

| QUERY | 1 | 10 | 20 | 30 | 40 |
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| UniRef90_UPI00036516A0 | G K F P L P V E V I P M A R S A V A R Q L V K L G G R P E Y R Q G V V T D N G N | | | | |
| UniRef90_Q47A42 | G R F P L P I E V I P M A S S Y V S R E L E K L G A R P V L R Q G V I T D N G N | | | | |
| UniRef90_V4JD75 | G K F P L P V E V I P M A R A H V A R E L A K L G G T P V L R E G F V T D N G N | | | | |
| UniRef90_UPI0003711FEF | G A F P L P V E V I P M A R A Y V E R R L A Q I G G R P V L R E G F V T D N G N | | | | |
| UniRef90_UPI00035CA10D | G N F P L P V E V I P M A R S H V A R A L S N L G G N P E L R E G F V T D N G N | | | | |
| UniRef90_I4Z699 | G R F P L P V E V I P M A R A Q V A R R L R Q L G G E P T W R E G V V T D N G N | | | | |
| UniRef90_M5DVR1 | G T F P L P V E V I P M A R A Y V A R E L V K L G G D P T W R E G V I T D N G N | | | | |
| UniRef90_B8GNF8 | G A F P L P V E V I P M A R A Y V A R E L T K L G G Q P V L R E G F T T D N G N | | | | |
| UniRef90_C8N6K5 | G R F P L P V E V I P M A R S F V A R E L V K L G G E P R W R E N V V T D N G N | | | | |
| UniRef90_L0WAL5 | G A F P L P V E V I P M A R S Y V A R K L V A L G G R P E Y R K D F V T D N G N | | | | |
| UniRef90_C5BMC8 | G K F P L P V E V I P M A R S Y V A R E L V K M G G S P E H R H G C T T D N G N | | | | |
| UniRef90_UPI0004065022 | G S F P L P V E V V P M A R S Y V G R E I V K L G G D P V W R E G V V T D N G N | | | | |
| UniRef90_H2FSY2 | G A F P L P V E V I P M A R E Y V A R E L T K L G G Q P V Y R E A V V T D N G N | | | | |
| UniRef90_UPI000469B556 | G K F P L P V E V V P M A R S Y V S R E I I R L G G Q P R L R E K L I T D N G N | | | | |
| UniRef90_W9UTE5 | G R F P L P I E V I P M A R S Y V A R Q L A A L D G Q P V Y R E G C I T D N G N | | | | |
| UniRef90_UPI0003B5B9F9 | G K F P V P I E V I P M A R S L V A R R I A E M R G Q P V W R E G T V T D N G N | | | | |
| UniRef90_N4W7B0 | G K F P L P V E V V P F G W E I T Q K Q I S K L G C Q P S L R Q P F I T D N G N | | | | |
| UniRef90_H8Z228 | G A F P L P V E V I P M A R S Y V A R E L V K L G G T P V W R E G F V T D N G N | | | | |
| UniRef90_UPI0003B78AFB | G E F P V P V E V I P M A R S L V A R H L V K L G G H P E W R Q G V V T D N G N | | | | |
| UniRef90_UPI00039454A2 | G Q F P L P I E V I P M A R E Q V S R A L K K L G G D P V Y R D G V L T D N G N | | | | |
| UniRef90_M1LW58 | G K F P L P V E V I P M A I S V V S R Y F R D L G G N P I L R K D F V T D N G N | | | | |
| UniRef90_UPI0004722762 | G D F P L P V E V I P M A R S Y V A R Q L V K L G G D P V Y R E G V I T D N G N | | | | |
| UniRef90_H5TDP5 | G K F P L P V E V I P M A R S Y V A R E I V K L G G D P M Y R Q G I V T D N G N | | | | |
| UniRef90_H5SA14 | G R F P L P V E V I P M A R S F V A R Q V V K L G G R P E W R E G Y I T D N G N | | | | |
| UniRef90_F6DBA1 | G K F P L P I E V I P M A R S Y V A R E I K R F G G E P V L R D G F T T D N G N | | | | |
| UniRef90_UPI000362BCD0 | G S F P L P V E V I P A A R S Y V A R E L V K L G G Q P A Y R E G V T T D N G N | | | | |
| UniRef90_UPI000371C7BC | G A F P L P I E V I P M A R S F V A R E M V K L G G Q P V W R E N F I T D N G N | | | | |
| UniRef90_B0TY81 | G E F P L P V E V I P M A R S Y V A R E I V K L G G Q P V Y R E K T I T D N G N | | | | |
| UniRef90_N9U4L9 | G Q F P L P V E V I P M A R E Y V A R E I I R K L G G N P L W R E G V V T D N G N | | | | |
| UniRef90_W6LVL2 | G T F P L P V E V I P M A R S H V V G R E I L L K R G G Q P V L R E N F I T D N G N | | | | |
| UniRef90_Q2BL27 | G E F P L P V E V I P M A R S Q V A R E L V K L D G M P E W R Q G F V T D N G N | | | | |
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| UniRef90_I3BS11 | G K F P L P I E V I P M A Q A L V A R E M V K L G G N P V L R E G F T T D N G N | | | | |
| UniRef90_A0A024PKW8 | G R F P L P V E V L P F G W E V T A N R I S K L G G K P E L R K K Y R S D D N G N | | | | |
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| UniRef90_UPI00034B69D3 | G K F P L P I E V I P M A R S L V G R E I A R R G G H P V W R D G V V T D N G N | | | | |
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| UniRef90_C6CYP4 | G K F P L P V E I V P F A F E L T V R K L R K L G C P K L R K N Y V T D N G N | | | | |
| UniRef90_J3TF98 | G T F P V P I E V I P M A R A W V A C Q L T L L G G Q A R Y R Q G V V T D N G N | | | | |
| UniRef90_Q0EXR2 | G A F P L P I E V I P M A R E L V A G I A R K L G G N P V L R D G F I T D N G N | | | | |
| UniRef90_E0WTW1 | G K F P L P V E V I P M A R S F I A R E L I K L G G M P K Y R Q N V L T D N G N | | | | |
| UniRef90_UPI00026C81AF | G Q F P V P A V E V I P M A R S M V A R Q L V Q L G G D P E Y R E G F V T D N G N | | | | |
| UniRef90_A1K9D7 | G R F P L P I E V I P M A R S Q V M R A A A A L G A T P R L R E G F V T D N G N | | | | |
| UniRef90_UPI00036CF010 | G A F A L P P V E V V P M A R E L V R A R R L R D L G G E P R I L R E G Y L T D N G N | | | | |
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| UniRef90_UPI0004166F52 | G K F P L P I E V I P M A A H Y V M R K M E Q M G G K A Q I R E G F I T D N H N | | | | |
| UniRef90_J0B8Q2 | G A F P L P V E V I P M A K N A V A R Q L R A L G G T P V E R A G F V T D N G N | | | | |
| UniRef90_C7R992 | G E F P L P V E V I P M A R S Y V A R Q I V K L G G D P V Y R T G F V T D N G N | | | | |
| UniRef90_E6QRFO | G Q F P L P I E V I P M A R G Y V A R Q L V K L G G Q P Q L R E G F V T D N G N | | | | |
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| UniRef90_C4GEC8 | G K F P L P V E V I P M A R S M V A R K I V K L G G Q P E L R Q G C K T L H G N | | | | |
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| UniRef90_UPI0004740249 | G E F P L P V E V V P M A R S H V A R E L V K L G G D P V Y R D G V V T D N G N | | | | |
| UniRef90_U2ES59 | G R F P L P V E V I E M G R S S V A R A L V K L G G E P E L R R N G F V S D N G N | | | | |
| UniRef90_UPI0003487374 | G K F P L P I E V V P F A W E V T A R R I E G L N C V S T L R R P Y V S D N G N | | | | |
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| UniRef90_C6C9C0 | G K F P L P V E V I P M A R T V Y T R E L T K L G G R P V Y R D G V L T D N G N | | | | |
| UniRef90_I1DIC7 | G A F P L P I E V L P A A E T A V S R A L Q S L G G T P I R R E N C I T D N G N | | | | |
| UniRef90_A0A011NR82 | G H F P L P V E V I P M A L G H V R R R Q L A A I I G G T P V L R E G F V T D N G N | | | | |
| UniRef90_A0A024PH38 | G H F P L P V E V I P M A L G H V R R R Q L A A I I G G T P V L R E G F V T D N G N | | | | |
| UniRef90_UPI00026249B7 | G N R F P L P V E V L P F G W E V T A K R I S H G A H I T L R Q P F I S D N G N | | | | |
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| UniRef90_R9C1R4 | G K F P L P I E V V P F G Y K Q T E R A I I R K F G C K T E I R E K F V T D N G N | | | | |
| UniRef90_UPI0004253C8A | G S F P L P V E V V P F G W E K T A E R I A A F G Q N P K L R K S F I S D N H N | | | | |
| UniRef90_UPI00036B208F | G G F P L P V E V I P M A R S W V S R E M V R M G F S P V Y R Q G V V T D N G N | | | | |
| UniRef90_U5T5D8 | G D F P L P I E V I P M A R S H V V G R A L V R L G G H P A L R E G F T T D N G N | | | | |
| UniRef90_UPI0003B57D4D | G S F F P L P V E I T P F G W Q K T A R D I Q S L G C D P V L R D P F K T T D N G N | | | | |
| UniRef90_H3NUU2 | G A F P L P V E V I P M A R T L V Q D A L N Q N L G G D A V W R E G V V T D N G N | | | | |
| UniRef90_UPI000479D5B4 | G R F P L P V E V I P M A R S L V A R E L L A I T G Q P V W R E G V V T D N G N | | | | |
| UniRef90_Q1LSJ4 | G N F P L P I E V I P M A H A W V A R E L V H L G G L P K Y R Q G V I T D N G N | | | | |
| UniRef90_L8U9G0 | G N F P L P I E V I P M A R S Q V A R K L V A L G G A P E Y R E G V V T D N G N | | | | |
| UniRef90_M1LTZ6 | G K F P L P I E I I P M S K S L L C K Y I I T S I G H G P V L R D G F L T D N G N | | | | |
| UniRef90_W4VHT3 | G A F P L P V E V I V P F G F E M T M K H I Q D L G C S P H L R Q P F L T D N G N | | | | |
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| UniRef90_E0RFJ1 | G A F P L P V E V V P F A S E W T L E A L L R Q T G C K A E W R M K F L T D N G N | | | | |
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| UniRef90_K2CA02 | G Q F P L P V A V E V I P M A R G Y V A R Q I V Q L L G G D P V Y R E G Y V T D N G N | | | | |
| UniRef90_S3EGN2 | G N F P L P V E I I P M A R S Y V A R Q I L L K L L G G D P V Y R A G T I T D N N N | | | | |
| UniRef90_K2DF70 | G K F P L P V A I E V I P M A R G F V A R T I L A A L G G M P Q Y R E G F V T D N G N | | | | |
| UniRef90_D8IPP5 | G K F P L P V E V I P M S H A V V A R K L L A A L G G E P R L R K P V V T D N G C | | | | |
| UniRef90_K4L1A8 | G Q F P L P V E V I P M A R A H V A R Q I L V K L L G G D P V H R A G V I T D N G G | | | | |
| UniRef90_K2B2T9 | G K F P L P V E V I P M A R S Y V A R T M V K L L G G F P V Y R E G V V T D Y G N | | | | |
| UniRef90_A5V194 | G A F P L P V E V I P F G S Q H V F D R L L E K K G Y K P T W R M K F R T D E N N | | | | |
| UniRef90_F9ZVU0 | G K F P L P V E V L P L S R S F V A R Q I L A K L G G T P E L R M P Y I T D N G C | | | | |
| UniRef90_F3L2F0 | G K F P L P V E V I P M A E N L V I N A L R A M G G R P E V R E G V I T D N R N | | | | |
| UniRef90_J3TZ31 | G T F P L P V E V I P M A R R W V S F E I N R L L G G K A V Y R H G V I T D N G N | | | | |

| QUERY | | | 50 | | 60 | | 70 | |
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| UniRef90_V4JD75 | I | I | L | D | V | K | G | L |
| UniRef90_UPI0003711FEF | L | I | L | D | V | H | G | L |
| UniRef90_UPI00035CA10D | V | L | L | D | V | H | N | L |
| UniRef90_I4Z699 | L | L | D | V | R | G | L | R |
| UniRef90_M5DVR1 | V | L | D | V | Y | N | M | Q |
| UniRef90_B8GNF8 | V | L | D | V | H | N | L | Q |
| UniRef90_C8N6K5 | W | L | D | V | Y | H | L | E |
| UniRef90_L0VAL5 | V | L | D | V | H | G | L | N |
| UniRef90_C5BMC8 | H | V | L | D | V | H | G | L |
| UniRef90_UPI0004065022 | W | I | D | V | H | N | F | D |
| UniRef90_H2FSY2 | H | L | D | V | H | G | L | S |
| UniRef90_UPI000469B556 | I | L | D | V | H | G | L | Q |
| UniRef90_W9UTE5 | I | L | D | V | H | H | L | E |
| UniRef90_UPI0003B5B9F9 | W | I | D | V | H | W | Q | W |
| UniRef90_N4W7B0 | Y | I | D | C | Y | F | E | T |
| UniRef90_H8Z228 | A | L | D | V | H | G | L | E |
| UniRef90_UPI0003B78AFB | V | L | D | V | H | G | L | D |
| UniRef90_UPI00039454A2 | I | L | D | V | H | N | M | Q |
| UniRef90_M1LW58 | Y | I | D | V | H | N | F | K |
| UniRef90_UPI0004722762 | I | L | D | V | Y | N | M | K |
| UniRef90_H5TDP5 | H | L | D | V | Y | N | L | E |
| UniRef90_H5SA14 | Q | I | D | V | H | N | L | E |
| UniRef90_F6DBA1 | L | L | D | V | H | G | L | V |
| UniRef90_UPI000362BCD0 | L | L | D | V | H | N | F | K |
| UniRef90_UPI000371C7BC | E | I | I | D | R | N | L | N |
| UniRef90_B0TY81 | L | D | V | Y | N | L | K | N |
| UniRef90_N9U4L9 | H | L | D | V | H | G | M | A |
| UniRef90_W6LVL2 | L | L | D | V | Y | N | L | R |
| UniRef90_Q2BL27 | L | L | D | V | H | D | L | E |
| UniRef90_F2PAX8 | I | L | D | V | Y | N | M | Q |
| UniRef90_I3BS11 | I | L | D | V | H | G | M | E |
| UniRef90_A0A024PKW8 | Y | I | D | C | S | F | S | Y |
| UniRef90_Q1GXJ5 | V | I | D | V | H | G | L | T |
| UniRef90_UPI00034B69D3 | W | V | I | D | V | H | W | Q |
| UniRef90_E8LI34 | E | L | D | V | H | D | F | M |
| UniRef90_B8KU64 | V | L | D | V | F | N | L | L |
| UniRef90_C6CYP4 | Y | A | D | C | E | F | G | A |
| UniRef90_J3TF98 | I | L | D | V | H | N | L | S |
| UniRef90_Q0EXR2 | L | I | D | V | H | G | L | K |
| UniRef90_E0WTW1 | Q | I | D | V | Y | N | L | Q |
| UniRef90_UPI00026C81AF | I | L | D | V | F | N | L | T |
| UniRef90_A1K9D7 | L | I | D | V | H | G | L | S |
| UniRef90_UPI00036CF010 | Q | I | D | V | H | G | L | R |
| UniRef90_C1DG96 | V | L | D | V | Y | D | M | R |
| UniRef90_UPI0004166F52 | L | V | D | V | E | G | L | K |
| UniRef90_J0B8Q2 | L | L | D | V | S | G | L | S |
| UniRef90_C7R992 | V | L | D | V | H | G | L | V |
| UniRef90_E6QRF0 | I | L | D | V | L | G | L | S |
| UniRef90_A6GQA1 | V | L | D | V | A | G | L | K |
| UniRef90_UPI000466B3C7 | H | L | D | V | H | G | L | A |
| UniRef90_V2UXT7 | V | I | D | V | H | N | L | D |
| UniRef90_C4GEC8 | E | L | D | V | H | G | L | D |
| UniRef90_R4XLTO | I | L | D | V | A | G | L | S |
| UniRef90_B7S103 | I | L | D | V | Y | N | F | A |
| UniRef90_UPI0004740249 | Y | M | D | C | H | F | Q | E |
| UniRef90_U2ES59 | P | L | D | V | Y | N | L | E |
| UniRef90_UPI0003487374 | Y | I | L | D | C | S | F | G |
| UniRef90_Q8DJF2 | F | V | L | D | V | R | F | D |
| UniRef90_C6C9C0 | I | L | D | V | H | D | F | D |
| UniRef90_I1DIC7 | L | I | D | D | C | A | G | L |
| UniRef90_A0A011NR82 | L | V | D | L | K | G | L | S |
| UniRef90_A0A024PH38 | Y | I | L | D | C | Q | F | P |
| UniRef90_UPI00026249B7 | Y | V | I | D | V | T | G | L |
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| UniRef90_R9C1R4 | Y | V | D | C | S | F | S | S |
| UniRef90_UPI0004253C8A | Y | I | L | D | C | Q | F | D |
| UniRef90_UPI00036B208F | Q | L | I | D | H | D | R | M |
| UniRef90_U5T5D8 | L | I | L | D | V | R | H | L |
| UniRef90_UPI0003B57D4D | Y | V | I | D | C | D | F | Q |
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| UniRef90_Q1LSJ4 | I | I | L | D | V | Y | N | L |
| UniRef90_L8U9G0 | I | I | L | D | V | H | N | F |
| UniRef90_M1LTZ6 | L | I | D | V | Y | N | I | S |
| UniRef90_W4VHT3 | Y | A | D | C | Y | F | E | N |
| UniRef90_K6CH22 | Y | F | D | C | H | F | P | K |
| UniRef90_Q0K980 | V | L | D | V | A | G | L | K |
| UniRef90_E0RFJ1 | Y | A | D | C | R | Y | D | T |
| UniRef90_UPI0003809C55 | V | L | D | V | V | H | N | L |
| UniRef90_K2CA02 | I | L | D | V | F | N | F | K |
| UniRef90_S3EGN2 | V | V | D | V | Y | N | L | K |
| UniRef90_K2DF70 | I | L | D | V | Y | N | L | N |
| UniRef90_D8IPP5 | Y | I | D | V | L | G | L | S |
| UniRef90_K4L1A8 | E | I | D | V | H | G | L | H |
| UniRef90_K2B2T9 | T | L | D | V | W | N | L | E |
| UniRef90_A5VI94 | Y | I | D | L | H | L | G | E |
| UniRef90_F9ZVU0 | E | L | D | V | Y | N | L | S |
| UniRef90_F3L2F0 | I | I | D | V | H | D | F | M |
| UniRef90_J3TZ31 | V | L | D | V | H | N | L | V |

| | 1 | 10 | 20 | 30 | 40 |
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| UniRef90_UPI00047ADEE7 | G K F P P L P V E V V P M A R S M A S R E L V K L G G R P E L R L G F K T L N G N | | | | |
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| UniRef90_UPI00036C664D | F F P V P V E V I P M P L A V T P V T K A L E A L G G K P D L R M P V I T D Q G N | | | | |
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| UniRef90_UPI0003B3B5D2 | Y V I D L H L E R I D D P Q A L A E D L I N V G V V E H G L F |
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| UniRef90_Q7BK1 | H I L D I S N M D I S N P T E M E A L I N N I P G V V D N G I F |
| UniRef90_D5VCE7 | V L D T Y D L D I T D A A K M E F T L N N I V G V V C H G I F |
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| UniRef90_R4YV77 | V L D V H H F Q M T A P K L L E E N V N Q L T G V V T N G L F |
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| UniRef90_Q8EMZ1 | Y I D C D F K E I D D A E A L H R S L K Q I V G V I E T G I F |
| UniRef90_W0NZQ3 | I I D V Y D L C I E D P L L M E K K I N S L P G V V T V G I F |
| UniRef90_UPI00026277B2 | Y I D C T L S R I K D A S E L N N H Q L N Q L P G V V E N G L F |
| UniRef90_UPI00037095C2 | Q L D C Y D F L I E D P Q R T E A D L N N I V G V V T N G L F |
| UniRef90_C2QCT6 | M M D C V F P N I S N P A T L H E K L K M I T G V V E T G L F |
| UniRef90_F4GMC6 | Q L D V S G L R I T A P V E T A E L I P G V V C C G L F |
| UniRef90_M3DZU6 | Y L D C A F E S I P D P E N L H N K L K Q L I G V I E T G L F |
| UniRef90_M1M0S4 | S S I D V Y N L R I Q N Q L N L E K E I I N N F P G V V T N G L F |
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| UniRef90_V7IFM0 | K K I D V H N M P I N E P L K L E D E L N R I P G V V E N G L F |
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| UniRef90_UPI00040497C5 | Y Y L D C P F H T I H D P K A L D D K I K N I A G V V D T G F |
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| UniRef90_UPI00030AE719 | I I L D V V G M R I L H P T E L E S Q I N N I P G V V T V G F |
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| UniRef90_C3X4E3 | L L D V F G L Q I G H P L R I E E K I I N N F T G V V T V G F |
| UniRef90_E0XQX5 | Q Q I D V R N L K L N V P Y D F E E N E I I N N I P G V V A N G F |
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| UniRef90_C3YI9Z | F F L D W K F D E T K D W K K V N M E I V S M I P G V V E T G F |
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| UniRef90_C2W8R4 | M M L D C V F N R I K N P I D T H Q Q L K M I T G V I E T G F |
| UniRef90_W0EYB5 | Y Y L D V D F G L I D E P A A L A K A L D H T G V V E H G F |
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| UniRef90_L0HMU3 | Y Y I V D C K F N R I E N P K I L D K I D K I P G V V E I G F |
| UniRef90_J4KT13 | H H I I D V T G L D F S D P S D L E E K K L N A I P G V V D N G F |
| UniRef90_TOZAT0 | Q Q L D V L S L P I A D P S Q M E H E L Q C I P G V V E T G F |
| UniRef90_U5DPL4 | L L V D V K F D Q I A D P G E L E R A L N N I P G V V E N G F |
| UniRef90_Q03SV2 | Y Y I D L H L G R I D H P H D L A N T L N G I V G V V E H G F |
| UniRef90_G8TEW3 | Y Y L D C P F Q K I E N P D I L T Y E L N G I P G V V E N G F |
| UniRef90_Q89AD5 | V V I D V V F N L V I T D P V C L E N K I N S F P G V V S V G F |
| UniRef90_A0A024Q6K2 | Y Y I D C P F K I I E D P H S L H Q Q L K Q L V G V V E T G F |
| UniRef90_S0K0V7 | Y Y I D L H L D V I E D P E S L A T Y L D L V G V V E H G F |
| UniRef90_V9GG13 | L L A D C Q F E L M D E P E E I A A R L S R I P G V V E H G F |
| UniRef90_W1SKJ6 | Y Y I D C Q F Q T I P N P E E L H N Q L K L L L G V V E T G F |
| UniRef90_UPI00029A4F12 | F F I D V K F E R I I D D P L D M E I E L K T I P G V V E N G F |
| UniRef90_UPI0003479B1F | M M V L D V T G F S D I P N N A A E L E K T L N N I P G V V L E N G F |
| UniRef90_K6T3V6 | F F V V D V Q F K E I P N P H E L E I A L N S I P G V V E N G F |
| UniRef90_Q2JK16 | Y Y I D C Q F G P M A D P A K I A D Q L K G T V G V V E H G F |
| UniRef90_UPI000471787E | F F V D L Y F D E A P D V Y R L N R V L K S I P G V V E T G F |
| UniRef90_UPI000249059D | L L I D L H L G K I S A P K E L A E L L D T V G V V E H G F |
| UniRef90_D8JZ48 | H H L D C S F G A I I D D P E A L D D A L K L V P G V V E T G F |
| UniRef90_E0XWQ9 | L L I D V K G L P I S K P K S I E K D L N N I A G V V T N G F |
| UniRef90_K1MGA7 | Y Y I D L H L E Q I P Y P E K L A Q E I K Q M V G V V E H G F |
| UniRef90_E5AQX1 | E E L D V K A L A I D D P V A L E R D M N Q W P G V V T V G F |
| UniRef90_J0WZK4 | Y Y V D L H L G R I E N P K E L A G D I I T T V G V V E H G F |
| UniRef90_Q7NPM5 | Y Y I D C R F G P I A R P A E L E A A I D R I P G V V E S G F |
| UniRef90_G8PQ27 | Y Y I D C H L K A I S D P K S I L A K R L E V I P G V V E H G F |
| UniRef90_Q1GX07 | Y Y I D A A L D E I P P R P E I A A A T T I P G V L E H G F |
| UniRef90_P72012 | F F V D A A F G V I D D P G A M E S R L N N I P G V V E N G F |
| UniRef90_F9S0N1 | I I L D V A G L D M S E P A E L E M R L N A I P G V V G N G F |
| UniRef90_F2NQH9 | L L A D V F R D P I E D P A R L L E Q E I K A P G V L E V G F |
| UniRef90_D2R111 | F F I D C N F D E I E N P K E L E L S N A I A G I V E N G F |
| UniRef90_J2M698 | N N L D A V G L S I T E P P A E I E A A I N N I V G V V T V G F |
| UniRef90_UPI00036C664D | Y Y I D C A F D G I P D P G A I E S I I N N I P G V V D N G F |
| UniRef90_UPI00030B0818 | M M L D V K F D A I D D P A G L E K T I N N I P G V L D N G F |
| UniRef90_M7T8S9 | Y Y L D C D F G K I N E P E T L E E K E I N S I P G V V E N G F |
| UniRef90_B6A8B9 | V V L D V H N L D I D A A L A E N K I N G I V G V V E H G F |
| UniRef90_G8N8X0 | L L A D C R F G P I G D P W G L H K A L L E P P G V V E T G L F |

| | 1 | 10 | 20 | 30 | 40 |
|------------------------|---|----|----|----|----|
| UniRef90_UPI000237502F | G R F P L P V E V I P M A E K H I A R R F A A K G G Q A S I L R Q P L V T T D N G Q | | | | |
| UniRef90_A5UJW1 | G N F P V P V E V I P D A S R V V I Q T L E D M G A E C E I R M P V I T T D N G N | | | | |
| UniRef90_M0D6E0 | G P V P L E E V L P A A R T L V S A R V D E L G G D P V L R G P V V T T D N G N | | | | |
| UniRef90_E8UXJ17 | G K F P L P V E V I P M A Q P L V S K K L E L L G L H S K I R Q N Y I T D E G N | | | | |
| UniRef90_A9TPW9 | T F F P V P V E E V L P F A L A P V L R A L A A L G G Q P E I R G P V M S D L G N | | | | |
| UniRef90_K3WR92 | V P P I E E V V P M A Y V P L M N K L K E F G G A P V L R M P V V T T D N G N | | | | |
| UniRef90_UPI00034D9305 | T F L L P V E E V I P M A Y V P I M Q R L K S L G G T A E L R M P V I T T D N G N | | | | |
| UniRef90_T1W49 | I P I E E V I P M A Y V P I M Q R L K S L G G T A E L R M P V I T T D N G N | | | | |
| UniRef90_UPI00046F5005 | G A F K L P V E E V I P F A C G A L L P K L E A L G C T P A V R M P F R T D E N N | | | | |
| UniRef90_UPI00034941F8 | G H F A L P V E E I I P L A R A A L S R K F L A L G G R P V L R T P Y L T D N A N | | | | |
| UniRef90_M0M6B2 | V P L E E V L P D A H T V V A D R I R D L G G P T L R E P V V T D N G N | | | | |
| UniRef90_W9ACK2 | G T F S L P V E E V V P F G W E T T S K R I A E Y G C L P R R E A F I S D D N G N | | | | |
| UniRef90_Q04DK9 | G S F P L P V E E V I P F G A L H V L N K F E E L N L N P A L R K K V M T D S Q N | | | | |
| UniRef90_S4NHG0 | G A F P L P L E E V I P Y G S Q Q L L K R L E A K G Y Q P E F R M K V T T D S N N | | | | |
| UniRef90_D8PA73 | G S F P L P I E E V V P F G W G S T A R N I E H T G G K A V L R E R F Q T E A G H | | | | |
| UniRef90_Q03Y20 | G S F P L P V E E V I P Y G S Q Q L L R Q F A N K G L F P K L R Q P V I T D A G H | | | | |
| UniRef90_F4PQH6 | I P I E E V V P M A Y V P V M K L E R F G L K P V L R M P V V T D N A N | | | | |
| UniRef90_A0A023GJ62 | I P V E E V I P M S Y L P V Q R K I E K L G H K A E L R Q P V V T D N G N | | | | |
| UniRef90_UPI00038196CE | G A F P L P I E E V V P F G K E S T R R A I A K L S G E V H I R R P V V T D S G H | | | | |
| UniRef90_C8WXS2 | A I P V E E V V P F A W E T T A R R I E Q L L G G R W T L R E R F V T D N H | | | | |
| UniRef90_UPI000381EFBA | G H F P L P L E E V I P M A L G L V S R E L S R M G G L P A I R K G F V T D N G H | | | | |
| UniRef90_K2A4J2 | G D C A V P V E E V I P M A R G L V A R A L V Q M G G I P E Y R A G F V T D N G N | | | | |
| UniRef90_A0A024TQ61 | I P I E E V V P L A Y V P L M R M K L K E L H G T P V L R M P V V T D N G N | | | | |
| UniRef90_F4NUT5 | I P V I E V T P M V Y V A V M Q K V I K T M G G P T L R M P V V T D N G N | | | | |
| UniRef90_W8YP67 | G P F R L P V E E V V P Y G W K S T R K R V E E T G C S A V R R E P V R T D N G N | | | | |
| UniRef90_K8ZN43 | G A F P L P I E E V V P Y G S E R L F Q L F V E K G M E P T W R K T F V T D G G H | | | | |
| UniRef90_A6FKU7 | G A F P L P I E E V I P F G W E T T K S L V E E L G R D A T I L R M P F V T D E G N | | | | |
| UniRef90_10XBU3 | K F P V P V E E V I P E A R A S V T R Q L E A T G A K P V L R E P V I T D N N N | | | | |
| UniRef90_F6BER2 | K Y P I V P V E E V V P F A Y S V V I K E L I N M G G N P T I R G P I I T D N G N | | | | |
| UniRef90_E7QMR1 | H P V P V E E V L P A A R T T V A D D V R R L G G N P T L R D P V V T D N G N | | | | |
| UniRef90_C6IVQ0 | G R F K L P I E E L V P F C Y E W T L R E L K S R Y R D V P E M R M Q Y V T D N G N | | | | |
| UniRef90_A0B633 | P V P V E E V L P F A A M V V E R E L V R I G G Y P V V R Q P V I T D N G N | | | | |
| UniRef90_W51H18 | G K F P L P V E E V I P F G A G H V V K H F E D K G Y P V L R L P V L T D E K N | | | | |
| UniRef90_UPI0003B55D8C | G K F P L P V E E V I R M A E P L V N E A L R E L G F T P K V R T N Y I T D E G N | | | | |
| UniRef90_W6RAI3 | G A F A L P I E E I N P F G L V S T R M A I E K L L G G T L T L R Q G F M T D G G H | | | | |
| UniRef90_S1NAU3 | G E F F P L P V E E V I P Y G S Q Q I F N I L E K R G Y H P S F R K T L H T D S G N | | | | |
| UniRef90_M7QZI7 | G R F P L P I E E V L P A A K M P V I L A L K S L G G R P L Q R P D C V T D N G N | | | | |
| UniRef90_UPI0003474AC3 | G Q F P L P I E E V M P M A R T A I G R R V A A I G G V P V L R T P F I T D N G K | | | | |
| UniRef90_M0PKP2 | P V P V E E V L P A G R T A V A A A V R E A G G E P T I L R R P V V T D N G N | | | | |
| UniRef90_A0A059ISV4 | G A F P L P I E E V V P F G W Q T K A L I E E L G R A A T L R M P Y V T D E G N | | | | |
| UniRef90_W5MSQ8 | V P V E E V I P M A H V P V A K E I E R F G G V A E L R M P V V T D N S N | | | | |
| UniRef90_K9RPC7 | T F A V P V E E I I P M A I T P A M Q A I T K L L G G K P E I R M P V I T D Q G N | | | | |
| UniRef90_UPI000470594E | G K F P L P I E E V N P F G L A A T E R A A E K L L G G E K L R M N F M T D G G H | | | | |
| UniRef90_UPI0003F72707 | G S F P L P V E E V I P F G W E N T T R T K L S S S L G C T P K L R K T F V T N N D N | | | | |
| UniRef90_D5ALR5 | G A F P L P V E E V V P F G W Q T T R A L I E E L G R Q T T R Q P Y I T D E G N | | | | |
| UniRef90_T1AI74 | G A F P L P V E E I L P F M Y H L T L R K L Q N I A L S C E L R K S F T T D N G N | | | | |
| UniRef90_UPI000469CA9C | G R F P L P I E E V I P F G W Q S T E R L L R E L L G F A P A V R Q L V V T D S G N | | | | |
| UniRef90_F0TCI8 | G N F P V P V E E V I P Q A S R T V R D Q L I K M G G S P T M R M P V V T D N G N | | | | |
| UniRef90_G2SRP4 | G R F P L P V E E V I P Y G S Q K I F E R F E K K G L P V L R M P L V T D N G Q | | | | |
| UniRef90_W7CC24 | G A F G L P V E E V V Q F G Y M Q V F Q Q L T A K G Y A P K Q R L P Y T T D S G N | | | | |
| UniRef90_K7SQQ0 | G H V S L P V E E V T P N A R S L V A R R L L K F G G E P E L R L G F T S D H G N | | | | |
| UniRef90_A3Z9C3 | F L L P V E E V L P G A W R Q V Q A R L A S L G G A A E L R M P V V T D Q G N | | | | |
| UniRef90_UPI00046A1403 | G A F T V P P I E E V I P P L A Y Q Y V F D F Q I T R L L G G K G L L R K T F I T D N G N | | | | |
| UniRef90_R9T791 | L P V E E V I T Q F S H K K T K E S I E K L L G C V A Q L R G P F I T D N G N | | | | |
| UniRef90_B3S327 | I P V E E V L P F A Y A T V K A K I H K F G G T P V L R M P V V T D S G N | | | | |
| UniRef90_UPI000362F473 | G A H P L P I E E V L P F A R S F V V S D A I R R L G G E P R I R E P A R S D Q G N | | | | |
| UniRef90_F6ANI3 | G D F P L P V E E V I P M A A A Q I O N A R F K A M G G R A E I R M P L V T D N G Q | | | | |
| UniRef90_Q8D252 | G R A P L P I E E V I P M A R T L V S K K I I D I G G S P K Y R K G I I T E N G N | | | | |
| UniRef90_D7EAR3 | H S V P V E E V L P Y S R N L V L Q N M Q N M G A E P E I R Q P V I T D N G N | | | | |
| UniRef90_Q839H2 | G A F P L P V E E V V P Y G S R Q L V H L F E E K G Y H P T I L R L N L I T D G G H | | | | |
| UniRef90_UPI0002FB769D | G D F A V P V E E V T P F G K E I T F Q L K A L G C V P K L R E L L V T D N Q N | | | | |
| UniRef90_A0A017SBX3 | G P I V P V E E V V P F A S P S A A R H L Q K L L G G K P V V R K P Y R T D N H | | | | |
| UniRef90_UPI0003759DA9 | G K F P L P V E E V V K M A M P V V E P K L A G L G L N P K Q R K A F L T D E G N | | | | |
| UniRef90_E3DMJ6 | T F K L P I E E V T P F S W K Y T Q Q M I E K F S C D S E I R E I Y K T D N G N | | | | |
| UniRef90_R2QRG6 | G K F P L P V E E V P F G S H N V F R L F E A K G Y H P S W R L N L T T D G G H | | | | |
| UniRef90_D3SVA8 | V P L P E V L P D A H T V V T E R V R A L I D D G E P T I L R D P V V T D D G H | | | | |
| UniRef90_Q1GF74 | G A F P L P I E E V I P F G W Q T T L I S M D V M G R S S T L R M P Y V T D E G N | | | | |
| UniRef90_C7NUC0 | V P V E E V L P D A R T T V A N A I R E L L G G E P E L R G P V V T D N G N | | | | |
| UniRef90_K0DC42 | G T F P L P V E E V I P Y G S G R L L R K F E A N D F N P V L R Q P I I T D S G H | | | | |
| UniRef90_S4DBX5 | G A F P L P V E E V I P Y G S Q Q L L R I F K E K N K Y D P S L R L P I L T D D S G H | | | | |
| UniRef90_J0DZG3 | G F P I P I E E V V P F G Y A P V L N W I K R K G G E A E L R M P F I T D N N N | | | | |
| UniRef90_Q0FIP9 | G A F P L P V E E V I P F G W T A S Q A L L E E L G R K T T T L R M P Y I T D E G N | | | | |
| UniRef90_K8NM56 | G Q F P L P V E E V I P F G L A A T R A L A G V A G E I S L R Q G F V T D G G H | | | | |
| UniRef90_H5WP91 | G A F A L P V E E V I A M A A P Q V A R R F E Q F G G T A T L R A G V L T D N G H | | | | |
| UniRef90_UPI0003617D98 | G G F P L P V E E V V Q F A W K Q T E R M V A G L G A V I V R R M P V V T D S G N | | | | |
| UniRef90_F8F3R8 | K F S I P V E E V I P E A R V P V E R A L E A A L G G A E V Q L R E P V I T E H A N | | | | |
| UniRef90_UPI0003B63F3A | G K F P L P L E E V V P A L P W V L D A V A A L G G N P V V R M D V L S D Q K N | | | | |
| UniRef90_UPI000368BA21 | G A F P L P V E E V L P K A I R V E R V L T E K G C R P T L R T P Y L T D N Q N | | | | |
| UniRef90_UPI0003710A55 | G G F P L P V E E V I P M A A Q R I I R Q F A A L G G E G S V R Q P L I T D N G Q | | | | |
| UniRef90_G6F1H5 | P V P V E E V T P F G W E A T A K H E K L I G A K I S I R L K F L T D G S N | | | | |
| UniRef90_F6TG15 | V P P I E E V I P M A Y V P V I K A L Q R F G G V A E L R M P V V T D N G N | | | | |
| UniRef90_K2NTW3 | G S F K V P P V E E V I P Y G S E Q L F R K F E A A G Y G P S W R M Q L I T D M Q H | | | | |
| UniRef90_E8WXH2 | G K F P L P V E E V I K M A L P L V L P K L E A L G L G L P K Q R R P Y L T D E G N | | | | |
| UniRef90_B2GEH9 | G D F G V P P V E E V I P F G A A H V F R K F E K K G Y Q P Q W R M D Y L T D E K N | | | | |
| UniRef90_UPI000051A7C2 | H P V P V E E V L P D A R V P V E T A I E G L G G E P T V R G P V V T D N G N | | | | |
| UniRef90_U1QLR8 | I P I E E V V P M A Y V P I K A L R R I E N Y G G L V K V R M P V V T D N G N | | | | |
| UniRef90_X1SEA3 | G T F P V A V E E V L P N A R S Y V A R E I V K L L G G N P E Y R Q G F I S D H G N | | | | |
| UniRef90_I4X5Q7 | G S F A L P V E E V I Q F A W Q R T V D K I E A L G A K S V L R E V F V S N N G N | | | | |
| UniRef90_I7DRM6 | G A F P L P V E E V I P F G W Q T T Q A L L E E M G R K T T L R M N I L V T D E G N | | | | |
| UniRef90_UPI000249304E | G A F P L P V E E V I P Y G S Q K V F E R F E K K G Y Q P T F R K S L L T D S E N | | | | |
| UniRef90_W1Q4G0 | G A F P L P V E E V V Q F G S W N L F R Q L M A A G L E P S F R K V Y M T D S G N | | | | |
| UniRef90_F2I5Y3 | G A F P L A V E E V I K N G H Q H L F K H E D K G Y Q P T M R K T F H T D N D N | | | | |

| | | 50 | 60 | 70 |
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| UniRef90_UPI000237502F | H | I L D [V R G [L W I T D P [L A F E S E I N Q W P G V V T A G V F | | |
| UniRef90_A5UJW1 | F | V I D A K F E K I E S P M H [L E I D L N S [P G V V E N G I F | | |
| UniRef90_M0D6E0 | F | V L D C D F G A D D P A S L S A D L S A T P G V V E H G L F | | |
| UniRef90_E8UXJ17 | L | I L D C G P T V I E D P [A L G E K I S A I T G V V E H G L F | | |
| UniRef90_A9TPW9 | M | I V D V R F P D V K N P A E L L E R K I N M I P G V V E N G L F | | |
| UniRef90_K3WR92 | F | V L D V N F G [L I D N A Q A L L N D R I K [L P G V V E V G L F | | |
| UniRef90_UPI00034D9305 | L | V I D V K F E H I K N P A E M E K T I N N F P G V L E N G L F | | |
| UniRef90_T1IW49 | F | I L D W K F D K V P D W D K V N T I K M F P G V V E T G L F | | |
| UniRef90_UPI00046F5005 | L | I V D C D F G K I D D A E E L A L T L S T M A G V V V E H G L F | | |
| UniRef90_UPI00034941F8 | Q | I I D V H G [L Q I T D P V T L E A K I N S W P G V V T V G L F | | |
| UniRef90_M0M6B2 | L | V L D C E F G P D D P D E L A A V L S S V P G V V E H G L F | | |
| UniRef90_W9ACK2 | Y | I L D C D F E S I E K P A E L H E N L K K L V G V V E T G L F | | |
| UniRef90_Q04DK9 | Y | I I D L H [L N Q I I D P A K L S N Q L I N T V G V V E H G L F | | |
| UniRef90_S4NHG0 | Y | V I D L H [L G Q I V D P H K L A L E L D Q M T G I V V E H G L F | | |
| UniRef90_D8PA73 | V | L D L H M P K I D D P A T L E I E L N Q [P G I V E T G L F | | |
| UniRef90_Q03Y20 | Y | I I D C H M T T I N N P Y A L A E Y L E S Q V G V V E H G L F | | |
| UniRef90_F4PQH6 | F | V I D A Q F T S D N P A D L A T K I K M I P G V V E T G L F | | |
| UniRef90_A0A023GJ62 | F | L D C K F T S Q K D W S A V N T A L K M I P G V V E T G L F | | |
| UniRef90_UPI00038196CE | I | V D A H F G R I D D P R E V A D A L N R I P G V V E H G L F | | |
| UniRef90_C8WXS2 | Y | I L D T V F D E V A D P A D L A R R L K L T T G V V E S G L F | | |
| UniRef90_UPI000381EFBA | A | I I D V S G L R I A D P V L F E S E I D H L A G V V C N G I F | | |
| UniRef90_K2A4J2 | I | I L D V F Q L D L T N P I K M E E A I I N N I T G T V C N G I F | | |
| UniRef90_A0A024TQ61 | L | I L D T H F G I Q D P E S L E K T L K L L P G V V E V G L F | | |
| UniRef90_F4NUT5 | F | V I D A D F G E I C D P A A L N V Q L I G V P G V V E T G L F | | |
| UniRef90_W8YP67 | Y | I I D C D F G D I T E P G A L D G K L K S S L G V V E T G L F | | |
| UniRef90_K8ZN43 | F | C H M D K I Q D P I T L A N E L D H L T G V V E H G L F | | |
| UniRef90_A6FKU7 | Y | I L D L H [L G R I G K P N Q L A M V L N Q M P G V V E N G L F | | |
| UniRef90_10XB03 | W | I D C T W E K P I D V P A M E D K I N S F T G V V E V G L F | | |
| UniRef90_F6BER2 | M | I I D V S M D I D N A E K L E K E L N S I P G V V E N G I F | | |
| UniRef90_E7QMR1 | L | V L D C E F G E I D S P G D L A A D F S A I P G V V E H G L F | | |
| UniRef90_C6IVQ0 | Y | I I V D A A F G Q I T D P A R L S D E L K A M T G V V V E H G L F | | |
| UniRef90_A0B633 | F | V M D V S F G E I R D P A T L L A Q E I S S Q I P G V V D H G I F | | |
| UniRef90_W51H18 | Y | V V D L H [L G Q I D P Q E L L A Q D L I T T V G V V E H G L F | | |
| UniRef90_UPI0003B55D8C | L | I L D C S G L L D N P Q A M A A T L D S I V G V V E H G L F | | |
| UniRef90_W6RAI3 | Y | I I D A S F G R I P D A E A L S N E L N S I P G V V E H G L F | | |
| UniRef90_S1NAU3 | Y | I I D L H [L A E I P D P H A L A E E L I H M T G V V E H G L F | | |
| UniRef90_M7QIZ7 | I | I L D V S G L D M S E P T E L E Q R L N S L S G V V E N G I F | | |
| UniRef90_UPI0003474AC3 | E | I L D V K G L A I I S D P C G L E A V I N A W P G V V T V G L F | | |
| UniRef90_M0PKP2 | L | V L D C A F G A I A D P A A L S A T L S S I P G A V E H G L F | | |
| UniRef90_A0A059ISV4 | Y | I I D L H [L G R I G N A R Q M A L V M N Q I P G V V E N G L F | | |
| UniRef90_W5MSQ8 | F | L D W K F D R E H N W K E V N T A I K M I P G V V E T G L F | | |
| UniRef90_K9RPC7 | M | V V D V R F D N I I S D P D N L E K T L N N I P G V V L E N G I F | | |
| UniRef90_UPI000470594E | Y | I I D A S F G R I P D A E A L S G E L N S I P G V V E H G L F | | |
| UniRef90_UPI0003F72707 | Y | V D C A F E A M G D P A A V H R E I R L T L P G V V E T G L F | | |
| UniRef90_D5ALR5 | Y | V D L H [L N R I I G N A R A L A V A L N Q I P G V V E N G L F | | |
| UniRef90_T1AI74 | Y | V N C N F G K I I S D P V H E S Q I K M L P G V V E V G L F | | |
| UniRef90_UPI000469CA9C | W | I D C H L E A I A E P R A L A P R F N A I P G V V E N G L F | | |
| UniRef90_F0TCI8 | F | I Y D V K F S V D N P K L L E V E L N A L P G V V V E N G I F | | |
| UniRef90_G2SRP4 | Y | I I D L H [L G Q I D N P H E L A E Y L I H Q V G V V E H G L F | | |
| UniRef90_W7CC24 | Y | L D L Q F E P I T D P I S L A T E L K M M T G V V E H G L F | | |
| UniRef90_K7SQQ0 | Q | L D V A N L N F D E P I K M E D A I N K I I P G V V E N G L F | | |
| UniRef90_A3Z9C3 | L | V L D V R F G E I A D P R A L E Q T I I N N I P G V L E N G L F | | |
| UniRef90_UPI00046A1403 | L | I I D A D F G L I D N P V K L S S E L N Q I P G V L E N G L F | | |
| UniRef90_R9T791 | M | Y D C K F E G L S D P Y D L A L K L N S I P G V V E N G L F | | |
| UniRef90_B3S327 | F | L D V T F N S A M D W S K T N Q D L T M I P G V V D T G L F | | |
| UniRef90_UPI000362F473 | L | I I D C A F G P I A D P E A L L A A A L S D I P G M L G H G L F | | |
| UniRef90_F6ANI3 | H | L D V R G L K I A E P L A F E S D V N Q W P G V V T V G V F | | |
| UniRef90_Q8D252 | V | L D V H N L I L D S L F L E E K I I N N I P G V V S V G L F | | |
| UniRef90_D7EAR3 | L | I I D A D F D V E N P N N L A S E L S A I I P G V V E H G I F | | |
| UniRef90_Q839H2 | Y | I I D L H [L E K I T D P E A L L G S Y L D N L V G V V E H G L F | | |
| UniRef90_UPI0002FB769D | Y | V D C K F Y K E N P A E L S V K M N A I P G V V E N G L F | | |
| UniRef90_A0A017SBX3 | W | I D T D F G P D D P A A L D A R L R I P G V L D N G L F | | |
| UniRef90_UPI0003759DA9 | Y | I I D C A C G V E D P E V L A A E I I R G I V G V V E H G I F | | |
| UniRef90_E3DMJ6 | Y | I I D C D F G K I E D P I K I T T E L N K L P G V V E N G I F | | |
| UniRef90_R2QRG6 | Y | I I D L H [L D I E D P H A L A A E L D T C V G V V E H G L F | | |
| UniRef90_D3SVA8 | L | L D C E F G T I A D P D A L A T T L A S I I P G V V E H G L F | | |
| UniRef90_Q1GF74 | H | L D L H [L N R I I G N P R Q L A L V L N Q I P G V V E N G L F | | |
| UniRef90_C7NUC0 | L | I I F D A D F G A I D D P E T L A T E I I A T I P S V V E H G I F | | |
| UniRef90_K0DC42 | Y | I I D L H [L G D I I N P Q T L A D Y L I N Q V G V V E H G I F | | |
| UniRef90_S4DBX5 | I | D L H [L Q T I E E P E K L A H Y L D S L V G V V E H G L F | | |
| UniRef90_J0DZG3 | F | L D W N F P K T E D L A A L H T R I I S L P G V V E T G L F | | |
| UniRef90_Q0FIP9 | Y | I I D L H [L S R I I G N A R Q L A M L V N Q I P G V V E N G L F | | |
| UniRef90_K8NM56 | W | V D A H L G R I P D P P R L A A L L S A I I P G V V E H G L F | | |
| UniRef90_H5WP91 | P | L D V K G L S I T D P L A M E T E V N Q W P G V V C V G I F | | |
| UniRef90_UPI0003617D98 | F | I I D C R C L A I P G P E A L L E I E L N R I P G V V E N G L F | | |
| UniRef90_F8F3R8 | L | L D I R F P A P M D P E E L E S R I I N Q I P G V V E N G L F | | |
| UniRef90_UPI0003B63F3A | Q | V D C H F G Q L N D V Q K L A S Q I I T I P G V V E H G L F | | |
| UniRef90_UPI000368BA21 | Y | I I D C Q L G K I A D P E R L D L E F H L V P G V V E T G L F | | |
| UniRef90_UPI0003710A55 | V | V D V R G L K I S D P L A F E S E V N Q W P G V V T V G V F | | |
| UniRef90_G6F1H5 | M | I I D C N F G L I T D P A K L E K E E L N S I V G V M E C G F | | |
| UniRef90_F6TG15 | F | L D W K F D K V H E W K A V V N T E I K M I P G V V D T G L F | | |
| UniRef90_K2NTW3 | Y | I I D L H [L S E I A D P E K L A A E E L D L T V G V V E H G L F | | |
| UniRef90_E8WXH2 | F | V D C F V G K I A D P V M V A A E V R A L V G V V E H G L F | | |
| UniRef90_B2GEH9 | Y | I I D L K M G K I D A P K T L A E D L I H T V G V V E H G L F | | |
| UniRef90_UPI000051A7C2 | F | L D W H F P D I S N W D K I N L E I S M I P G V V E T G L F | | |
| UniRef90_U1QRL8 | L | V D C A F G P L D S P G A L A T D L G I P G V V A H G L F | | |
| UniRef90_X1SEA3 | A | I I D V V Y H L N L I E P L K M E G I L N N I T V G V V T S G I F | | |
| UniRef90_I4X5Q7 | Y | I I D C A F E S I E D P K V L H N E L K L L L G V V E T G L F | | |
| UniRef90_I7DRM6 | H | L D L H [L N R I G N V R Q M A L V L N Q I P G V V E N G L F | | |
| UniRef90_UPI000249304E | Y | I I D L H [L H D I L D P E T L A A D L I K E V G V V E H G L F | | |
| UniRef90_W1Q4G0 | I | I I D L L K L G Q I P Y P H Q L A A H E L K N T V G V V E H G L F | | |
| UniRef90_F2I5Y3 | Y | I I D L H E V E D P K A L A D E L I H L V G V V E H G L F | | |

| | 1 | 10 | 20 | 30 | 40 |
|------------------------|---|----|----|----|----|
| UniRef90_H8IAA2 | P V P I E V L P Y A R R L V E R K V A E L G G R C M M R M P I I S D N G N | | | | |
| UniRef90_UP100047E1E1C | G A F P V P V E V I P M A T A R I T R Q F A A M G G T A R L R T P V V T D N G Q | | | | |
| UniRef90_L0I9N5 | W P P V P V A V L Q G A E S V V A E R L R G L G G P T L R E P V V T D D G H | | | | |
| UniRef90_M0CX35 | P P P V P V E V L P D A R T P V A D A V R R L G G R P E L R R P V V T D N G N | | | | |
| UniRef90_D8J531 | P P P L P V E V L P A A R R P V S E V V E G L G S T P D L R G P V V T D N G N | | | | |
| UniRef90_F0QWE3 | K H P I P I E V I P F A W S I K A R L F E E L G G T A E L R G P I V T D N G N | | | | |
| UniRef90_X7EJV5 | G R F P L P V E V V P F G R D T T L E A M D V M G R E T R L R M P F V T D E G N | | | | |
| UniRef90_A3VZM0 | G A F P L P V E V I P F G W Q T T K S L V E E L G R N T S L R M P F I T D E G N | | | | |
| UniRef90_UP10004709476 | P P V P V E V I P F G W E N V A V R L G H L G A Q V T P R K T Y L T D E K N | | | | |
| UniRef90_D0MER0 | R W P V P I E V L P M A A E P V L R Q L R R M G A E P V L R M P V V T D Q G F | | | | |
| UniRef90_UP100047B126F | G A F R L P V E V I T F G Y E M T E K H R A I G L V P E I R T P F I T D N G N | | | | |
| UniRef90_B6JUX1 | V P V P V E V V P M A Y T F V L R E L K R L G C P K L R M P L V T D N G N | | | | |
| UniRef90_G2KV06 | S Y P V P L E V I P Y G S K Q L E K R L A K M G L N P R L R Q P V L T D S K N | | | | |
| UniRef90_K0RC06 | F F P L P V E I T P F C H E H T L R T I A S L G C D A V L R M G A V T D N G N | | | | |
| UniRef90_Q92D46 | G K F P L P L E V I P F G W K Q I K R M L E N D G V E T T R E I Y E T N N G N | | | | |
| UniRef90_T0LJI5 | K F P L P V E V I P F G H D T T K K E L A L G L S C Y R D D F I T D N G N | | | | |
| UniRef90_Q2IUM8 | G H F P L P V E V I P F G L A A T R R A I E Q A C A E V Q L R E G F V T D G G H | | | | |
| UniRef90_S9QW58 | G A F P L P V E V V P F G W T A T R A L I E E L G R T T S L R M P F V T D E G H | | | | |
| UniRef90_D3HD18 | G A F K L P V E V V Q Y G A D R I F R E F E K K G Y K P S Y R M A F V T D M K N | | | | |
| UniRef90_Q6BY14 | V P P I E I V P C A Y G A D R I F R E F E K K G Y K P S Y R M A F V T D N N N | | | | |
| UniRef90_X0PJ70 | G S F P L P L E V I P Y G S H Q L F Q R L A N R G F N P V F R M K V L T D S N N | | | | |
| UniRef90_UP1000468E98D | G S F P L P V E V I P Y G S G T V L E N F K Q K G L N P K F R I N L K T D S G N | | | | |
| UniRef90_O29319 | S M P V P V E V L P F A Y G W V L R E I E K M G C K A R L R E P V I T D N G N | | | | |
| UniRef90_UP100036E4144 | G A F P L P V E V I P M A A Q R V M R Q F A A M G G I A Q V R E P P L V T D N G Q | | | | |
| UniRef90_X6KV81 | G N F P L P V E V I P F G W Q T S Q A L I E E M G R K A T R M P Y M T D E G N | | | | |
| UniRef90_I5C645 | G R F P L P I E V N S F G L G A T V R T I E R L G L E G A L K K P F V T D G G H | | | | |
| UniRef90_B9QW33 | G Q F P L P I E V V P F G Q E A T R R A L R E M G L N L Q L R M P F V T D G G H | | | | |
| UniRef90_UP100036F166E | G A F K L P V E V P Y G A E R L R H F A Q K G Y S P A F R E A Y V T D M G N | | | | |
| UniRef90_UP100037DD02E | G Q F K L P V E I V P F C Y E W T L R L R R Y N V A E M R M N Y V T D N G N | | | | |
| UniRef90_G8PB52 | G K F P L P L E V I P Y G S G Q L F K K L E A K G L H P E F R M R M V L T D S K N | | | | |
| UniRef90_A0A026WGX1 | G P F P L P I E V V P M A Y V P I R R K I E D Y G G S A K I R M P V V T D N G N | | | | |
| UniRef90_Q04HC0 | G A F P L P V A D V P F G S Q H V M Q N F D K A G Y E P V L R K P F K T D S N N | | | | |
| UniRef90_U1PQ20 | G P F P L P V E V P S V L P M A Q T P V K R H E S L G A T P T L R G P V I T D N G N | | | | |
| UniRef90_A3V6R0 | G A F P L P V E V L P F G M Q I T R G L I E E L G R D V I Q R M P Y V T D E G N | | | | |
| UniRef90_F1A1M7 | G P F P L P I E V I P M A Y V P V M M K K L E S L S L K P V L R M P V V S D N G N | | | | |
| UniRef90_A6X0Q4 | G R F P L P V E V N R F G L G A T M M R A I E E L A G P A L R L P F V T D G G H | | | | |
| UniRef90_D7V0W4 | G K F P L P V E V I P F G Y K Q V A N K L Q K R S A D A R R K T Y V T D N G N | | | | |
| UniRef90_UP100029AB6CB | G K F P L P V E V I P Y G S Q K I F E R F V K E D Y Q P T F R Q K K T D S G N | | | | |
| UniRef90_A3PL91 | G A F P L P V E V V P F G W Q S T K M L I E E L G R E V T L R L P L L T D E K N | | | | |
| UniRef90_X1YP3 | G P F P L P I E V V P M A Y V P I R R D R I A S F G S L K I R M P V V S D N C N | | | | |
| UniRef90_X1IVJ3 | G S F K L P V E V V Q Y G S E R L F R L F S D K G Y K P S F R E K F V T D M Q N | | | | |
| UniRef90_UP10003735AF2 | G P F P L P V E V E R F G A D A T L K A L A A L G C E P K L R S P F I T D G G N | | | | |
| UniRef90_A0A023X4P1 | G V F P L P V E V N P F A H E T T A Q M I C E L S G E V A L R G P V V T D G G H | | | | |
| UniRef90_J9E1Y6 | G A F P L P V E V I P Y G S Q K I C H I L T E R G Y Q P T F R E F L R T D S N N | | | | |
| UniRef90_R2SAT8 | G A F P L P I E V N R F G L A A T T L A I E R L L S G A V T L R E P F V T D G G H | | | | |
| UniRef90_J3HRR3 | G R G V P V E V I P M A Y A S I L P Q L V E L G A E P K L R M P V V T D N G N | | | | |
| UniRef90_Q9UTL3 | G K F P L P V E V I P F G Y R A T L A K L A Q L G E P S L R M P F Y S D G G H | | | | |
| UniRef90_D7BF7Y | G P F P L P V E V I P F G Y R A T L A K L A Q L G E P S L R M P F Y S D G G H | | | | |
| UniRef90_UP10004671733 | G K F P L P V E V N P F G L G A T R L A I E T L S G A I V L R E R F V T D G G H | | | | |
| UniRef90_UP1000225F9D2 | G Q F H P L P V E V I P F G W Q A T Q R A L E R L L S L W P R L R P L R T D E G N | | | | |
| UniRef90_UP100021955D7 | G Q F R L P V E V I P F G A E Q V F N R F Q D M G L A P S F R M R L V T D A G H | | | | |
| UniRef90_UP100046750E6 | G A F P L P I E V I P F G W A L V E E M L I V L G R H V T L R M P F V T D E G N | | | | |
| UniRef90_D8LXP9 | A V P P V E I T P F G W K Q T Q K R L S K Y G E A V L R K P L V T D N G N | | | | |
| UniRef90_W4XC10 | G P F P L P V E V I P M A Y R P V I K T I Q K F G G S P E L R M P V V T D N G N | | | | |
| UniRef90_UP1000381CD77 | G A F P L P V E I D P F G A K H V E R A A R D L G G T V G P R L K F V T D G G H | | | | |
| UniRef90_U5PB65 | G A F K L P V E V V Q Y G A E N L F R H F E K K G Y S P A Y R E K F V T D Q G N | | | | |
| UniRef90_I7LQE1 | G A F P L P V E V V S F G C G Q L F R L F D K L G F R P T F R D L I T D M G N | | | | |
| UniRef90_UP10002DF16F9 | G A F P L P V E V V Q F G W K Q T E R L V R R V L A E H G I R E T V V T D S G N | | | | |
| UniRef90_J2ZRU6 | G S F P L P V E V I P Y G S Q Q L F K R L A A K G L H P A F R Q R V L T D S K N | | | | |
| UniRef90_W1Q6V8 | G A F P L P V E V V P A A Y T K V S L D L A K L G G K P V V R G P V V T D N G N | | | | |
| UniRef90_Q0G024 | G A F P L P V E V N G F G L M S T F M A I R R L T G D I V L R Q P F I T D G G H | | | | |
| UniRef90_Q8UEZ0 | G A F P L P V E I N P F G Q V A T R A I E K L G S G E L T M A F M T D G G H | | | | |
| UniRef90_R0D1K1 | G K F P L P V E V V R F G H V T G R R L A D I A A E P R L R Q A V V T D G G H | | | | |
| UniRef90_R4VWQ3 | A V P P V E V L P A A R T T V A E E L R D I G G E P T L R D P V V T D N G N | | | | |
| UniRef90_Q3K0S0 | G A F K L P V E V V R Y G S R L F R V F K S G Y C P S F R E R F I T D M G N | | | | |
| UniRef90_U5QS13 | G A F K L P V E V V P F G W R T Q T R L Q N M G R P T L R Q A Y L S D G G H | | | | |
| UniRef90_E4NR12 | A V P L P V E V L P D A R T A A A R V S E L D G E A T L R R P V V T D N G N | | | | |
| UniRef90_I7J102 | F P L P V E V L P I S C E Q N F K R F E E K G L K P V W R M D Y V T H Y G N | | | | |
| UniRef90_F7Z4Y2 | G A F P L P V E V V P F G Y K H L V K T F E R E G L N P V L R M P Y V T D G G H | | | | |
| UniRef90_W8BWM5 | G P F P L P V E V I P M A Y V P I K E R I A R F G G E L K L R M P C V T D N G N | | | | |
| UniRef90_H1LIZ1 | G S F P L P V E V I P Y G S K Q L F K R L E I G G Y H P K F R M K V M T D S N N | | | | |
| UniRef90_L9XCF7 | G P F P L P V E V L P E A H T V V A E R I A E L G G E A T L R D P V V T D A G N | | | | |
| UniRef90_B8DEG0 | G K F P L P V E V I P F G W K Q I E R T L A K E Q I Q T N L R E V Y V T N N G N | | | | |
| UniRef90_U5SB01 | G A F P L P V E V M P Y G S Q Q L V R I F E E K G F H P T M R K N Y L T D G G H | | | | |
| UniRef90_K9P9N6 | F L P P V E V L P G A W R Q V R D E L T A M G S R V E L R M P V V T D Q G N | | | | |
| UniRef90_E3C7W3 | G N F G V P V E V I P F G A Q H V F N Y F A K Q G Y H P A W R L K Y R T D E K N | | | | |
| UniRef90_F7XM76 | G P F P L P V E V L P S Y S R N L V C N Q I K T L G G N P T R M P V I T D N G N | | | | |
| UniRef90_UP1000367E1CA | G R F P L P V E V N R F G L R A T A A E K L G G S V L R E T F V T D G G H | | | | |
| UniRef90_A2BYL5 | F P L P V E V L P S A W K Q V K D I I S E M N G V S D R M P V V T D Q G N | | | | |
| UniRef90_W6TCY7 | G A F G L P V E V I P Y G S K H V F D K M A A R G Y N P V F R E F V T D S N N | | | | |
| UniRef90_UP10004635613 | G R F P L P V E V I P F G L A T R R A I Q V S G E M V L R K A F V T D G G H | | | | |
| UniRef90_R3WBQ3 | G A F A L P V E V M P Y G S Q Q L Y R L F E K K G F A P S F R K N L T T D G G H | | | | |
| UniRef90_UP10004173241 | G R F P L P V E V I P F G L G A T R R A I E G V S G Q M D V R K A F V T D G G H | | | | |
| UniRef90_V4YSB2 | G V F P V P V E V I P M A S K R I C A Q F A A M G G E A V V R Q P L V T D N G Q | | | | |
| UniRef90_S0FF44 | G T F F P L P V E I L T Y G Y H I L R K L E L L S L S P V L R G P F L T D N H N | | | | |
| UniRef90_G6CCD1 | G R F P L P V E V I P F G S Q Q L V R N K M A K E G L N P E R M H V L T D S K N | | | | |
| UniRef90_Q8ZXY8 | G P F P V P V E V V P W A R F V A R E V E R F G G V A K L R Q P V V T D N G N | | | | |
| UniRef90_UP100036F7B1B | G A F P L P V E V I P F G Y K M V M K E L E R K G L Q S T R R P Y E T D S K H | | | | |
| UniRef90_A9H338 | R V A V P V E V T S F G W E S T A R Q L G E L G A R V S Q R M D F V T D G G H | | | | |
| UniRef90_UP100036FCCD8 | G K F P L P V E V L P G F G S Q Q L Y R L F E K K G F A P S F R K N L T T D G G H | | | | |
| UniRef90_T1AZP0 | G R F P L P V E V I P M A R S L V A R A L V R V L G G T V T R M P F V T D N G N | | | | |
| UniRef90_M1SVK6 | G N F A L P V E I P L S K G I V S Q S E L A K L G G T V T R M P F V T D N G G | | | | |

| | 50 | 60 | 70 |
|------------------------|---|----|----|
| UniRef90_H8IAA2 | I M D C D F G P I E S P A L L S Q K L S A I P G L V E H G I F | | |
| UniRef90_UPI00047E1E1C | H I L D V V V G L K I A Q P L A F E A E V N Q W P G V V V T V G I F | | |
| UniRef90_L0I9N5 | L V L D C D F G E I G D P G T L A T A L S T I P G V V E H G L F | | |
| UniRef90_M0CX35 | L V L D C E F G A M P A P T G L A A A D L S A L P G V V E H G L F | | |
| UniRef90_D8J531 | L V L D C D F G R I E E P A D L A Q K L A S S I P G V L E H G L F | | |
| UniRef90_F0QWE3 | Y I I D Y M P K A V M N P D D M E R I I K E I P G V V V E V G I F | | |
| UniRef90_X7EJV5 | H I I D L H L G R I G R P R Q L A M I L N Q I P G V V V E N G L F | | |
| UniRef90_A3VZM0 | Y I I D L L H L G R I G A A H Q L S M A L N Q M P G V V V E N G L F | | |
| UniRef90_UPI0004709476 | L I I D C V F G P I A D P H T L G D A I H R I V G V V V E H G L F | | |
| UniRef90_D0MER0 | W V I I D A R F G G I D D P H A L A V T L S T M P G V L D H G L F | | |
| UniRef90_UPI00047B126F | Y I I F D C Q I P E H V Q P E M L E R M L N M I P G V V V E N G L F | | |
| UniRef90_B6JUX1 | F I I D A N F G L I D K P E E L F K Q I K L I I G V V E V G I F | | |
| UniRef90_G2KV06 | Y I I D L F L D H I D D P K E L A S T L D S I T G I V V E H G F F | | |
| UniRef90_K0RC06 | Y I V D L H F K E I K D A P A M A S E L K N T V G V V D H G L F | | |
| UniRef90_Q92D46 | Y I L D I N Q T F T N P E P A W H E K I L A G I P G V L E H G L F | | |
| UniRef90_T0LJI5 | L I C D C T P T E K V D L Q L N Q R I K E I T G V V E T G L F | | |
| UniRef90_Q2IUM8 | W I I D A H L G R I P D A P R L A Q L L S A I P G V V E H G L F | | |
| UniRef90_S9QW58 | Y I I D L H L N R I G N A R Q L S L V L N Q I P G V V V E N G L F | | |
| UniRef90_D3HD18 | Y I I D L D L G V I E N P V E L G K E I L K A M V G V V E H G L F | | |
| UniRef90_Q6BY14 | F L I D A D F G E I E D D P A K H T D I K Q L V G V V E T G L F | | |
| UniRef90_X0PJ70 | Y I I D L H L H Q I Q D P Q G L A F T L N Q M T G I V E H G L F | | |
| UniRef90_UPI000468E98D | Y I I D L H L Q E I K Q P H E L A E Y L I H Q V G V V E H G L F | | |
| UniRef90_O29319 | F V V D C D F G V I E E V E G L E G E I K L I S G V V V E N G I F | | |
| UniRef90_UPI00036E4144 | H V V D V T G L R I T D P L G F E S T V S Q W P G V V T V G V F | | |
| UniRef90_X6KV81 | H L I D L H L G R I G N A R Q L A M V L N Q V P G V V V E N G L F | | |
| UniRef90_I5C645 | L I V D A S F G R I P D P R A L A N A L N A I P G V V V E H G L F | | |
| UniRef90_B9QW33 | H I F D A H L L K I E D D P E T L A Q A L V K I P G V V V E H G L F | | |
| UniRef90_UPI00036F166E | F I I D L D L K V I A D D P V A L A L E L D T T V G V V E H G L F | | |
| UniRef90_UPI00037DD02E | Y I I A D A A F G K I E S P G K L S D E L K A T T G V V E H G L F | | |
| UniRef90_G8PB52 | Y V I D L H T G K I D N P H E L A D Y L I Q Q V G V V E Q G L F | | |
| UniRef90_A0A026WGX1 | F I I L D W Q F G N L T D D W N K I I N T E I S L I P G V V V E T G L F | | |
| UniRef90_Q04HC0 | L I I D L H L H K I I E E P T Q L A D N L I Q T V G V V E H G L F | | |
| UniRef90_U1PQ20 | L V F D C A F G S I E D D A E S V S Q S L A G I P G V V V A H G L F | | |
| UniRef90_A3V6R0 | F I I D L H L K S I G N P R Q L A M M L N Q I P G V V V E N G L F | | |
| UniRef90_F1A1M7 | F I I D A I F P P L Q N I P Q L A L D I K M I P G V V V E T G L F | | |
| UniRef90_A6X0Q4 | Y V D A S F G R I P D P K T L S D A L F A I P G V V V E H G L F | | |
| UniRef90_D7V0W4 | Y L D V Y D Q A F T D P A E W Q D W L Q K V P G I V E Q G F F | | |
| UniRef90_UPI00029AB6CB | Y I I D L H L Q Q I K H P H Q L A L K L K R Q V G V V V E Q G F F | | |
| UniRef90_A3PL91 | Y I I D L H L K R I I G E P R Q L G L A N Q I A G V V V E N G L F | | |
| UniRef90_X1YP3 | F I I D W H F E D D H D W D A V N R E I M M I P G V V V E T G L F | | |
| UniRef90_X1IVJ3 | F I I D V N F G V I P D P G E L N L S L T I P G V V V D T G L F | | |
| UniRef90_UPI0003735AF2 | F I I D L D L G T I P D P E K L A D E D L D H Q V G V V V E H G L F | | |
| UniRef90_A0A023X4P1 | Y T A D C Y F G E I E D D P A R L E A E I K S I P G A L E E C G L F | | |
| UniRef90_J9E1Y6 | Y I Y D C A L G L I D E A S S L S E A L L N I P G V V V E H G L F | | |
| UniRef90_R2SAT8 | L I I D L H L G T I A K P E Q L A T E L T N M V G V V V E H G L F | | |
| UniRef90_J3HRR3 | L I I D A S F G R I P D T R A L S D A L H A I P G V V V E H G L F | | |
| UniRef90_Q9UTL3 | F I I D A H F G L I K N P K E L F A K I K L L V G V V V E V G L F | | |
| UniRef90_D7BFY7 | L I A D V R F G P I S D P Q G L E A R L K S I P G V V V E S G L F | | |
| UniRef90_UPI0004671733 | V I I D A S F G R I P D P L A S D A L H A I P G V V V E H G L F | | |
| UniRef90_UPI000225F9D2 | L I I D L D A L E A I P D P E A L A A E I S A L A G V V V E H G L F | | |
| UniRef90_UPI00021955D7 | H I I D L D V S N V N N P Y R L A D D I K A M T G V V V E H G F F | | |
| UniRef90_UPI00046750E6 | H I I D L H L N R I G N A R H L A M V L N Q V P G V V V E N G L F | | |
| UniRef90_D8LXP9 | Y I I D L R F P E I S N S P K E M D K E L K I T G V V D H G L F | | |
| UniRef90_W4XC10 | F I I D W K F D K N P E W D T V N N R E I M M I P G V V V D T G L F | | |
| UniRef90_UPI000381CD77 | L I I D C A F G A I I S D P D A L A D R L S A I P G V V V E H G L F | | |
| UniRef90_U5PB65 | Y I I D L D L K V I Q D A E A L A N E L D H T V G V V V E H G L F | | |
| UniRef90_I7LQE1 | H I I D L H L E K I E D D P A R L I K L D Q T V G V V V E H G L F | | |
| UniRef90_UPI0002DF16F9 | F I I D C H O G P I T D D P A P L E I E L N R I P G V V V E N G L F | | |
| UniRef90_J2ZRU6 | Y V I I D L H L G Q I D D A F R L A Q Y L N Q Q V G I V E H G L F | | |
| UniRef90_W1Q6V8 | F I I D C D F G E I P Q V A E L M A K I K A L V G V V V E T G L F | | |
| UniRef90_Q0G024 | L I I D A S F G R I P D P E A L S A A L R S I P G V V V E H G L F | | |
| UniRef90_Q8UEZ0 | L I I D A S F G R I P D A E A L A R E L N T I P G V V V E H G L F | | |
| UniRef90_R0D1K1 | L I I Y D M A S G R I D E P P A A L A T A L K S I V T G V V D H G L F | | |
| UniRef90_R4VWQ3 | L V I I D T D F G E I D D D P P S L A T A C S G I P G V V L D H G I F | | |
| UniRef90_Q3K0S0 | Y I I I D L D L K K I E D D P K Q L A N E L D H T V G V V V E H G L F | | |
| UniRef90_U5QS13 | Y I I I D C A T G P I A D D P A G L E I A L A T T I G V V V E S G L F | | |
| UniRef90_E4NR12 | L V I I D C E F G Q I S D P P E S L A A D L S A T P G V V V E H G L F | | |
| UniRef90_I7J102 | Y I I I D L G L D K I I E K P Y D L A D Y L D H T V G V V V E H G L F | | |
| UniRef90_F7Z4Y2 | Y I V D I D R L Q T P D I G A F G A W L D S I T G V V V E H G L F | | |
| UniRef90_W8BWM5 | F I I D W H F K E S C D W A K V N G E L L Q I P G V V V E T G L F | | |
| UniRef90_H1LIZ1 | Y I I I D L H M S K I I N N S Q K V A A S S L D H M T G V V V E H G L F | | |
| UniRef90_L9XCF7 | L V I I D C A F G P I G E P G E L A E R L L S S I P G V V V E H G L F | | |
| UniRef90_B8DEG0 | Y I I I D I V N Q S F T D A E M W Q E K L A Q I P G V V L D H G I F | | |
| UniRef90_U5SB01 | Y I I I D L Q M D K I E D P N S L A G W L D S I T G V V M E H G L F | | |
| UniRef90_K9P9N6 | L V I I D V A F G G G I G D P A A L E A T I I N N I P G V V L E N G L F | | |
| UniRef90_E3C7W3 | F I I I D L K V G E I A D D P K A L A E D L I H T V G V V V E H G L F | | |
| UniRef90_F7XM76 | F I I I D A S F G V I P D T R A L S K E L S G C T G V V V E H G I F | | |
| UniRef90_UPI000367E1CA | F I I I D A S F G R I P D T R A L S D A L H A I P G V V V E H G I F | | |
| UniRef90_A2BYL5 | L V I I D V L V F N T I K D P K D L E M R I I N N I P G V V L E N G L F | | |
| UniRef90_W6TCY7 | Y I I I D L H I N P I T D P H A L A E D L I H M V G V V V E H G L F | | |
| UniRef90_UPI0004635613 | W I I D A H L T R I Q D A R R L A G G L S T I P G V V V E H G L F | | |
| UniRef90_R3WBQ3 | Y I I I D L H L E V I E D P R A L G T Y L D Q L V G V V V E H G L F | | |
| UniRef90_UPI0004173241 | W I I I D A H L G R I P E P P R I A A A L S S I P G V V V E H G L F | | |
| UniRef90_V4YSB2 | H I I D V R G L V V A D P L A F E S Q V N Q W P G V V T V G I F | | |
| UniRef90_S0FF44 | Y I I V D L H I G K G F D I K Y V S E Q V L K A I P G V V L E T G L F | | |
| UniRef90_G6CCD1 | Y I I D L H L N Q V Q H P H L A S W L S E Q V G V V V E H G L F | | |
| UniRef90_Q8ZXY8 | Y I I D W N P P G F I D D P Y L E D E D L K A I P G V V V E N G V F | | |
| UniRef90_UPI00036F7B1B | Y I I I D K A G N A G D I Q A L G A W L D S I S G I V E H G L F | | |
| UniRef90_A9H338 | M I I D C A F G P I A D D P P Q L A A D I R A V G V V I E S G L F | | |
| UniRef90_UPI00036FCCD8 | Y I I F D L N L G E I Q N P R K I C V D L N I P P G V V V E N G L F | | |
| UniRef90_T1AZP0 | W I I D V H G L R I T D P P | | |
| UniRef90_M1SVK6 | W I I D V A G L K I S N P L A L E V Q I N Q I A G V I T V G L F | | |

| | 1 | 10 | 20 | 30 | 40 |
|------------------------|-----------|----|----|-----|-------------|
| UniRef90_Q2FLE9 | P | I | P | I | S D N G N |
| UniRef90_K7SGF2 | P | V | P | V | S D N R N |
| UniRef90_Q2S577 | P | V | P | V | T D Q G L |
| UniRef90_D5MH12 | P | V | P | V | T D N G N |
| UniRef90_E2A059 | P | V | P | V | T D N G N |
| UniRef90_C5E421 | P | V | P | V | T D N N N |
| UniRef90_K1QVV1 | P | V | P | V | T D N G N |
| UniRef90_Q2IA08 | S F | P | L | P | T D N D N |
| UniRef90_L0PFR9 | P | V | E | I | T D H G N |
| UniRef90_UP10003FB407F | G R F | P | L | P | T D N G Q |
| UniRef90_B8BUF5 | F P | P | V | E | T D N G N |
| UniRef90_G7MC82 | G E F | P | L | P | T D N G N |
| UniRef90_C6VYP5 | G K F | T | V | P | T D N G N |
| UniRef90_R62FP4 | R F | P | V | E | T E N G N |
| UniRef90_A8LINO | G A F | P | L | P | T D E G N |
| UniRef90_X5QUY5 | G R F | P | L | P | T D G G H |
| UniRef90_I8UHS6 | G A F | P | L | P | T D S G H |
| UniRef90_W0RDQ8 | T F | P | V | E | T D G G N |
| UniRef90_A0A059FIL1 | G K F | P | L | P | T D G G N |
| UniRef90_E5SAM9 | G T F | P | L | P | T D N A N |
| UniRef90_F8HYA4 | A V | P | V | E | T D G G H |
| UniRef90_V4XM77 | G E F | P | L | P | T D N G N |
| UniRef90_K6TX98 | G A F | P | L | P | T D N G N |
| UniRef90_UP100047D4C5B | G R F | P | L | P | T D G G H |
| UniRef90_C8NHS1 | G N F A | L | P | V | T D S K N |
| UniRef90_B1XU95 | G K F | P | L | P | T D S D N |
| UniRef90_UP1000474BCA8 | G Q F | P | L | P | T D N G Q |
| UniRef90_UP10002193C84 | G S F K | L | P | V | T D M K N |
| UniRef90_T0LRI8 | G R F S | L | P | E | T D N G N |
| UniRef90_UP100020DA0BC | G S F P | L | P | E | T D M G H |
| UniRef90_A9FJ44 | R V P | P | I | E | T D N H |
| UniRef90_S4P904 | P I | V | V | P | T D N G N |
| UniRef90_UP10002192E0D | G H F | P | L | P | T D N G N |
| UniRef90_A0A011Q8E7 | G A F P | L | P | V | T D Q G N |
| UniRef90_KON8W9 | G K F P | L | P | E | T D S D N |
| UniRef90_UP100036D983B | G Q F P | L | P | V | T D Q G N |
| UniRef90_Q1QN95 | G R F P | L | P | E | T D Q G N |
| UniRef90_E1ID11 | Q W A I | P | V | E | T D Q G N |
| UniRef90_UP10003732536 | G A A K L | P | V | E | T D Q G N |
| UniRef90_F2NWS5 | F A L | P | V | E | T D Q G N |
| UniRef90_H8MW96 | K W P | V | V | P | T D Q G N |
| UniRef90_UP10003AAE62D | G R F P | L | P | V | T D Q G H |
| UniRef90_G3IZH6 | F A I | P | V | E | T D S H G S |
| UniRef90_Q12XU6 | V P I | E | V | P | T D M K N |
| UniRef90_J7SIM4 | G A F K L | P | V | E | T D N N N |
| UniRef90_UP10003FDA865 | G A F P | L | A | V | T D N N N |
| UniRef90_A0A023D0U3 | P L | P | V | E | T D N S N |
| UniRef90_B2IHK8 | G K F P | L | P | E | T D N G H |
| UniRef90_W9EG67 | T Y P | V | E | V | T D S A N |
| UniRef90_G0W6N5 | V P P | E | V | P | T D N N N |
| UniRef90_H8X6E3 | V P P | E | V | P | T D N N N |
| UniRef90_G1SGI2 | G R F A | L | P | V | T D N G N |
| UniRef90_G4RF46 | R Y P | P | V | E | T D G G H |
| UniRef90_H8GLH3 | U N P | P | V | E | T D N G Q |
| UniRef90_Q21WC3 | G R Y P | L | P | V | T D N G Q |
| UniRef90_H1X623 | G H F P | L | P | V | T D N G N |
| UniRef90_S6BZT1 | G V F K | P | V | E | T D M Q N |
| UniRef90_B1M272 | G A F P | L | P | V | T D G G H |
| UniRef90_F9ZXG6 | G Y P | P | V | E | T S Y G S |
| UniRef90_K2NWV8 | G Q F P | L | P | V | T D G G H |
| UniRef90_A6UPJ0 | G V P | P | V | E | T D N G N |
| UniRef90_J2WS87 | G K F P | L | P | V | T D G G H |
| UniRef90_L1JQI1 | S F P | L | P | V | T D N G N |
| UniRef90_N8YN50 | G A F P | L | P | V | T D S G H |
| UniRef90_UP100047C3476 | G S F K | P | V | E | T D E G N |
| UniRef90_W6IFC4 | G P V | P | V | E | T D N H |
| UniRef90_A0A021X18 | G A F K | P | V | E | T D G G H |
| UniRef90_Q0W3M2 | V P T | E | V | P | T D N G N |
| UniRef90_F0VZ5R | V P P | E | V | P | T D N G N |
| UniRef90_T0N5R5 | G K F K | P | V | E | T D N G N |
| UniRef90_Q6G3V6 | G A F A L | P | V | E | T D N G N |
| UniRef90_Q5ENN9 | F P I | P | V | E | T D N G N |
| UniRef90_E9IJT1 | F P I | P | V | E | T D N G N |
| UniRef90_F9Q993 | F P L | P | V | E | T D N G N |
| UniRef90_C3MDE7 | G A F K | P | V | E | T D S A N |
| UniRef90_C5R9C3 | F P L | P | V | E | T D G G H |
| UniRef90_E0RNL4 | F P I | P | V | E | T D N G N |
| UniRef90_L1K4B1 | S F A L | P | V | E | T D N G N |
| UniRef90_B8GFA6 | V P I | E | V | P | T D N G N |
| UniRef90_UP100028894A8 | G V A A I | P | V | E | T D Q G N |
| UniRef90_A3UK82 | G A F A L | P | V | E | T D G G N |
| UniRef90_X0PQ6 | G R F P | L | P | V | T D S G N |
| UniRef90_UP10002195E71 | G S F P | L | P | V | T D T G H |
| UniRef90_UP1000367B9DC | G P V P | E | I | T P | T D N G N |
| UniRef90_UP10002195F7 | G S F K L | P | V | E | T D S G N |
| UniRef90_UP100047B3452 | G P L | P | V | E | T D G G N |
| UniRef90_K9EQP7 | G A F P | P | V | E | T D D N N |
| UniRef90_I4Y6Z4 | G G F P | L | P | V | T D N G N |
| UniRef90_UP100046627CA | G A F P | L | P | V | T D N G N |
| UniRef90_Q73M68 | F A L | P | V | E | T D E G H |
| UniRef90_UP100035DAFFB | G A F P | L | P | V | T D E G H |
| UniRef90_A3LP13 | V P P | E | I | V P | T D N N N |

UniRef90_Q2FLE9
 UniRef90_K7SGF2
 UniRef90_Q2S577
 UniRef90_D5MH12
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| | | 50 | 60 | 70 |
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| I | L | D Y T P V S I P D P S A L E T A I N M I P G V V S C G I F | | |
| M | L | D C T F G P I E D P E E L A R Q I D A I V G V V E H G M F | | |
| W | I | D A R F P D I E N P D A L N R R I C D R P G V L D H G L F | | |
| Q | L | D C S S P P L S D P A A F E R A I L E I P G V V G T G L F | | |
| F | L | D W H F P D I T N W V K V N Q E I S L I P G V I E T G L F | | |
| F | L | D T H F G D L D D P K K L H D N I K A L V G V V E T G L F | | |
| F | V | L D W K F T K P C D W D K C N T C K M I P G V V E T G L F | | |
| Y | V | D F F K P I A D P V A L A A Q L K A T V G V V D H G L F | | |
| F | I | I D A P F G K I N N P S V L E K S I K M L I G V V E V G F | | |
| H | I | L D V R G L A I A D P P G F E I E V S Q W P G V V T V G F | | |
| Y | V | D L H F E N I K D V P K M A S D L K A T C G V V D H G L F | | |
| Y | V | D L H G K P I D L G K Y M Y S E V E K E I P G V V E V G F | | |
| L | L | I D G D F G L I Q D P A L L A D Q I I R I V G V V E H G L F | | |
| L | L | D A W F G N I H S S L E K E I K S I T G V V E N G L F | | |
| F | V | D L H E R I G N P R Q V S L V L N Q L P G V V E H G F | | |
| F | V | L D A S F G R I P D T R A L S N A L H A I P G V V E H G F | | |
| Y | I | V D I Q L P Q D E N V E A F A A W L D T L T G V I E H G F | | |
| L | L | D V T F G G L A D P E G V A A A I R A R P G V V E T G F | | |
| Y | I | L D C H C Q R I P D A E S L A A R L S N V P G V V E H G F | | |
| F | V | D W I F P K L D D W I S I H N T I K L V G V V E T G F | | |
| Y | I | D L H D G M D S P E R L S D Y L S K E V G V V D H G F | | |
| V | V | D C A F G P I P E P G S L A A T L A G I P G V V E H G F | | |
| Y | V | D L H G K S M N D E V Y K K V N P I T G V L E V G F | | |
| L | I | L D A S F G H I C D P E A L S N A L H A I P G V V E H G F | | |
| Y | I | D L H V Y P I K P D A F G E K I K G M T G V V E Q G F | | |
| W | I | L D V A G L R I A S P A Q M E A Q I N Q I A G V I T V G F | | |
| F | I | L D A S F G R I P D P R A L S N G L F A V P G V V E H G F | | |
| Y | I | I D I D K E I A D I E L S K T L S K F T G V V E H G F | | |
| F | V | D C K F Q T I R D P V K M E S A I K M I P G V V E V G F | | |
| Y | V | D L H L E V I D Q P E E L G K Y L D G R V G V V E H G F | | |
| W | I | L D T A F G P M D A P A A V D A R I R S I P G V V D T G F | | |
| F | I | L D W I F S D Q D D W E V V N K S I P G V V E T G F | | |
| E | V | D L H D T I P F P S E L A N W L A N Q V G V I E H G F | | |
| Y | V | D L K L E I I E K P H E L A A F L D S V T G V V E H G F | | |
| F | V | D L H L G R I E E H P H L L A S W L N E Q V G L V E H G F | | |
| Y | I | D V R G L Q I H D P L A F E S E V N Q W P G V I T V G F | | |
| W | I | F D A H L G Q I P D P A S H L A G L N P I P G V V E H G F | | |
| Y | I | D C N F G P I A D L T T L A T Q L S L R T G I V D H G F | | |
| L | L | D A R F D T I A D P A A L A A E I D A V P G A L G H G F | | |
| L | L | D C K W K S P V N P H E M E E K I D G I G V V E C G F | | |
| Y | V | D C D F G P I P G D P A A L A A K I E S R A G V M A H G F | | |
| Y | I | D A S F G R I P D T K A L S D A I L F A I P G V V E H G F | | |
| L | L | D M R F A E H I D A E A L N D I L N S I P G I V E H G F | | |
| V | I | D V E F G V I E D A A E L S Q K I S T C V G V V E H G F | | |
| Y | I | D L D L G K I E N P V A L G E E L K A M T G V V D H G F | | |
| Q | L | D V T I P K E L D Y G R V A E T I K G I P G V L E T G F | | |
| L | L | D C H Y P G I D D P A A L S R A I L A I T G V V D H G F | | |
| Y | V | D A S F G A I P D P E K L S T A L E I P G V I E H G F | | |
| Y | I | D L S I T A V P N P A A L A D Q L N Q L V G I V E H G F | | |
| F | I | D A D F G T I E D P D K Q L H K D I K L L V G V I E T G F | | |
| F | I | D A D F G E I D D P I K L H K E I K Q L V G V V E T G F | | |
| F | I | D W K F D R A H K W G E V N A I K M I P G M V D T G F | | |
| Y | V | D A S F G R I S N A K A L S L A E I E I P G V V V Q H G F | | |
| L | V | D T V P E A F D S R K L D A V L N G L P G V V E H G F | | |
| I | L | D V T G L Q I S D P L A F E T L V S Q W P G V V T V G F | | |
| N | I | D L H D T I P F P E E L A T W L S N Q V G V V E H G F | | |
| F | I | D L D L G V I E N P V E F G Q K L D H V V G V V E H G F | | |
| L | V | D T A F D P G V D G K T L N T Q L N A I P G V V E H G F | | |
| L | V | D A S F G R I P D P R A L A N A L N A I P G V V E H G F | | |
| M | I | D V F I N I E D A E E T E T M L N S I P G V L E N G F | | |
| W | I | D A Q L G R I V D P P G L A R A L S T I P G V V E H G F | | |
| Y | V | D L H F K E I A D A T K A A Q A I K K I V G V V D H G F | | |
| F | I | D C H C Q P I I N P A P L E I E N R I P G V V E N G F | | |
| Y | I | D L D N I K H I T N I P S L N N R L K E I P G I V E T G F | | |
| Y | V | D V D F G A M G K P E K L D A A L R E I V G V V E T G F | | |
| Y | I | D A S F G R I P D A D A L A S N L N D I P G V V E H G F | | |
| F | V | D C A F G Q I K E P A L L G D K L S R I P G L V E H G F | | |
| F | I | D T D F G R I G N P Q E L H D H V K I P G V V G V F | | |
| I | V | I D S D F G L I D N V Q D I T K K M I P G V V V E V G F | | |
| F | F | F D A F W G R I L Q P K L L S E A L L A I P G V V E H G F | | |
| Y | V | D L V F E P I K D A V A A G E Q L K N T V G V V D H G F | | |
| F | I | D W C F P P E I E C W D D I N N E I S L I P G V V E T G F | | |
| I | L | D V Y R F P I L E P I M E K T L N A I P G V V E H G F | | |
| L | L | D A S F G R I P D A E A L A A G L L N A I P G V V E H G F | | |
| Y | I | D L H F T K M P D P F K L G R E L T S M V G V V E H G F | | |
| L | V | D V R F P A P V D P E E M E I R G L I P G V V Y E T G F | | |
| Y | I | D L F F E P I K D V R A A K A K N T V G V V D H G F | | |
| M | V | I D C G F G T I G D P T A L D I H S S I P G V V V T C G F | | |
| UniRef90_UPI00028894A8 | A | I L D C R F P P G V D H A R L A A Q I A Q I P G A L G H G F | | |
| UniRef90_A3UK82 | Y | I L D C A C T A L E D P E Q V A A R L N A I P G V V E H G F | | |
| UniRef90_X0PQU6 | F | I L D H L G V V E H P H L L A N W L S E Q V G V V E H G F | | |
| UniRef90_UPI0002195E71 | N | I D L N L H Y I D N P Q E L A E Y L E S S Q V G V V E H G F | | |
| UniRef90_UPI000367B9DC | M | I D C A F G P I A D V P A L A T R I D G T V G V V E H G F | | |
| UniRef90_UPI0002195F7 | Y | I I D N I S R V D D L A K L A E E L K S L T G V V E H G F | | |
| UniRef90_UPI00047B3452 | L | V I D C G F A P I R D P D G L Q R A I K S V A G V V E T G F | | |
| UniRef90_K9EQP7 | Y | I I D L K L D Y I D Q V Q E L A A Q L K S Y T G L V E H G F | | |
| UniRef90_I4Y6Z4 | F | I I D A P F G E Y R D P K E L L M R I K M L T G V V E V G F | | |
| UniRef90_UPI00046627CA | Q | I I D T G L R I D A P L A F E R Q V V E W P G V V T V G F | | |
| UniRef90_Q73M68 | F | I I D V K W P K A A D P K L A E E S L N K I T G V V V E N G F | | |
| UniRef90_UPI00035DAFFB | Y | I I D Y P L E S I P D P D E L A F L P T I P G V V D S G L F | | |
| UniRef90_A3LP13 | F | I I D A D F G A I K D P K A L H D Q I K A L V G V V E T G F | | |

| | 1 | 10 | 20 | 30 | 40 |
|------------------------|---|----|----|----|----|
| UniRef90_UPI0004792864 | G A F H L P I E V V H F G R K A T E R A V S E L A G P L R W R M A F A T D E G H | | | | |
| UniRef90_C2CXR7 | G A F P L A V D V E P F G S H H V L K K F S D A G F N P V V R T D F K T D S N N | | | | |
| UniRef90_M1VF90 | A M P V E V T P F C W Q H T M R K I A A L G C R A E A R R D Y V T D N G N | | | | |
| UniRef90_K0IFH0 | S W P V P I E T H P F C W Q H T M R K I A A L G C R A E A R R D Y V T D N G N | | | | |
| UniRef90_I6ZP08 | K F F V P V E V L Q F A L E S E I N F L E S L G A K T D I R K S F V T D E G N | | | | |
| UniRef90_UPI00040D8D6A | G K F K L P I E T I P F A T Q Q I A A Q L Q K R G L E P V L R K A F T T D E N N | | | | |
| UniRef90_V6ARC8 | V P V E I H P F A R N T A K K L I E G I G G K P E I R T P F I T E N G N | | | | |
| UniRef90_F5ZIN7 | G A F K L P V E V I Q Y G A D R L F R V F E K A G Y K P S F R M K L I T D M K N | | | | |
| UniRef90_F3KL71 | V P V E V H P L A R N S V I D A I R K L L G G N A Q L R S P F F T E N G N | | | | |
| UniRef90_T1C1R2 | R H P L P V E V V P F A R P F V Q K R M E A L G L P S V V R Q P F R T D N G N | | | | |
| UniRef90_M0MR53 | Y P V P V E V M P D A R E V V A E W V R E A G G E P D L R M P V F T A N G N | | | | |
| UniRef90_U5H8J3 | V P V I E V A P A F A W A K V F Q N L Q K M G C K P T L R M P V V T D N G N | | | | |
| UniRef90_X5MP16 | G N F P L P V E V V P F G A Q T T G T R I L E S G G A I S M R E P F C T D S N N | | | | |
| UniRef90_J1JVR9 | G A F P L P I E V N K F G L G A T R K A I E R L P S H I S L R M P F V T D G G H | | | | |
| UniRef90_K2LJJ6 | G Q F P L P V E V N A F G L R A T M L A I E S L S G P L A V R Q P F E T D G G H | | | | |
| UniRef90_K9B2J3 | T F K L P V E V D P F N W V H V Q R H I A S Y G V T P E R E P F V T D N G N | | | | |
| UniRef90_T2GAB9 | W P V P V E C I P W G R R F Q A A F L E S L G A T V V L R R A F Q T E Q G N | | | | |
| UniRef90_V8A786 | P V P V E I I P W G W E R V E N L L R Q T G A K C T P R R N Y M T D N H | | | | |
| UniRef90_Q5DFM4 | L P I E V I P M A F K P I Q T R I E K L L G G K V I L R E P V V T D N G N | | | | |
| UniRef90_Q1YMX7 | G A F P L P I E I N G F G M A T Y L A I R K L L E G D M I L R Q P F V T D N G H | | | | |
| UniRef90_U2AI8 | G T F P F P A E V L P F G S A W A A E A V K E L L G G T S V C R Q P F V T D N G N | | | | |
| UniRef90_A4W2M7 | G A F K L P V E V V Q Y G A E N L F R L F E K K G Y R P S F R M K H I T D M Q N | | | | |
| UniRef90_UPI000478653E | S W A L P V E V V Q F G W R V A E A A L R A L G T T P Q L R Q P F V T D E G N | | | | |
| UniRef90_S0KZG0 | G N F P L P I E V I P Y G E E Q L F S Y F E S Q E Y H P T F R E K L V T D C K H | | | | |
| UniRef90_E7NU78 | F P L P I E I A P E A R L S I M K K L E S W G V I S M V L R D P V V T D N G N | | | | |
| UniRef90_UPI00016C4BAD | L P P V E V V V T F A L T P C R K R L E T L G L P S A L R M P F V T D N G N | | | | |
| UniRef90_E0MKV7 | S F P V P I E V D R F G L A S T R N A I E K L L S G D I V V R T P Y I T D G G H | | | | |
| UniRef90_V4NTD8 | G Q F A L P I E V E P F A Y K G T I N R I T D V L S E P V L R E A F V T D G G N | | | | |
| UniRef90_E6N9Y1 | P V P L E I I P F A Y K F V E N R L L R E K G V K L V M R G P T V S D N G N | | | | |
| UniRef90_A0AH94 | G E F S L P I E V I P F G W K Q I K W S L E K E A I L E T E L R K N Y Q T N N G N | | | | |
| UniRef90_Q1AY26 | G N G P L P P V E V E P F G W E A T A E A L A A L G C E P E L R Q P F V T D G G H | | | | |
| UniRef90_S6EWG7 | V P V V E V P V A F A R V Q V H D L L K L A R T V T L R Q P F V T D N M N | | | | |
| UniRef90_A71KA7 | G R F P L P I E V V D F G V A H V A D A V R K A G C E V K L L R P F V T D Q G H | | | | |
| UniRef90_U2YXN9 | G R F A L P I E V V A F G H K T T A N R I H E I G M P A R L R T A V R T D G G N | | | | |
| UniRef90_UPI0002196FFB | Y P P L E V I P Y G S G Q L Y R R R L N R M G L H P K F R Q K L T T D S G D | | | | |
| UniRef90_K5W1L5 | V P P V E V A P F A Y A K V L H N R T L L G S T P K L R M A V V S D N G N | | | | |
| UniRef90_V4K608 | K G P L P I E V V P E A Y P L V S E E L S S L G F K A V A R E P L I S D L R G | | | | |
| UniRef90_Q0F910 | G T F D L P V E V V V K F G W K T T K R L I E N V D C R I V T R R P V I T D E N H | | | | |
| UniRef90_I7KHM7 | G G F A L P V E I I L P I S C E Q N F K R F E K E G L K P Q W R K R Y V T H Y G N | | | | |
| UniRef90_R6B3B3 | K F P V P V E C T P K A I N L V K E E I Y K Q G A H V E L R G P V I T E N G N | | | | |
| UniRef90_C5DMD9 | V P V I E V V P T S Y I R V L N D L K K L K C K A V L R Q P V V T D N C N | | | | |
| UniRef90_UPI0003A609F2 | G A F P L P V E V I D R F G F T I T A K K V F C K G A D V S L R E P F V S D G G H | | | | |
| UniRef90_UPI0002C36140 | A M P V E V V V P F C W K F T A R R L Q S L G C V A K L R E A Y V T D G G N | | | | |
| UniRef90_Q11IC0 | G T F P L P I E V N P F G L R A T R I A I E A A A R L E M R E P F V T D G G H | | | | |
| UniRef90_M9LRN4 | I P P I E V V T P F A Y A K V L Q N L K K M G S Q A V L R M P V V T D N N N | | | | |
| UniRef90_H2B0V5 | V P P I E V V P S A Y V R V T K D L E T K A K K V V V R E P V V T D N N N | | | | |
| UniRef90_A0A016VFC9 | I P P I E V V L P F A A S S V M R S L R T E G G T V Q L R M P V V I T D N N N | | | | |
| UniRef90_G0VA31 | V P P I E V V P S A Y V R V C N D L E C I I G G K A G P V V T D N N N H | | | | |
| UniRef90_M5C6T3 | V P P I E V V P F A Y A K L L Q N L H R L G S E A T L R M P I V T D G G N | | | | |
| UniRef90_V4N4Q4 | G K F P L P P I E V E P F C W K G T V N R V S D V L V E P V M R Q P W I T D G G N | | | | |
| UniRef90_S3K1Y9 | R F P P L P V E I I A A A R F P V I R E M Q K L G A S C V L R G P V I T D G G N | | | | |
| UniRef90_G7YQ17 | L P P I E V V P P M A V K P V Q I R T E V L G G D P L L R G P Q L T D N G N | | | | |
| UniRef90_C4WVS8 | I P P I E V V P F C W K F T A E K L R K L G C E A N L R K P F V T D N G N | | | | |
| UniRef90_W1NV73 | A M P V E V V V Q F C W S Y N A K R L I E K Y G G E A I L R M P L V T D N G N | | | | |
| UniRef90_J6JAR0 | G R F P L P V E V V P F G L G A T T R R A I E A A I G P V A L R Q A F V T D G G H | | | | |
| UniRef90_K0NPW4 | F A L P P V E V L P I S C E Q T K R R F E A E G L N P V F R L N L K T H Y G N | | | | |
| UniRef90_M1A5R9 | A M P V E I V P F C W E F T L R R L E M L G C V G K L R E P Y V T D N G N | | | | |
| UniRef90_R5JU55 | K F P V P V E V F P T G V V Y V E N Q L K T L G A K V V L R M P I L T E N G N | | | | |
| UniRef90_G4RM57 | R H P L P I E V L P A A W R L V A D D I K R W G G K A V L R G P L V T D N G N | | | | |
| UniRef90_I0Z3C2 | A M P V E I V Q F C W K Y V N L N R L Q N L G G V A K L R M P Y V T D N S N | | | | |
| UniRef90_E6YVW4 | G A S G V P I E V N P F G M N A T C K A I E N L G E I K L R M P F E T D G G H | | | | |
| UniRef90_T1B7B5 | R H A I P V E V V P F A R P S L A R R F A D A G Y R V R L R A G F V T D N G N | | | | |
| UniRef90_V4KPx4 | K L A I P V E I V P F C W K F T A E K L R K L G C E A N L R K P F V T D N G N | | | | |
| UniRef90_D7A674 | G T F F P L P I E V V D F G V A A I T R R G I R A A G C E G L R P F V T D Q G H | | | | |
| UniRef90_Q6FLF8 | F P L P V E I I P E A R L S I T K L L E K K G I S V V L R E P V I T D K G N | | | | |
| UniRef90_S6A8V6 | V P P I E V V A P F A Y A K V L Q N L H A I G S N A A L R M P V V S D N G N | | | | |
| UniRef90_S7PVJ1 | F P L P V E I I P E A R L S I T K L L E K K G I S V V L R E P V I T D K G N | | | | |
| UniRef90_E4L3N0 | G A F K V P V E V V V Q Y G S E R L C R V F E K A G Y C P S F R M K L V T D M Q N | | | | |
| UniRef90_UPI0003721E35 | G S F P L P V E I V Q F C G E Q V I R Y L V E I G Y E A V F R E R F I T D E G N | | | | |
| UniRef90_UPI00041A0708 | G E F F A L P V E V D P F G M A L T A E Q I Y C E N A Q T V L R Q P L V T D G G H | | | | |
| UniRef90_B1YAP9 | P I P V E V V P W A W R S V A R A V E K F G G T A K L R Q P A L T D N G N | | | | |
| UniRef90_UPI00036D0E2F | F T I P I E V I P F A W Q M A K K N L E A V V G G I G D L R P N W I T S H G S | | | | |
| UniRef90_UPI0003176C41 | G G V E P V E I I N Q L Y R M T G R L E A T G A T Q M R M A F V T D N G N | | | | |
| UniRef90_A6ZNU5 | V P P I E I V P S S Y V R V K N D L E Q L H A K V D I R Q P V V T D N N N | | | | |
| UniRef90_A0A0316X0 | P V P V E I I L P F A R A S V L L A A L G A G A V L R E P Y V T D N N N | | | | |
| UniRef90_G8BV63 | I P P V E V V P A A Y V R V Q N D L L K K L G A K I V L R Q P V V T D N N N | | | | |
| UniRef90_UPI00046E53B0 | K F P P V E V M P A A W R L V Q A S L Q T L G G R A E L R Q N A I T S H G S | | | | |
| UniRef90_UPI0004546759 | V P M E V I P V V Y V P V S X A V Q K F G S E G E L R M A V V T D N G N | | | | |
| UniRef90_XOPSP93 | P L P V E V V P Y Y G S T K V F K R L E N E G L N P K F R M Y Y L T H E H N | | | | |
| UniRef90_UPI00020D99A8 | P L P V E V I P Y G S D Q L F R R L E N D G L Q P T W R N P V R T D S A N | | | | |
| UniRef90_C2KKZ2 | G Q F P L P V E V V A F G S G K L I A E L K K R H L H P K L R Q P L V T D L G H | | | | |
| UniRef90_C6IML1 | K F P P V E V F P H A L S Y V E K E L R R L G A E I S L R G P I L T E N G N | | | | |
| UniRef90_G0UG13 | G S F K L P V E V L P I G S A H V Y Y R Y L T E L G L H P T Y R K N L T D S N N | | | | |
| UniRef90_G8ZWF9 | I P P V E V V P P A Y V R I K T K L L N E M G A S V V L R Q P I V T D N N N | | | | |
| UniRef90_UPI000219718F | G A Y P L P V E I I N G F G G I A T R I S I E K L L S G T I I G L R M S F M T D G G H | | | | |
| UniRef90_B9JW57 | K F P V P V E V D P R A L H L V E T E L E E G L D A E I T L R M P V I T E A G N | | | | |
| UniRef90_W4QCB9 | G S F P L P V E V I P F C G E K T F E D L Q K E D L K P E F R K R V L T H N K N | | | | |
| UniRef90_B1YEE3 | P I P V E V L P I P A A W R L V A R D V E R R G G K T E L R G P L I S D N G N | | | | |
| UniRef90_D1JAL5 | F P P L P V E V I P F C G E K T F E D L Q K E D L K P E F R K R V L T H N K N | | | | |
| UniRef90_UPI00021978FB | A M P V E I V P F C G E K T F E D L Q K E D L K P E F R K R V L T H N K N | | | | |
| UniRef90_UPI0002B40DD1 | G S F P L P V E V I P F C G E K T F E D L Q K E D L K P E F R K R V L T H N K N | | | | |
| UniRef90_F2L1R1 | P I P V E V L P I P A A W R L V A R D V E R R G G K T E L R G P L I S D N G N | | | | |

Sequence logo showing the conservation of amino acids at each position of a protein sequence alignment. The x-axis represents positions 50, 60, and 70. The y-axis lists UniProt IDs. Colored bars indicate the frequency of each amino acid at each position: yellow for A, red for C, blue for D, green for E, purple for F, brown for G, black for H, pink for I, grey for K, orange for L, white for M, light blue for N, dark blue for P, cyan for Q, magenta for R, and light green for S.

1 10 20 30 40

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|------------------------|---|---|---|---|
| UniRef90_B4KS42 | I P I E V A P □ A H V P V K H K I | E E L G G E A Q L R G P I V T T D N G N | | |
| UniRef90_F4LL35 | L P V E I I A E A R V S I V R E L | E E Q L G A A C C T L R E P V V T T D N G N | | |
| UniRef90_B0D6I2 | V P I E V V P F A Y A K V L Q N L | H Q V L G S P T L R M P V V S D N G N | | |
| UniRef90_U6FST2 | V P I E V V P I A A T P I K L E I | E R F G G E V N I R M P V I S D N G N | | |
| UniRef90_F2QZX3 | V P I E V V P A A Y N K V L N D L | K N L G Y K A K V R G P V V T D N S M | | |
| UniRef90_E4UB02 | G R G M L P I E V D P F G M R A T I S A L | A C L G L K E D F R E L F V S D G G H | | |
| UniRef90_D8TV46 | K L A M P V E I V Q F C H K Y T L Q R L | Q N L G C E A K L R M P Y V T D N S N | | |
| UniRef90_U1H4D7 | G R F P L P I E V I P F G L A A T Q A A L | E T M G A K V V L R G P C V T D N G N | | |
| UniRef90_W7HQ99 | I P I E V V P P S S Y P Y V T A K L | F D A S G V S R P R K P L V T D G G N | | |
| UniRef90_UP1000364E7FC | G S F P L P I E V T P F G F T I T A K K V | T D N N N | | |
| UniRef90_F1LA54 | I P I E V V P P S A Y V P V M K W I | G P V I T D G G H | | |
| UniRef90_A1USF7 | G A F A L P I E A V N Q F G L S V T R S A I | K Q Q G G E C V L R M P V I T D N G N | | |
| UniRef90_Q9RW24 | K A P I P E I V P F G F L S T I E R L | E K L S G K V T L R M P F K T D D G H | | |
| UniRef90_B4MNH9 | V P I E V A P I A H V P I K L K I | R E F L P G G R L R Q P Y V T D N G N | | |
| UniRef90_A4YJ22 | V P I E V V P P A G F S I L I V R L | E M F G G E A H L R M P I V T D N G N | | |
| UniRef90_C1BQN8 | V P I E V L P I A Y K P V T K W I | N E M G L K P V P R E P V V T D N G N | | |
| UniRef90_F3YU57 | L P V I E V L P F A L V P E R H F L | S H H G G E A I L R M P L V T D N G N | | |
| UniRef90_C0N7E9 | F P V V E V L P E A W K L V L A Q L | E S L L G G K I K L R P F V T A Q G N | | |
| UniRef90_T0ZL93 | T H P I P V E V V P F A R P V L A H R W | K Q H G G V G E L R M N A A G D N G S | | |
| UniRef90_UP10004636D9D | R H A V P V E V T P F A L A P T L D F L | T A I I G G H P T L R D P M R T E R G N | | |
| UniRef90_M0SL9 | A I P V E V I P F G W A L T L R R L | Q S L L D G N W S D L D P F V T D N K N | | |
| UniRef90_L7EPD9 | K H P V V L E V L P D A L K Y V E K K L | K K I I G G V P I L R G G T I T E N G N | | |
| UniRef90_P0CR19 | I P I E V V P P F A Y A K V L T N L | A H M G G Q Q P S L R M P V V S D N G N | | |
| UniRef90_UP100047696AC | G A F P L P I E V N H F G I V T L T R R L | S P F V T D G G H | | |
| UniRef90_EOSPG1 | P V I E L P E F S P Y P L I K K Y L | A A D G I R G P E L T D N G N | | |
| UniRef90_R6XBE3 | F P I P V E C H P L A L N S V K E K L | I E L G A E I K L R Q P V I T E N N N | | |
| UniRef90_I3XRC1 | P I P I E V V P P V S V K Y V I R K L | Q E L G G E P L L R M P V V S D N G N | | |
| UniRef90_B4RDL0 | G K Y P L P I E V V T P F G H Q T A L R I | C D V G V A P R L R Q P V R T D E G N | | |
| UniRef90_Q6CFH4 | P I P I E V V P P D A Y N K V I A D L | K K M G A Q A V L R G P I I T D N G N | | |
| UniRef90_UP100042B6E25 | A M P V E V V Q F C W K Y N L V R L | N D K G Y K Y E I R G P E L T D N G N | | |
| UniRef90_J2P6R3 | P L P V E I L P F A Q A F V T N Q I | E C L G A T A N L R K P Y R T D Q D N | | |
| UniRef90_J0DD48 | S H G V P L E I V P F G Y A R C L R S I | T A L G A R A P L R M P V V S D N G N | | |
| UniRef90_J7Q837 | G A F P L P I E V D R F G A R S T M L H I | E R I G L E A E P G E R F I S D G G H | | |
| UniRef90_A0A024K7J7 | G R F P L P I E V N A F G L G A T Q I E L | C D V G V A P R L R Q P V R T D E G N | | |
| UniRef90_C4R763 | V P I E V V P P N S Y V K V L K D L | K K M G A Q A V L R G P I I T D N G N | | |
| UniRef90_W6TSC9 | T Y P L V L E I L P Q A L Q M V L G R L | A E D I G Q G V K V N R P F T T D N G N | | |
| UniRef90_C5QMH3 | T F V L P V E V D K F N W Y Q V A K R I | S F K L P V E V D K F N W F H I A K K I E A F D D I I T E R R P F I T D N G N | | |
| UniRef90_Q4L8J6 | A V P I E I A R F G W R R T V S L I | A V P I E I A R F G W R R T V S L I E A L G A R C T V R E P A L S D D G G H | | |
| UniRef90_E4U7T3 | A M P V E I V P F C W K F T A K R L | A M P V E I V P F C W K F T A K R L Q E L G C V A K L R T P F V T D N G N | | |
| UniRef90_B9GEN8 | A L P V E I V L Q I A H K V V K A K I | A L P V E I V L Q I A H K V V K A K I E S L E G G T A D L R G P V V T D N G N | | |
| UniRef90_I1GB43 | A L P V E V V V F S S S H T K R I L | A L P V E V V V F S S S H T K R I L S A L G G R A E F R K R F V T D N G N | | |
| UniRef90_B9QKE6 | V P L E V V P P S A Y V R V K S D L | V P L E V V P P S A Y V R V K S D L I N L N C K V V L R Q P V V T D N G N | | |
| UniRef90_I2GXY8 | A L P V E V V L P Y G V S W T L N L I K R F N C D A R I R S P F I T D N G N | A L P V E V V L P Y G V S W T L N L I K R F N C D A R I R S P F I T D N G N | | |
| UniRef90_B1L7D5 | A L P V I E V I P K A Y P Y L L N I F | A L P V I E V I P K A Y P Y L L N I F K R N N I R S E L R Q P I I S D W G G | | |
| UniRef90_L0AA43 | UniRef90_E1K225 | R H A L P V E I T P F A L A S E L R F L | R R I G G N P S L R Q P M R T E R G N | |
| UniRef90_M5EC29 | V P I E V V A P F A A Q K A L T R I L | V P I E V V A P F A A Q K A L T R I L R Q L G G S T A H I R M P V V T D N G N | | |
| UniRef90_R7QCR5 | A M P V E V T P F S S Q F N K L R K L | H A L P V E V V P F C A K N T A R K L V I E L G G C T A K L R M P Y V T D N H | | |
| UniRef90_W1NXJ9 | R Y P V P E V L P L A A Q P L L R S I V | R Y P V P E V L P L A A Q P L L R S I V E R L L G G C K A E I R E P F V T D N A N | | |
| UniRef90_P41994 | K H P V V L E A I P D S L K Y V E R K I V | K H P V V L E A I P D S L K Y V E R K I V R A E G G S C Q L R Q A V V T D N G N | | |
| UniRef90_R4K5G7 | P V V L E I L Q D S L S Y V E R K I V | P V V L E I L Q D S L S Y V E R K I V E V L G G K I P T L R G G T I T E S G N | | |
| UniRef90_G7LY74 | G L M P L P I E V V P F G S G K L M A E L | G L M P L P I E V V P F G S G K L M A E L A F Q G C Q A K I R E D Y L T D N H | | |
| UniRef90_D8MGB2 | D8MGB2 | D8MGB2 | A M P V E V T P F C W K R T M R R L | A M P V E V T P F C W K R T M R R L A F Q G C Q A K I R E D Y L T D N H |
| UniRef90_R4X7W3 | UniRef90_R4X7W3 | UniRef90_R4X7W3 | R F P V P I E I F P E A L T Y V E E V L | R F P V P I E I F P E A L T Y V E E V L R A Y N P K I K L R M P V I T E N G N |
| UniRef90_A0A024JBA9 | UniRef90_R5DRW6 | UniRef90_R5DRW6 | K H P V V L E I L E D S L L A Y V Q N K V | K H P V V L E I L E D S L L A Y V Q N K V S A L L G G K P S V R D G F V T E N G N |
| UniRef90_UP100046F4C13 | UniRef90_D9Q2B6 | UniRef90_D9Q2B6 | R P L P L E V V P E A Y P M V A S E L | R P L P L E V V P E A Y P M V A S E L R S M G F G V P R E P L I S D W R G |
| UniRef90_M2XXB6 | UniRef90_M2XXB6 | UniRef90_M2XXB6 | A M P V E V T P F C W K R T M R R L | A M P V E V T P F C W K R T M R R L A F Q G C Q A K I R E D Y L T D N H |
| UniRef90_I3TCM9 | UniRef90_I3TCM9 | UniRef90_I3TCM9 | R H P L P V E V V P Q A L N I V L R K L | R H P L P V E V V P Q A L N I V L R K L K S M G L E A D V R G P V V S D L G G |
| UniRef90_S7J2S5 | UniRef90_S7J2S5 | UniRef90_S7J2S5 | G N F G V P V E I S P G C Q A T I S R L | G N F G V P V E I S P G C Q A T I S R L K D L G Y E G D W R R Q F V T D N G N |
| UniRef90_UP10002B48A6 | UniRef90_H8GT08 | UniRef90_H8GT08 | G S F P L P V E V I P M A R S A V A R Q L | G S F P L P V E V I P M A R S A V A R Q L V K L L G G R P E Y R Q G V V T D N G H |
| UniRef90_D9GT08 | UniRef90_D9GT08 | UniRef90_D9GT08 | K A P L P V E I A R F G F L S T I E R L | K A P L P V E I A R F G F L S T I E R L R A L G L G G R L R Q P Y V T D N G N |
| UniRef90_R5DRW6 | UniRef90_R5DRW6 | UniRef90_R5DRW6 | R H G I P L E E V F P S A V P Y V L S E L | R H G I P L E E V F P S A V P Y V L S E L R S L L G S T P R V R D P C V T D N G N |
| UniRef90_UP100046F4C13 | UniRef90_D9Q2B6 | UniRef90_D9Q2B6 | K T P I P V E I A P N A L A F I K A K L | K T P I P V E I A P N A L A F I K A K L E K M N F N P V L R G P L I T D N N N |
| UniRef90_M2XXB6 | UniRef90_M2XXB6 | UniRef90_M2XXB6 | G A F P L P V E V L P F G Y R Q V E K E L | G A F P L P V E V L P F G Y R Q V E K E L V J A L G F H P R L R E P F I T D N G N |
| UniRef90_I3TCM9 | UniRef90_I3TCM9 | UniRef90_I3TCM9 | S Y P V P L S V L P E S R N V A Q R W V | S Y P V P L S V L P E S R N V A Q R W V R E M G G E P Q L R G P L F T A N G N |
| UniRef90_S7J2S5 | UniRef90_S7J2S5 | UniRef90_S7J2S5 | V P I E V V P V A Y V R V L R H L | V P I E V V P V A Y V R V L R H L K E V L L G J S P T L R M P V V T D N G N |
| UniRef90_UP10002B48A6 | UniRef90_H8GT08 | UniRef90_H8GT08 | K L A M P V E V V S L F G L K H T Q A K L | K L A M P V E V V S L F G L K H T Q A K L A Q L L G A S T S I R T Q Y L T D N F N |
| UniRef90_D9GT08 | UniRef90_D9GT08 | UniRef90_D9GT08 | A M P V E V V Q F C W K Y N L V R L | A M P V E V V Q F C W K Y N L V R L R E L G C E A K L R E P Y I V T D N S N |
| UniRef90_I3TCM9 | UniRef90_I3TCM9 | UniRef90_I3TCM9 | G G F P L P V E V V P F G W R A V E K V F | G G F P L P V E V V P F G W R A V E K V F A D L L G G A L S L R G P F V T D S G H |
| UniRef90_S7J2S5 | UniRef90_S7J2S5 | UniRef90_S7J2S5 | A V P V E V I P F G A P H T L G L I | A V P V E V I P F G A P H T L G L I R K V G F H A R L R T P F L T D N G N |
| UniRef90_V4JS58 | UniRef90_V4JS58 | UniRef90_V4JS58 | A V P V E V V P V F C C N T R G K L | A V P V E V V P V F C C N T R G K L E E M G G F H A R L R T A A V T D N G N |
| UniRef90_C6XGM4 | UniRef90_C6XGM4 | UniRef90_C6XGM4 | G R G M L P I E I D Q F G V N K T L S A L | G R G M L P I E I D Q F G V N K T L S A L K C F G L I N E E L R L R F V S D G G N |
| UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | K H F V S L E V V K D S L S Y V S K M V | K H F V S L E V V K D S L S Y V S K M V K S L L G G D P V V R T T L I T D D G N |
| UniRef90_B5RMK3 | UniRef90_B5RMK3 | UniRef90_B5RMK3 | T F K L P V E V D K F N W L L I A K R I | T F K L P V E V D K F N W L L I A K R I E D K N V K A I R R M P F I T D N G N |
| UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_V4J3M1 | UniRef90_V4J3M1 | UniRef90_V4J3M1 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_K5XRW6 | UniRef90_K5XRW6 | UniRef90_K5XRW6 | G K F G L P V E I S P Y G R S S I I A A L | G K F G L P V E I S P Y G R S S I I A A L E A I G G Y L G N L R K N F I I T N N G N |
| UniRef90_L0DB73 | UniRef90_L0DB73 | UniRef90_L0DB73 | A V P V E V T P F C W K H T L R R L | A V P V E V T P F C W K H T L R R L G C T P E L R E P Y I V T D N N Q N |
| UniRef90_V4T9I4 | UniRef90_V4T9I4 | UniRef90_V4T9I4 | T H P V V L E V I P P E A K A L V E K R V | T H P V V L E V I P P E A K A L V E K R V Q A F G G A A A Y R D G F V T D H G N |
| UniRef90_B6TI56 | UniRef90_B6TI56 | UniRef90_B6TI56 | T F K L P V E V D P F A L P Y V R Q R L | T F K L P V E V D P F A L P Y V R Q R L E Q F D V K V I R R M P F I T D N G N |
| UniRef90_F2J5C1 | UniRef90_F2J5C1 | UniRef90_F2J5C1 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_C0PI30 | UniRef90_C0PI30 | UniRef90_C0PI30 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_V4JS58 | UniRef90_V4JS58 | UniRef90_V4JS58 | G R G M L P I E I D Q F G V N K T L S A L | G R G M L P I E I D Q F G V N K T L S A L K C F G L I N E E L R L R F V S D G G N |
| UniRef90_C6XGM4 | UniRef90_C6XGM4 | UniRef90_C6XGM4 | K H F V S L E V V K D S L S Y V S K M V | K H F V S L E V V K D S L S Y V S K M V K S L L G G D P V V R T T L I T D D G N |
| UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | T F K L P V E V D K F N W L L I A K R I | T F K L P V E V D K F N W L L I A K R I E D K N V K A I R R M P F I T D N G N |
| UniRef90_B5RMK3 | UniRef90_B5RMK3 | UniRef90_B5RMK3 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_V4J3M1 | UniRef90_V4J3M1 | UniRef90_V4J3M1 | G K F G L P V E I S P Y G R S S I I A A L | G K F G L P V E I S P Y G R S S I I A A L E A I G G Y L G N L R K N F I I T N N G N |
| UniRef90_K5XRW6 | UniRef90_K5XRW6 | UniRef90_K5XRW6 | A V P V E V T P F C W K H T L R R L | A V P V E V T P F C W K H T L R R L G C T P E L R E P Y I V T D N N Q N |
| UniRef90_L0DB73 | UniRef90_L0DB73 | UniRef90_L0DB73 | T H P V V L E V I P P E A K A L V E K R V | T H P V V L E V I P P E A K A L V E K R V Q A F G G A A A Y R D G F V T D H G N |
| UniRef90_V4T9I4 | UniRef90_V4T9I4 | UniRef90_V4T9I4 | T F K L P V E V D P F A L P Y V R Q R L | T F K L P V E V D P F A L P Y V R Q R L E Q F D V K V I R R M P F I T D N G N |
| UniRef90_B6TI56 | UniRef90_B6TI56 | UniRef90_B6TI56 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_F2J5C1 | UniRef90_F2J5C1 | UniRef90_F2J5C1 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_C0PI30 | UniRef90_C0PI30 | UniRef90_C0PI30 | G R G M L P I E I D Q F G V N K T L S A L | G R G M L P I E I D Q F G V N K T L S A L K C F G L I N E E L R L R F V S D G G N |
| UniRef90_V4JS58 | UniRef90_V4JS58 | UniRef90_V4JS58 | K H F V S L E V V K D S L S Y V S K M V | K H F V S L E V V K D S L S Y V S K M V K S L L G G D P V V R T T L I T D D G N |
| UniRef90_C6XGM4 | UniRef90_C6XGM4 | UniRef90_C6XGM4 | T F K L P V E V D K F N W L L I A K R I | T F K L P V E V D K F N W L L I A K R I E D K N V K A I R R M P F I T D N G N |
| UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_B5RMK3 | UniRef90_B5RMK3 | UniRef90_B5RMK3 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | G K F G L P V E I S P Y G R S S I I A A L | G K F G L P V E I S P Y G R S S I I A A L E A I G G Y L G N L R K N F I I T N N G N |
| UniRef90_V4J3M1 | UniRef90_V4J3M1 | UniRef90_V4J3M1 | A V P V E V T P F C W K H T L R R L | A V P V E V T P F C W K H T L R R L G C T P E L R E P Y I V T D N N Q N |
| UniRef90_K5XRW6 | UniRef90_K5XRW6 | UniRef90_K5XRW6 | T H P V V L E V I P P E A K A L V E K R V | T H P V V L E V I P P E A K A L V E K R V Q A F G G A A A Y R D G F V T D H G N |
| UniRef90_L0DB73 | UniRef90_L0DB73 | UniRef90_L0DB73 | T F K L P V E V D P F A L P Y V R Q R L | T F K L P V E V D P F A L P Y V R Q R L E Q F D V K V I R R M P F I T D N G N |
| UniRef90_V4T9I4 | UniRef90_V4T9I4 | UniRef90_V4T9I4 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_B6TI56 | UniRef90_B6TI56 | UniRef90_B6TI56 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_F2J5C1 | UniRef90_F2J5C1 | UniRef90_F2J5C1 | G R G M L P I E I D Q F G V N K T L S A L | G R G M L P I E I D Q F G V N K T L S A L K C F G L I N E E L R L R F V S D G G N |
| UniRef90_C0PI30 | UniRef90_C0PI30 | UniRef90_C0PI30 | K H F V S L E V V K D S L S Y V S K M V | K H F V S L E V V K D S L S Y V S K M V K S L L G G D P V V R T T L I T D D G N |
| UniRef90_V4JS58 | UniRef90_V4JS58 | UniRef90_V4JS58 | T F K L P V E V D K F N W L L I A K R I | T F K L P V E V D K F N W L L I A K R I E D K N V K A I R R M P F I T D N G N |
| UniRef90_C6XGM4 | UniRef90_C6XGM4 | UniRef90_C6XGM4 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | UniRef90_K8Z9G7 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_B5RMK3 | UniRef90_B5RMK3 | UniRef90_B5RMK3 | G K F G L P V E I S P Y G R S S I I A A L | G K F G L P V E I S P Y G R S S I I A A L E A I G G Y L G N L R K N F I I T N N G N |
| UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | UniRef90_W7B9Q4 | A V P V E V T P F C W K H T L R R L | A V P V E V T P F C W K H T L R R L G C T P E L R E P Y I V T D N N Q N |
| UniRef90_V4J3M1 | UniRef90_V4J3M1 | UniRef90_V4J3M1 | T H P V V L E V I P P E A K A L V E K R V | T H P V V L E V I P P E A K A L V E K R V Q A F G G A A A Y R D G F V T D H G N |
| UniRef90_K5XRW6 | UniRef90_K5XRW6 | UniRef90_K5XRW6 | T F K L P V E V D P F A L P Y V R Q R L | T F K L P V E V D P F A L P Y V R Q R L E Q F D V K V I R R M P F I T D N G N |
| UniRef90_L0DB73 | UniRef90_L0DB73 | UniRef90_L0DB73 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_V4T9I4 | UniRef90_V4T9I4 | UniRef90_V4T9I4 | F P I P V E V I P F Q A L Y V E Q Q L | F P I P V E V I P F Q A L Y V E Q Q L K L G A N I V V R G P L I I S E N D N |
| UniRef90_B6TI56 | UniRef90_B6TI56 | UniRef90_B6TI56 | G R G M L P I E I D Q F G V N K T L S A L | G R G M L P I E I D Q F G V N K T L S A L K C F G L I N E E L R L R F V S D G G N |
| UniRef90_F2J5C1 | UniRef90_F2J5C1 | UniRef90_F2J5C1 | K H F V S L E V V K D S L S Y V S K M V | K H F V S L E V V K D S L S Y V S K M V K S L L G G D P V V R T T L I T D D G N |
| UniRef90_C0PI30 | UniRef90_C0PI30 | UniRef90_C0PI30 | T F K L P V E V D K F N W L L I A K R I | T F K L P V E V D K F N W L L I A K R I E D K N V K A I R R M P F I T D N G N |
| UniRef90_V4JS58 | UniRef90_V4JS58 | UniRef90_V4JS58 | K Y S I P I E I T P F C H E H T Q R T I | K Y S I P I E I T P F C H E H T Q R T I L E L P G T G K L R M P Y V T D N D N |
| UniRef90_C6XGM4 | UniRef90_C6XGM4 | UniRef90_C6XGM4 | F P I P V E V I P F Q A L Y V E Q Q L</td | |

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|------------------------|---|
| UniRef90_B4KS42 | F L D W R F K R E Y D W D E V N K A I S M I P G V L E T G L F |
| UniRef90_F4LL35 | L I L D V Q W Q N P V D A A A M E D A V N R I T G V L D N V F F |
| UniRef90_B0D6I2 | F I I D A P F D K M I D P F T I M A Q I K M L T G V V E V G L F |
| UniRef90_U6FST2 | F I M D W K F E P T P D W Q P I V D W Q N V E L N M I P G V V G T G L F |
| UniRef90_F2QZX3 | F I I D A D F G E I P K V S T L H S Q I K G L V G V L E T G L F |
| UniRef90_E4UB02 | H Y V D A F F G F I P D P Q I L L S E E L S S N I P G V M E H G L F |
| UniRef90_D8TV46 | Y I V D L Y F Q P I V D S H A A S K A I L A E G V V D H G L F |
| UniRef90_U1H4D7 | W I V D A H L G R I G D P P R I L A G L L S V I P G V V E H G L F |
| UniRef90_W7HQ99 | F V L D A V F P T L A E V Q D L A E A I K G I V G V V E H G L F |
| UniRef90_UP1000364E7FC | F I L D C A C S V I P D A P Y A A Q L L S A I P G V V E H G L F |
| UniRef90_F1LA54 | Y L V D W N F P G K G D L A A L H Q R I L V K L P G V V E T G L F |
| UniRef90_A1USF7 | F F D A S W G H I V Q P K L L S N A L F E I P G V I E H G L F |
| UniRef90_Q9RW24 | Y I F D A Q L P A E F D A R E L E R R I K G T L G V V D T G L F |
| UniRef90_B4MN99 | F L L D W K F K R E Y D W D E V N H A I K M I P G V M E T G L F |
| UniRef90_A4YJ22 | L I L D S V M V E D L C K W E R E L K T I P G V V E T G I F |
| UniRef90_C1BQN8 | L I L D W Y F D K T Y D W K K V N G E L C S L A G I V D T G L F |
| UniRef90_F3YU57 | F I L D W S Q P P L D N P R E L L A R K L I E S R A G I M A H G L F |
| UniRef90_C0N7E9 | L V L D M S F E H I D S L E L T M L L D T I A G V V E H G I F |
| UniRef90_T0ZL93 | E I L D L R P P R L E D P T E V D R A I R L H E G V V V E T G L F |
| UniRef90_UP10004636D9D | V I C D C A C G P I A D A A E L A A V L D A R A G V A G H G L F |
| UniRef90_M0SSL9 | Y I V D L F F E N G I D L N R I S D E I L R I T G V V E H G M F |
| UniRef90_L7EPD9 | L L I D T D F N N V T N I Q E L E N N L K N I S G V I D T S L F |
| UniRef90_P0CR19 | F I I D A P F A E M R Q P E E L L H K I K M L T G V V E V G L F |
| UniRef90_UP100047696AC | A I I D A S F G R I R D P E A L S L A A L A A I P G V V E H G L F |
| UniRef90_E0SPG1 | M I D V Y T G P L N N P R D F I T E I E L I P G V V T T G I F |
| UniRef90_R6XBE3 | L I L D V R F T E I Y E T L E K D I K D I T G V I E S G L F |
| UniRef90_I3XRC1 | F I V D Y R R L L K V E D P L S L H N T L K L V H G V I E T G I F |
| UniRef90_B4RDL0 | L I Y D A A C G R I E E P A A A A L K S V T G V V D H G L F |
| UniRef90_Q6CFH4 | F V D A Y F G E I D A V K D L H K I K L L L G V V E T G L F |
| UniRef90_UP100042B6E25 | Y I V D L Y F K P I K D G F G A G K E I S A L E G V V E H G L F |
| UniRef90_J2P6R3 | F V L D C T A P A G F D L E A F A I H Q A I P G I M G H G F F |
| UniRef90_J0DD48 | Y I V D A V F P D M H Q P A E L L R D L K A L T G V V E V G L F |
| UniRef90_J7Q837 | F I V D C A F G A I D D P D P D A A R A L S A I P G I V D H F F |
| UniRef90_A0A024K7J7 | Y I F D A L F G R I S Q P K A L S D A L L E V P G V V V Q H G L F |
| UniRef90_C4R763 | F V I D A D F G E I P K P V K E L D E K L I R L V G V V E T G F F |
| UniRef90_W6TSC9 | L L L A D V H F A E L P E L E K N V Q I K M I P G V V E H S L F |
| UniRef90_C5QMH3 | Y I L L D C T L P E G I D P Y Q F H E Y L I H L T G V L E T G Y F |
| UniRef90_Q4L8J6 | Y I L D C Q L N K Q I D P Y Q F H E Y L I H L T G V L E T G Y F |
| UniRef90_E4U7T3 | L L V D A H F G P V G D P R G L E Q Q L L A L P G V F E V G L F |
| UniRef90_B9GEN8 | Y V D L Y F K D I G D L K A A S D A I R L A G V V E H G M F |
| UniRef90_I1GB43 | L L L D W K F D R D K D W S Q V N G L L K A I P G V V V E T G L F |
| UniRef90_B9QKE6 | Y I V D L Y F T E V P D L H E M D K E L K K S I P G V V V E T G F F |
| UniRef90_I2GXY8 | F I L D A D F G P I K D P K S L H V Q L K L L L G I V E T G L F |
| UniRef90_B1L7D5 | V I V D I N C P P L E D P A S M E S E V K G V P G V V V E V G I F |
| UniRef90_L0AA43 | Y I I D V Y T G P M D D P R Y Y D N M L R S F P G V V V E T G I F |
| UniRef90_E1K225 | V I A D C A F A P L P D P A A L A T S L D A R A G V A G H G L F |
| UniRef90_M5EC29 | L C I D A V F P Q M R N P D H L L R Q L K L I T G V V V E V G L F |
| UniRef90_R7QCR5 | Y I V D L Y F D K I R D P V Q A G K D F D S L V G V V E H G L F |
| UniRef90_W1NXJ9 | Y I V N L F F E K I G N L E A A S E R I L G V E G V I E H G M F |
| UniRef90_P41994 | F I I D W Q F E K G R D W F A I Q Q R L L A N T P G I V E T G L F |
| UniRef90_R4K5G7 | F L I D V A F K D V K N I E K L E Q D L N D I T G V I D S L F |
| UniRef90_G7LY74 | L L I D V S F E N V T D A Y K L E N S L K N I C G V I D T S L F |
| UniRef90_D8MBG2 | Y I V D L S L K T I D Q P Y E L A R Y L D G K I G I V E H G L F |
| UniRef90_R4X7W3 | F I I D A P F E L G I A P V E L Q S I K S L C G V V V E T G I F |
| UniRef90_A0A024JBA9 | F L L D A V F P P L E S A K E L D T K I K L M V G V V E T G I F |
| UniRef90_R5DRW6 | L L L D T W F D H I P N N L E E S I K S I T G V I E S G L F |
| UniRef90_UP100046F4C13 | L L L D V H F E Q V E D I A K L E S D L Q Q I R G V V D T S L F |
| UniRef90_D9Q2B6 | M I V D L Y T G P I E D P G D F D M M L H N I P G I V D T G L F |
| UniRef90_M2XXB6 | Y I I D L F F K P I P D I S L A A R Q L I E I V G V V E H G L F |
| UniRef90_I3TCM9 | V I V D V R V P E K A D L N E L S T I E S I P G V V S T G F F |
| UniRef90_S7J2S5 | Y I Y M V H S P N F P N P E E D L A K M L Q I R G V I D V G F F |
| UniRef90_UP10002B48A6 | V I F D A Q L P A E F G A A E L G S R I K G T L G V V V E T G L F |
| UniRef90_H8GT08 | F I V D A P F P P L A T V V E L A E S L L K G I V G V V V E H G I F |
| UniRef90_D5GFU8 | Y I L D I K M I E N P K G T E K Y F K L F P G I L E I G I F |
| UniRef90_B5RMK3 | Y I F D L S L S L K F F |
| UniRef90_W7B9Q4 | V I V D C D F G E M D D I E G R A T E L A R V P G A Q E H G L F |
| UniRef90_V4J3M1 | F V I D A P F D K M M N S S S K V L T Q I K L L T G V V V E V G L F |
| UniRef90_K5XRW6 | G I I D C R F A E S D D P E G L D L R R Q V A G V L D T G F F |
| UniRef90_L0DB73 | Y I I D L Y F Y F E P I K D G D V S A G T E I G K L E G V V V E H G L F |
| UniRef90_V4T9I4 | Y I V D L Y F K P I K D A L A A G Q E I A A L E G V V V E H G L F |
| UniRef90_B6TI56 | Y I I L D A A C T E I R A P A A A A L V A I P G V A E H H G L F |
| UniRef90_F2J5C1 | Y I I L D A A C T E I R A P A A A A L V A I P G V A E H H G L F |
| UniRef90_C0PI30 | Y I V E M F F E D G I D L L D I S D R L L R I T G V I E H H G M F |
| UniRef90_V4J5S8 | Y V V D L Y E D I G D L E A A S E A I L R L P G V V V E H G M F |
| UniRef90_C6XGM4 | Y I V D A F F G F I P D P Q I I S G E L C N I P G V I E H G L F |
| UniRef90_K8Z9G7 | Y I V D L Y Y D P I I A D V K A V A R A L E G V V V V E H G F F |
| UniRef90_G7LZ92 | F I I L D V K F E N I K D F K K L N D N L N D I V G V I G T S L F |
| UniRef90_H0DH40 | Y I I L D L V L Y D K I N P Y E M H E Y L I H L I G V L E T G Y F |
| UniRef90_U6BCH2 | V I I L D V D V S A I S D V R V F A K E V K S W S G V L E T G Y F |
| UniRef90_A1RX06 | F I I L D A L F D E L K P R L E L S L K S V P G L I E T G I F |
| UniRef90_A0P6G0 | Y I I L D C E F N E T N L K K L G D E I A S I P G V F E H G L F |
| UniRef90_H1YDM0 | L I I L D C R F D D E V G S S L E E K D I K A I T G V I E S G L F |
| UniRef90_B6TIL8 | Y I I V E M F F D G G I D L R D I S D R L L R I T G V V V E H G M F |
| UniRef90_Q254Z5 | Y I Y D H T P N I P H P E E D L L K L L Q I H G I I E V G F F |
| UniRef90_X1MAD2 | Y I I D C D F G K I D P E V L E K D I D L P G V V E N G L F |
| UniRef90_M2XFD2 | Y I V D L D F P I P D I F L A R Q I S E V G V V V E H G I F |
| UniRef90_E6U2Y3 | Y I L D M Q I A P P D D L A A F H E A L L H I P G V V D T S L F |
| UniRef90_S2Y9H8 | Y I L D C T L N Q S I D P Y V F H E Y L I H V G I L E T G Y F |
| UniRef90_A1W7S5 | H I L D V D V R G L T I S D P L A F E T E V W N Q W P G V V V T V G F F |
| UniRef90_V4GS15 | L V I D C D F G R I A D P A A L A R T L A A T P G A V E H G L F |
| UniRef90_I7KNT3 | Y I I D L D E L Y E N I D A Y E M H E Y L I H L V G V L E T G Y F |
| UniRef90_I1IWM1 | Y I V E M F F H D G I D L S D I S D R L L R I T G V V E H G M F |

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| UniRef90_H3A154 | I P I E V X P M A Y V P I A K T I L R K F G G V V D L R M P V V T D N G N | |
| UniRef90_UPI000384009C | L P I E I V X P M A Y V A V S X T T Q K F G G A I X L L P L A V V R D D N G N | |
| UniRef90_U6B5B2 | T F K L P I V E I D Q F G I K A T I S A L K K L G L N E K L R R N F V S D D G N | |
| UniRef90_U7PH41 | H A V A V E V I K S A K E Y V K S K L E E E M G A K V E E R G T L V S D D G N | |
| UniRef90_R5YZJ2 | G K F G V P V E I A P F G R R S V I S A M E S L G Y R G A W R E F F L T D N G N | |
| UniRef90_F4DJA6 | R F P L V I E I L P E A E V F A A T K I Q M L G V K A E F R G P V L T D N G N | |
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| UniRef90_K6T6Y3 | K T P L V L E V L P A A L S L V M R T V S D L L G G Q A T I R D G F L T D S G N | |
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| UniRef90_G7V788 | K F A V P I E V I D A R A I H L V E T G L G N L L S S R V E M R M P V I T E G G N | |
| UniRef90_K2H8C1 | A V P I E I L S F G Y E M I I E S L A L K N C T Y K L R E K F I T D N H | |
| UniRef90_Q4X8B1 | F P P V E I T P F C H E H T I R V I A D L P C T P V L R E P A V T D N G N | |
| UniRef90_FOY5F5 | A M P V E V V Q F C W N F N L I R I L Q D L L G C E S K L R K P Y V T D N S N | |
| UniRef90_Q9S726 | P I P V E V L P Y P A R P Y V I K T L I R F N A K P V I R V P V I T E N G N | |
| UniRef90_UPI00036F4F71 | V S I E I V K A S L G Y V V S K M V R N L L G G D P A V R G N L I T D D G N | |
| UniRef90_UPI00036B0183 | A I P V E I L P F A Y G F V E R R L I K E L G Y N C N L R G P V I S D N G N | |
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| UniRef90_D0KTV0 | I P I E V I S V G V S Y V K Y K L L E K M G F T V K I R E P I I S D N G N | |
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| UniRef90_I0A1J3 | K Y P V V L E I I P Q S I L S F I I S V L I E K N I K Y T L R R P V I T D L G N | |
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| UniRef90_B0LGD4 | I P I E V H P M R V N K V L A A L E R E L G S R P A V R L D V T D N H | |
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| UniRef90_K6T6Y3 | L L D V S I N E V E D V Y E L L N N L I N I C G V I E T S L F |
| UniRef90_C6V6K52 | L L I D C H F P T Y A K L T D L N V E L A T L A G V V E T S Y F |
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| UniRef90_FOY5F5 | Y I V D L E F D P L A D A P A A A A Q L K A T C G V V D H G I F |
| UniRef90_Q9S726 | Y I I D L Y F K P L K D G F A A A K E I G K F Q G V V E H G L F |
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| UniRef90_UP100036C2FFD | N L L D T T E L D L T D P A G T E G R I N Q I A G V I T S G L F |
| UniRef90_D4W3J2 | Y L M D V T F S Q V S D I K E L N V K L N E I C G V I G T S L F |
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| UniRef90_B6Q7N5 | Y I D A P F L P I W E V E T L A T K I K A I P G V L E V G I F |
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| UniRef90_X0Y658 | F I I D V D F G I V K K P S E I N K K I L M I P G V V D T G L F |
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| UniRef90_B2AZU3 | W I V D A P F R P L W Q I D E L A D A L I K I P G V A E I G L F |
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| UniRef90_B1R0U3 | F L M D V N F E D V D D I S V L N D K L K K I V G V V D T S L F |
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| UniRef90_A6E944 | Y L I D A S F V T L P G L E L L D Q I K M I P G V V D H S L F |
| UniRef90_Q5BAJ0 | Y I I D A P F P T I W E V D A S L A I K Q I P G V V L D V G I F |
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| UniRef90_A0A059LJ19 | Y I I D A P F S P L L P K A L A E E L V R T P G I V E I G L F |
| UniRef90_I1RFK1 | W I I D A P F S P L L P K A L A E E L V R T P G I V E I G L F |
| UniRef90_G7Q9K5 | V I I A D C P F G P M A D P |
| UniRef90_W2UY82 | F I L D C H C G A I I T P E P L E I E L N R I P G V V E N G L F |
| UniRef90_F7GXEX1 | F I L D W R F D Q V H K W G E V N R A A R M I P H V V D T G L F |
| UniRef90_B6BUC1 | F I F D Y S F D E M P L R D L H E K I L S S S P G V I E T G I F |
| UniRef90_A7AMM8 | V I M D I E F G P T D L P N L D F E L R S V H G V V C T G L F |
| UniRef90_I6ZKJ9 | C V D V E Y N A G F I S E C K H I C G V V E H G L F |
| UniRef90_W2S1G8 | F I I D A P F P H I W D V E S L A R T I K D I N G V L A V G I F |
| UniRef90_UP100047A7828 | R L L D V V V H P S E D P I E V N H Q L S Q V R G V V D T S L F |
| UniRef90_B8N845 | N I I D A P F K S V W E V E A L S R A I K Q I P G V L D V G I F |
| UniRef90_W7KX39 | I I L D L D V L T R A E D L C K L D E L K K R I P G V V E T G I F |
| UniRef90_L2GXM6 | L L I D V E Y S P S F L K S C R D I V G V V E H G L F |
| UniRef90_UP1000219742B | G L L D C H F D D W S Y I D E I D A E L G S M V G V M G T S Y F |
| UniRef90_R7YFY0 | F I V D A P F P D T W E V Q E L S R R I K D I T G V L E V G L F |
| UniRef90_U6LGF5 | F C L D L F F E K I K D P R G L H E R I I N V V G V V E T G F F |
| UniRef90_B0LGD4 | F I L D A R W Q S L Q T P Q D M E R A L N A L P G V I E N G L F |
| UniRef90_A5AB12 | F I I D A P F D G V W E V H A L S Q A I K Q I P G V L D V G I F |
| UniRef90_M4FNN7 | H I I D A P F I P I W S V E K L A R A L K K D I D G V V C E I G L F |

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Sequence logo showing the conservation of amino acids at positions 50, 60, and 70 across UniRef90 entries. The x-axis represents positions 50, 60, and 70. The y-axis lists UniRef90 entries. The logo uses a color scheme where black = conservative substitutions, blue = polar uncharged, red = polar charged, green = hydrophobic, and yellow = aromatic.

| UniRef90 Entry | Position 50 | Position 60 | Position 70 |
|------------------------|-------------|-------------|-------------|
| UniRef90_U5F6S4 | I | A | |
| UniRef90_W9YYA5 | F | D | P |
| UniRef90_C6TC90 | F | V | L |
| UniRef90_D5GK49 | F | I | D |
| UniRef90_A0A017SHF7 | F | I | A |
| UniRef90_B2WFW8 | Y | I | P |
| UniRef90_B6HKN6 | F | V | D |
| UniRef90_UP100046A5ACC | G | V | C |
| UniRef90_Q0UHN5 | Y | I | A |
| UniRef90_W6T5H0 | L | L | D |
| UniRef90_UP100037C8411 | Y | L | V |
| UniRef90_D5H1R8 | Y | L | V |
| UniRef90_X0PD10 | Q | L | C |
| UniRef90_Q1WS86 | Y | L | C |
| UniRef90_L1LDK9 | V | I | M |
| UniRef90_F9VP11 | I | L | D |
| UniRef90_F0YD86 | L | V | D |
| UniRef90_C8XJ99 | V | G | D |
| UniRef90_Q9FI13 | N | L | D |
| UniRef90_J8ZSW7 | L | I | F |
| UniRef90_11PG32 | H | V | D |
| UniRef90_F6CCD6 | L | L | I |

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