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QUERY UniRef90_UPI00031052C6 UniRef90_F4LU00 UniRef90_UPI00037BD867 UniRef90_UPI00047B13C9 UniRef90_D1C468 UniRef90_F9DVQ6 UniRef90_F7NF46 UniRef90_UPI0002894D01 UniRef90_S1QW24 UniRef90_UPI0001850CA6 UniRef90_D2RIU4 UniRef90_F8IAF0 UniRef90_UPI000364F428 UniRef90_K9AW30 UniRef90_UPI00037939B2 UniRef90_V7HYD0 UniRef90_F5L519 UniRef90_UPI0004721C4D UniRef90_W9EE22 UniRef90_UPI0004005756 UniRef90_UPI00036E33F UniRef90_F9DTZ6 UniRef90_C8WTT4 UniRef90_V6J0L3 UniRef90_R5YCG5 UniRef90_UPI0004753C8B UniRef90_UPI00038F608B UniRef90_F6CJA8 UniRef90_W7ZNM7 UniRef90_D7CJ04 UniRef90_R5ALS0 UniRef90_UPI0002FACF26 UniRef90_UPI00037F7E83F UniRef90_G8LU90 UniRef90_E0QJH2 UniRef90_UPI000248C73C UniRef90_UPI000367BFB3 UniRef90_B1B857 UniRef90_D5XAG3 UniRef90_UPI0003629696 UniRef90_R7MYT3 UniRef90_UPI0003686359 UniRef90_D7WWI7 UniRef90_X2GY38 UniRef90_UPI000364B196 UniRef90_UPI0004681472 UniRef90_UPI00030CF56A UniRef90_Q67T16 UniRef90_UPI0002EA66F4 UniRef90_A4XIQ1 UniRef90_E6SM31 UniRef90_Q8Y5E4 UniRef90_UPI0004006E7B UniRef90_UPI000225B42D UniRef90_W7CGC9 UniRef90_G2T5A1 UniRef90_UPI0003F7A968 UniRef90_I013B4 UniRef90_UPI0002490E49 UniRef90_R2SPE2 UniRef90_K4LVY0 UniRef90_UPI0003B6DB09 UniRef90_R1CBE7 UniRef90_B1YH93 UniRef90_C9LQS4 UniRef90_E3BSW1 UniRef90_A5D4W5 UniRef90_UPI0002885E35 UniRef90_K4L991 UniRef90_UPI000405E687 UniRef90_R6GTG5 UniRef90_R5V7E9 UniRef90_R7BEH4 UniRef90_V6Q5X4 UniRef90_C9KJY1 UniRef90_R9LYW5 UniRef90_R4KER4 UniRef90_G9XFT4 UniRef90_F4FWW1 UniRef90_C8W669 UniRef90_T4P981 UniRef90_B6FVV6 UniRef90_C5R7R6 UniRef90_R7PRD7 UniRef90_COD237 UniRef90_UPI0004676780

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

| QUERY | S | I | F | Y | P | G | N | P | L | 130 | H | D | G | A | V | L | V | K | N | N | H | 140 | V | S | A | A | N | I | L | P | 150 | K | S | T | F | V | D | P | E | 160 | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_UPI00031052C6 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | N | N | K | I | V | S | A | A | N | I | L | P | L | T | S | E | S | F | V | D | P | E | | | | | | | | | | | | | |
| UniRef90_F4LU00 | N | I | F | V | P | N | T | P | L | H | D | G | A | V | L | V | K | R | N | N | K | I | A | A | A | C | C | Y | L | P | L | L | T | E | S | P | F | V | D | P | E | | | | | | | | | | | |
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| UniRef90_D1C468 | N | I | F | F | P | N | S | P | L | H | D | G | A | V | L | V | K | R | N | N | K | I | L | A | A | A | C | C | Y | L | P | L | L | T | S | E | S | D | N | V | A | T | G | K | K | | | | | | | |
| UniRef90_F9DVQ6 | S | I | F | Y | P | G | N | P | L | H | D | G | A | V | L | V | K | R | N | N | H | I | V | S | A | T | N | V | L | P | L | L | T | S | E | S | D | R | F | T | G | D | K | K | | | | | | | | |
| UniRef90_F7NF46 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | R | G | N | R | V | M | A | A | A | G | C | L | P | L | L | T | S | E | S | D | D | D | G | T | L | N | S | K | K | | | | | | |
| UniRef90_UPI0002894D01 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | R | Q | K | D | K | V | A | A | A | C | C | Y | L | P | L | L | T | S | E | S | D | E | N | P | F | L | I | P | K | E | Y | | | | |
| UniRef90_S1QW24 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | R | Q | K | D | R | I | A | A | A | C | C | Y | L | P | L | L | T | S | E | S | E | S | P | F | L | I | L | S | K | E | Y | | | | |
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| UniRef90_D2RIU4 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | R | G | D | R | I | V | A | A | A | C | C | Y | L | P | L | L | T | S | E | S | E | S | A | R | N | Q | P | L | S | G | S | K | E | L | |
| UniRef90_F8IAF0 | N | I | F | V | P | N | T | P | L | H | D | G | A | V | L | V | K | R | G | D | R | I | V | A | A | A | C | C | Y | L | P | L | L | T | S | E | S | D | E | N | S | P | F | L | I | L | S | K | E | L | | |
| UniRef90_UPI000364F428 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | R | G | Q | R | I | A | A | A | C | C | Y | L | P | L | L | T | S | E | S | D | E | N | S | P | F | L | I | L | S | K | E | L | | | |
| UniRef90_K9AW30 | N | V | F | L | P | N | T | P | L | H | D | G | A | V | L | V | K | R | G | N | K | L | V | T | A | A | A | S | Y | L | P | L | L | T | S | E | S | D | S | P | K | L | A | T | K | K | E | L | | | | |
| UniRef90_D5DUM3 | T | L | F | Y | P | G | T | P | L | H | D | G | A | V | L | V | K | R | N | G | K | L | I | S | A | A | N | V | L | P | L | L | T | S | E | S | S | I | A | V | G | E | K | K | L | L | L | | | | | |
| UniRef90_L5MMY5 | S | I | F | F | P | G | S | P | L | H | D | G | A | V | L | V | K | R | D | N | Q | I | V | S | A | A | N | V | L | P | L | L | T | S | E | S | H | I | A | V | G | E | K | K | L | L | L | | | | | |
| UniRef90_F4A1A4 | N | I | F | V | P | N | T | P | L | H | D | G | A | V | L | V | K | R | D | D | R | V | I | A | A | G | C | F | L | P | L | L | T | S | E | S | D | R | Q | D | I | L | N | S | K | K | L | L | | | | |
| UniRef90_Q2RGA4 | N | I | F | V | P | N | T | P | L | H | D | G | A | V | L | V | K | R | G | D | R | V | V | A | A | A | C | C | F | L | P | L | L | T | S | E | S | D | R | Q | D | I | L | N | S | K | K | L | L | | | |
| UniRef90_R6IHG3 | N | I | F | E | P | D | T | P | L | H | D | G | A | V | L | V | K | R | G | N | R | I | V | A | A | A | C | C | L | P | L | L | T | S | E | S | E | A | R | K | N | L | S | S | K | E | L | L | | | | |
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| UniRef90_F5L519 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | R | E | S | R | I | V | A | A | A | C | C | F | L | P | L | L | T | S | E | S | E | N | N | L | L | S | K | E | L | L | L | | | | |
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| UniRef90_UPI0004753C8B | N | I | F | I | P | N | T | P | L | H | D | G | A | V | L | V | K | R | N | S | R | I | M | A | A | A | C | C | Y | L | P | L | L | T | S | E | S | E | N | P | F | I | L | S | S | K | E | L | L | L | | |
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| UniRef90_D5XAG3 | N | L | F | V | P | K | T | P | L | H | D | G | A | V | L | V | K | R | S | G | N | E | L | V | A | A | A | C | C | F | L | P | L | L | T | S | E | S | D | N | T | E | I | V | S | G | K | K | E | L | L | |
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170 180 190 200

G T R H R A A L G G V S E E K S D A L I L V V V S E E E T G R T S F A L N G I L Y T R S
G T R H R A A L L G G V S E E E V T D D A V I A I V V V S S E E E T G G A V S S L T R N D G G E L L H S R R L S
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G T R H R A A L L G G V S E E E V T D D A V I A I V V V S S E E E T G G N I S S L T L K N G G E L L H H R R L S
G T R H R A A L M G G V S E E E S D D A L I A V L V V V S S E E E T G G Q V S S A V A H N G G R Q L L Y H P L T
G T R H R A A L I G G V S E E E Q T D D A L V L V V V S S E E E T G G V I S S L A R S G G Q L L R R L S
G T R H R A A A V G G I S E E V S T D D A V T L V V V S S E E E T G G G V S S L T I I N N Q L L H P L S
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G T R H R A A A I G G I S E E Q S D D A V L V L V V V S S E E E T G T W I S S V L A R G G G R L L Q F R R
G T R H R A A A I G G I S E E V G D A V S I V V V S S E E E T G Q T I S S V L A V D G G Q L L V R
G T R H R A A A V G G M S E E K S D D A L I L V V V S S E E E T G T K I S S V F A L D G G K L L Y P I
G T R H R A A A L G G V S E E Q S D D A L I L V V V S S E E E T G K A S S F A M Q G R L L Y P I
G T R H R A A A L G G V S E E I S D D A L V V L V V V S S E E E T G V I S S V A R E G G K L L T R F
G T R H R A S A L G G I S E E Q S D D A L T V L V V V S S E E E T G T I S S L A R N G G E L L H R L S
G T R H R A A A L G G I S E E R S D D A L T T V I V V S S E E E T G A G V S S F A Y K S E R L L H D L S
G T R H R A A A V L G G I S E E V T D D A L T V I V V S S E E E T G G V I S S I T K N S G E L L I R
G T R H R A A A L G G I S E E V T D D A L A I V V V S S E E E T G Q I S S L S R N G G E L L R R
G T R H R A A A V G G I S E E A S D D A L A I V V V S S E E E T G I V S S I A S D N G K L L T R
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G T R H R A A A L G G V S E E V T A D D A V A I V V V S S E E E T G H I S S L T V M D G D I V R
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G T R H R A A A G I G G V S E E V S D D A L A V I V V S S E E E T G I I S S L A V E G V L V
G T R H R A A A L G G V S E E V T D D A L T L I V V V S S E E E T G A I S S S K R G T L L Y R R
G T R H R A A A G I G G V S E E V S D D A L T I V V V S S E E E T G S A V S C A L R D G K L L S R R
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G T R H R A A A L G G I S E E Q S D D A L A I V V V S S E E E T G I V S S F A V E G K L L Y P I
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G T R H R A A A I G G L S E E R S D D A L I M V I V V S S E E E T G R I S S F A F N G S L L H P I T
G T R H R A A A I G G V S E E V S D D A I S V I V V S S E E E T G Q V S S L A I N G G M V R
G T R H R A A A V G G V S E E V T D D A I T I V V V S S E E E T G G V S S I T R N G R F
G T R H R A A A M G V S E E V T D D A L T I V V V S S E E E T G N I S S A T K N G E L L H R
G T R H R A A A V G G I S E E Q S D D A L V V V V S S E E E T G V I S S V A V Q R Q L L H R R
G T R H R A A A L G G I S E E V S D D A L T I V V V S S E E E T G H I S S C T R N G E L L H R R
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G T R H R A A A L G G V S E E V T D D A I T L A V V V S S E E E T G G I S S L T K N G E L L H R
G T R H R A A A I G G V S E E Q S D D A L V I V V V S S E E E T G G R I S S V R A R N G R I L V R I
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G T R H R A A A L G G I S E E Q S D D A V A V V V V S S E E E R G G V S S L V Q N G G K I Y R
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G T R H R A A A I G G M S E E Q A D C V V V V V V S S E E E T G T V S S Y A Y G G H I Y R
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G T R H R A A A G I G G I S E E H S D D A V A I V V V S S E E E T G T I S S L A V E G A L L T R
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G T R H R A A A L G G L S E E I S D A V L I V V V S S E E E T G K A S F A L D G M Y A I
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G T R H R A A A V G G V S E E A T D A F V I V V V S S E E E T G K V S S I A M R G Q L L Y R
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G T R H R A A A V G G V S E E V S D C L T L I V V V S S E E E T G G V S S I A K S G K L L Y R
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UniRef90_V2YAK0 I F F Q P E L R R A L L E D L G K R N L F P K L I N F D R F S D R T I E E L V K A S C C C
UniRef90_V2Y9T9 L F F Q P E I R R F L E R M G S Q R L K L V F A S N K F A G S Q D M E T A I T E A Y C C C
UniRef90_UPI00037D6393 L F F Q P E I R R K F L Y T L G A H Q R I R Q F A R L F T S S K S T I M P I V Y A C C C
UniRef90_M8D191 E L R R A L L E Q L G R G K L F S R T N T I Q D E E K R V V Q E V C K S V C C C

UniRef90_R6PUS8
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Y E M G K V K T G A L I V V V E Q E I M L T E Y Q N T G I E L L C L V S S S Q Q V L L I
Y S M G K V K T G A L I V V V E N D D V S R L L A T E Y E R T G G I L L D D S I L V S S Q Q V L L I
F S M G A V V K T G A L I V V I E R G R A D D M R L L D T D E Y M I R T Q T T G G T S L L D D S I L V S S Q Q V L L I
Q H L A E V E K H T G A L I V V I E R R G T P L L L G S Q E Y I A T T G G T S L L D D S I L V S S Q Q V L L I
F E M G K V K T G A L I V V I E R R Q K T P G L L L G S Q E Y I A T T G G T S L L D D S I L V S S Q Q V L L I
K V L Q T R R K T G A L I V V I E R R Q K T P G L L L G S Q E Y I A T T G G T S L L D D S I L V S S Q Q V L L I
A Y M S P R K I G A L I V I E R R N T Q T K L L L G E D V I A S T G G T L L N S K V L A T S E I L L I
U N M S N K N V I G A L I V I E R R S Q T Q T L L L G E E Y Q I D S T G T K L N D A D A P S A E K F L G
D Y M S E R R K T G A L I V I E R R Q S Q T K L L L G E E Y Q I D S T G T K L N D A D A P S A E K F L G
A E L S S T C T G A L I V I E R R E T G L L L E D I A D T T G T R T D A T C A D P G L L L E
T D L A D R R R T G A L I V I E R R E T G L L L E D I A D T T G T R T D A T C A D P G L L L E
V E M A K A K T T G A L I V I M E R K D S T L D L L S E Y E R T G G I L L D D S A I S S S Q L L V
V E M G K D K T G A L I V I M E H T F P L L L D E G I I A T T G G T F L L D A A I S S S Q R L L E
L N M S K Q K V I G A L I V I M E R R Q S Q N L L L G Q Y I A S T G G I L L R L D A K I T S S S Q L L I
L E M A K A K T T G A L I V I M E T Q E H D L L L G N Q F V I E T T G I I R L D A K I T S S S Q L L I
A Y M S E R R K T G A L I V I E R R Q N V A L L L G D Y E R T S T G G I L L R L D A K I T S S S Q L L I
F E M S K R R K T G A L I V I E R R N D F P L L L D D D V A R T S T G G I L L I N A A V I S S S Q R L L E
R H M S R R R K T G A L I V L L E R R Y D F P L L L D D D V A R T S T G G I L L I N A A V I S S S Q R L L E
M N M S K G K V I G A L I V V I E R R D F P L L L D D D V A R T S T G G I L L I N A A V I S S S Q R L L E
A S L S R Q K I G A L I V V L E R R E T G L L L N E I V E T T G T S I N G L V S S S Q R L L E
Q Y M A K R R R T G A L I S I Q Q M D T E G L L D E F I S T G T P Q L D A D A D I T S S S Q L L I
E D M A E T K T G A L I A I E R R E T G L L L A E I S T G T P Q L D A D A D I T S S S Q L L I
T H L S Q E Y I G A L I V I E R R N T K G I G D V I N T G T G T E Q M D A V I I S S S Q V L L V
G S L S R Q K I G A L I V I E R R E T G L L L S E V V E V T G G T E L R G K I S S S S Q V L L V
F E M G S V C T G A L I V V I E R R Q A H L L L T E Y E V T G G I K V V D G L V V S S N E Q F L L I
A V L A K N K I G A L I V V I E R T G L L L S D Y I E T G I I K V V D G L V V S S N E Q F L L I
T V L S A N R T G A L I V I E R D K V A L L L G E Y I C A D S T G I K V I D D A V V V S S N E Q F L L I
T K L S S T K T G A L I V V L E R R N M G L L L G N D I C A S T G I K V I D D A V V V S S N E Q F L L I
F S L S R Q K I G A L I V I M E R R E T G L L L N E I I Q Q G T R I D S S V I T S R Q L L I
K Q L S R Q G I G A L I V I M E R R Q D T G L L L G G E Y A D R G V I V D S S R L S V I P L L I
A S L S R Q K I G A L I V V I E R R Q D T K L L L G G D I I K T G T I I D S S D P S V A P E L L I
K Y M S P R K I G A L I V S I E Q T Q T L L Q E Q I V T G I I P L D A V V V T S G A E L L I
Q Y M S K R R R T G A L I S I I Q M E T G L L D E Y V I G T G I R L M S E I S S G A L L I
T Y M S K R R R T G A L I S I I Q M E T G L L D E Y V I G T G I R L M S E I S S G A L L I
V E M A K V R T G A L I V I E Q D N S L L A E Y E Q T G I D I D G I V T T R S Q L L I
E N M S N K T G A L I V L E R R Q N T G L L K D I T Y E H T G E V K L N A D V I T T R S Q L L I
M N M A K K K T G A L I C I Q Q D V D L L S D Y I E T G T V I E A K L V S S K E L L I
S F L S K R K I G G L I A L E R R Q T G L L S D Y I E T G T V I E A K L V S S K E L L I
A G L S K T K T G A L L V F E R E R E V L L N E I I D T G G I Q I D D G L V T S S K E L L I
F E L L A K N K T G A L I I I Q V T G L L T D Y E K T G G I P V D D G I V T S S Q L L I
Y K M G A V K T G A L I V I E Q D I L L L E E Y V K T G G L P V D D G I V T S S Q L L I
E N L S E R R T G A L I I I Q V T G L L E D V A E T G G V R I D D A L T P S A V G L L I
E N L S E R R H G A L I V L E R R E T G L L E D V A E T G G V R I D D A L T P S A V G L L I
R S M S R R K I G A L I V F E R R N M K L L D V L S M Q G T R I D D G L V T S E L L I
A Q L A R L H Y G A L I V I E R R S T G L L Q Q D L V D A G G V K I D D S A V L K S E L I
K K M A K H R T G A L I V F A R S S L L Q Q D L V D A G G V K I D D S A V L K S E L I
D K M G A A K T G A L I L M E Q E V P L L L G D L E R T G G I P I D A I V S S S Q L L I
K N L A E S K T G A L I V I E Q S T G L L E D I I R T G T R V D A K V S S A A L L I
L S M S S G K V I G A L I V I E K S M P L L N D I I R T G G I I D A N V T S N Q R L L E
F E M G K V K T G A L I V I E R D T P L L P E I E R T G G I P V D D G I V T S S Q L L I
K N L S E N K H G A L I V I E R T D S S L D K F I Q K G T S L H A E I I R S A S L L I
K E M S K N K I G A L I V F A R T S S L L Q D L V D A G G I N I D A E I R S S E L V I
Y E M G K V K T G A L I V I M E K Q V I L A N E Y E R T G G I P I D A Q I S S S Q L L I
Q K L S E K R H T G A L I V I E R T V P V A P L I I N G S L P I D A K L S P P L L I
E R L S R T K T G A L I V I E R R Q T K L L Q N I I E K S T I V D A K P S P E L L I
Q E L A K T K T G A L I V F E R D I K L L Q D I I E T G V E I N S V V S P Q L L I
M N M S K G K V I G A L I V I E R L T P L L D D D I V E T S G G V D D A N I S S S Q L L I
S E M S Q R T G A L I V F E R E L L L L D D D M V R T S G T V L D A S I S S S Q L L I
A Y M S P R K I G A L I S I I Q G T Q T L L Q E Y I T T G G I P L N A N I S S S Q L L I
M S M G K G K V G A L I V I E R A S P L L D D I L M E T G G D R I D A N I S S Q R L L I
P M L S S K H V G A L I V I E R E V G L K D I L L E T G G I L L N S E F S P E L L I
V E M G K V K T G A L I V I E K S Q P L L A E Y E R T G G I D I D G V V T S S Q L L I
L N M S K Q K E G A L I V I E R H T G L L K R E I I R T G E L I D A D I S S Q R L L I
Y D M G K V K T G A L I V I E K T I Q C K R E Y E R T G G I P I D A E I S S S Q L L I
E N L A A T K T G A L I A I E Q G T G L L G E I I S S G T L I D A Q V S A N L L I
E I M A R E R Q I G V L L V F E R R Q N S L L E D E Y F K T G G T L I D A K V S D Q L L I
A F M S E R R Q I G A L I V I E P L L L E G C V L L D A V V T S V E L L I
A Y M S P R K I G A L I A I E G A Q T L L Q E Y I A T T G I V L D A D V T S S Q L L I
W Y M S R R K I G A L I S I I E R E N S L L N E Y I Q T G I P M D S S A I S S S Q L L I
L F M A E R K I G S L I V F E R R N V D L L N E Y I E G Q V K L D D S E V S S E L L I
S V M S K E R L G G L I V L E R K N G L L Q N Y I E T G T S L L D C E L H S D L I
S N L A E D K T G A L I A I E Q G T G L L G E I L L N S G T L L D A N I T S R Q L L I
Y A M G K V K T G A L I V I E D E I E L L E D Y V R T G I I V D D G L V S S R Q L L I
M S M A K G R V I G A L I V I E R S V S L L G E I V E T G G D F I D A R V N S Q R L L I
I H L S Q R R H G A L I V I R R S D P L L D S F L P G G D I I V A A T L T H A L L I
I S L S K G K V I G A L I V I K R D M P L A I Y E Q T G D I I V A A T L T H A L L I
R Y M S D K K I G A L I I F E R R N T M L L G D I I T N T G T V V D A K V S R E L L I
A Y M S P R K I G A L I V S I I E E T Q T L R E Y I A T T G I P L D A D I S S G E L L I
L Y M S K R K I G A L I V I E E N E D P L L E Y I A T T G I P L D D S D V S S S Q L L I
E T M S R D R V I G A L I V I E R E T G L L K E Y V Q S T G T P L D A L V S S R L L L
V H M A E K K I G A L I V L E K R T G L L G D V V V E S G V I E L N A D F S R E L L I
R F M A E R Q I G A L I V I E R R Q T Q N L L F E D L E G C I Y L D A Y I T S A E L L I
R T M S L N K I G A L I V I E R E V P L L S E Y M E T G G V E I G A K V K S E T L V
V E L S A S C T G A L I V V I R Q V R L L G E Q I E T G G T I L N A T P S K E V F L G
Y S M G S V K T G A L I V V I R Q V R L L G E Q I E T G G T I L N A T P S K E V F L G
Y H L S A N R T G A L I V F E R R Q T G L L D E I I T T G V P I D A V V I T D Q L L I
D A L A K T K T G A L I V I E Q S T G L L G E F M A S G T R I D G L V S S A M L L I
Q D L A E T K T G A L I A I E Q G T G L L G E V L A S G T R I D A I V S S S Q L L I
Y E L A R N K T G A L I V I E K N S S L I E Y E K S G G I P V D A I V S S S Q L L I
A D L S R D K V I G A L I V I F E R R Q N L L D D V I K T G D V I D D A N I S S L I
M S M S K G K I G A L I V I E R G A P L L D D D I I K T G D V I D D A N I S S Q R L L I
T Y M A K R R L I G A L I V I E R E T G L L N D F V E T G T A I N G R V S S E L L I

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|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_R6PUS8 | N | I | F | E | H | N | T | P | L | H | D | G | A | V | I | V | R | R | R | R | V | V | S | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | | |
| UniRef90_R7QXQ2 | N | I | F | E | K | N | T | P | L | H | D | G | A | V | I | V | R | G | N | R | R | R | V | V | S | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_C4GCM8 | N | I | F | E | K | N | T | P | L | H | D | G | A | V | I | V | R | G | N | R | R | R | V | V | S | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_M1KQI0 | S | I | F | Y | P | G | N | T | P | L | H | D | G | A | V | I | V | R | R | R | R | V | V | S | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_R7A987 | N | I | F | E | H | N | T | P | L | H | D | G | A | V | I | V | R | R | R | R | V | V | S | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | | |
| UniRef90_B2A4R7 | N | V | F | M | P | L | S | T | P | L | H | D | G | A | V | I | V | R | R | R | R | V | V | S | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_G5K2I6 | N | I | F | P | N | T | P | L | H | D | G | A | V | I | V | R | S | Q | K | H | K | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_G2IF20 | T | I | F | P | N | T | P | L | H | D | G | A | V | I | V | K | Q | D | G | K | I | E | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | | |
| UniRef90_I7L5X8 | N | I | F | P | N | T | P | L | H | D | G | A | V | I | V | K | Q | D | G | K | I | E | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | | |
| UniRef90_R7A091 | N | I | F | Y | P | K | T | P | L | H | D | G | A | V | I | M | R | G | D | G | E | I | L | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_D1CD58 | S | I | F | M | P | N | T | P | L | H | D | G | A | V | I | T | S | R | G | D | R | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_R7K1W5 | N | I | F | E | K | N | T | P | L | H | D | G | A | V | I | V | R | G | D | R | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_F7V7S6 | N | I | F | E | K | N | T | P | L | H | D | G | A | V | I | M | R | G | D | R | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_F3ZRX0 | N | I | F | F | K | N | T | P | L | H | D | G | A | M | I | T | N | K | N | K | I | E | R | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_R5KRC5 | N | I | F | E | K | N | T | P | L | H | D | G | A | V | I | V | R | G | D | E | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_D2BNV4 | N | I | F | P | N | T | P | L | H | D | G | A | V | I | V | Q | N | K | R | I | E | I | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | | |
| UniRef90_R5KAR1 | N | I | F | E | H | N | T | P | L | H | D | G | A | V | I | M | R | N | N | R | I | V | V | A | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_U2QKQ1 | N | I | F | P | N | T | P | L | H | D | G | A | V | I | L | N | N | K | R | I | E | R | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | | |
| UniRef90_R6CKA3 | N | I | F | F | K | N | T | P | L | H | D | G | A | M | I | L | N | N | K | R | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_UPI000478C17E | N | I | F | I | P | N | T | P | L | H | D | G | A | V | V | I | K | E | D | R | I | V | V | K | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_U5S6Y5 | N | I | F | P | N | T | P | L | H | D | G | A | V | I | I | I | K | E | D | R | I | V | V | K | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_H7CZ57 | N | I | F | F | K | N | T | P | L | H | D | G | A | T | I | I | R | N | D | R | I | V | V | S | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_L7VRA3 | N | I | F | T | P | N | T | P | L | H | D | G | A | V | I | I | R | N | N | K | I | V | V | K | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_A8MJG7 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | I | M | R | N | Q | R | I | E | L | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_R5TL06 | N | I | F | E | H | N | T | P | L | H | D | G | A | V | I | L | R | G | N | R | I | V | V | A | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_I9MB95 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | I | L | R | G | N | R | I | V | V | M | A | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_R5K3J9 | N | I | F | E | H | N | T | P | L | H | D | G | A | V | I | L | R | G | N | R | I | V | V | A | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
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| UniRef90_B0PDS0 | N | V | F | P | N | T | P | L | H | D | G | A | M | I | I | F | R | D | G | R | I | V | V | H | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
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| UniRef90_H3NGH2 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | I | I | Q | N | F | K | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
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| UniRef90_R5DH96 | N | I | F | F | K | N | T | P | L | H | D | G | A | M | I | I | A | D | N | R | I | V | V | K | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_UPI0003B3BCF4 | N | I | F | P | N | T | P | L | H | D | G | A | V | V | I | I | R | H | D | R | I | V | V | M | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_E2ZBU7 | N | I | F | P | N | T | P | L | H | D | G | A | V | V | I | I | R | E | G | D | R | I | V | V | M | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L |
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| UniRef90_R6K604 | N | I | F | E | H | N | T | P | L | H | D | G | A | V | V | V | R | G | N | R | I | V | V | V | A | A | T | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
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| UniRef90_X0U0N6 | N | L | F | Y | P | N | T | P | L | H | D | G | A | V | I | L | R | G | D | R | I | V | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_F9N4V3 | N | L | F | Y | P | K | S | P | L | H | D | G | A | V | I | I | R | N | G | R | I | V | V | E | T | A | A | S | L | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
| UniRef90_B9KYX9 | N | I | F | P | N | T | P | L | H | D | G | A | V | I | I | I | R | N | G | R | I | V | V | L | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | |
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| UniRef90_Q97EN1 | N | I | F | V | P | N | T | P | L | H | D | G | A | T | I | I | R | N | D | R | I | V | V | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | L | L | | |
| UniRef90_S8GZB1 | N | I | F | F | K | N | T | P | L | H | D | G | A | M | V | I | R | N | K | R | I | V | V | E | A | A | G | C | Y | L | P | L | S | S | D | D | N | N | M | E | L | S | S | K | E | | | |

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

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S D S M K [L] Y T [V] N W [L] E N M M T A [L] A [L] M [L]

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

[L] N M K A [L] T Y [L] L T Q T F N [V] G [L] L A [L]

[L] K [L] D M [L] Y F [L] L N K T [L] T [L] G [V] L S [V]

R [L] L Q K T [V] E [L] G [L] I A [L]

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G [L] S D [V] M Q [L] H [V] L N F [V] L K S [V] V Q [V] G F [L] A [L]

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| UniRef90_V1CNV7 | V | F | Q | P | E | L | R | R | A |
| UniRef90_B0S2Q3 | V | F | Q | P | E | L | R | R | A |
| UniRef90_F8E5D4 | L | F | Q | P | E | L | R | R | A |
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| UniRef90_F5T6Z6 | | | | | | | | | |
| UniRef90_UPI0002195D92 | | | | | | | | | |
| UniRef90_W2C2K1 | L | F | Q | P | E | L | R | R | A |
| UniRef90_G9RST5 | | | | | | | | | |
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| UniRef90_G5KGY2 | | | | | | | | | |
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| UniRef90_T0N644 | Q | P | E | L | R | R | A | R | A |
| UniRef90_R5W9Y3 | | | | | | | | | |
| UniRef90_D3I0L1 | I | F | Q | P | E | L | R | R | A |
| UniRef90_R5YTL2 | | | | | | | | | |
| UniRef90_R5CV82 | I | F | Q | P | E | L | R | R | A |
| UniRef90_E3PVP3 | V | F | Q | P | E | L | R | R | A |
| UniRef90_W7KVA1 | S | D | F | E | E | L | R | R | A |
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| UniRef90_W8QWX2 | C | E | L | R | R | A | R | A | R |
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| UniRef90_R9JA07 | | | | | | | | | |
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| UniRef90_I3YSH0 | V | F | Q | P | E | L | R | R | A |
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| UniRef90_DOMCU4 | L | F | Q | P | E | L | R | R | A |

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|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| UniRef90_B0S2Q3 | N | I | F | I | P | P | N | S | P | L | H | D | G | A | V | I | V | S | R | E | G | T | I | K | K | A | A | C | C | V | L | P | L | T | S | T | K | H | E | D | N | I | S | D | S | K | K | F | | | | |
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| UniRef90_G9YMC1 | N | I | F | W | N | K | A | T | P | L | H | D | G | A | V | I | V | R | D | A | G | R | I | V | G | A | A | C | C | V | L | P | L | M | S | T | K | G | N | D | N | I | S | S | S | K | K | F | | | | |
| UniRef90_R6AJSO | N | I | F | E | P | N | T | P | L | H | D | G | A | V | I | V | R | D | A | G | R | I | I | Y | Y | A | A | C | C | V | L | P | L | L | F | S | D | N | Q | K | E | L | I | S | S | S | K | K | F | | | |
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| UniRef90_F5T6Z6 | N | I | F | E | K | N | T | P | L | H | D | G | A | V | I | V | S | N | D | G | R | I | I | S | S | A | T | A | C | C | V | L | P | L | S | S | E | S | T | R | I | P | P | K | E | Y | | | | | | |
| UniRef90_UPI0002195D92 | N | I | F | E | P | N | T | P | L | H | D | G | A | V | I | V | S | N | D | G | R | I | I | A | V | A | A | A | Y | L | P | L | L | S | S | E | S | T | R | I | P | P | K | E | Y | | | | | | | |
| UniRef90_W2C2K1 | N | I | F | F | K | N | S | P | L | H | D | G | A | M | I | V | S | R | D | G | R | I | I | J | A | A | G | C | I | L | P | L | V | L | S | A | K | N | N | V | L | I | L | I | S | S | K | K | F | | | |
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| UniRef90_R5J1N9 | N | I | F | F | K | N | S | P | L | H | D | G | A | V | I | V | S | R | D | G | R | I | I | K | A | A | G | C | C | V | L | P | L | V | L | S | H | N | N | L | E | D | N | I | S | S | K | K | F | | | |
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| UniRef90_R7D4W7 | N | I | F | F | K | N | S | P | L | H | D | G | A | M | I | V | H | K | R | I | I | I | T | A | A | G | C | C | V | L | P | L | V | L | S | H | S | N | N | L | E | D | N | I | S | S | K | K | F | | | |
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| UniRef90_K9E937 | N | I | F | I | P | N | T | P | L | H | D | G | A | V | I | V | K | R | G | D | R | I | I | A | S | A | A | S | Y | L | P | L | L | T | S | S | E | S | P | A | I | L | I | S | S | K | K | F | | | | |
| UniRef90_T0N644 | N | I | F | V | P | N | T | P | L | H | D | G | A | T | I | V | Q | R | G | D | R | I | I | T | A | A | G | C | F | L | P | L | L | T | S | T | A | M | N | D | K | S | L | I | S | S | K | K | F | | | |
| UniRef90_R5W9Y3 | T | I | F | F | P | N | S | P | L | H | D | G | G | V | I | V | R | Q | N | D | R | I | I | T | C | A | A | G | A | V | F | K | T | S | A | M | N | P | S | P | S | L | I | S | S | K | K | F | | | | |
| UniRef90_D3I0L1 | N | I | F | F | K | N | S | P | L | H | D | G | A | M | I | V | S | R | N | R | I | I | K | A | A | G | C | I | L | P | L | V | L | S | H | N | N | L | G | I | L | I | S | S | K | K | F | | | | | |
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| UniRef90_W7KVA1 | T | I | F | F | K | N | S | P | L | H | D | G | G | T | L | I | S | R | E | S | K | R | I | I | V | S | A | G | S | I | L | P | L | L | T | E | N | K | F | L | L | I | S | S | K | K | F | | | | | |
| UniRef90_R6W907 | N | I | F | F | K | N | S | P | L | H | D | G | A | M | I | V | S | R | E | S | K | R | I | I | R | A | A | G | C | I | L | P | L | V | L | S | H | N | N | L | E | D | N | I | S | S | K | K | F | | | |
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| UniRef90_U5F6E1 | S | I | F | Q | Y | G | T | P | L | H | D | G | A | V | I | V | Q | Q | G | V | K | I | I | A | C | A | A | A | Y | F | P | L | P | T | S | E | S | P | R | E | L | I | S | S | K | K | F | | | | | |
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| UniRef90_R7MFL1 | S | I | F | F | P | N | N | S | P | L | H | D | G | A | V | I | V | S | E | G | D | R | I | I | S | S | A | G | S | V | L | P | L | T | S | M | N | D | P | T | N | I | S | S | K | K | F | | | | | |
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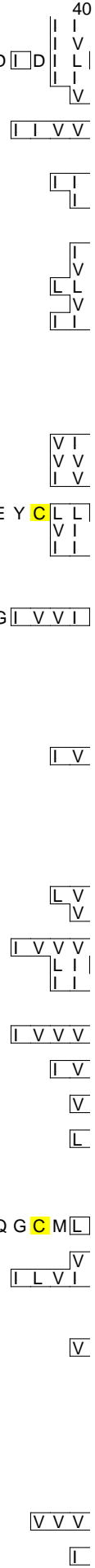
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NKMSSE|TKT|G|A|L|I|V|F|E|C|N|N|N|L|D|D|F|I|V|N|T|G|G|D|E|L|S|K|I|T|Q|P|L|L|E|
KLLSE|NRQ|K|G|A|L|I|V|I|E|R|R|N|D|K|L|D|Q|D|W|I|Q|V|G|T|P|L|S|S|A|K|L|V|I|S|T|K|E|L|L|L|V|L|
TLLAN|RQ|K|G|A|L|I|V|I|E|R|R|N|T|D|L|D|S|F|L|N|Q|R|G|G|V|A|I|D|S|S|K|L|V|I|S|T|K|E|L|L|L|Q|E|
KEL|S|Q|N|R|G|A|L|I|V|I|E|R|R|N|T|D|L|D|S|F|L|N|Q|R|G|G|V|A|I|D|S|S|K|L|V|I|S|T|K|E|L|L|L|Q|E|
MNM|AKR|TY|Q|G|A|L|I|V|I|E|R|R|N|T|D|L|D|S|F|L|N|Q|R|G|G|V|A|I|D|S|S|K|L|V|I|S|T|K|E|L|L|L|Q|E|
REMSA|H|K|T|G|A|L|I|V|I|E|R|R|Q|S|D|L|L|R|L|I|T|E|G|G|G|I|A|I|D|S|S|K|L|V|I|S|T|K|E|L|L|L|E|
LELSR|K|W|G|A|L|I|V|I|E|R|R|N|D|L|L|K|E|K|R|G|T|T|L|D|N|A|E|I|I|S|T|K|E|L|L|L|V|E|
LMSMS|K|R|V|G|A|L|I|V|I|E|R|R|N|D|L|L|K|E|K|R|G|T|T|L|D|N|A|E|I|I|S|T|K|E|L|L|L|V|E|
EVFSR|K|Q|T|G|A|L|I|V|I|E|R|R|E|T|K|L|L|S|D|I|A|A|T|G|G|V|E|I|D|N|A|D|I|T|S|T|K|E|L|L|G|Q|
VSLAN|K|R|K|G|A|L|I|V|I|E|R|R|E|T|K|L|L|S|D|I|A|A|T|G|G|V|E|I|D|N|A|D|I|T|S|T|K|E|L|L|G|Q|
RSMSE|S|K|K|T|G|A|L|I|V|I|E|R|R|H|H|N|S|L|L|R|F|Y|S|E|S|G|G|D|N|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
KTF|S|Q|T|N|T|G|A|L|I|V|F|R|K|T|S|E|L|L|R|F|Y|S|E|S|G|G|D|N|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
KDL|S|Q|N|R|T|G|A|L|I|V|I|E|R|R|T|S|G|N|L|D|D|T|F|V|I|N|P|G|G|V|T|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
QOTL|S|R|K|R|G|A|L|I|V|V|L|E|R|T|S|G|N|L|D|D|T|F|V|I|N|P|G|G|V|T|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
ELL|S|A|N|R|T|G|A|L|I|V|F|E|G|N|V|G|L|K|D|D|I|I|Q|S|G|T|M|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
QRMSD|S|T|K|T|G|A|L|I|V|I|E|R|R|K|E|S|T|L|L|K|D|D|I|I|Q|S|G|T|M|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
QDMAR|T|K|T|G|A|L|I|V|I|E|R|R|K|E|S|T|L|L|K|D|D|I|I|Q|S|G|T|M|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
STLAK|R|K|I|G|A|L|I|V|A|I|E|R|R|G|T|L|L|N|D|F|V|E|A|G|I|K|I|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
MYL|Q|S|Q|R|I|G|A|L|L|V|L|E|R|R|T|G|L|K|D|D|I|I|Q|S|G|T|M|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
EYLR|S|Q|K|I|G|A|L|L|V|V|F|Q|R|R|D|T|G|L|K|D|D|I|I|Q|S|G|T|M|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
ERLA|E|V|K|I|G|A|L|I|V|A|L|E|Q|A|I|Q|L|Q|E|V|V|E|S|G|L|V|V|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
TAMA|S|K|MR|V|G|A|L|I|V|I|E|R|R|K|E|T|V|P|L|G|D|D|V|G|E|R|G|L|P|I|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
ETLA|S|K|R|V|G|A|L|I|V|I|E|R|R|K|E|T|V|P|L|G|D|D|V|G|E|R|G|L|P|I|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
ERLA|E|R|K|T|G|A|L|I|V|A|I|E|R|R|T|G|S|V|L|G|E|Y|A|A|T|G|G|V|P|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
NKMG|A|S|E|F|S|G|G|L|I|V|I|E|R|R|N|N|D|D|L|D|D|F|L|T|N|Q|T|G|E|L|I|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
KTL|S|R|K|Q|H|G|A|L|I|V|V|V|R|R|E|T|P|L|L|E|L|W|L|I|Q|P|G|G|V|P|V|G|A|E|L|L|S|G|S|R|L|L|E|E|
QNLS|R|K|Q|H|G|A|L|I|V|V|V|R|R|E|T|P|L|L|E|L|W|L|I|Q|P|G|G|V|P|V|G|A|E|L|L|S|G|S|R|L|L|E|E|
NSMS|R|S|K|T|G|A|L|I|V|L|E|R|R|Q|N|M|P|L|L|T|D|Y|E|K|T|G|D|L|D|D|A|D|I|L|N|K|M|D|I|L|V|
TYL|S|A|N|K|R|G|A|L|I|V|I|E|R|R|Q|R|E|D|L|L|P|Y|L|Q|V|I|E|R|R|D|L|G|E|L|L|I|D|D|A|D|I|L|N|K|M|D|I|L|V|
AQL|S|Q|Q|G|V|G|A|L|I|V|V|I|E|R|R|T|S|L|L|Q|E|F|A|D|R|G|V|I|L|L|D|D|S|R|I|S|T|S|P|L|L|L|L|L|
EYLR|S|K|H|I|G|A|L|I|V|L|E|R|R|D|V|S|L|L|Q|N|E|I|V|D|T|G|T|K|L|N|L|Y|A|D|L|T|S|K|E|L|L|C|
YDL|S|A|S|R|K|I|G|A|L|I|V|L|E|R|R|D|V|S|L|L|Q|N|E|I|V|D|T|G|T|K|L|N|L|Y|A|D|L|T|S|K|E|L|L|C|
KEL|S|Q|N|R|T|G|A|L|I|V|L|E|R|R|D|V|S|L|L|Q|N|E|I|V|D|T|G|T|K|L|N|L|Y|A|D|L|T|S|K|E|L|L|C|
YYLA|K|R|R|I|G|A|L|I|V|I|E|R|R|E|T|G|L|K|G|N|Y|V|D|S|G|F|A|V|D|D|G|L|R|V|T|S|K|E|L|L|I|Q|
FQMA|R|R|T|G|A|L|I|V|F|E|R|R|L|V|P|L|G|D|W|T|A|R|G|V|E|L|P|S|S|E|L|L|V|E|
EKM|S|M|S|R|T|G|A|L|I|V|I|E|R|R|N|S|L|L|E|F|V|K|H|T|G|D|Y|M|D|D|E|V|N|S|Q|Q|R|L|L|E|Y|
YQLA|R|D|R|T|G|A|L|I|V|L|E|R|R|H|T|G|L|L|R|E|Y|L|E|A|A|R|E|I|D|D|A|K|V|I|N|S|Q|Q|R|L|L|E|Y|
ANMA|R|K|K|T|G|A|L|I|V|I|E|R|R|Q|E|T|S|G|L|L|R|T|Y|V|E|S|G|V|T|L|D|D|A|K|V|I|N|S|Q|Q|R|L|L|E|Y|
ERLA|A|A|N|K|T|G|A|L|I|V|I|E|R|R|N|G|L|L|R|T|Y|V|E|S|G|V|T|L|D|D|A|K|V|I|N|S|Q|Q|R|L|L|E|Y|
MYL|C|C|A|H|K|I|G|A|L|I|V|L|E|R|R|G|T|G|L|L|R|T|Y|V|E|S|G|V|T|L|D|D|A|K|V|I|N|S|Q|Q|R|L|L|E|Y|
KFL|S|K|T|H|I|G|A|L|I|V|F|Q|P|D|L|S|L|K|N|T|Y|Y|D|V|G|T|K|L|N|D|A|D|I|T|S|T|E|L|L|I|L|I|
TYL|C|Q|S|Q|R|I|G|A|L|I|V|L|Q|R|D|T|S|L|L|K|E|V|W|R|T|A|V|M|L|K|A|D|I|T|S|T|E|L|L|I|L|I|
KSM|A|G|K|E|T|G|A|L|I|V|A|F|S|M|A|S|D|L|L|K|N|F|F|A|D|S|G|D|S|L|D|D|A|D|I|T|S|T|E|L|L|I|L|I|
SKL|S|C|E|R|T|G|A|L|I|V|L|E|R|R|K|D|T|G|L|L|K|N|I|V|S|T|G|T|L|D|D|A|D|I|T|S|T|E|L|L|I|L|I|
V|A|MA|R|V|K|T|G|A|L|I|V|I|E|R|R|Q|N|T|P|L|L|R|E|W|E|R|T|G|I|D|L|D|D|A|V|V|S|S|S|Q|L|L|I|T|I|
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FYLA|K|R|R|I|G|A|L|I|V|I|E|R|R|N|G|L|L|D|G|N|Y|V|E|S|G|G|V|L|D|D|A|G|K|L|L|T|S|K|E|L|L|I|L|I|
TVLA|E|R|K|T|G|A|L|I|T|L|E|Q|G|H|S|L|L|A|D|Y|I|K|T|G|T|P|I|N|S|S|V|T|S|E|L|L|L|C|
FLL|Q|Q|R|T|G|A|L|I|V|F|E|R|R|Q|T|K|L|L|D|S|F|T|D|K|G|V|P|L|Q|A|R|V|V|S|V|P|L|I|L|G|Q|
REL|S|Q|N|R|T|G|A|L|I|V|I|E|R|R|P|E|Q|P|L|L|G|D|S|F|T|D|K|G|V|P|L|Q|A|R|V|V|S|V|P|L|I|L|G|Q|
ELL|S|E|K|K|R|G|L|L|I|V|F|A|R|R|N|N|L|K|D|I|D|T|G|I|R|L|N|A|E|I|S|S|S|L|I|V|E|
ISL|A|Q|K|G|Y|G|A|L|I|V|I|E|R|R|K|D|T|L|V|L|D|D|D|V|V|E|T|G|V|K|L|L|S|S|S|E|L|I|E|N|E|
SAL|S|K|T|K|T|G|L|V|I|E|R|R|Q|V|P|L|D|D|V|V|E|T|G|V|K|L|L|S|S|S|E|L|I|E|N|E|
SML|K|K|S|R|T|G|A|L|I|V|F|V|K|Y|Y|D|D|Q|L|F|A|N|S|C|E|T|I|D|D|S|R|I|S|K|R|L|L|E|M|
RAMS|A|D|K|T|G|A|L|I|V|F|P|R|K|D|S|L|E|F|I|V|E|R|G|D|I|V|D|D|A|K|V|I|N|S|S|S|L|I|E|M|
DYLR|K|R|S|I|G|A|L|I|V|F|E|R|R|D|S|L|E|N|E|Y|I|E|R|S|K|P|L|V|A|D|I|S|S|R|E|L|L|L|I|
ILL|T|A|Q|K|G|F|G|A|L|V|V|I|E|R|R|L|V|I|D|Y|H|I|E|F|G|T|E|M|D|S|K|V|S|A|E|L|L|A|
V|N|L|A|N|K|K|I|G|A|L|I|V|I|E|R|R|F|T|Y|L|E|K|G|F|L|E|V|G|V|E|I|D|D|A|K|V|I|N|S|S|S|D|L|L|C|
KTM|K|T|T|T|G|A|L|I|V|F|V|K|Y|D|E|R|R|F|G|L|E|K|G|F|L|E|V|G|V|E|I|D|D|A|K|V|I|N|S|S|S|D|L|L|C|
NKMS|M|S|K|T|G|A|L|I|V|F|E|R|R|N|N|N|L|D|D|F|L|S|S|S|G|D|E|M|N|K|V|T|Q|P|L|I|E|E|Q|
KEL|S|Q|N|R|T|G|A|L|I|V|L|E|R|R|T|D|T|V|L|D|D|T|F|V|N|S|G|V|T|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
EYLR|K|N|R|I|G|A|L|I|V|I|E|R|R|A|T|Y|S|L|D|D|T|F|V|N|S|G|V|T|L|D|D|A|G|E|L|S|V|K|K|E|L|L|I|Q|
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QTL|S|K|R|G|M|G|A|L|I|V|L|E|R|R|N|N|S|L|D|D|V|V|E|V|G|G|T|L|D|D|A|T|I|S|S|T|E|L|L|Q|
HKMG|K|D|K|T|G|A|L|I|V|I|E|R|R|K|R|N|D|L|D|D|F|V|K|E|T|G|D|A|M|S|E|V|I|N|Q|P|L|I|E|E|Q|
DDMA|S|T|C|T|G|A|L|I|V|L|E|R|R|S|T|A|L|L|G|E|L|I|K|N|S|V|I|N|G|N|I|T|S|A|T|L|E|E|Q|
ASL|A|T|K|K|I|G|A|L|I|A|M|E|R|R|E|R|T|K|L|L|D|D|S|Y|V|D|S|G|V|S|L|D|D|A|R|V|S|A|P|L|L|E|E|Q|
AALS|E|K|G|H|G|A|L|I|V|V|E|R|R|K|N|D|L|L|D|S|S|L|I|G|T|G|I|L|I|G|A|K|L|S|A|P|L|L|E|E|Q|
DRL|S|D|V|K|I|G|A|L|I|V|A|V|E|Q|S|H|D|L|S|Q|V|L|E|L|G|V|P|I|D|C|E|A|T|P|E|M|L|E|E|E|Q|
REL|S|Q|N|R|T|G|A|L|I|V|I|E|R|R|E|A|S|I|D|D|A|F|V|D|P|G|V|V|V|N|G|E|I|S|S|K|A|R|L|L|Q|E|
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ERMG|S|S|K|T|G|A|L|I|V|I|E|R|R|N|S|M|D|D|F|V|K|S|T|G|D|S|M|N|I|K|V|T|Q|P|L|I|E|E|Q|
DKMG|K|S|K|T|G|A|L|L|V|L|E|R|R|N|S|L|D|D|F|V|K|S|T|G|D|S|M|N|I|K|V|T|Q|P|L|I|E|E|Q|
GEL|S|A|T|Q|T|G|A|L|I|S|L|E|Q|S|H|S|L|E|D|D|Y|A|S|S|G|E|I|V|N|A|R|L|T|S|E|L|L|C|
KDL|S|Q|N|R|T|G|A|L|I|L|L|E|T|S|G|S|L|E|D|D|Y|A|S|S|G|E|I|V|N|A|R|L|T|S|E|L|L|C|
ERMS|A|R|H|I|G|A|L|I|A|F|E|R|R|T|P|L|G|D|D|Y|A|S|S|G|E|I|V|N|A|R|L|T|S|E|L|L|C|
YDMA|E|V|K|I|G|A|L|I|V|I|E|R|R|Q|R|L|L|D|D|E|Y|V|R|T|G|I|N|V|D|A|L|L|T|S|E|L|L|C|
ADL|S|A|R|R|H|G|A|L|I|V|I|E|R|R|M|G|V|S|A|H|L|Q|T|G|T|E|L|D|D|A|K|I|T|S|E|L|L|T|E|
NKMS|A|S|K|T|G|A|L|I|V|L|E|R|R|N|N|L|D|D|F|L|T|T|G|D|E|M|N|K|V|T|Q|P|L|I|E|E|Q|
RRMG|E|T|T|G|A|L|I|V|L|E|R|R|H|N|S|L|D|D|F|L|T|T|G|D|E|M|N|K|V|T|Q|P|L|I|E|E|Q|
KSL|G|A|T|N|T|G|A|L|I|V|L|S|K|S|S|E|L|K|F|Y|V|E|S|G|D|L|I|D|D|A|V|I|S|K|R|L|L|I|T|E|
EEMS|K|Q|Q|I|G|A|L|I|V|A|F|S|S|T|G|L|L|R|S|Y|V|E|T|G|E|L|E|A|E|V|S|S|R|D|L|L|L|E|
QNMA|K|Q|K|T|G|A|L|I|V|V|A|P|V|S|V|P|S|N|I|J|N|S|G|T|K|L|N|A|S|K|L|S|A|P|L|L|E|E|Q|
EML|S|K|Q|R|G|ML|A|V|F|T|R|K|T|S|L|K|D|I|M|D|T|G|T|Y|L|N|A|D|L|T|S|S|L|L|V|E|
REL|A|A|Q|R|K|G|A|L|I|A|I|E|G|R|V|P|L|F|E|Y|G|R|A|G|S|K|L|E|S|P|V|V|S|A|A|L|L|Q|E|
KKM|S|A|N|R|T|G|A|L|I|V|I|E|R|R|T|N|S|L|D|D|F|L|I|S|T|G|D|A|M|N|A|E|M|N|Q|V|L|L|E|
DTFS|H|S|K|T|G|A|L|L|V|F|E|R|R|E|T|K|L|S|D|I|A|A|T|G|T|I|V|N|A|D|T|S|V|A|L|F|G|
REMS|E|A|K|T|G|A|L|I|V|G|Q|Q|S|D|L|K|R|I|A|E|G|G|I|A|L|D|A|K|V|I|S|T|E|L|L|E|
ADMA|E|A|H|I|G|A|L|I|V|C|G|V|N|T|G|L|K|R|I|A|E|G|G|I|A|L|D|A|K|V|I|S|T|E|L|L|E|
MEMA|R|R|V|G|A|L|I|V|V|I|E|R|R|Q|Q|Q|L|G|E|V|T|A|R|G|V|I|L|N|A|V|S|D|L|L|L|

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| | 170 | 180 | 190 | 200 | | | | | | | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|---|----|
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| UniRef90_K9UQ44 | GTR | HRA | AAV | GGV | IST | EES | SDA | VTF | VVV | SE | EET | GGV | SIT | LN | NQ | L | V |
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| UniRef90_K8GPP0 | GTR | HRA | AAV | GGV | IST | EES | SDA | VTF | VVV | SE | EET | GGV | SIT | LN | NQ | L | V |
| UniRef90_F9YRY2 | GTR | HRA | AAV | GGV | IST | EES | SDA | VTF | VVV | SE | EET | GGV | SIT | LN | NQ | L | V |
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| UniRef90_B3DXZ9 | GTR | HRA | AAV | GGV | IST | EES | SDA | VTF | VVV | SE | EET | GGV | SIT | LN | NQ | L | V |
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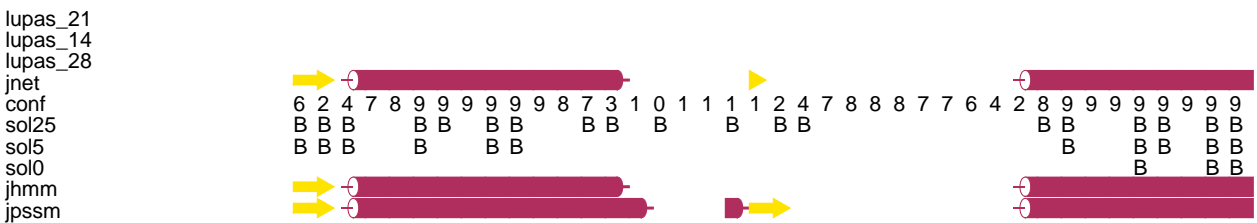
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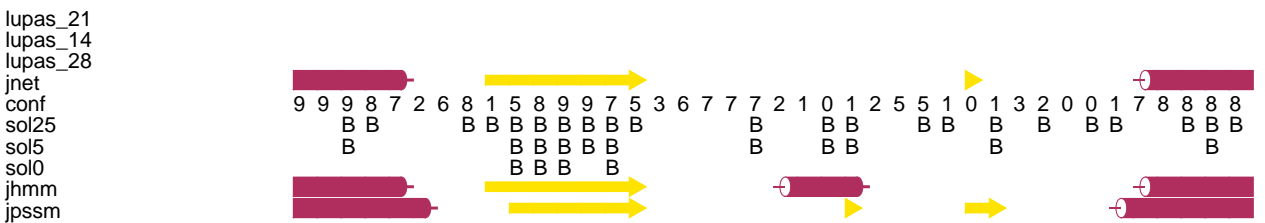
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|------------------------|---|---|-----|---|-----|---|-----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 130 | | 140 | | 150 | | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| UniRef90_C5CHP5 | K | V | M | L | K | E | F | S | R | L | D | G | A | F | V | I | S | D | G | K | I | V | A | Y | R | Y | L | E | P | S | A | E | G | V | D | I | P | K | G | L | |
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| UniRef90_H2J5I5 | T | V | M | L | K | E | F | S | R | L | D | G | A | F | V | I | S | D | G | K | I | V | A | Y | R | Y | L | E | P | A | A | E | G | V | D | I | P | K | G | L | |
| UniRef90_L0IB01 | N | V | M | L | K | E | F | S | R | L | D | G | A | F | V | I | S | D | G | K | I | V | A | Y | R | Y | L | E | P | S | A | E | G | V | D | I | P | K | G | L | |
| UniRef90_M0CRS0 | E | L | | A | K | M | D | G | A | F | V | V | D | D | D | T | T | I | V | G | A | N | V | Q | L | T | P | D | H | T | I | P | T | N | Q | T | | | | | |
| UniRef90_N1JMG9 | N | I | S | V | P | D | V | R | E | M | D | G | A | F | V | V | S | G | N | G | L | E | A | A | G | R | Y | L | T | V | D | T | S | I | P | K | G | M | | | |
| UniRef90_Q2FNI7 | N | V | M | L | K | E | F | S | R | L | D | G | A | F | V | I | S | D | G | K | I | V | A | Y | R | Y | L | E | P | S | A | E | G | V | D | I | P | K | G | L | |
| UniRef90_U1QLP8 | N | V | M | L | K | E | F | S | R | L | D | G | A | F | V | I | S | D | G | K | I | V | A | Y | R | Y | L | E | P | G | A | E | G | V | E | I | P | K | G | L | |
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| UniRef90_D2QYP4 | G | T | L | K | E | L | S | P | I | L | D | G | A | F | V | I | S | E | D | G | R | V | I | A | A | G | R | Y | L | S | K | A | D | N | I | K | L | P | K | G | L |
| UniRef90_W0JH62 | N | I | M | I | K | E | Y | S | V | L | D | G | A | F | V | I | S | G | D | T | L | E | S | A | G | A | H | I | A | A | S | D | T | T | D | L | P | K | G | L | |
| UniRef90_D4GZM5 | N | V | M | L | K | E | F | S | R | L | D | G | A | F | V | I | S | D | D | G | I | V | A | Y | R | Y | L | E | P | S | A | E | G | V | D | I | P | K | G | L | |
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| UniRef90_D8J2J4 | N | V | M | L | K | E | F | S | R | L | D | G | A | F | V | I | S | D | D | G | K | I | V | A | Y | R | Y | L | E | P | D | A | K | G | I | D | I | P | K | G | L |
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| UniRef90_C6WHB9 | N | I | A | Q | | T | A | K | M | L | A | V | V | L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UniRef90_H3ZKV6 | N | I | F | D | K | G | S | K | F | L | D | G | A | F | V | I | S | K | G | R | V | L | A | G | R | Y | L | D | K | V | S | V | N | I | P | S | G | L | | | |
| UniRef90_V4EPK4 | T | I | | K | E | L | S | A | L | D | G | A | F | V | I | K | E | N | G | V | L | A | G | R | H | L | S | A | A | L | D | S | K | D | F | P | P | G | L | | |
| UniRef90_L0DRA4 | A | L | | K | E | L | A | Q | M | D | G | G | F | V | I | R | D | G | T | V | E | S | A | C | R | I | I | D | A | P | N | S | L | L | P | K | G | L | | | |
| UniRef90_R7L8I7 | E | T | V | K | E | Y | S | L | I | D | G | A | F | V | I | D | G | K | G | I | L | S | A | G | S | L | I | H | T | P | D | K | L | Q | L | P | G | G | L | | |
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| UniRef90_Q096V7 | N | I | L | K | S | N | L | S | L | D | G | A | F | V | I | D | R | E | D | G | V | V | L | A | A | G | R | Y | L | S | S | E | S | V | K | T | P | K | G | L | |
| UniRef90_UPI0003B37002 | N | I | L | K | S | N | L | S | L | D | G | A | F | V | I | D | R | E | D | G | V | V | L | A | A | G | R | Y | L | S | S | E | S | V | K | T | P | K | G | L | |
| UniRef90_M5U219 | N | L | L | D | P | K | V | Q | Q | L | D | G | A | F | V | I | S | E | G | V | I | E | R | S | R | Q | M | L | E | V | S | E | D | L | K | M | T | K | G | L | |
| UniRef90_F4HJF8 | N | I | F | E | P | K | F | Q | L | D | G | A | F | V | I | S | R | G | R | V | V | A | A | G | R | Y | L | D | V | D | P | D | V | T | L | P | K | G | L | | |
| UniRef90_A7I8S2 | N | I | | K | E | F | A | Q | L | D | G | A | F | V | I | S | R | G | D | F | I | E | A | S | G | R | Y | I | T | V | S | S | K | V | I | L | P | K | G | M | |
| UniRef90_C5A5U8 | N | P | F | I | K | E | F | A | Q | L | D | G | A | F | V | I | S | R | G | R | I | L | A | A | G | V | Y | L | P | K | S | L | N | L | R | L | P | P | G | L | |
| UniRef90_A6UQC2 | N | T | M | | K | E | F | A | L | I | D | G | A | F | V | I | S | K | G | E | V | L | C | A | G | R | Y | L | S | C | S | G | N | L | E | L | P | L | G | L | |
| UniRef90_UPI00029A97E2 | T | M | | K | E | F | A | L | I | D | G | A | F | V | I | Q | G | D | T | V | L | S | A | G | T | Y | L | P | K | S | L | P | J | E | L | P | Q | G | L | | |
| UniRef90_E8QZ98 | E | A | I | K | E | I | A | Q | L | D | D | G | G | F | I | V | S | R | D | G | T | V | E | S | A | C | R | L | I | D | A | P | T | G | L | S | L | P | K | G | L |
| UniRef90_M6TEU6 | T | L | F | K | K | T | P | R | P | R | E | R | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| UniRef90_L0HP46 | E | N | F | L | R | E | F | A | I | M | D | G | A | T | I | V | D | D | G | Y | V | V | S | A | G | A | Y | V | K | L | V | L | D | E | W | I | L | D | G | Y | |
| UniRef90_I3REG2 | N | I | L | D | P | K | F | S | F | L | D | G | A | F | V | I | S | K | G | R | I | V | S | A | G | R | Y | L | P | K | S | L | D | V | T | I | P | Q | G | L | |
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| UniRef90_U7DD75 | N | I | L | D | P | E | F | A | A | L | D | G | A | F | V | I | G | D | G | V | V | S | A | G | S | H | L | Q | K | E | N | R | R | D | L | P | S | G | L | | |
| UniRef90_Q6ALN0 | E | I | L | K | Q | Y | L | R | N | D | D | G | A | F | V | I | S | S | G | K | I | I | G | G | K | A | H | L | S | F | S | D | D | S | I | Q | I | K | D | K | |
| UniRef90_W8NSG0 | N | V | L | I | K | E | F | A | Q | L | D | G | A | F | V | I | R | D | G | R | I | V | S | A | G | R | Y | L | E | V | E | P | K | V | I | L | P | K | G | L | |
| UniRef90_L0HHU5 | N | I | | K | A | L | A | Q | L | D | G | A | F | V | I | G | D | G | F | I | E | A | V | G | R | Y | I | T | V | S | N | S | V | L | P | P | G | M | | | |
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| UniRef90_F8ADL8 | T | L | | K | E | F | A | S | L | D | G | A | F | V | I | R | D | G | G | I | I | A | G | A | F | L | R | A | G | G | V | M | V | D | I | P | P | G | L | | |
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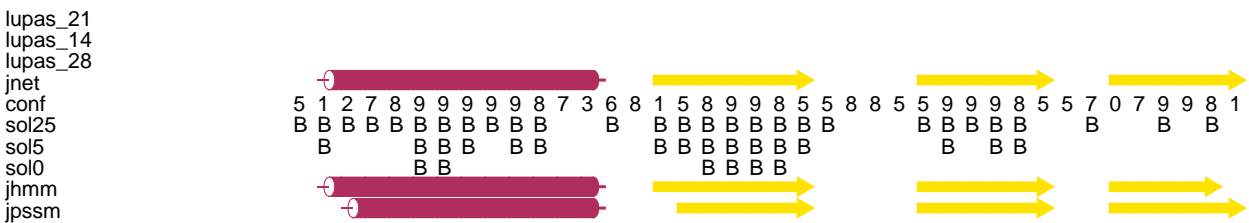
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