R G P H L V A S T G R L D A F K F L T R V S A A Y W R G D Q Q N P Q L L S R I V Y G T A | | | |
| UniRef90_M1NT36 | R G P H I P T T T R Y I P A F A L T R S S A A Y W R G D Q D N A G L Q Q R I V Y G T A | | | |
| UniRef90_Q3M248 | A G P H I N F T G E I D A F K L L N I A G A Y W Q G D E T K A Q L Q Q R I V Y G T A | | | |
| UniRef90_R7WEB4 | A G P H V E S T G K I Q A V E L L E S V A G A Y W R G D E N N Q M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI0002DD8221 | A G P H V P N S T K E I N A F A L L N V A G A Y W Q G D E T K P M L L Q Q R I V Y G T A | | | |
| UniRef90_UPI00036380F9 | K G P H L V P S L K H I G S F K L L K L A G A Y W K G N S K N K M L L T R I V Y G T A | | | |
| UniRef90_C8PNP6 | K G P H V A N S K E I N A F K L L E K L A G A Y W R G D E K R P M L L T R I V Y G T A | | | |
| UniRef90_Q4JVC7 | R G P H L V P T T R Y I P A F A L T R S A A A Y W R G D Q S K A G L Q Q R I V Y G T A | | | |
| UniRef90_A0A022KW17 | R G P H L V P T T K L I G N F A L T R S A A A Y W R G S E K N P M L L Q Q R I V Y G T A | | | |
| UniRef90_K2J4Y6 | T G P H L V P S T G K L K A F K F L L R V S G A Y W R G D A N N D Q L L Q Q R I V Y G T A | | | |

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|------------------------|-----|
| UniRef90_E6U6N9 | F |
| UniRef90_S6GSW2 | WG |
| UniRef90_D7N5R2 | F |
| UniRef90_C0N1T3 | WS |
| UniRef90_A6CKN9 | F |
| UniRef90_A0A058ZK39 | F |
| UniRef90_D3EB15 | F |
| UniRef90_G4RDG7 | WA |
| UniRef90_UPI00035CDACO | F |
| UniRef90_D4YFJ4 | F |
| UniRef90_M1LVY4 | W |
| UniRef90_D6Y2E1 | W |
| UniRef90_A4CN88 | F |
| UniRef90_UPI00047983CF | F |
| UniRef90_I8HYU3 | F A |
| UniRef90_A8GR83 | WA |
| UniRef90_F7XXR3 | WG |
| UniRef90_R5D5C8 | F |
| UniRef90_R5VJF5 | Y T |
| UniRef90_X1RRT5 | F |
| UniRef90_E3KK63 | F |
| UniRef90_F8KSF2 | F A |
| UniRef90_UPI00037930B7 | W |
| UniRef90_W0IT18 | F A |
| UniRef90_UPI00036CC6B2 | F |
| UniRef90_M2N772 | F |
| UniRef90_L5N453 | F |
| UniRef90_S0EW40 | W |
| UniRef90_V4JDK6 | F |
| UniRef90_A1ARE5 | F A |
| UniRef90_H6LK18 | F |
| UniRef90_M9R663 | F |
| UniRef90_UPI00036C0BE4 | W |
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| UniRef90_R9AGU8 | F |
| UniRef90_Q251L3 | WA |
| UniRef90_D3Q4P5 | W |
| UniRef90_R6HKL9 | F |
| UniRef90_A8FB30 | F |
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| UniRef90_R5FXP9 | F |
| UniRef90_F6ELK3 | W |
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| UniRef90_E6LBU1 | F A |
| UniRef90_X1UQ22 | |
| UniRef90_D6B9A1 | W |
| UniRef90_UPI000255DE16 | W |
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| UniRef90_K9YIG1 | W |
| UniRef90_D1CDN7 | F |
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| UniRef90_Q5NPH1 | W |
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| UniRef90_Q5LEQ6 | F |
| UniRef90_B3EEC1 | F |
| UniRef90_U7PLD5 | F |
| UniRef90_UPI000255CD11 | W |
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| UniRef90_G4I3P5 | W |
| UniRef90_E8PQ42 | F |
| UniRef90_Q05R78 | W |
| UniRef90_A9SJF5 | |
| UniRef90_R7QPB3 | W |
| UniRef90_R7KBQ9 | Y |
| UniRef90_R6RNL1 | F |
| UniRef90_I4B243 | F |
| UniRef90_R6BQ69 | F |
| UniRef90_U1P8G6 | F |
| UniRef90_R4SWY3 | W |
| UniRef90_W9BYR0 | W |
| UniRef90_M1NT36 | W |
| UniRef90_Q3M248 | W |
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| UniRef90_C8PNP6 | W |
| UniRef90_Q4JVC7 | W |
| UniRef90_A0A022KWI7 | W |
| UniRef90_K2J4Y6 | F A |

| | 1 | 10 | 20 | 30 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_A3LWK8 | P | E | G | K | A | V | F | W | H | S | S | A | H | I | L | G | E | A | V | R | R | H | H | Y | G | S | H | L | S | H | G | P | P | T | E | D | D | G | F | | | | | | |
| UniRef90_B0R6G6 | Q | S | D | E | Y | L | D | V | L | R | H | T | A | A | H | V | L | A | Q | A | V | R | N | L | F | P | G | G | T | Q | L | T | F | G | G | P | Y | T | T | D | D | G | F | | |
| UniRef90_UPI0003B46CF3 | E | D | P | D | E | A | A | E | I | L | A | R | H | T | M | S | H | V | L | A | Q | A | V | M | R | L | Y | G | K | V | K | L | T | F | G | G | P | S | T | D | D | N | G | F | |
| UniRef90_H9UC13 | E | E | E | D | G | R | M | V | F | W | H | S | S | A | H | I | L | G | E | A | M | E | R | V | Y | K | G | G | C | F | L | T | G | G | P | P | V | I | E | E | N | G | F | | |
| UniRef90_A0A024FSY9 | E | D | E | E | A | Q | A | V | V | Y | W | H | S | S | A | H | I | L | M | G | E | A | M | E | R | V | Y | T | D | D | A | K | F | F | V | G | G | P | P | V | I | K | E | G | F |
| UniRef90_P26639 | S | P | D | G | L | N | V | L | R | H | S | S | A | H | V | L | M | A | Q | A | V | Q | E | Y | R | K | D | A | K | L | G | I | G | G | P | Y | I | E | D | D | G | F | | | |
| UniRef90_E4TWU4 | K | E | D | E | A | K | L | S | V | L | N | H | S | C | A | H | L | L | A | Q | A | V | K | H | T | Y | P | E | A | K | F | V | W | V | L | T | E | E | D | D | G | F | | | |
| UniRef90_D2NSY9 | K | S | E | A | G | K | T | F | W | H | S | S | A | H | V | L | L | A | Q | A | V | E | L | V | Y | G | G | Q | L | E | L | V | Y | G | G | P | A | T | T | Q | D | D | G | F | |
| UniRef90_R7NGN2 | D | A | D | A | L | P | L | L | R | H | S | T | A | H | V | L | A | Q | A | V | S | E | L | F | S | D | T | A | L | L | A | T | G | G | P | A | T | T | E | H | G | F | F | | |
| UniRef90_UPI00047228FA | S | P | A | G | L | E | I | L | R | H | S | C | T | H | V | L | M | A | Q | A | V | Q | E | L | F | P | D | V | N | L | L | G | I | G | G | P | F | F | T | D | D | G | F | | |
| UniRef90_L1PFV7 | S | P | D | G | L | S | V | M | R | H | S | S | A | H | V | L | M | A | Q | A | V | Q | E | L | F | R | E | A | K | L | G | I | G | G | P | P | V | I | E | D | D | G | F | | |
| UniRef90_UPI00047E3920 | R | E | D | E | R | L | N | L | N | H | S | S | A | H | V | L | L | A | H | A | V | K | R | L | Y | P | E | A | K | F | V | W | V | G | G | P | V | I | E | D | D | G | F | | |
| UniRef90_F5WTI0 | S | K | E | R | A | L | A | T | L | R | H | S | V | S | H | V | L | M | A | Q | A | V | T | R | L | F | P | G | G | T | Q | V | L | L | G | G | P | S | I | E | D | D | N | G | F |
| UniRef90_F8F3Y5 | S | D | E | E | A | K | A | V | Y | W | H | S | S | A | H | I | L | G | E | A | M | E | R | T | F | G | G | C | L | C | Y | G | G | P | P | I | E | D | D | N | G | F | | | |
| UniRef90_H2YMU5 | D | K | R | S | L | D | L | I | N | H | S | T | A | H | I | L | M | A | Q | A | I | K | R | L | H | P | H | A | M | F | G | V | I | G | G | P | Y | I | K | E | G | F | | | |
| UniRef90_U4KKE3 | S | N | S | E | G | R | D | T | F | W | H | S | S | A | H | I | L | G | E | S | L | E | R | V | L | F | G | C | L | C | Y | G | G | P | C | T | T | D | D | R | G | F | | | |
| UniRef90_W5CSS1 | R | S | D | E | A | L | R | V | L | R | H | S | S | A | H | V | L | F | A | R | L | Q | R | L | H | P | E | A | R | L | K | L | G | I | G | G | P | P | T | D | D | G | F | | |
| UniRef90_J3JHD0 | S | P | D | G | L | R | D | I | L | R | H | S | S | A | H | V | L | A | Q | A | V | Q | D | V | F | P | D | V | D | L | G | I | G | G | P | F | I | T | D | D | G | F | | | |
| UniRef90_U1R9K4 | S | P | E | A | R | Q | V | F | W | H | S | S | A | H | V | L | L | G | E | A | C | E | R | R | Y | E | G | C | C | L | G | Y | G | G | P | E | E | K | P | G | F | | | | |
| UniRef90_Q5KMU3 | S | P | E | A | Q | N | V | F | W | H | S | S | A | H | V | L | G | Q | A | M | E | C | E | F | F | G | A | L | L | T | V | I | G | G | P | A | L | E | K | P | G | F | | | |
| UniRef90_U6L9U7 | D | E | M | G | K | K | A | F | W | H | S | S | A | H | V | L | L | A | Q | A | I | L | E | F | Y | P | E | A | K | L | T | I | G | G | P | A | L | E | K | G | F | | | | |
| UniRef90_UPI00036B1237 | D | D | P | D | A | G | L | E | I | L | R | H | S | C | T | H | V | L | M | A | Q | A | V | Q | E | L | F | P | D | V | N | L | L | G | I | G | G | P | F | F | T | D | D | G | F |
| UniRef90_Q17LW8 | E | E | D | G | R | A | V | I | R | H | S | S | A | H | V | L | M | A | Q | A | V | Q | E | L | F | R | E | A | K | L | G | I | G | G | P | P | V | I | E | D | D | G | F | | |
| UniRef90_C3PGS1 | Q | S | D | E | Y | Q | R | V | L | R | H | S | S | A | H | V | L | A | Q | A | V | Q | R | E | Y | P | D | A | K | L | T | I | G | G | P | P | T | D | D | G | F | | | | |
| UniRef90_Q18H54 | S | P | A | G | L | A | I | L | R | H | S | S | A | H | V | L | L | A | Q | A | V | Q | Q | A | N | A | D | A | K | L | G | I | G | G | P | P | T | D | D | N | G | F | | | |
| UniRef90_UPI00036120B1 | S | Q | E | G | R | E | V | F | W | H | S | S | A | H | V | L | M | L | A | Q | A | V | L | E | I | F | P | E | A | K | F | V | W | V | L | T | E | E | N | G | F | | | | |
| UniRef90_UPI000150A13E | D | N | D | P | L | Y | R | L | R | H | S | S | A | H | V | L | L | A | Q | A | V | L | E | I | F | P | E | A | K | L | A | I | G | G | P | P | V | V | K | E | N | G | F | | |
| UniRef90_A9B2N7 | K | A | D | E | R | L | N | T | L | N | H | S | C | A | H | V | L | M | A | Q | A | V | K | H | L | Y | P | E | A | K | F | V | W | V | L | T | E | V | V | K | E | N | G | F | |
| UniRef90_G2SYJ7 | S | P | E | A | Q | N | V | F | W | H | S | S | A | H | V | L | L | A | Q | A | V | L | E | N | E | F | G | A | L | L | T | V | I | G | G | P | P | I | E | N | G | F | | | |
| UniRef90_U6GN30 | E | P | D | G | L | A | V | L | R | H | S | S | A | H | V | L | L | A | Q | A | V | Q | V | N | P | D | A | K | L | G | L | G | I | G | G | P | P | V | L | T | D | D | G | F | |
| UniRef90_UPI0003778FAC | Q | S | D | E | Y | L | D | V | L | R | H | S | S | A | H | V | L | A | Q | A | V | L | G | R | L | Y | P | D | A | K | L | T | I | G | G | P | P | W | T | D | D | G | F | | |
| UniRef90_G1Q8M3 | S | D | E | K | L | Q | T | L | R | H | S | C | A | H | V | L | M | A | E | A | V | L | N | L | F | P | G | T | K | L | A | I | G | G | P | A | I | E | N | G | F | | | | |
| UniRef90_M0MZR0 | S | Q | E | G | K | T | A | F | W | H | S | S | A | H | V | L | L | A | Q | A | V | L | E | N | F | P | D | S | K | L | T | I | G | G | P | A | L | E | N | G | F | | | | |
| UniRef90_F2NWT7 | E | P | E | G | K | R | V | F | W | H | S | S | A | H | V | L | L | G | E | S | C | E | C | Y | G | C | F | G | A | H | I | C | F | G | P | T | E | D | D | G | F | | | | |
| UniRef90_G8R7H3 | E | S | D | K | L | K | R | I | R | H | S | T | A | H | V | L | M | A | M | A | V | Q | K | L | F | P | K | A | Q | V | T | I | G | G | P | W | T | E | T | G | F | | | | |
| UniRef90_U6GN30 | D | G | D | A | K | T | T | F | W | H | S | S | A | H | V | L | L | G | E | A | L | E | H | V | F | P | G | S | R | L | L | G | I | G | G | P | P | L | A | N | G | F | | | |
| UniRef90_K0TA00 | S | D | E | G | R | G | V | I | R | H | S | S | A | H | V | L | M | A | Q | A | V | Q | A | E | F | P | G | T | K | L | G | I | G | G | P | P | A | V | E | N | G | F | | | |
| UniRef90_C2GI07 | D | N | D | P | Y | Y | R | L | R | H | S | L | A | H | V | L | M | A | E | A | V | L | Q | I | F | P | E | E | G | K | V | A | L | G | G | P | P | I | E | H | G | F | | | |
| UniRef90_E1IAZ9 | N | E | D | A | Q | A | V | Y | W | H | S | S | A | H | V | L | L | G | E | A | M | E | R | F | Y | G | G | C | L | C | Y | G | G | P | P | I | E | N | G | F | | | | | |
| UniRef90_UPI0002A4B754 | E | D | P | E | G | R | E | I | F | L | H | T | S | A | H | V | L | L | A | Q | A | V | L | R | L | W | P | D | D | A | L | P | T | I | G | G | P | V | I | D | H | G | F | | |
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Y Y D A F M G N S W Q S E T E W S V L E K T C Q K I V K E N Q N F E R L V L T K E E
Y Y D M Y L E E G V S S E D D F S T I E A L C K K I K E K Q A F E R L E V I K K N
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Y Y D D L G D T L T S E D D L P A I E K E M K K L A K D G K R L V R Q E L T K K D
Y Y D M A T G D K V S E D D Y E I I Q E V V N K I V A E K Q P F E R L A V P R
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Y Y D V A N V D L D T D D L A D I E E A E M A D I V E E D L P I E R L V L D R E
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Y Y D C Y M G K S L S E S E H Y G L N A A A Q R L V A E K Q P F E R L V C T K E
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130 140 150 160

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R F D F S H F E A V T A A E L Q Q V E D D V N E Q I R N N N P I L E T R L M A I E
R F D I S H P K P L S A A E L R V V E D D V N R E I R A N A E I T T Q Q L M D P D
Y C D V Q L G R P I L S E D A T K I K Q R M Q E I I D C K M P L R R F E Q P T D
F V R L P G I T L H R Q E I V R I E N E M R R L V E L N L A F T A K Q W T R E
R F D I T H F E A M T E D E L A R V E K I V N E K I A E K L P V V T A D I M T V D N
R F D F S H F G Q V T K E E L L E Q I E T I V N E Q I W A S L P V V N T R I L K N L N
F G E I H K K G E P L T E Q E V N N I K Q A M Q K L I D K N Y P I K R I K V K G E
R F D F A H F E P M T Q E Q I R Q V E S I V N A Q I R A N T S V S T E V M G M D
R F D F S H F E A M K P E E I R L V E D L V N E Q I R R N M P V F Q T E V M E L D
Y C D L R I G R P I L S E D D V T A I W R R M R E I V D A D P F H R I Q S P T E
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R F D F S H N K S V S A D E Q I A A V I E A Q V N A V I R Q N V P V S T R E M S P D
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F C G I N N R Q E T S Q E T T D R I E K A R M R K I I A D N L P F Q R I E C K T S
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Y C T V D G D I K L T E Q F L A D V A K R M R W L S D E K I P I K K K T I H T D
F C R V I G L E T T P R E L R A R I E A E M R R L H Q A D I P F V L H E A P T E
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Y L D T D K A D A Q V S V D E L E D L K D R M Q K L I A E K P E I E R Q M M D
V C N I E G I E S T P E N L L Q I E E R M R E L V K E D I V F E K A T L R K F
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Y C D V V N D W K P T N D N F C S L T R D A K K L I H Q D L P F E T L H V E A K
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| UniRef90_UPI0003747FCC | | H T A T H L L H A A L | R A L R L L G S | G V R Q A Q G S | L V A A A D R R L L |
| UniRef90_W2UKE0 | D S R N N T A A N | H T A T H L L H Q A L | R R T L L G S | G T H V R Q Q A | G S L V D K A D Y L L |
| UniRef90_UPI00047BAC1B | | H T A T H L L H A A L | R E L L G T H V | V K Q A G S | V V D E A Q H L L |
| UniRef90_E1YM14 | | N H T A T H L L | H F L K R L L | G D H V K Q A | G S F V S S E R L L |
| UniRef90_R5UP11 | | N H T A T H L L | D H A L R E L | L G E H V V Q | K G S Y V G S E E N L L |
| UniRef90_UPI00047D6E9A | | N H S A T H L L | H A A L R E L | L G E H V V Q | K G S L V N E N L L |
| UniRef90_X1R6H5 | | L D L V R H S T A H | V M A Q V V L S M | F P E A K L G L | G P A I D D G G F |
| UniRef90_J9GLK0 | S S S G M R T Y | T R S L F F V L Y | K A V R D L Y | P K A H L R L | D T P V P V N G Q Y |
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| UniRef90_R5T8D5 | D D S G H K T Y | V R G A T L L M L | R A F Y A V | C K G Q P L E N | V Y V T G D S C |
| UniRef90_UPI00046A3CC8 | | N H T A T H L L | D Q A L R E L | V G G E R T H | Q A G S L V A P P E R L L |
| UniRef90_E0MJM2 | | N H S A T H L L | V H E A L R E L | V G G D H V S | Q A G S L V A P P E R L L |
| UniRef90_E7G7N0 | | N H T A T H L L | Q K A L R K T | L G E H H V S | Q S G S Y V D A E R L L |
| UniRef90_UPI000309E14F | | V R N H S A T H L L | M H K A L R Q L | L G E H H V S | Q S G S Y V D A E R L L |
| UniRef90_M2B6A3 | D R E G S N F Y | R R T L C L I | L A A A A K E L | L Y P G L R L L | M G H S L D Y G Y |
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| UniRef90_UPI0002195DAD | | L I N H T A T H L L | D Q A L R R N | L G G D V H Q | A G S L V A E P E Y L L |
| UniRef90_UPI0001DD0471 | D E Q R R N R | L I N H S A T H L L | H A A L R R R | L G D Q V T Q | K G S L V A E P E Y L L |
| UniRef90_R7F391 | | N H S S V H L L | Q N S L Q E L | L G D T V H Q | A G S Y V D E N Y L L |
| UniRef90_UPI0003B72E0D | | N H T A T H L L | M L Q A A I R N L | L G S H S T | Q A G S L V T A E G L L |
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| UniRef90_D9SRU3 | D I K G H R A Y | V R T L Q F V L | I K A I N D L | F P T A R V T L E | H S L G K G I |
| UniRef90_F1NDS2 | E E V N K A Y | W R S C A M I | M A N V L K R A | F K D P E V P E I | A V I S G A F |
| UniRef90_A5Z3U2 | | G N E C Y R R S | A T F L M L K A F | Y A V A G R N K I S | V H C S V S K G Y |
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| UniRef90_D7GVQ9 | K E N A G Y K T Y | E R S A T F L M L | K A F Y E V I | P R R K T Q I D | F A L G N G I |
| UniRef90_UPI0003317086 | | Q A Y W R S C A M I | L G C V I E R A | F K D E Y V P E V | P V I A G A F |
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R F D F S H K K A V I T L Q E L A K I E A I C N K Q I F E S D L A V Y K D V P L L E
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R L D L S H Y K R I K R D E I K R I E L I A N G T V M E N K R V V T E W V N R N
R F D Y S A Q A G L T P D A D L R A E I E R C N V A I K D S D L T I T D T Q M P L L E
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Y C N V I R M E E K L T E E M V A R I R Q R M K E L I E A D L P I T K K Y S Y P K D
T L D I T H Y R S L T F D E E A R A I R R E A N R M I D N D N I P I R K Y Q L P K N
R F D F S H K Q G V N V Q E L K K I E D I S I D W I K R D V G V F S K E M P L D Q
Y C E L A P E I E L T A N F I A Q L K Q E K M L E I V A S N T A I I E Y N R M P K Q K
Y S V T F A A E P R I K E A L V E I Q N K V N E L V A G N H I K S D K L S L D
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Y C N V K M E E K S L S D A H V K A I R R R M L T K A D I P I T Y R S Y F E S R T
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R F D F S H K S G V S D T D L Q R I E D I S T E Y I R K N C P V Y A K D V P L V
R F D F S Q K T A P T L D E V K K I E K L S N E K I R K N L V V Y S Q D V P F A
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F A I T F E V E P R I G L D Q L I T I Q N E V N I N L L K S E T I K S N K I T
Y C A K K G E F E V T D S L V T Q I K A K M Q E Y I D K D Y C I I K K S M P I E
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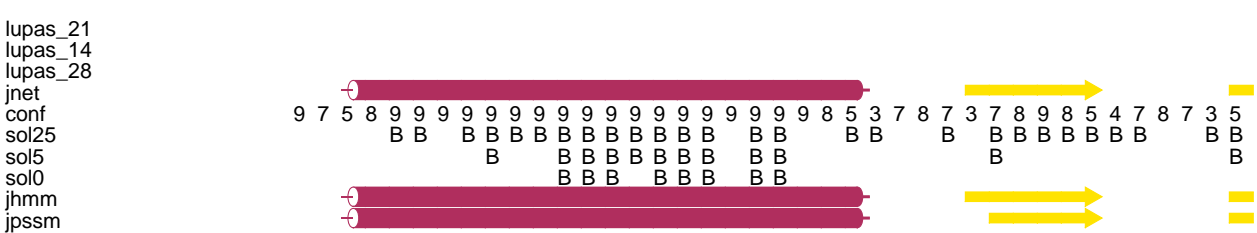
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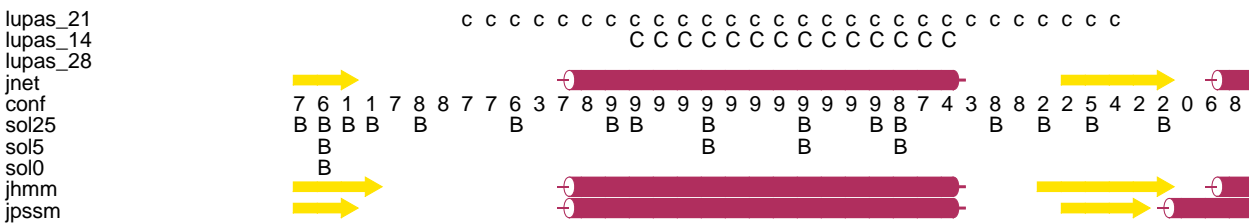
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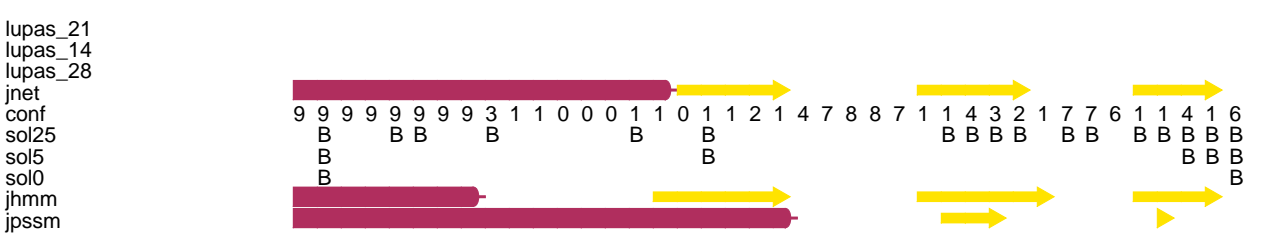
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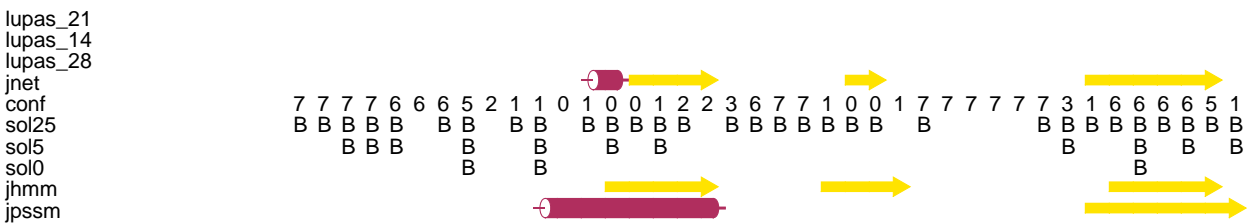
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| UniRef90_F4PJC7 | S L I D L L N K G N N K Y G L D E L E Y K K N G D E E F I V I C N G Q D N Q L G | | | |
| UniRef90_UPI00029AB285 | E A K E I G A L A L F D E T Y G E K V R V V E I G G A W E L C C | | | |
| UniRef90_R6FDL8 | E A E G R F D L N R L P D D A S S T V R V V K V G D Y D E C | | | |
| UniRef90_UPI00045DC82A | G L R C L D E V Y P D P V R V V S V G V P V A H A D P A S Q A A L Q T S V E L C C | | | |
| UniRef90_A8WTA2 | E A K K I K N L Q S D V K E D R I G D S S V R V V T L G S G V N V S V E C C | | | |
| UniRef90_J4C7R5 | Q A L E I P G I R A N F D E K Y P E V V R V V N V D M G H T D F N G E S T E V C | | | |



| | | 130 | 140 | 150 | 160 | | | | | | | | | | | | | | |
|------------------------|---|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_U6PLU3 | S | G | T | H | V | L | N | T | S | S | I | | M | D | F | A | V | | M |
| UniRef90_V6LRW9 | C | G | T | H | L | S | N | T | S | R | I | | | | | | | | |
| UniRef90_K4E8Q2 | G | G | T | H | L | S | N | I | K | | | | | | | | | | |
| UniRef90_D1Y4F8 | Y | S | P | M | V | P | S | T | G | Y | L | | R | P | Y | | | | |
| UniRef90_UPI000367BF15 | G | G | T | H | V | A | N | T | S | L | I | | | | | | | | |
| UniRef90_A8QF19 | C | G | T | H | V | L | N | T | S | D | I | | G | R | F | V | I | | |
| UniRef90_UPI000359A5A1 | G | G | T | H | V | T | D | T | V | D | L | | Q | E | F | C | | | |
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| UniRef90_F9XC87 | G | G | T | H | V | K | N | T | T | E | I | | K | D | L | V | L | E | E |
| UniRef90_Q7NBY8 | G | G | T | H | V | D | N | T | K | E | I | | E | E | C | F | L | T | N |
| UniRef90_C4LIV5 | G | G | T | H | V | D | H | A | S | Q | V | | | | | | | | |
| UniRef90_B8C356 | G | G | T | H | L | K | N | T | S | E | A | | Q | G | F | V | L | L | S |
| UniRef90_R7XXP6 | G | G | T | H | V | E | H | S | S | Q | I | | | | | | | | |
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| UniRef90_M0X0G1 | | | | | | | | | | | | | | | | | | | |
| UniRef90_I1A4K9 | G | G | T | H | L | S | N | S | N | K | L | E | N | F | K | I | T | N | V |
| UniRef90_D8LCV6 | G | G | T | H | V | G | N | T | R | E | A | E | A | F | V | I | T | E | E |
| UniRef90_K7Z5T3 | G | G | T | H | L | R | R | S | G | H | I | | V | D | F | V | I | S | E |
| UniRef90_I3R845 | G | G | T | H | V | S | N | T | I | E | I | | | | | | | | |
| UniRef90_F4PJC7 | L | D | C | T | L | P | S | T | G | Y | I | | K | A | F | D | L | R | |
| UniRef90_UPI00029AB285 | G | G | T | H | V | E | R | A | A | Q | I | | | | | | | | |
| UniRef90_R6FDL8 | I | G | K | H | V | A | N | T | S | E | I | | G | V | F | K | I | S | |
| UniRef90_UPI00045DC82A | C | G | T | H | L | L | R | T | G | A | I | | | | | | | | |
| UniRef90_A8WTA2 | S | G | T | H | V | H | D | V | S | L | I | | E | D | V | A | I | M | |
| UniRef90_J4C7R5 | G | G | T | H | L | S | N | T | K | T | I | | E | D | V | A | V | I | |



UniRef90_U6PLU3
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