

QUERY UniRef90_I3ZVE5
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UniRef90_W0I6J9
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UniRef90_UP100029ADD7A
UniRef90_F8AFC7
UniRef90_F2NCF7
UniRef90_X1KKU0
UniRef90_X1B1V7
UniRef90_W8RLX8
UniRef90_B5YJD9
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UniRef90_A0A011N3L2
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UniRef90_F8GDA4
UniRef90_C9Y6L1

| | 1 | 10 | 20 | 30 | 40 |
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| UniRef90_G0HND4 | M R V E F P E F G R I V V D G K V Y D H D D I V I Y P P S G K I I G E R K K W L S K N | | | | |
| UniRef90_W0I6J9 | I I D S V K F G E I V E G K R Y T H D D I V I Y P P S G K I I E H R K K E L S K K | | | | |
| UniRef90_H3ZQH5 | I I D K V E F G R I S V N G K E Y S H D D I V I Y P P S G K V E R R K K W I S K E | | | | |
| UniRef90_UP100029ADD7A | M R V E Y P S F G R I T V E G D V Y G H D D I V V Y P P S G R V E R R K K W I S K E | | | | |
| UniRef90_F8AFC7 | | K F G R I T I D G R T F E H D D I V V Y P P S G R I D R R R K E I S K R | | | |
| UniRef90_F2NCF7 | M R I D S Y E F G R I V V E G Q S F S Q D I I L P D G I Q D S W W R Q | | | | |
| UniRef90_X1KKU0 | I I E S Y S F G Q I L I N G K K Y S S D L I I I F K D Y I Y D S W W R K | | | | |
| UniRef90_X1B1V7 | I I D S Y S F G R I V I D G K T Y T S D V I I I Y P D N V N D C W W R K S | | | | |
| UniRef90_W8RLX8 | I I D S Y D F G R I I I A G K R Y S N D L I I V F P D K V R E G W W R K | | | | |
| UniRef90_B5YJD9 | M K I T H Y S F G K I V V D G N E Y T Q D L I I V F P D K I F P S W W R K | | | | |
| UniRef90_C6A4E5 | E G I E F G R I I I N G Q K Y K H D I V I Y P P S G K I I E K R K K W L S K K | | | | |
| UniRef90_A0A011N3L2 | M K I D S T D F G S I T I D G A T Y P H D D V V I R L S G E V I K R K K R L S K Q | | | | |
| UniRef90_B6YXB6 | I I E V P E F G R I I I V D E K E Y A H D I V I Y P P S G K I I E T R K K W I S K E | | | | |
| UniRef90_X0V451 | I I D S Y D F G E V V I D G K R Y T S D V I I I L P N G I R D Q W F R R | | | | |
| UniRef90_A0A011R6F7 | M K I D H T E F G S I S I D G T I Y A Y D V V I I R L S G A V E K R K K K L S K Q | | | | |
| UniRef90_X0T2W5 | I I E N Y S F G Q M I I D G K K Y N S D L I I I F T D H I N N N W W R R | | | | |
| UniRef90_X1HK87 | I I E S Y N F G K I V I N S K E Y H S D I I I Y K D S I I D K W W R R | | | | |
| UniRef90_X1CAL6 | M R I D F Y S F G E V V I I N G K K Y T S D V I V I F P N K V N S S W W R K | | | | |
| UniRef90_D7E713 | M K I D G T E F G S I T I D G K Y G H D D V V I I R L P Q K I E K R M K E I S K N | | | | |
| UniRef90_Q8TPS9 | K I I D S T S F G S I T I V E G E T F E Y D I I I R L D G R V E K R E K M L S K G | | | | |
| UniRef90_UP10003B531E2 | L Q I N S Y S F G R T E I I N G K T Y T S D L K I I I I N G Q V V P N W W R K | | | | |
| UniRef90_C9R7X7 | M R V D R Y N F G E V I V E G K T Y H Q D V L I I I P D R I V L S W W R Q R | | | | |
| UniRef90_A1RZ84 | M K I D A Y K F G R L V V V G G R A Y E R D V I I I T P S G V V P N W W R | | | | |
| UniRef90_UP10004708F12 | M K I D Y T E F G C I S I D G Q R Y E H D D V V I I R L D G S V E K R K K N L S K E | | | | |
| UniRef90_T1E749 | I I A S L S W G R M T V R G T T Y K D C K V W P G G S R T W D W R | | | | |
| UniRef90_Q8TUR8 | F E G T G F G W V E Y G G E R Y N H D I I I Y V T T E G K V H R R E K G L S R S | | | | |
| UniRef90_E3GXQ4 | I I Y R F G S I E Y G N K E Y N H D I I I I H D G S V S K R E K S L S R E | | | | |
| UniRef90_S0FY90 | I I N S Y S F G K M T V I N G K E F R K D L I I I I I L P D G S V L S P W | | | | |
| UniRef90_F8ABC2 | M K I I E D Y R F G N I V I Q G K A Y N S D V K I I I I D G V V K P N W W R K | | | | |
| UniRef90_X0Y167 | M R I I D S Y S F G V V M K V I E G T E Y R T D L I I I I F P D R V R P N W W R R | | | | |
| UniRef90_X0U923 | I I E S Y A F G R M D V I D G R P Y T S D V I I I I F A D R I I N D S W W R K | | | | |
| UniRef90_X1CKG2 | I I V V N G E S Y T S D V I I I I F P D R V K D N W R R K M S | | | | |
| UniRef90_HOTTN3 | M K I I D G T T F G T I T I D G K T Y E H D D V V V I R L S G E V V K R K K K L S K K | | | | |
| UniRef90_UP100036A107D | M R I I E S Y Q F G K M V I D G I Q Y T H D D V V I I I H K N E V Q A D W W R E R S | | | | |
| UniRef90_A2BKN7 | I I R V E G T G F G Y I V I N G A C Y E Y D V V I I I Y P D G T V A R R P K S S S R K | | | | |
| UniRef90_O30206 | M E V E H Y S F G R I R I G G R D Y T S D V I I V G P D F L K P N W W R K | | | | |
| UniRef90_X0SAX4 | M I I I E K T K F G S I T I D G V K Y K H D I I I Y I N V D G S I T K R K K E L S K P | | | | |
| UniRef90_UP10004684A17 | F T G Y G A G Y V V M V N K T R H E Q S I I I I L V I P D R L I E N W D A K | | | | |
| UniRef90_E3TBS2 | I I A S L S W G H M K V K G S S Y K D C K V W P G G S R E W D W R | | | | |
| UniRef90_S5ZJ25 | M I I V E E Y S F G K I R V H G K T Y T N D V I I V T P E K V V E K W W R K | | | | |
| UniRef90_UP10003315B50 | I I I L S L S W G Q M K V Q G K T Y K D C K V W P G G S R A W D W R | | | | |
| UniRef90_Q2Y8R5 | F T G Y G T D Y V M I N H V R Y D H S L I V L P D R L I E E W E A K | | | | |
| UniRef90_H9G5N7 | I I A S I S W G R M T V K G T T Y K D C K V W P G G S R T W D W R | | | | |
| UniRef90_XOSYW1 | I I V N N Y Q F G E I T I A G K T Y Q D D V I I I Y P D H I D E H H W R E | | | | |
| UniRef90_D2REC3 | M R V E H Y S F G Y I K L D G Q E F F R H D D V I V Y G D F V K K W W R K | | | | |
| UniRef90_A7SVS7 | V D K L S S W G H M T V I G C Q S Y K D C K V W P G G S R A W D W N | | | | |
| UniRef90_Q8PTZ3 | K I I N S T S F G S I T V R G K T F N Y D I I I I R L D G K V E K R R K K L S K K | | | | |
| UniRef90_D6SNW2 | K I I E A Y S F G K M R I Q G K D Y T Q D F K L I I I I I L K G G V V P R W W R K S | | | | |
| UniRef90_UP10003619728 | R I I T H L S W G R M V V E G L G E G K D F K L F P G G G H A W D W N | | | | |
| UniRef90_H3BY79 | I I C S L S W G H M R V Q G S S Y K D C K V W P G G S R A W D W R | | | | |
| UniRef90_UP10004575238 | I I A S L S W G H M K V K G T A Y K D C K V W P G G S R P W D W R | | | | |
| UniRef90_D5E9Z7 | K I I D S T K F S S I T I E G E E Y E K D V L I I I R L S G N I K K R K K K L S K A | | | | |
| UniRef90_W9VBK4 | K I I E A Y G D G G G I Q V N G H P Y A Q G L I I I T P Q R I I A P W G P H S P P | | | | |
| UniRef90_L0HFX3 | I I F G G W V E I I G G T R Y E H D D V I I I H T D G S V S K R K K K L S W A | | | | |
| UniRef90_UP10003B606C8 | M K I I E S Y T F G S M T I N K R T Y G S D L I I I I M P D G D I E P W P V N R F E | | | | |
| UniRef90_UP100031DCDFE | M F I I E L Y K F G R I V I Q G Q T Y T R D V K I I I I E G R V V P H W W R E S | | | | |
| UniRef90_C8X3S6 | M R V D G T G F G Y I I V D G V R Y D Y D V V I I T D R V M N R K K E L S A V | | | | |
| UniRef90_B1L4G4 | M I I V T G Y G P D Y V D I N L Q R H E S S V I I V L P G A P V E W P V A S F D A | | | | |
| UniRef90_UP100016A2B09 | K I I E N S G F G S I V I N G K R Y C H D V W V F T D G S V E K R | | | | |
| UniRef90_X1NGF8 | R V I T H V S W G R M E V E G L G E G K D F K L Y P A G G R A W D W G | | | | |
| UniRef90_UP1000475B859 | I I T S Y G D G Y V V A I N L Q R H E S S I I I V M P E A A V L D W P V A S F E A | | | | |
| UniRef90_UP100040D9063 | M I I E D Y G F G R I V V K G R T Y T S D V I I V F W D G S V K E W W R K | | | | |
| UniRef90_F2KVM6 | R I I T G L S W G R L E T E R G A F K D A K L Y P G G A R E W D W N | | | | |
| UniRef90_Q1AYX2 | R I I I D A Y D A D G I V I V G G R R Y R R G L I I V T P E R I I V D P W G P S Q P | | | | |
| UniRef90_I3YFB3 | F T G Y D I D Y V A V I V N H Q H Y Q A S L I I V L P D R I V E T W P P Q S F A A | | | | |
| UniRef90_S6A9Z3 | R I I T H V S W G R L E V D G T R S F K D A K L Y P G G A R M W D W N | | | | |
| UniRef90_D5H874 | R I I V T G Y G D G Y V I E I V N K V R Y E H S V L V I M P E G A V V P W D L A R F E | | | | |
| UniRef90_C6BH20 | V Q I K N T S F G N I T T T A G T Y D H D I I I I T P E G E I I L K R K K K L S K E | | | | |
| UniRef90_UP10002EEAB88 | I I T G Y G P G W I A V I N A D R L T H S V I I I I G S G G E R L D W E C A R F E | | | | |
| UniRef90_UP1000464B87E | I I T G Y G T G W L A V D R K Q Y E H S L I I V I G A G G G L L Q P W D C Q R F E | | | | |
| UniRef90_UP10004125B4A | I I T G Y G T G W L A V D R K Q Y E H S L I I V I G A G G G L L Q P W D C Q R F E | | | | |
| UniRef90_X1GBK0 | K I I D K F S F G G S I I I D G K K Y S R D V L I I I I F P D K I I N S R W W R R S | | | | |
| UniRef90_X1JR47 | K I I V T H L S W G R M E V E G L G T G K D F K L Y P G G A G R A W D W S | | | | |
| UniRef90_UP100035D66D1 | K I I I L N F S W G V M D I E G Y Q G K D F K L Y P G G G A S P W N W S | | | | |
| UniRef90_E3HD88 | K I I I T A Y G E G W V A I V N E Q E I R H S V I I I I I S P S G I I I E N W W R E | | | | |
| UniRef90_UP1000378D749 | K I I I D Y Y D F G V I V I D N K E Y Y N R D I I I I I S P S G I I I E N W W R E | | | | |
| UniRef90_W6LPD0 | K I I I R S Y G P G W I T V N E Q E I R H S V I I I I I T P A Q L V L D W E P Q A F | | | | |
| UniRef90_E0SNQ2 | UniRef90_C6WWZ0 | K I I I T A Y G E S Y I E V N K Q R Y A Q N L I I V I M P Q S I V T D W Q V Q N V S | | | |
| UniRef90_A0A011Q302 | UniRef90_UP10001CBA274 | I I I T A Y G E D Y V S V N G V R H H C N L L V L P D R L L P N W T | | | |
| UniRef90_UP1000378ABDE | UniRef90_UP1000344B044 | I I I K S F S W G K M D V E D T T Y K D C K V W P P G G S E T W D W G | | | |
| UniRef90_UP1000344B044 | UniRef90_UP1000378ABDE | R I I R G Y D A G R I V V V N E T G Y E H S L V L A P E H L D T D W P P Q R F D | | | |
| UniRef90_K1ZL09 | H I I V T G Y G P D Y V D I N L Q R H T G S V I V R P D A P V A A W P V S S F D A | | | | |
| UniRef90_D6TYC0 | M K I I D Q T T F G S I T I E G T V F A H D V M I R Q S G Q V K K R K K K L S K A | | | | |
| UniRef90_UP100046E9A0F | UniRef90_UP100046E9A0F | I I I T A Y G D G W V E V N H S R H E R S L I I V I L P G T L I T D W Q A S | | | |
| UniRef90_I9BR08 | UniRef90_I9BR08 | V I T A Y D D T S L E V N L V R F P H S I I I L P E G P V E R W E V T R F E | | | |
| UniRef90_D3S2B4 | UniRef90_D3S2B4 | M L V E S Y S F G R I V V G G R E Y R S D V V V G D E I I V E N W W R K | | | |
| UniRef90_F8GDA4 | UniRef90_F8GDA4 | I I F T G Y G D G Y I L I N Q T R Y E K S L I I V M P D R L I E D W P V I S V S Q | | | |
| UniRef90_C9Y6L1 | UniRef90_C9Y6L1 | I I T G Y G P G W V E V N G E K Y H S S I I I V S S Q G V I Q P W S C L R F E | | | |

| QUERY | 50 | 60 | 70 | 80 |
|------------------------|---|---|----|----|
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| UniRef90_G0HND4 | K H G T S H K L D P D E L L R E Y L E E N F D V L L V G T G F Y G Y L S S L P E S | | | |
| UniRef90_W016J9 | K H G T S H K F D P D E L L K E Y Y L T E D F D V L I V G T G I Y G A L R R L P E A | | | |
| UniRef90_H3ZQH5 | K H G T S H K L D P E E L L K E Y Y L K E D F E V L L V V G T G I Y G M L S S L P E S | | | |
| UniRef90_UP100029ADD7A | K H G T S H R L D P E E L L K E Y Y L T E D F D L L L V G T G M Y G M L S S L P E S | | | |
| UniRef90_F8AFC7 | K H G T S H R L D P E E L L K E Y Y L K E D F D V L L V G T G I Y G M L S L P E A | | | |
| UniRef90_F2NCF7 | E S H L V Q L Q D V A A A L A S K P E V F I V G Q Q G Q P G K M R V D E A L | | | |
| UniRef90_X1KKU0 | E G H N L C I D D D I K E I I D K K P E E V L I I G T G A Y G L M K V P S D L | | | |
| UniRef90_X1B1V7 | G H L L Q N E D L T D V I I Q Y N P E E V L I V G T G D N G L M K V P N D T | | | |
| UniRef90_W8RLX8 | E G H R L H V E D L K D V L E A K P E E V L V V G T G Y S G L M M V P P E T | | | |
| UniRef90_B5YJD9 | E G H C L C I E D L A E V L K N N V I I L V V G T G A Y E R M R V P A S L | | | |
| UniRef90_C6A4E5 | K H G T S H K L D P D E L L R E Y L K E D F D V L L V G T G I Y G L L S L S E S | | | |
| UniRef90_A0A011N3L2 | Y Y G T S H T I S L D E A E F V Y E K G G D T L V L G T G Q Y G N V H S P E A | | | |
| UniRef90_B6YXB6 | K H G T S H K L D P E E L R K Y L D E R F D V L V V G T G L W G M L S L P E S | | | |
| UniRef90_X0V451 | E G H R L C A D D L G D V L D K K P D V I V V G T G N P G L M K V P E T | | | |
| UniRef90_A0A011R6F7 | Y F G T S H T I S R D E A E Y V Y E K G C D T L V L G A G Q Y G N V Q S P E A | | | |
| UniRef90_X0T2W5 | E G H N L H I D D I Q E I I N K K P D T L I I G T G Y S G L M K V P E E L | | | |
| UniRef90_X1HK87 | E S H N L C I E D I Q K I I D N K P A A L I I G T G Y Y G L M K V P L E L | | | |
| UniRef90_X1CAL6 | E G H E L N M E D L K G I I E A A P K V L I V G T G A F G Y V E K Q E V | | | |
| UniRef90_D7E7I3 | K Y G S G H K L C K E E M Q E Y L K N N I D T V V V G N G Q N G V L Q L D E T | | | |
| UniRef90_Q8TPS9 | K Y G T S H K I I S L E E A E H I Y E E G T E K I I V G T G Q T G F V E L S E E A | | | |
| UniRef90_UP10003B531E2 | D G H H L Y P D E I K D I L S S D C E V L V V G T G A Y G V M K I D Q A V | | | |
| UniRef90_C9R7X7 | G H E V V L A D L A E A L K A H P E V L V V G T G A Y G V M K V P L E V | | | |
| UniRef90_A1RZ84 | L E G H R L Q L E D V K K Y L G L D V D A V V V G T G Y H G F M R V D S E V | | | |
| UniRef90_UP10004708F12 | K Y G T S H R V S L D E A H H L Y E A G A E R E M I V G A G Q Y D Q V T F S E D A | | | |
| UniRef90_T1E749 | E T G T E H G V Q P A D V K E V L E K D V K T L V I G R G M S E A L Q V P P A T | | | |
| UniRef90_Q8TUR8 | K F G T S H N L A A D E L R R L E P V I V V G T G Q S G V L S T E E A | | | |
| UniRef90_E3GXQ4 | K Y G T S H I L S D R E I E K L V N E N P D V L V V G C G E V G A L K V S D E A | | | |
| UniRef90_SOFY90 | □ R K S G H R L T L E D D L K P V L E T D A E I I L V I G T G K P G L M R P H A T L | | | |
| UniRef90_F8ABC2 | E G H R L Y P D E I A D I L E S G C K T L I V G T G A Y G V M K V D P S V | | | |
| UniRef90_X0Y167 | Q G H S L A V E D D D V L V F K P E E V L V V G R G A S G L M E I P A S I V | | | |
| UniRef90_X0U923 | T G H S V C L E D I E N V F K E E P E V L V V G T G F Y G L V K V P E E V | | | |
| UniRef90_X1CKG2 | H Q L H D E L S E A L A A E M P K A L I V G T G A A G L V K V L P E V | | | |
| UniRef90_HOTTNN3 | □ Y G T S H V L S E D E A K F L F E K G C D Q V V I G S G Q M G N V H L S P E A | | | |
| UniRef90_UP100036A107D | H H T L A D F P C L Q D E K P D V L I V G T G K F G L M K I H K D V | | | |
| UniRef90_A2BKN7 | N V Y G H T P L S R R E A E H I L S K Q V D Y I V G T G Q Y G A L P V E D D A | | | |
| UniRef90_O30206 | □ S K G H T V L G P L E I Q L L D Q K P D T L V I G Q Q G Q R G I L P M P E E S | | | |
| UniRef90_XOSAX4 | E T G T D H G V Q P A D V E E V V Q H G V I Q T L V I G R G M S K A L Q V P P S T | | | |
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| UniRef90_S5ZJ25 | E G H K V F L E D I Q F F L L E Y S P R I V V F G T G Y H G L V K V Q R E V | | | |
| UniRef90_UP10003315B50 | E T G T E H G V Q P A D V E E V V Q H G V I Q T L V I G R G M N K A L K V L P S T | | | |
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| UniRef90_Q8PTZ3 | E T G T S H K I I S L E E A K Y I H E K G A E K L I M G T G Q T G Y V E L S K K A | | | |
| UniRef90_D6SNW2 | G H S V E T D D V R D I L E A A P D I I L G K G R P G V M Q S T P E L | | | |
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| UniRef90_H3BY79 | E T G T D H R V Q P A D L E E E V L R T G V I R A L V I G R G M N E A L Q V P A A T | | | |
| UniRef90_UP10004575238 | E T G T E H T V Q P A D L E E E V L R T G V I R A L V I G R G M N E A L Q V P A A T | | | |
| UniRef90_D5E9Z7 | □ Y G T S H K I I S L E E A E H V Y E N G A E K I I I G S G Q N G M E L S D E A | | | |
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| UniRef90_UP100031DCDFE | D L Q S A H F E A L L D K S P E V V L L G T G Q Q L R F P H P R L T | | | |
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| UniRef90_UP10004125B4A | D L T L A H F E A L A A Q L D A E E V V I I F G S G A R N R F P P A A W L | | | |
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QUERY

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| | 90 | 100 | 110 | |
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| K K L V E D K E V I E K P T K E A L K L L E E L W G K K R I L A I H V T C | | | | |
| R E L V K G K E V I E K P T G E A V K L F N E L W E R K K T V L A I F H V T C | | | | |
| R E L V A N K E V I E R P T G D A V E L F N G L W G K R K V L A I F H V T C | | | | |
| K E I V K D K E I I E K P T P E A L K L F N E L R K E K K V L G V F H I T C | | | | |
| K K L I E G K E V I E K P T P E A A K V F N E L K G K K R I L G I F H I T C | | | | |
| R K L A E G K E V I E L P T G E A V K V F S E E S G K R R V L A I F H V T C | 90 | 100 | 110 | |
| K E L V K N R E V I E K P T P E A L E L F E E L R K E K R V V L A I F H V T C | | | | |
| K Q Y L R Q N Q I E E M P T K T A C A T Y N E L S P R R K V V V A A L H V T C | | | | |
| I A Y L K N I K V I I K K T K E A C D K Y N Q L Y Q N K K V I A A A F H L T C | | | | |
| K Q F L E S K G I I S E E T R K A C D I Y N K L K G R R K V V V A A F H L T C | | | | |
| R K Y V E S E G I I A Q R T A E A C K T F N R L V K S R K V V V A A F H L T C | | | | |
| I E E L K Q K G I E V S N T E T K A V D L F N Q F M D E G K V V A G A F H L T C | | | | |
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| A E F F F A D H D C R V Q P P T P Q A I E A Y N K G K G R T I G L F H V T C | | | | |
| K E L V K D K E I I E I P T P E A A E L F E K L R K E K R V V L G I F H V T C | | | | |
| E R L I E S K G I I V Q P T P T R E A C C T N N Q L T S S Q K A I A L L H V T C | | | | |
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| I J K Y L E N I E V I I K K T K N A C C D E Y N T L H Q K K K N V I V V A A F H L T C | | | | |
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| E K M L E D K G V E V R K T P E A I I N D F N K I I Q T K N K V V L G I F H V T C | | | | |
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| K K S L A E H G I I A L P T A E A C C R K Y N E L A Q G K R V V V A A L H L T C | | | | |
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| I I Q Y L S D Q N C I V I L P P T P K A I K Y W N K Y D K P A C G M F H T T C | | | | |
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| Y V M S R G I G F E I M D T G A A C C R T Y N I L V S E G R R V V A A A L H C C | | | | |
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| L A L L A D R Q V D V A E T T A V A R L Q Y N E L A G R T S V V G G L F H S T C | | | | |
| A A L A L A K H I G I E T M D F G A A C C R T Y N I L M S E R R V V A A A L H C C | | | | |
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| D A L I R I A I G V E V M D T P A A C C R T Y N I L A S S E R K V V A A A L L L | | | | |
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| K P L L M R H I G L E T M D T H A A C C R T Y N I L A G E R K V V F A A L L L | | | | |
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| V A A L E A R G V H V A Q T Q E A V R L Y N S L C D S A S V V G G L F H S T C | | | | |
| I E L L K K H N I E I L D T K K A V E L Y N K L A G E N R I G G L F H S T C | | | | |
| K A L L M R R I G L E T M D T P A A C C R T Y N I L L A Q E R K V V A A A L L L | | | | |
| Q A L L A H I G V E V M D T A A A C C R T Y N I V I M E G R R V V A A A L L L | | | | |
| I Q W F N S R G I E E V K R S R E A A V E I Y N K A V E E G K K V V L L F H L T C | | | | |
| Y Q L L T E H G I E C M T T A A A C C R T Y N I L M S E G R L V V A A | | | | |
| R P L L R Q K G I V E V M D V P A A C C R T Y N I L I G E G R K V V A V | | | | |
| L N Y V K D K H V E V L Q T E K A V V Q K Y N S L V K G G K V V G G L F H S T C | | | | |
| L C V L R G I G F E V M D T A A A C C R T Y N I L M A E G R P V V A A | | | | |
| A V L L T R G I G V I E T M D F K A A C C R T Y N I L M A E R K V V A A A L | | | | |
| U n i R e f 9 0 _ K 1 Z L 0 9 | | | | |
| R K K L S E V I E L E T P K A I E K Y N K L E G G R K V V N A L I H T T C | | | | |
| A E Y F Q Q K Q C Q V L P T P L A I Q T W N E A N G T V I S L F H V T C | | | | |
| R E L A A G I S L E S M T T E A C C R T Y N I L M A E G R V V A A A L | | | | |
| A N L L L R Q I G V D V T M D V K A A C C R T Y N I L M A E G R K V V A A L L L | | | | |
| V R L L L E E K G V E V E E S S K A V E K F N E L K K G K V V V L A I H L T C | | | | |
| S Q L T K G I G I V E V M D T R A C C C R T Y N I L V E E R R V V A A A L | | | | |
| K P Y S R R I G L E T M D T Q A C C R T Y N F L S G E R K V V V A A L | | | | |

| | 1 | 10 | 20 | 30 |
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| UniRef90_UPI0003B4E8F5 | M K N G T K F G S L T I | H G E N L K H D V L I R L S G K V K K R K K K L S R E | | |
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| UniRef90_Q47DF7 | I T A T Y G S A F V E | I N G Q P Y Q S P V L V S A D T L N P W | | |
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| UniRef90_W0TRA9 | K I E A C E P G R I Q V A S Q I F H S H N M L I M P E R L L Q P W | K I E A C E P G R I Q V A S Q I F H S H N M L I M P E R L L Q P W | | |
| UniRef90_D5CUR1 | F T G Y G H E G Y V V S | F T G Y G H E G Y V V S I N T H R Y R Q P V V M A E V R T D W P A T D F A A | | |
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50 60 70 80

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 D L G P A H F A Q L A E A D V E T V I F G S G N R L R F P K P E L L
 E L S P A D F T Q M A T L K P E L I I G T G K R Q R F P K P E L L
 L T S D H L Q T V S E L A P E V V V L L G T G A Q Q S F P G R E L M
 I Y G T S H T M S L N E A K H V C E K G V K R L I I G T G Q N G L L G L S K E A
 T F E D L E A G H F S Q M I D L K P E L I L I G T G K R Q R F P K P E L L
 A T A A D L T R E H L T A I A D L K P R V V V L I G T G A Q P A L L D P A L Y
 S D Y F H T P L S E R E L L G F L D G E R P E V V V I V G A G Y K S S M M P L T P Q A
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 E G H R L Q V E D L E E V W K Y S L E Y L I V G T G A H G V M K V D S E V
 E V G S F E E L T E A H F A Q I L A D S P D V V V I L G T G E R Q R F V H P K L T
 E D L D L A C F C S V L E D P P E I V V I L G T G A S Q R F P P R E I
 D L C E D D F A A A V A L E P Q L V I L G T G D R H A F P H P S L L
 L K K S E N F E T I A L S G A E L V I F G S G Q R L R F P Q P A W L
 T L N N D H F Q E I S K L K P E V V L L G T G K T H L P K N Y
 L T G T R H G I Q P A D I E E I L A Q G I E F M V L S R G M Q L M L Q T C P E T
 E T G T H H T I Q P A D V V E E L V A H G A T V V V L L S Q G M H E R L Q V M Q E T
 L R G E H T P L S E A E L G F L E E E R P E V V V Y I G T G Y E G A L P I T P G A
 T P E H F E E L V R A C E C E P E V V V F G S G T R L R F P H P R L T
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 S A K L E S L T E A D M Q R L L E L G T E I I I L L G T G S R L L R F P P G A L L
 D L D L A C F Q S L L D N P S E V V I L G T G A R L R F P P R D I A
 L Y G T S H K I I S L A E A K Y I Y E K G A E K L V V G T G Q I G Y V E L S A K K
 Q V E G F D A L A P G H F E L L A Y D P E V V V L L G T G S R L H F P H P R I T
 L T H A C F Q D L I Q A M I E L L L F G S G A R L R F P S P Q L M
 Q A S F E T L S V A D F E L L A G L D A D I V V L L G T G K R R F P R P E L L
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 Q I A D L S I E S L S M A L Q D P S I L L I G T G T S V F F L A Q R L L
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 E S A E G L G L E H F N E V L A R K P D V M L L G T G K K Q H F P L Q
 K T G T S H G I T R E D V E D L K E K G A E V V V L T R G Q W A F L H V P P E V
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90 100 110

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

| | 90 | | | | | | | | | | 100 | | | | | | | | | | 110 | | | | | | | | | | | | | | | | | |
|------------------------|----|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|
| UniRef90_A4ELF4 | R | T | T | L | E | D | I | G | V | E | T | M | A | S | P | A | A | C | R | T | Y | N | V | L | L | S | E | G | R | R | V | A | V | | | | | |
| UniRef90_A8LN85 | R | A | E | I | E | A | R | G | I | E | V | M | S | S | P | A | A | C | R | T | Y | N | V | L | L | S | E | G | R | R | V | G | L | | | | | |
| UniRef90_UPI0003736EF4 | R | A | A | L | R | E | R | G | V | V | M | A | T | G | A | A | A | T | R | W | N | I | L | V | G | E | R | R | R | V | A | A | | | | | | |
| UniRef90_A0A024KHT5 | R | Q | A | F | R | E | R | K | V | I | V | E | P | T | G | G | A | V | R | T | Y | N | V | L | A | E | E | R | A | V | G | A | A | | | | | |
| UniRef90_V4RBM6 | R | Q | A | L | R | E | L | G | V | E | L | M | S | T | G | A | A | A | R | T | Y | N | V | L | L | A | E | | | | | | | | | | | |
| UniRef90_H6SQ50 | R | Q | S | L | R | G | L | G | V | E | T | M | D | T | G | A | A | C | R | T | Y | N | V | L | I | Q | E | R | R | V | V | A | A | | | | | |
| UniRef90_E0MKQ7 | R | D | A | L | S | A | K | G | I | A | C | D | P | T | G | A | A | A | R | T | F | N | V | L | L | G | E | G | R | A | V | G | A | | | | | |
| UniRef90_U7GIU4 | K | T | L | F | R | E | A | G | I | L | S | M | S | T | G | A | A | L | R | T | F | N | V | L | L | S | E | D | R | A | V | V | A | | | | | |
| UniRef90_A0A059KHS9 | R | G | L | I | E | R | I | G | I | E | C | M | D | T | A | A | A | C | R | T | Y | N | V | L | V | S | E | R | R | A | V | A | A | | | | | |
| UniRef90_I4VK55 | A | G | F | L | R | K | I | G | I | E | V | M | D | N | A | A | A | A | R | T | Y | D | L | L | A | G | E | G | R | V | V | A | A | | | | | |
| UniRef90_UP10004688B7D | L | A | T | L | Q | E | A | G | V | E | A | M | S | P | A | A | A | C | R | T | Y | N | V | L | L | S | E | G | R | R | I | A | L | | | | | |
| UniRef90_Q0FHC6 | T | A | R | L | E | A | A | G | V | E | V | M | S | T | P | S | A | A | R | T | Y | N | V | L | L | G | E | G | R | R | V | V | A | | | | | |
| UniRef90_UP1000410B3BB | R | N | A | V | E | E | I | G | L | E | V | M | S | S | P | A | A | A | R | T | Y | N | V | L | L | S | E | G | R | V | V | A | | | | | | |
| UniRef90_N0B253 | E | A | F | A | K | N | I | G | L | E | P | M | S | T | G | A | A | A | R | T | Y | N | V | L | L | A | E | K | R | R | I | A | A | | | | | |
| UniRef90_U2YJE6 | R | D | R | L | E | E | I | G | V | E | T | M | T | P | A | A | A | C | R | T | Y | N | V | L | L | S | E | G | R | R | V | A | | | | | | |
| UniRef90_UP100035D413B | R | R | W | L | K | D | N | G | I | D | V | M | Q | T | G | A | A | A | R | T | Y | N | V | L | L | A | E | R | K | V | V | A | | | | | | |
| UniRef90_Q2W4A9 | R | A | A | L | R | A | G | I | E | L | M | D | T | G | G | A | A | C | R | T | F | N | V | L | V | S | E | D | R | V | V | A | | | | | | |
| UniRef90_UP100042BE95B | L | Q | A | M | R | Q | R | G | V | E | V | Q | D | T | P | N | A | A | C | A | T | F | N | F | L | C | H | E | G | R | V | T | G | | | | | |
| UniRef90_A1L1F1 | L | I | E | L | K | K | R | G | V | E | V | Q | D | T | P | N | A | A | C | A | T | F | N | F | L | S | S | E | K | R | | | | | | | | |
| UniRef90_U618K5 | L | N | D | L | E | R | Y | D | V | I | K | V | S | T | P | V | A | V | E | I | Y | K | L | A | E | N | G | H | V | A | G | L | F | H | T | K | C | |
| UniRef90_M9RHJ5 | R | K | A | L | E | D | L | G | V | E | V | M | S | S | P | A | A | A | C | R | T | Y | N | V | L | L | S | E | G | R | R | V | G | L | A | | | |
| UniRef90_Q3JEN1 | E | P | L | R | H | I | G | V | E | F | M | D | T | A | A | A | A | C | R | T | Y | N | I | L | V | G | E | R | R | V | V | A | | | | | | |
| UniRef90_X5MGS0 | R | V | L | L | W | G | K | R | I | D | T | M | S | T | G | A | A | A | V | R | T | F | N | V | L | L | A | E | D | R | A | V | A | | | | | |
| UniRef90_D5BQT3 | A | A | Q | L | K | N | I | N | L | E | V | M | S | T | A | A | A | C | R | T | Y | N | V | L | V | M | S | E | G | R | D | A | A | | | | | |
| UniRef90_J0QXC9 | R | Q | Y | L | R | E | K | Q | I | D | T | M | S | T | G | A | A | A | V | R | T | F | N | V | L | L | A | E | D | R | A | V | A | | | | | |
| UniRef90_I5C0H7 | R | R | S | F | R | E | A | G | V | E | T | M | A | T | G | A | A | A | V | R | T | Y | N | V | L | L | A | E | D | R | T | V | A | | | | | |
| UniRef90_F8NN65 | R | T | Y | L | K | Q | L | G | I | D | V | M | D | T | R | N | A | A | C | S | T | Y | N | L | L | A | E | R | R | V | V | A | | | | | | |
| UniRef90_A0G791 | R | Q | A | L | K | A | V | R | V | V | T | M | Q | T | G | P | A | V | R | T | Y | N | V | L | V | M | I | G | E | R | R | V | V | | | | | |
| UniRef90_A0A011URG5 | R | S | V | L | K | E | A | G | I | D | P | M | S | T | G | A | A | A | V | R | T | Y | N | V | L | V | L | A | D | D | R | A | V | | | | | |
| UniRef90_A3VXM5 | R | S | A | L | A | G | I | G | E | T | M | N | S | P | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | G | R | R | V | V | | | | | |
| UniRef90_K1ZZ89 | Q | P | L | L | Q | K | Q | H | V | E | C | M | S | T | S | A | A | A | C | R | T | Y | T | A | L | I | A | E | N | R | R | V | V | | | | | |
| UniRef90_Q2CHS8 | R | A | R | L | E | E | L | G | V | E | T | M | S | P | A | A | A | A | R | T | Y | N | V | L | V | L | S | E | G | R | R | I | A | | | | | |
| UniRef90_A3KA03 | R | E | R | L | E | G | G | L | V | E | V | M | S | S | P | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | G | R | R | V | V | | | | |
| UniRef90_UP100037F0619 | L | D | R | L | R | K | A | G | I | S | C | M | S | T | G | A | A | A | V | R | T | Y | N | V | L | V | I | M | G | E | R | R | P | V | A | | | |
| UniRef90_A0A021XB91 | K | A | A | L | T | E | R | K | V | D | P | M | S | T | G | A | A | A | V | R | T | F | N | V | L | V | A | E | S | R | A | V | A | A | | | | |
| UniRef90_Q5LR14 | R | H | S | L | R | E | Q | A | G | V | E | A | M | T | S | P | A | A | C | R | T | Y | N | V | L | V | L | N | D | E | R | A | V | | | | | |
| UniRef90_G8PH53 | K | A | P | F | R | E | K | G | I | M | V | M | S | T | G | A | A | A | V | R | T | Y | N | V | L | V | L | N | D | E | R | A | V | | | | | |
| UniRef90_L0SU56 | A | L | F | L | R | G | I | G | I | E | V | M | N | N | A | A | A | A | R | T | Y | N | V | L | V | A | A | E | G | R | R | V | V | | | | | |
| UniRef90_B819U4 | R | Q | R | L | K | G | I | G | I | E | V | M | Q | T | G | A | A | A | R | T | Y | N | V | L | V | L | A | A | E | R | K | V | V | A | | | | |
| UniRef90_UP100031F9C31 | R | W | H | R | R | L | R | V | A | V | E | V | M | P | T | G | A | A | A | R | T | Y | N | V | L | V | L | A | E | S | R | A | V | A | A | | | |
| UniRef90_I4VJY4 | A | G | F | L | R | K | V | G | I | E | V | M | D | N | A | A | A | A | R | T | Y | N | V | L | V | L | A | G | E | R | R | V | V | | | | | |
| UniRef90_Q3SRR3 | R | A | A | L | R | R | I | G | V | E | T | M | N | S | P | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | G | R | R | V | V | | | | |
| UniRef90_B1LXR6 | R | G | W | L | K | D | F | G | V | E | V | M | Q | T | G | A | A | A | R | T | Y | N | V | L | V | L | A | E | R | K | V | V | A | | | | | |
| UniRef90_G4T9X5 | R | E | Y | L | R | E | I | G | V | E | V | M | P | T | G | A | A | A | R | T | Y | N | V | L | V | L | S | E | R | R | V | V | | | | | | |
| UniRef90_Q5GTA9 | S | Y | L | I | E | Q | K | G | L | E | F | M | T | T | D | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | D | R | F | V | | | | | |
| UniRef90_X6L1D8 | R | S | A | L | A | G | L | G | V | E | V | M | T | S | P | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | G | R | R | V | V | | | | |
| UniRef90_A6E4F7 | R | D | D | L | E | G | L | G | V | E | V | M | D | N | A | A | A | A | R | T | Y | N | V | L | V | L | S | E | G | R | R | V | V | | | | | |
| UniRef90_S9SAP0 | R | A | A | L | E | A | G | I | E | P | M | S | T | P | S | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | G | R | R | V | V | | | | |
| UniRef90_UP100047E1D29 | A | A | E | L | R | E | Q | G | I | E | V | M | A | S | D | A | A | A | C | R | T | Y | N | V | L | V | L | A | E | R | R | V | V | | | | | |
| UniRef90_L5K4B4 | L | E | C | L | E | K | Q | G | I | D | V | L | Q | T | E | Q | A | A | C | R | T | Y | N | V | L | V | L | A | E | D | R | A | V | | | | | |
| UniRef90_H0HW9 | R | D | V | L | K | A | N | N | I | D | A | M | S | T | G | A | A | A | V | R | T | Y | N | V | L | V | L | A | E | D | R | A | V | | | | | |
| UniRef90_UP1000440E354 | R | R | Y | L | S | E | C | L | G | V | E | V | D | M | T | W | N | A | A | C | T | T | Y | N | V | L | V | L | A | E | R | R | V | V | | | | |
| UniRef90_A8PLR8 | L | F | Y | R | H | N | I | G | I | L | E | V | M | T | F | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | R | R | V | V | | | | | |
| UniRef90_H8FMJ5 | R | A | G | L | A | A | G | V | I | R | V | M | D | T | G | A | A | A | C | R | T | Y | N | V | L | V | L | T | E | R | R | V | V | | | | | |
| UniRef90_X1EN20 | K | K | T | L | Q | E | K | G | I | I | A | K | N | T | G | Q | A | W | G | I | F | N | E | Q | I | E | K | R | K | V | V | G | A | F | H | L | T | C |
| UniRef90_D8K8U5 | E | P | L | L | S | H | Q | G | V | E | F | M | D | T | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | R | R | V | V | A | A | | | | |
| UniRef90_A3SRE7 | R | S | E | L | E | A | G | I | E | I | M | D | N | A | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | G | R | V | V | A | M | | | | |
| UniRef90_UP100046675C5 | A | A | C | L | R | G | I | G | I | E | V | M | D | N | A | A | A | A | C | R | T | Y | N | V | L | V | L | S | E | D | R | V | V | A | | | | |
| UniRef90_UP10003697E4D | R | A | R | L | K | Q | A | G | I | M | V | M | A | T | G | A | V | R | T | Y | N | V | L | V | L | M | L | D | E | R | R | V | V | A | | | | |
| UniRef90_F4GMA8 | Q | A | L | F | A | G | I | D | V | E | V | M | S | S | P | A | A | A | C | R | T | Y | N | V | L | V | L | M | S | S | E | G | R | V</ | | | | |

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|------------------------|---|--|--|--|
| UniRef90_UPI000469CE98 | V D G Y G P G F F R I G G K L I E G P V V T G P S G | | | |
| UniRef90_UPI0004186B5A | V N D R L H A S F L V S P N R L V E G W P V R | | | |
| UniRef90_W8I6X6 | I D A Y G N G G F R F A D M S H R G S V L M L P S G V Y A | | | |
| UniRef90_J6UFW5 | I D A Y G D G G F R L G D L S H R G S I A C L P D G V | | | |
| UniRef90_W8SJM0 | I V D G Y G P G F F R L G G E R I E G A V L L M P T G V | | | |
| UniRef90_I1AT71 | V D G Y G P G F F R V A G R P M H G P I C L A N E G S V A | | | |
| UniRef90_K8P683 | I E A Y G N G G F R F A D M S H R G S I L L C L P D A I | | | |
| UniRef90_U4M1C1 | K V N D Q I L Q Q S F I L L M P D E L V E H W P V Q A L E Q | | | |
| UniRef90_N6VMB7 | I D A Y G N G G F R F A D M S H R G S I M C V P S G V Y G I D M V E P I P | | | |
| UniRef90_K8NC08 | I D A Y G Q G G F R F A D M S H R G S I L L C L P D G I | | | |
| UniRef90_UPI0003649CC3 | H I D A Y G Q G G F R F A D M S H R G S I L L C L P S G M | | | |
| UniRef90_V7IDF7 | H I D A Y G Q G G F R F A D M S H R G S I L L C L P S G M | | | |
| UniRef90_W4HR79 | V E G Y G P G F F R I G G K A L D G P L L L S P H G | | | |
| UniRef90_V8QM17 | V T R Y G D Q F I E V N E I Q Y T H A I A F R P E G A I R P W N V T S V S D | | | |
| UniRef90_C1N3X3 | I D T Y T P R G F V V G G V E Y R G S V F L Y Q E L S L | | | |
| UniRef90_UPI00046763B8 | V N E R R L T R S F V I A P D A L V E D W P V | | | |
| UniRef90_T2M6B3 | L F I T K Y N T K G F T I Q G N K V F G S V A I L P K C Y L S W K V K S S C D | | | |
| UniRef90_D8JWH3 | V T A Y G N G G F R F A D M S H R G S I I L C L P N G I | | | |
| UniRef90_UPI0004654E14 | I D A Y G N G G F R F A D M S H R G S I I L C L P N A V | | | |
| UniRef90_I4VW93 | G I T L I D R E L T S S F L L A P D R A I E N W P V T A | | | |
| UniRef90_UPI00037F0908 | R I T G Y D K D S I W V N G Q P C K Q A I L L T A Q S L E T P W L N K T F A Q | | | |
| UniRef90_M4MTU2 | V D A Y G N G G F R F A D M S H R G S V L M L P P S G I Y A | | | |
| UniRef90_Q0QG91 | I D A Y G N G G F R F A D M S H R G S I I I C V P S G I Y G N M I G P I P | | | |
| UniRef90_W4Y7Z0 | F I S N Y S Q Q G F T I S G D K V Y G P V A I L P R S L L S W | | | |
| UniRef90_E8UCY3 | V T A Y D E S Y I E I N K E R Y F Q S V Y F T P E S P I H T W D I | | | |
| UniRef90_M0RVX3 | L R F Q W Y G D T G F T V N G V K Y E G S L L L V V E N K L M T W V P K | | | |
| UniRef90_UPI0004658EA1 | V E G Y G P G F F R V V D G K V I E G A M I A T G A R A R G W D | | | |
| UniRef90_A3VMR9 | M P V E S Y G P G F F R V V D G K V I E G A M I A T G A R A R G W D | | | |
| UniRef90_S9Q9F3 | V E G Y G P G F F R V V G G K A L D G P L C V S A S G P K H W G | | | |
| UniRef90_A9D5M0 | I D A Y G N G G F R F A D M S H R G S I I L C L P S G I Y G | | | |
| UniRef90_J4GNP7 | S A C I F L D G K V F L W D V P Q T Q W W G G | | | |
| UniRef90_U4UT18 | I D G Y G P G F F R V V G G Q V Y N S A V L C S G A G V S E | | | |
| UniRef90_Q166J0 | I E G Y G P G F F R I I G G E V I H G P V L A G P D G T L P | | | |
| UniRef90_A0A037ZGB2 | I D G Y G P G F F R I I G G E V I E G G V L V H A G G A L K | | | |
| UniRef90_K8FIE9 | R I D A H T D E W F E I N R E E L R S S I I F V H K N F R A L W K P | | | |
| UniRef90_I4YX27 | F D A Y G N G G F R F A D M S H R G S V L A L P S G I V R A W S V N | | | |
| UniRef90_I3TKV0 | V Q G Y A E G R F R I I G G E I I F P H S V L V M P G V V E A W | | | |
| UniRef90_B9SKJ0 | L R F Q G Y T E T G F T V N G V K Y E G S L L L C V G N L L L S W S P T | | | |
| UniRef90_Q28TF8 | V D G Y G P G F F R V V G G E V F N G A V L L V P A G P A L W G | | | |
| UniRef90_C4GFD4 | I D S Y T A G E I I I N Q T A Y T H N V Q L G D N V A L F | | | |
| UniRef90_F6DCDA3 | I R S Y E P N C V S V N Q Q K L C Q S C V I S Q H H L S D W P V T Q L S | | | |
| UniRef90_UPI000464EC79 | V V K N Y Q A G S V K V N D K L I S H S C Y L N Q K N L V S D W Q C N N L A | | | |
| UniRef90_S9QEZ2 | V D G Y G P G F F R I I G G E V V E V G S V L L L I P T E R F A W D G | | | |
| UniRef90_G5ZW59 | V N S Y G G G F R I A K Q S V T G S Q F V L I P R Q T A E W | | | |
| UniRef90_H2L4U6 | I A S L S W G H M K V K G S S Y K D C V K W P G G S R A W D W R | | | |
| UniRef90_B4RDH3 | D A Y G D G G F R V V G G E R R R D G S L L I V G D E A R S W P V A | | | |
| UniRef90_UPI00046223E3 | T S A C I F L D S K V F L W N V P W D G W | | | |
| UniRef90_UPI00047DBED2 | V D A Y G N G G F R F G G M S H R G S I I L I L P S G V H G W A A | | | |
| UniRef90_S8DH85 | U N I F L D G K V F L W E V P E T R W | | | |
| UniRef90_B8ETD2 | I D G Y G S G G F R F G G M S H R G S I I L A L P S G V Y A | | | |
| UniRef90_UPI000463EB8B | I D T Y G N G G F R F A D M S H R G S I I L C L P S G I H G | | | |
| UniRef90_K5X9Y7 | S A C I F L E G K V F L W N A P P T P W | | | |
| UniRef90_UPI0001CBB7F0 | I S S Y S T H G F T I N G D K I I G P V A I L P K T L V H W A V A | | | |
| UniRef90_M5XB71 | U R F Q R Y T E T G F R V V N G V D Y E G S I I L L C V G N M L M S W A | | | |
| UniRef90_UPI0002DC06D3 | R I D D Y G D G G F R F A D M S H R G S I I L A L P T G V R A I A T A S W K E | | | |
| UniRef90_V8NH39 | W W | | | |
| UniRef90_I4WPI6 | L Y V R R V G A R S V T V I D R E I T C S F I L L A P D R A V E E N W S V T A | | | |
| UniRef90_UPI0004416B45 | Q D G L V P P G P C V F L E G K V L L W D | | | |
| UniRef90_UPI0004789428 | V N E R R L E R S F I I A P D R L V E D W P V R | | | |
| UniRef90_A1B1X1 | V D G Y G P G F F R V V G G V V H H G A V L V T A E G V Q P W G | | | |
| UniRef90_I3UDM9 | V T R Y G D H F I E V N E V K Y T H A I A F R P E G A V R P W N V T A V S D | | | |
| UniRef90_S7RW16 | S A C I F L E G K V F L W D V P Q S L W | | | |
| UniRef90_A3SXR6 | M F I E G Y S T R G F T I S G D V V V G P C A V L P R S I I L Q W N | | | |
| UniRef90_UPI000359676E | M F I I S E Y D D G G F V V N D V N M R G S V A L M P N I A M M W K P | | | |
| UniRef90_T0Q7G4 | M F I I E N Y T N Y G F S I N G N T V V G P C A I L P Q A I L Q W N | | | |
| UniRef90_V8NV96 | M F I I D A Y G N G G F R F A D M S H Q G S I I I C V P S G V Y G D M V G P M P S | | | |
| UniRef90_A1US87 | L R F Q A Y D D T G F K V V N G V S Y D G S I I I L I A G N L L M N W T P K N F S P | | | |
| UniRef90_S8CFD6 | I T E Y D D G G F V V N E V N L R G S I I A V F P E I A M M W | | | |
| UniRef90_A0A024UFR9 | U L Q I E A Y R P G Q L T V N G H T L S E A V L I D T G H T L R P A G L A A P | | | |
| UniRef90_G4CFB0 | I I D A Y G N G G F R F A D M S H R G S I I I L C L P S G I H G W | | | |
| UniRef90_UPI000465C650 | M H I Q S Y S D S E I K I N N T L Y K E S I I I S R Q A L I T E W P | | | |
| UniRef90_W0BFC8 | I I D G Y G K G G F A F A D M S H R G S I I I L C L P D S I W A W D V T E P | | | |
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| UniRef90_UPI0003597F4E | T G | | | |
| UniRef90_B6AUS2 | I D G Y G P G F F R V V G G E V H Q G H I L | | | |
| UniRef90_I7EQC7 | V D G Y G P G F F R V V G G E V H Q G H I L | | | |
| UniRef90_D0D197 | V D G Y G P G F F R V V G G E V H Q G H I L | | | |
| UniRef90_D0KZ61 | I R G F T E T S V R V N H D E Y F Q S F I L T P E R V V P D | | | |
| UniRef90_UPI0004407456 | S I T V V D R E I A A S F V L A P D R L L E D W P V A D A R | | | |
| UniRef90_UPI00034B164A | I I F L D G N V F L W N V P S T L W | | | |
| UniRef90_X8JTG6 | I I F L D G N V F L W N V P S T L W | | | |
| UniRef90_A6FP27 | S I T V V D R E I A A S F V L A P D R L L E D W P V A D A R | | | |
| UniRef90_Q31G75 | I I F L D G N V F L W N V P S T L W | | | |
| UniRef90_UPI00044364C8 | I A G Y G P G F F R V V G D D V L Q G A V L V T S S R A Q G W G | | | |
| UniRef90_A9TJQ5 | V R I N G Y D E K K F F A N G I E I E G S I I I C L S S L T L K W A P K S F | | | |
| UniRef90_UPI0002C34FAA | L R F Q G Y T D T G F K V V N G V D Y E G S I I I C L S S L T L K W A P K S F | | | |
| UniRef90_UPI0003F15FBA | M Y I D S Y S S R G F T V V N G Y R V H G P C A I L P Q S V V Q W | | | |
| UniRef90_A0A058ZRG6 | I D G Y G P G F F R I I G G E L F K G A V I A N G A T V P W G G D D P A | | | |
| UniRef90_UPI0004680974 | V E G Y G P G F F R I I G G Q V I Q G A V I T A P S G G | | | |
| UniRef90_U5H9J6 | S A G F T I T D G L V V P S P M L I L D G V V F L W D V G P P N P | | | |
| UniRef90_Q0FZN3 | I E A Y G N G G F R F A D M S H R G S I I I L C L P S G I Y G W S G S A E | | | |
| UniRef90_M2R821 | I I F L E G K V F L W D V P Q Q F W | | | |

50 60 70 80

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

90 100 110

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

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

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

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

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

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

I D S Y G N G F I T V N K E K Y I G S F F F G K K G N V R N W E I N K H

50 60 70 80

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| UniRef90_B4LNX6 | S F D D I N E E S L S L F P T I L E P K I D V L I I I G I G D Q N P T P P N L T | | |
| UniRef90_D4DU08 | R P Q D L T A D S F S D G L S K A P E I I I I I G T G K T Q Q F L H P K L N | | |
| UniRef90_T0GCG6 | D A P G S E A L T V A S L G D L L D L P R F L L L G T G A D L R Q P P R S F V | | |
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| UniRef90_UPI0003C45DCD | L L F R L L E P R L E I I V L G V G G D K V Q R L D P A V | | |
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| UniRef90_B4MPR9 | N T F E D I N E Q S L S F P I I L D P K I D V L I I I G I G D Q S P T P A L S | | |
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| UniRef90_UPI000288F2E7 | A L E T L L S P E S F A D L L D P R P E F L L L G T G A T M Q R P A P A F I | | |
| UniRef90_T0HPT8 | D A P S V D A L L D A S Q F G D L L D P A P E F L L L G T G A G L R Q P P R P F V | | |
| UniRef90_M5FAP1 | T A A D F E K L L L S E A D K V E I I I I I G T G D L R P L P A A L R A | | |
| UniRef90_UPI0003B66621 | L L D P S A L G D L L D P A P E F L L L G T G A T L R R P S P A F T | | |
| UniRef90_E3I014 | E A D I L R F L D T R E T P G D F L L I Y G T G A S L R F A S P A F A | | |
| UniRef90_D8PN10 | S S W E G W S D K H F E V F T V L P R P E I I I I I G T G R K I V V Q A P P A I | | |
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| UniRef90_UPI000466A9BC | G L D D R A A L L A L A G R V D V L F L G M G A E I A F P P E L A A | | |
| UniRef90_UPI0002659083 | N V A G V Q D I T P E S I I I I I G T G N R G A A M I S P E V | | |
| UniRef90_M7XTD4 | L L F E V L N P R P E I I I I I G T G S T I L L A P Q R V | | |
| UniRef90_M4BB05 | K R I E E T T R E H L T V F T V F N L P I E I I V L G C G E R I N R G L A P D L | | |
| UniRef90_K4DNE2 | S F E E V D E R T L A L L L H L Y P V P D V I F G T G N R L H F I D E E L | | |
| UniRef90_F1L216 | L T P A D I N E Q S I E F F T L L E P K I D V L V V G P G D Q K R R R I T P I L | | |
| UniRef90_UPI0002B43364 | E S S N E T N L S I F Q I V R P I P E I I I I G C G R Y T E P V N P E L | | |
| UniRef90_UPI000371E435 | E L D T V A L A L I I L A R K P E V V V L L G T G A R A T F P P Q A V L | | |
| UniRef90_Q1N7H9 | D A P P I I N A L D I A Q F D D L L S L D P E F M L L G T G A G L R Q P P R P F V | | |
| UniRef90_A0A023G5R3 | S A S D I I A E S L S L F T L L E P K I D V L V L G L G D V N D C I D M E V | | |
| UniRef90_W7U4I0 | K P K K I E E I T P E S I L A P L L K P A I E I I I I G T G E E V V G R A L A L T | | |
| UniRef90_M1LS42 | I N Y K I L L Y M L E S I G Y P S K K P I E F I I I I G A G N K Y N G E T I N N I | | |
| UniRef90_UPI000412A148B | D V T A L A P G D Q L Q S L L E P L E P V V L L G G G A A Q A F P P P A T M | | |
| UniRef90_L1J926 | N V N S M E D I T V D S S L K T M L S P R E V E V C I I I I G T G N R T R R P P A E L | | |
| UniRef90_B2AXP7 | Q W E I D P E S I L G V L V W P R P D L L I I I G V G K Y N R P I S P K T | | |
| UniRef90_D0A8H4 | F E E V N E R T L A L L L H L Y P V P D V I F G T G R N L H F I D E E L | | |
| UniRef90_UPI00026CD6D1 | T T L T L E A L L G P L L E P R P E F L L L G T G A T T M Q R P P P S F | | |
| UniRef90_G4VGCG3 | K M K D A L N I S E E S L F F I I L E P P L E V V L I I G K G E T K S P V D Y Q R | | |
| UniRef90_L8GNY7 | E L L S P E S I L A Y A I R P R V S I I I I G C G Q R I K M I N P Q L | | |
| UniRef90_X1P5K2 | P E T I V I I I I I G T G T A G L V K I D E E I I | | |
| UniRef90_D2V7E3 | D I S D P S Q I T I E S L K E H I N P T P T I I I I I G T G R N L H F I D E E L | | |
| UniRef90_UPI00032988C7 | S S L E D I N E D S L S F F C T L E P K I D I I I I I G T G K S I V R L P Q E V | | |
| UniRef90_S2JM26 | G F I L P M K D W D I E A F F E L V S P R P E L I I M F G T G R E F A P I I P E H I | | |
| UniRef90_UPI000370B87A | V P G E I D A G A L A R V L A E G I E L L I I G T G P D P W P L P D A L | | |
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| UniRef90_H3FY44 | R V R T P D D I T E E S L F K I I E P K I D I I I I I G V G D K K N I K V R A R V | | |
| UniRef90_F0Y3Z0 | V T V E S M R L F T A V H P R P E I V V L L G L G A K G P R E R I L L D V | | |
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| UniRef90_UPI000379BDBED | S V S K I T O C L N E E N I K A L I I H P K Y E I V V L L G T G N S L I I P P K E I L | | |
| UniRef90_A0A013WH65 | D A P T V D A L T L A A L G D L L D P R P E F L L L G T G A G L R Q P P R A F V | | |
| UniRef90_UPI00034F8688 | V T E E S L S L K L F K I I E P R I D L L I I G L D T T D R S K I D K A F | | |
| UniRef90_A4RUA7 | R V I S E I T P E T L A A L E I I I D P T P D L L I I V G T G R T V A T I N E E T | | |
| UniRef90_UPI0004015450 | A E A A W D L T A D S F R A A R E A G A E V V V L L G T G A K Q H F P A Q I I A | | |
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| UniRef90_I0YTH3 | K K R E D I T L D S V A L L D L I I T P P P D L L I I I G C G R S S M R L P K A F | | |
| UniRef90_M2X1C3 | R P Q T F A E V T P N S F F R L L V P K I D I I I V G G G S V T P H L S E E N | | |
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| UniRef90_A8JGN0 | E V T P D S L M E V L K P A P E V L V L G T G A T P Q K L P P A V | | |
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| UniRef90_M5GC51 | R T Y L N E M G I Q V M D T R N A C S T Y N L L E E R R V A A A L |
| UniRef90_UPI00026C9BE2 | R A L A Q G V G V E A M D S R A A A R A W A V L R G E G R V A G A L |
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| UniRef90_T1J857 | K K F L H S K K I E I L P T D Q A C A T Y N F L N S E G R Y V A A |
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| UniRef90_F4PZI7 | I K D V Q K R N I E T M A T I N A I G T Y N I L V E E G R Q V G A F |
| UniRef90_F0WYN3 | R E Y L R M H G I V V L D S A N A S A T F N I L A E D R R V V A A A L |
| UniRef90_I3ITN1 | |
| UniRef90_UPI000441455E | R T A L N E M G D I M D T R N A C S T F N L L L E E R R V V A A A L |
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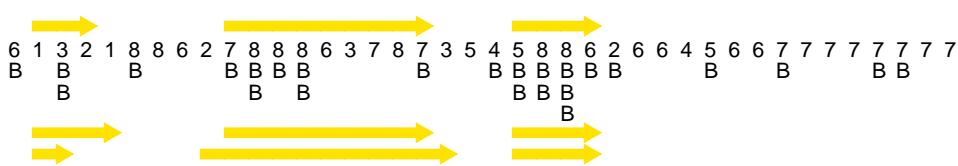
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| UniRef90_E3KBW1 | E G A W G I L E L V Y P K P D L L I I G T G P H T T P I A P A V | | |
| UniRef90_R0KAP2 | S A E T F E K L F A E H G A P E V V L V G T G A K Q R F L H P R L N | | |
| UniRef90_F2BCB1 | U T P E L L E P L L A L K P D V I V I G S G G R Q A F P V A T Q A | | |
| UniRef90_L0B960 | T D G M M L L E I F K S F Q E E S Q K H E F I L I G G Q N K S V S R D H Y I N | | |
| UniRef90_T0IXB2 | D A P E V G A L T L A A F G D L L D P R P E F L L L G T G A G L R Q P P R P L V | | |
| UniRef90_UPI000418ABA7 | L T P E L L E P L L A L K P D V I V I G S G G R Q A F P V A T Q A | | |
| UniRef90_J3JXA2 | S D I F D V N E D S L S C L L G V L E P K I D I L V L G T G D K T D S N K I Y S M | | |
| UniRef90_K9CVN3 | Q A P A V S A M S I A A L G D L L E K P E F L L L G T G S G L Q Q P P R A F V | | |
| UniRef90_T1HCR8 | V E G D H D N E K S L I P L E P R L D I L V I G Y G K T D R P K F D E L V | | |
| UniRef90_Q0UEB4 | G G A S S G K M E G R L L N E L V Y P K P D L L I I I G T G P T V T P I A P A V | | |
| UniRef90_G0QRN0 | I K A H T L D F I E F V K P R P D Y I I I G T G E K F F L E E S I | | |
| UniRef90_UPI0003752397 | R L D T A A L Q P L I D A A P E F I I I G T G A G L T R P P V A L | | |
| UniRef90_D6WK38 | N V G D I N E T D E S L F T I L E P K L D I I V L G G Q D P Q K F S F Y K K I | | |
| UniRef90_C7RAG2 | L N K E L L E E L K I I S D Y E V V I I L G T G K N Q Q F P S W D L L | | |
| UniRef90_J5SGU2 | R F A V F E R L V P R P E L T T E I I I F G T G A Q P L P I P K E I | | |
| UniRef90_N1PUU8 | K Q A W G L L D L A Y P K P D L L V L G T G A S K I V P L S P E T | | |
| UniRef90_E5UIR7 | G E L N E Q I F I S A I E A A E N R P E V I I I G T G A K Q Q F M H P K I A | | |
| UniRef90_M3X0M6 | E T K S E H C M L P A G V E E V I K K D V Q M L A I D Q G M G E V L K V P P S T | | |
| UniRef90_G6CTV1 | I N V D S L K F F K L L E P K I D I L V L G T G D D R N V M Q V F K A T | | |
| UniRef90_C0N504 | D A P A L D A L G I E D M A H V L E P V P E F L L L G T G S A L A H P P R A L | | |
| UniRef90_UPI0002E32B8A | N S A S D I N E D S L S L F R I L C P E L E V V L V I G K G A A S E K I N Q R E I | | |
| UniRef90_S3DSY4 | L G G G H T A M E L V N L L D L W V P K P D L L I I I G L G K E M R P I S P K T | | |
| UniRef90_W9BSM6 | P A V E A L D I E A M D Q V L A L D P P P E F M L G T G G S M T H P P R A | | |
| UniRef90_G4N5R1 | A S G Q W E L P N P E E A L A L L G P R P D L L L L G L G A E M R P I C P A T | | |
| UniRef90_A8P905 | R I L T P D D I T P E S F F A L L E P K L D V V L V V G P G D R Q H V P V R R R I | | |
| UniRef90_G2Y5J1 | K E G E E L E L Q F E C G D E A W G P R P D L L I I I G L G K D M R P I S P K T | | |
| UniRef90_M2U3T0 | Q R R E G T P E Q A W G V L E V Y P K P D L L I I I G T G P N T T P I A P A V | | |
| UniRef90_A0A031HJ19 | L D M A S L A I L V D A Q P E F V L I G T G A T L V R P P V T L V | | |
| UniRef90_B2WKB8 | G R K E G T I A T G E D T M E L V F P K P D I I I G T G P H T T P I A P A V | | |
| UniRef90_W3XET9 | G Q Y D V P P P S L S L F A H L W P R P D L L I I I G V G P E N R P L S P E L | | |
| UniRef90_N4VGU9 | P E S F G D L W P K P D L L I I I G V G G P K M V P L S P A T | | |
| UniRef90_C0NB18 | N D G D S G G G R K D G M R A M I N E K P D L L I I I G L G A S V Y P L S P E T | | |
| UniRef90_R1EE07 | S A A A V G E L T P A S L T P L L L I E E R P E L L I I I G L G C G E R I R P P A V | | |
| UniRef90_G3JUQ3 | I T G H M R L L N P A E V F D M I W P R P D L L I I I G T G K S N V P L S P E L | | |
| UniRef90_J3KE74 | K G A M V N E K G Q W E V A E L W P K P D L L I I I G L G R T R P I S P E T | | |
| UniRef90_G1XED4 | V R N G V L E L D E D L V L D V V A P K P E L L I I I G T G A R S I P I S P R T | | |
| UniRef90_G7XF12 | E A G K N S M V N P E H A W G I I L D P R P D M L I I I G M G E T V F P L S P E T | | |
| UniRef90_H2XF77 | R V P T T D D I S P R S L A L F L E P K I D I L V L G V G D K K N I K V R A Q V | | |
| UniRef90_J3PRF8 | L F L E I H P R P E M V I I I G G A G K S I L T I E P E E V | | |
| UniRef90_D1AUC8 | L S G G A E A V L S Y V Q G G F R M V P I G V G R G F E R F S R V L | | |
| UniRef90_E4V0D4 | A A G K E R N L V N E E V P E L L W P K P D I I I G L G P A M R P L S P E T | | |
| UniRef90_E4ZJ04 | G Q A E S E P E S A W G V L E L L V Y P K P D L L I I I G T G P S V T P I A P A V | | |
| UniRef90_C1H7P0 | K S E S G R Q M E V W G V L R L I R P K P D L L I I I G L G A S V H P L S P E T | | |
| UniRef90_M2NL63 | V L E L A W P K P D L L I I I G T G P N L M P M S P E T | | |
| UniRef90_Q5DAV2 | S L F F I L E P P L E V L I I I G K G E T K V P V N R | | |
| UniRef90_L8Y234 | D F T Q L T D K H F R S W C S L K P E M I I I G T G D K H H F L S P E A | | |
| UniRef90_W9WM77 | I L L S L L Y P K P D L L I I I G T G R K L W M L S R E T | | |
| UniRef90_V4L1C6 | S I F Q T V R P I P E L L I I I G C G R R C N Q P L N P Q V | | |
| UniRef90_F3X2D4 | P A F D A L D V R S V Q A L I I D E A P E F L L I I I G T G A E L R R P P A A F R | | |
| UniRef90_A5V6A3 | P P A F E A L S V D D V A G L I I Q P P P E F L L I I I G T G P T T M R R P S P A F V | | |
| UniRef90_D5G8C5 | P V A Q L I K E I H K E R N L E L I I I G T G K R T L F L A P E D K | | |
| UniRef90_B6BUF7 | V A Q L I K E I H K E R N L E L I I I G T G K R T L F L A P E D K | | |
| UniRef90_C5GDA6 | G G G D S G G G G M R A M I N E L V W P K P D L L I I I G L G A S V Y P I S P E T | | |
| UniRef90_G2X680 | K P G V S E E E S P A E A F A V L S P R P D L L V L G V G P T I R P L S P E T | | |
| UniRef90_UP100042B27DC | K F S Q I T P D S L S I F Q I I R P I P E I I I G C G R N I E P V D P E E L | | |
| UniRef90_A0A010RFQ5 | I N A K G Q F E L P A E A F G L L D P R P D L L I I I G V G P S L R P I S P A T | | |
| UniRef90_F7W123 | P R P P D L L I I I G T G P N L M P M S P E T | | |
| UniRef90_M3D9L5 | V L D L V W P K P D L L I I I G T G G E K I V P V S P Q T | | |
| UniRef90_M4S2K0 | D V A T L T E A D V A D L L A M A P P P E F I I I G T G R D M I R P P V A F V | | |
| UniRef90_W1S5W9 | P A V D A L T V T A L G D L L D P A P E F I I I G T G T G L R Q P P R A M V | | |
| UniRef90_W2RM39 | L P P E A L S L L A H P R P D L L V L G T G D K L H P L H P S P E T | | |
| UniRef90_J3NIM2 | P E S A F G L L S P R P D L L V L G L G P E M R P L S P A T | | |
| UniRef90_UP10002C37704 | K F S D I T P D S L S L M F Q L M R P I P E I I I G C G R Y I E P V D P E V | | |
| UniRef90_U1GJ49 | L L E L L W P K P D L L V L G T G G N M A R P P V A F | | |
| UniRef90_UP1000248A005 | T F A E I T A E S L S I F K V V H P I P E I I I G C G R N I Q P I S P E L | | |
| UniRef90_J3N534 | T A I I A S Y R L F M E T T N F C R V P K L D I I I V G G G V T P V R H L S E E N | | |
| UniRef90_M2W391 | I A A S P D M N E E S F S L L E P K L D I I I V G L D Y P Y N A P F L L N L | | |
| UniRef90_UP100046D818D | P R P P D L L I I I G L G P E M R P L S P A T | | |
| UniRef90_G2QCW3 | L S V H D F E L I Q A L N P K I F L L G T G | | |
| UniRef90_K2C1D3 | D A S E I K P H T L E I L N F V K P R P D Y L I I I G T G E Q S I N L D E S F | | |
| UniRef90_J9HRT1 | U L L D V V W P R P D L L I I I G M G A S S V F P L A P E T | | |
| UniRef90_Q0C9Q0 | E S L E L T P L E A F G L F D I L W P R P D L L I I I G V G K R N L P L S P E T | | |
| UniRef90_M1WA95 | N V S T P E E V T L E S L V K L Y R P L V E Y L F I G C D Q P L P P R E L N R I | | |
| UniRef90_B8CC15 | | | |

| | 90 | 100 | 110 | |
|------------------------|---|---|-----|--|
| UniRef90_R9P2L5 | R Q H I N D L G I D V M S T H D A A S T F N M L S E E G R K V A A I L L | | | |
| UniRef90_G2ILN5 | R A L L A R G I G V E A M D S R A A A R A W G V L Q E E R Q I V G A L | | | |
| UniRef90_W5ACI1 | R K F I R S T G L E A I D S R A A A S T Y N I L N E E G R A V A A | | | |
| UniRef90_E9H068 | I K Y M K D K K I E I S T E R A C A T F N F L N V E G R V A G A L | | | |
| UniRef90_H8L049 | A L F V Q G I G V E V M S N A S A A R T H G L L A A E G R V V A A F | | | |
| UniRef90_D6ZZ40 | R W R L H D A G I D A M P T R A A A S T Y N V L L A E G R | | | |
| UniRef90_P18152 | N Q I A K G K S V D F M A S D T A C K T Y N L L V N E N R N V S C I | | | |
| UniRef90_W7HU18 | K D H L H N L G I R I M D T R N A A A S S Y N L L A T E R P V A A A L | | | |
| UniRef90_I1XIE9 | I S L F S Q R G I E T M S L G A A C R T Y N L L N E G R | | | |
| UniRef90_B7PK57 | V K F L R R I G L E A H P T V T A C T T F N F L V E D R N V A A A L | | | |
| UniRef90_UPI000180B382 | V E D M R M K I G C E V Q S T R N A A A G T F N F L L R S E R R V V A A A L | | | |
| UniRef90_B2SUB6 | A C L T R G I G V E A M T N A A A A R T Y N V L L N D E G R V V G A L | | | |
| UniRef90_D8TN42 | R D Y L G R I G V E L L D S R N A T G Y F N V L L N D E G R V V G A L | | | |
| UniRef90_L8FZB5 | R K A I N S L G V E I I Q D T R N A A A A Q Y N L L A T E R S V V A A A L | | | |
| UniRef90_V3ZZQ8 | T K Y L R S N R I V E I I L P T E Q A I P T F N F L N S E R R V V A A A L | | | |
| UniRef90_M1LS02 | I P L F K G I G V E I M N T R S A I Y T Y N M I T I Q N R | | | |
| UniRef90_F9395 | R R L I S E L G I V E I I L D T R N A A A A Q F N L L A T E R N V V A A A L | | | |
| UniRef90_E3KBW1 | K S Y L N S I G I D V L D T R N G C S N Y N L L V E E G R S V A G L F L T | | | |
| UniRef90_R0KAP2 | R K Y L N D L G I E I Q D T R N A A A A Q F N L L A T E R Q V V A A A L | | | |
| UniRef90_F2BCB1 | A A L A A H A G I E Y M S T A A A C R T L L M L Q S E G R | | | |
| UniRef90_L0B960 | K N R S R N N I G I E I M K T Q S A V Y T Y N L L M Q D K Q V L I A L | | | |
| UniRef90_T0IXB2 | R E L A M G I G V E A M D S R A A A A R A W G V L R A E E R V V A A A L | | | |
| UniRef90_UPI000418ABA7 | A C L Q A G V G F E V M G N D A A A R T Y S V L A G E R R V V V A G F | | | |
| UniRef90_J3JXA2 | L H G F S R K H E L V L P T E A A C P T F N F L A E G R N V V G A | | | |
| UniRef90_K9CVN3 | R E L A R G I G V E A M D S R A A A A R A W G V L R A E E R V V G A L L | | | |
| UniRef90_T1HCR8 | M N L R R Q R N V E I V L P T E K A A T T Y N F V V A A E G R F V V A A | | | |
| UniRef90_Q0UEB4 | R Q Y L N G L G L E I I Q D T R N A A A A Q F N L L A T E R Q V V A A A L | | | |
| UniRef90_G0QRN0 | Y D R F Q N I R V D V L P T | | | |
| UniRef90UPI0003752397 | V R A L E D I G V E A M D S R A A A A R A W G V L R G E G R V I G A | | | |
| UniRef90_D6WK38 | V P F A R K H K L E I I L P T E Q A C A T F N F L S S E G R V V A G A L | | | |
| UniRef90_C7RAG2 | E Q A M M G T P L E V M A T D A A C C R T F T I L L A S G R K V L A L L | | | |
| UniRef90_J5SGU2 | R D Y I S G L G I D V M D S R N A A A S T Y N L L F E E G R T V S A | | | |
| UniRef90_N1PUU8 | R R D I N E L G I E I I Q D T R N A A A A Q Y N M L L A T E R Q V V A A A L | | | |
| UniRef90_E5UIR7 | A A L S A G I G F E C M N T S S A C R T L V L L Q G E G R | | | |
| UniRef90_M3X0M6 | G E Y L E T Q G V W V I Q T E L G C P G C W V G G L F Y S T C | | | |
| UniRef90_G6CTV1 | R E L I K L N V E L Q T V E H A C S T F N F L I N S E G R V V A G A L | | | |
| UniRef90_C0N504 | Q L F I H H I G V E F M D L G P A C T R F N F L L V E Q R K V L L A | | | |
| UniRef90UPI0002E32B8A | I I R A M E G I G V E V M D S R A A A A R A W G I L L R S E D R W I A A | | | |
| UniRef90_U6FWA9 | I N M C W K H G V E V M S T P L A V G T F N F L I N F E G R Y V A A | | | |
| UniRef90_S3DSY4 | R Q F I N S L G V D V Q D T R N A A A A Q F N L L A T E R G V | | | |
| UniRef90_W9BSM6 | F I R A R G I G V E V M D S R A A A A R A W G I L L R S E E R W I A A | | | |
| UniRef90_G4N5R1 | R K F I T T G L G V E V L D T R N A A A A Q F N L L A T E R G V V A A A L | | | |
| UniRef90_A8P905 | A P F L S K I I G L E I I M H S E E A A M L F N I L I E Y R C V V A A A L | | | |
| UniRef90_G2Y5J1 | R A Y I N G L G I E I I A D T R N A A A A Q F N L L A T E R G V G S V | | | |
| UniRef90_M2U3T0 | R R K Y L N G L G I E I I L Q D T R N A A A A Q F N L L A T E R Q V V A A A L | | | |
| UniRef90_A0A031HJ19 | N A I L A Q G I G V E A M D S R A A A A R A W G V L R G E G R V I G A | | | |
| UniRef90_B2WKB8 | R K Y L N D L G I E I I Q D T R N A A A A Q F N L L A T E R Q V V A A A L | | | |
| UniRef90_W3XET9 | R K A V S A L G V E V L V D T R N A A A A Q F N L L A T E R G V V A A A L | | | |
| UniRef90_N4VGU9 | K K Y L L S S I G V E V L D T R N A A A A Q F N L L A T E R G V V A G A L | | | |
| UniRef90_C0NB18 | R R Q I N G I R I E V Q D T R N A A A A Q F N L L A T E R G V V A A A L | | | |
| UniRef90_R1EE07 | G A W A A R H G L E V L N T R T A S S T L N F M V Q E Q R P V A A | | | |
| UniRef90_G3JUQ3 | K K H I S S L G I E V L D T R N A A A S Q F N L L A T E R G V V A A V L | | | |
| UniRef90_J3KE74 | R R H I N Q L G I E I I Q D T R N A A A A Q F N L L A T E R G V V A A A L | | | |
| UniRef90_G1XED4 | K N H I L H G I R I D S M D T T N N A A A S Q Y N M L L A T E R | | | |
| UniRef90_G7XF12 | K R H I I N S L G I E V L D T R N A A A A Q F N L L A T E R G V | | | |
| UniRef90_H2XFN7 | A P F I L R K I I G L E I I M D T E D A I A T F N F L I N A E G R Y V G A | | | |
| UniRef90_J3PRF8 | K T Y L I N S S I G I E D V L D T R N G C S N Y N L L V E E G R S V A G L F L T | | | |
| UniRef90_D1AUC8 | S S R R L Q H S G I V E V M S M T A C D T Y N V L L H E E N V C A I L | | | |
| UniRef90_E4V0D4 | R R H I I N E L G I V E V Q D T R N A A A A Q F N L L A T E R G V V A A A L | | | |
| UniRef90_E4ZJ04 | R S H I L N G L G I E I I Q D T R N A A A A Q F N L L A T E R Q V V A A A L | | | |
| UniRef90_C1H7P0 | R R Q I N G I R I E V Q D T R N A A A A Q F N L L A T E R G V | | | |
| UniRef90_M2NL63 | R R R V N E L G I V E V Q D T R N A A A A Q F N L L A T E R G V V A A A L | | | |
| UniRef90_Q5DAV2 | R R I I L H H P V E V M S T H H A G T F N F L I N S E G R Y V A A | | | |
| UniRef90_L8Y234 | Y F Y T Z Q G I G I E T M R T D S A C R T Y S V I A G E M R | | | |
| UniRef90_W9WM77 | R R Y L L S E I K V D V M D T P N A A A A Y N L L V M E R G V | | | |
| UniRef90_V4L1C6 | R Q F V K S I I G L E T V D S R N A A A S T Y N I L L N E E G R I V V A A | | | |
| UniRef90_F3X2D4 | A A M D A G L G V E A M D S R A A A A R A W G V L S E G R K I V V A A L | | | |
| UniRef90_A5V6A3 | A A I A L G F G V E P M D S R A A A A R A W N V L R G E D R I V V A A F | | | |
| UniRef90_D5G8C5 | K R I A E G V R V D V M D T G S A V A Q F N L L A T E R G I V A G A L | | | |
| UniRef90_B6BUF7 | E I I S M Q I G I E F M K L E S G Y R T F N I T M S E L R E A A L I | | | |
| UniRef90_C5GDA6 | R R Q I N G I R I E V Q D T R N A A A G Q F N L L A T E R G V V A A A L | | | |
| UniRef90_G2X680 | R K H I S A L G I E V L D T R N A S S E F N M L L A T E R G V V A A A L | | | |
| UniRef90UPI00042B27DC | R H F I R S T G R K H L S S G V E V L D T R N A A A S Q F N L L A T E R G V | | | |
| UniRef90_A0A010RFQ5 | R A L I N S M G V E V L D T R N A A A S Q Y N L L A T E R Q V V A A A L | | | |
| UniRef90_F7W123 | R R D I A A L G I E V Q D T R N A A A A Q F N M L L A T E R Q V V A A A L | | | |
| UniRef90_M3D9L5 | R A I A R G V G V E A M D S R A A A A R A W G V L R A E G R W I A A | | | |
| UniRef90_M4S2K0 | R A L A R G I G V E A M D S R A A A A R A W G V L R A E E R V V A A L L | | | |
| UniRef90_W1S5W9 | R D Y L L M S M R V D V M D T A N A S A A Y N L L A T E R G V V A A L | | | |
| UniRef90_W2RM39 | R R L V S G L G V E V L D T R N A A A A Q F N L L A T E R G V V A A A L | | | |
| UniRef90_J3NIM2 | R L F V R S T G M K L E A V D S V C R E Y I N G L G I D V M D T H A S A A Y N L L A T E R G V V A A A | | | |
| UniRef90UPI0002C37704 | UniRef90_U1GJ49 | V R A I E A R G V E V M D S R A A A A R A W S V L R H E G R W I A A | | |
| UniRef90_J3N534 | R K F V R S T G L E A V D S S N A E N T R K F V R S T G L E A V D S S N A E N T | | | |
| UniRef90_M2W391 | Y R Q V S S Q A F E L L K T E D A C S L F N L M N E E G R V G A A L | | | |
| UniRef90UPI00046D818D | K D L F K K H D I E I V S V F K A C S T F N F L N A E N R Y A A A | | | |
| UniRef90_G2QCW3 | R R A I S N L G V E V L D T R N A A A S Q Y N M L L A T E R G V V A A A L | | | |
| UniRef90_K2C1D3 | Y E H F R R M G I T V D T C P E A T S T F N R L F R R M G I T V D T C P E A T S T F N | | | |
| UniRef90_J9HRT1 | K R H I N S L G V E V L D T R N A A A S Q F N M L L A T E R G V | | | |
| UniRef90_Q0C9Q0 | R M H I A Q L G V E V L D T R N A A A S Q F N M L L A T E R G V V A A A L | | | |
| UniRef90_M1WA95 | K K E F R M K D V V V M D I M N A M G T F N I L N G E D R R V A C | | | |
| UniRef90_B8CC15 | | | | |

UniRef90_S3DBQ2
 UniRef90_T5ACC8
 UniRef90_D8QRW6
 UniRef90_A0A024SEW8
 UniRef90_M1VCE8
 UniRef90_W9CM31
 UniRef90_N1J7B0
 UniRef90_S8ANJ1
 UniRef90_E2C9C6
 UniRef90_U4LF27
 UniRef90_H1W347

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| 1 | 10 G F R L N N Q V S N G D G I L L V G G E A F S W R P W T H R 20 F S V D Q V E Y F D S I I C L S K F V L S W T P K 30 G I T I Q G G D G A L L V H G E A F A W R W E A S G S K R 40 H I D A L H D K G L V I N G L V F N S A L L L L P H Y V L S V P A V N R V |
| | Y D N G F L L N N G M R L G K D G I I I V H N E A F N W L S H K A A R M I I G P T I L F P R L G L C W N I |
| | I D A C V P D G F H L N S K I M D G D A A L L I G G E A F A W R P W E |

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 lupas_14
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| UniRef90_S3DBQ2 UniRef90_T5ACC8 UniRef90_D8QRW6 UniRef90_A0A024SEW8 UniRef90_M1VCE8 UniRef90_W9CM31 UniRef90_N1J7B0 UniRef90_S8ANJ1 UniRef90_E2C9C6 UniRef90_U4LF27 UniRef90_H1W347 | |
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| UniRef90_S3DBQ2 | R R C T A [L] G V E V L D T R N A A S Q F N L L A T E R G V A A A L |
| UniRef90_T5ACC8 | R R R V A D [L] G V E V L D T R N A A A Q F N L L A T E R G V A A A L |
| UniRef90_D8QRW6 | K E F L K S R N I K I E D S R H A A I A F N F M V E C R D V V A A A L |
| UniRef90_A0A024SEW8 | R E H V S R [] G V E M L D T R N A A A Q F N L L A T E R G V A A A L |
| UniRef90_M1VCE8 | M E Y L E K H G V S F E S T A R A C A T F N F L N E E R R T P A A L |
| UniRef90_W9CM31 | R A F I N G G I E I A D T R N A A A Q F N L L A T E R G V A A A L |
| UniRef90_N1J7B0 | K E R I S R L G I D I Q D T R N A A A Q F N L L A A E R N V A A A L |
| UniRef90_S8ANJ1 | K H R L H S L G I R I M D T N H A A S S Y N L L A T E R P I A A A L |
| UniRef90_E2C9C6 | Q E L M H K I A V E V M S V V K A C T V F N F A N E D G R V V A A L |
| UniRef90_U4LF27 | R E R I T E L G I D V M D T T H A A A Q Y N L L A T E R Q V A A A L |
| UniRef90_H1W347 | R K H L S S L G V R V L D T R N A A S Q F N L L A T E R G V A G A L |

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