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P G L S F G S E G D N D G K L C R S P R G V A F N P E G N V V T D F R N N H R I Q
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170 180 190 200

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A Y R Y
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K Y
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K L W D T S G K L L H T F R G H P G G V T A V A F S P D G K R I V S G S G D G T

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

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UniRef90_C3Y3H7	T G R K G S G V G E L D A P L G V A F D S D G N I A V V E R G N R M Q I F N				
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UniRef90_B4VJX3	G K L L K T L S G H N H W V		L D V S F S A N G Q L I A A S R D K T I K L W Q		
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UniRef90_B0DYW7	G Q N I T V F R G S D S I R R		V A F S S D G K H I L C A T G N R I R L W		
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UniRef90_A3Q5X7 N P N G G E P Q R V A G D H G V P D A V K F S A D G F L V S T Q V A S G Q V L
UniRef90_B2JAS7 D T S G K L L N E L R G H E Y Q I N F S S D G K S I L T V S L D F R V V
UniRef90_X1K742 F V K K W G D C G R W D G A F Q Y P M G I T L D A R R N I Y V A D K Q N S F Q

UniRef90_I4FN12 UniRef90_Q16BT0 UniRef90_UPI0001D2EE2B UniRef90_X6LWl6 UniRef90_UPI000361880C UniRef90_L0D617 UniRef90_UPI0002FAEF9A UniRef90_F2SID0 UniRef90_K1QQZ8 UniRef90_UPI00036766FA UniRef90_UPI0003816A95 UniRef90_U7QFW5 UniRef90_R7QR87 UniRef90_C3YF29 UniRef90_S2JNS0 UniRef90_G4THC0 UniRef90_W3WT51 UniRef90_W7SB90 UniRef90_A7BZD6 UniRef90_UPI0004416376 UniRef90_K9W0M9 UniRef90_K1Q5U3 UniRef90_F2TXJ2 UniRef90_UPI0003720BF1 UniRef90_S8AWZ1 UniRef90_S8DYK0 UniRef90_R1E165 UniRef90_K9WJD4 UniRef90_M9LKQ7 UniRef90_A3Q393 UniRef90_G4TJH1 UniRef90_K9PHA9 UniRef90_K1Q6R1 UniRef90_X6PEJ0 UniRef90_H9KPI1 UniRef90_UPI0002DA0281 UniRef90_D1A2J7 UniRef90_UPI00037E38D2 UniRef90_Q7NH82 UniRef90_A0A024LZH5 UniRef90_D0LZ61 UniRef90_K1WEA3 UniRef90_UPI00047D1230 UniRef90_W4HYW4 UniRef90_UPI00034DF11A UniRef90_X6PCN5 UniRef90_L5K851 UniRef90_L0D9C9 UniRef90_J2N2U3 UniRef90_G4U339 UniRef90_I1F493 UniRef90_T5AHY6 UniRef90_A0DB07 UniRef90_K1R7S7 UniRef90_UPI0003154A05 UniRef90_X6MTL5 UniRef90_X6LWZ9 UniRef90_X6NMB8 UniRef90_D8FVV1 UniRef90_G4TRE2 UniRef90_B7JWJ3 UniRef90_UPI00035F4391 UniRef90_UPI000366EAC9 UniRef90_G4TP14 UniRef90_F5UHZ1 UniRef90_X6LVS7 UniRef90_K1PT88 UniRef90_Q2IS76 UniRef90_X6PB15 UniRef90_G1XKX9 UniRef90_X6P7D1 UniRef90_B3G4M9 UniRef90_U7QI25 UniRef90_Q4WH21 UniRef90_K0K0D0 UniRef90_UPI00037B7E03 UniRef90_D2W029 UniRef90_K9PT71 UniRef90_C3YS30 UniRef90_X6M410 UniRef90_R7S181 UniRef90_A0BN36 UniRef90_K8GNI2 UniRef90_B4UY99 UniRef90_E8X218 UniRef90_E8X5V6 UniRef90_L8G6V4 UniRef90_UPI0003693216 UniRef90_D3CX75 UniRef90_A3Q5X7 UniRef90_B2JAS7 UniRef90_X1K742

I W D L R T G E Q L L G C L R G H N Q L V N D L A V T P D G T K L V S A S N D G T
V I D P E N G A A L A T V A V I G A R P Y G V A F A Q G R A F V T N Q Y A D T
A F V D A S G F R K L G E J E V I G R H P F G V A F A A G G R A R A Y T A N V E S D
L W N V E S A S E L L K Q F K G H S R G R V T R A R F S P D D K F A I V S C S S E N T
I W D G N N F Q E L H T L K G T S A P I I S V A F S P D D G K Y A A A G S E N Q I
L W D A S A G K E S V G T I R L G H T V S S V A F H P A G Q R T V L A S G G F D R T
L W D I S S D G E L I T F R G H T G Q V H L A F H P A G Q I L A S T G A N D R G T
I W H V R T G V C A R V L H G H K D S V N A V A F S H S G K L L A S T S A D E T
V V N K S G H R F S F T G Q G S T F Y K G V C T D L L G H I L V C D I Y S D T
L W S L D G R F S K T L E G H R S A I W G V T I S P D G S T L A S A S M D D T
S V I N T A T D T V S S T F A V I G T A P R G V A V A P N G A K Y V N N G S N S
K L W K I D H C Q V S V Q Q T E N C I G V V E V S F S P N G L V L A S A S G D R T
M W D D T G R Q V W E T N T E H T G W V M S V A M S W D G K R V V S G S S D H T
S V R Y V K T K T H N I L N G P F C E P R N I N T D G L S N V Y V S D I G D S T S
L W D V Q R G T C P L V R V F T G H T G S V H A V A V S P N G R L M A S S G G E D H S
L W D V D T G Q P L E P R Q G H H Q G V I T S I G F S P D G T R V V S G S G Y D E A
L W D A E S G A C L Q L T L P G H S N S V Y S V A F S A D K D K L V S G S E D N T
L W N A A T W E A P A G V L T F H A N A V T G V A F S P D D S H R V L A S A S Y D E T
I W D A Q T R R T V P W Q A H G G W S V N S V A F S P D G K H I V S G S D D G K
L W N F N L D S L T A M G C N W L Q D Y
V V N Q T G K L R F T Y T G P S F Q P V G I T T D S Q G R I L T T D Y N N D C
I W D W R K G R C T A I L R G H T E S V E C L T I S P N D Q V I C S G D K D G I
I W D A G T G A M R L L L R G H T D Y V W N L A W S P D S R V L A S A S S E N D H T
L W D A K T G V L L Q N L E G C K E T T H G V T F S P N N A M L A S A S E N G T
L W D A H S G T A S P L S G G N N A P V M H V G F S P D S R Q L V S T S A D Y C
R R V E V D A T G E V I T D A A Q F S Y P N G I S I F S P D G S A F V A D Y E N H K
I R Q M D S G K L I R S I R G N S D Y I F S P D G K T L V S G G L T D
L Y A A G G Y R D S E A S E A L F N G P A G I A I T A E G G I V A D R W N H A
R L H P R A D G V T M R E L P T R G A G P V G I T A T H D D A I W F T E I L A D K T
L W D V A T G R T L G E P L R G H E H E V T V A L S P D G T R I I S G S K D K S
R F W D L S L G V C S R V I S V I G R F V G S V A F S P D G K T L L S G D Y E G V
V V N K S G G H R F S Y T G R S G S F Y P Y G I C T D L L G H I V C D G I I K
I W D V S S G E Q V K L L E G H S D S V N T V Q F S P D Y S K I V S C S K D K S
V I S D T G D L L R W F D C S E Y M R E P S D I A I S G K E Y F V C D F K G H C
L W N L N G S E I L V I T L K G H R D S T V M Y V N F S R D G K T I A T A S R D N T
L W R V R S G E L I T A L K G H R D S T V A S V V F S P D G A T L A T A S R D G T
R L W D L S G N L I V E L K G H Q D E V W S V C F S P D S Q F V A S A S S D R T
V W D V E S S V C L R V L E G H T A D W I K S V A F S P S G H L V A S A G I D R T
W D M A T R P A 2 4 L Z H 5 I N R V V Y S R D G T R I A S G S D D K T
I W D L D S G G P P L V L A G H R D R V A S V R F S P D G E R V V S A L D N T S
R W D M Q G N L L G S L E G H D Q G V I G L A L V S P D G E I L A T S S W D E S
V W D W K N Q Q L I R T L T G H S A A I F S I L A L V S P N S Q I L A S G S V D K T
L E L D L N G G E P R V L L E N V P L P N A M E V G P D G L L Y F P V M G A N E
N A D G F D F R P Y K T L R G H S S N I W H L S F S P D G N K L I A S G S D D N T
I W D I S S G K Q I G L L E G H S A D V I E A K F P D G N K I I S C S W D N T
I W S M K Q D T C V H D L Q A H S K E I Y T I K W S P T G P M L A S A S F D S T
R W D V E T G R Q I G T P I A H K S P V H M I A F L R D G R R V T G T R D G G
M V F D T D A R K I V N T I A V G K S P F D A I S G D G R L L C V C N Y S G G
L W D T V T G G R L G A H L R G Q N D R I S V A L S P D G S R I V A G S Y D C N
S M D G Y L I A S V G K E G S H F K L P C G I A I S P I G K V Y I A S D R D N H R
L W D T T T G A A V H V L A G H S G Y I A T V V F S P D G K V I A S S S E D R T
L W D V K T G K S Q A K L V I G H T S T V Y S V Y F S P N G T S L A S S S Q D Y T
K K Y Q F V P H G I T T D S Q S R I L I T D Y G N H C
K L W R R N P G T L L K T F S P H D S W V L G V S F S P D T H L L A S A S W D N T
I W D V E S G K K I N E L K G H L S C V R K A Q F S P D G N T I V S C S M D K T
I W N I G T G V K W K L L K G H F K Y V N D V K Y F P D G Q T I V S C S S D N T
L W D V E S G E R L R E L I G H S D S V W D A K Y F P D N Q T I V S C S L D R T
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W D L T T G K E L F S L K G H G G L V R N R V A V T A D G K R A I F V A D D N T
V W D V S S G D Q I L L L K K H T G V V N S A S F S P D G R T K V V S C S S D K T
R W R Y T G H P S V T K N K Y I P W G L T A D S Q S R I L T A D R N N H C
Q V I D R A S G K T I E M L H D F K A P Y D A I R L J A N G K L V V A E L G T K S
L W D V Q L G R Q L Q V I F E G H S D H I R G V L F S S D G S K I V S Y S Y D K T
I W D L D G N C I S T V L R H G G L A N L I T F S N N G A R M V S S S F Y R G M K
V W D I T L E R K N Q S I E G H Q D I A T N V H F S S D G S K V M S C S L D K T
L F Q F E K T G T P N T I L L S S P S G I V L D I D K N I F I V D F E N H R
K L W K R D G I E L K P L V I G H N D Q V K A V A F S P N G Q L I A T A S Y D K T
L W D P T T G N L K H T L E G H S D W V R S V A F W K D S Q L L A S G S D D K T
R V T A G E V T T H P L P T A E A A P V G I T A T S D A L W F V E I G A G Q
W A L L R M T A D G K Y T L F P V G V P L R M T A A A D G T M W F A G S N A S V
G Q S G H T G D G G L A T N A A M A L A Y G V K V F S N G E V Y I S D S F N F K
L W S R D G K F Q Q I L Q G H T R S V N T V I F S R D I I A S A S D D G T
V Y N T S G R H Y L Y E F E V C L C K L R D I L I D A M G R I L L A S Q I T S G Q
L W N V L S G K Q L Q V F E V H S E F I S K A E F T P D C S K V I S Y S D D R T
V W N A S T G E P I A G P F H G H N A E V V S V S L S S D G K R I A S G S W D C
F Y E V K N E F Q S V K L D G H S D N V N T I C F S P D G T L V A S S D D R S
L W D V N T G R C L K T L H G H D S H V W S V A F S P S Q C N D A S S S D D Q T
L L A S N G T T L S G A S G Y A A S Q P F T S A V A L D A T Q N A W F A V Q N G
K I T G T T A S V I A A G L T S P N A V A V D D S G S L Y V L S A G S A T
V W D A A T G T L Q Q T L Q G H S A G V D S V A F S H D S K L L A S A S Y D N T
R L J A S L E D G G T V T T R E L L P F T H A L T C D T R G V L H L T S E F G E
T D T P T G S T T L T L P G S A Q S C A F S P D G L L L A T A S T D D T
R I D P R S G A Q T L L A Q L S P G L D N L T F V G D R L F V S N F T G E
S N S G K L A E I K G K Q H D A A L T S A S L S P D G K L I V T G Y S S F G
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V K I W D T E K R Y E L R 210 N S M R Y V G V T P 230 D G T R F V L A D W D 240
L S V I D L G T L R K I A T L E T G E Y P E G I D T T P D G R I V V A N W F E
D I V S V I D I A G R R E V A A T V K V G S K R P Y C I V A L A Q G R R G F V T D Q Y A
V R I W D L E T A G K R V L K T L K E H T S I V N D I K Y F P A G G R T I V S C S G D
V R I W R M E N G R L S R T F F G H S A E V N G V S F S P D G K Y L A S T G N
A L V W E V A P T G L D F R H D G F V Q A V T F S P D G K F L L A S A S Q D
I R L W N V Q T G K L I N T L Q V P S N F I V Q A V T F S P D G K F L L A S T S N D
L R I W E T G T G K C V A G I N A R I L L H T V S F D P T D S Y L L T
V H L L D Q D G A F M C L L L T E V V K D P R S V C V D D E N N L I V G G S N T
I K L W T S D G A L L K T L K G N T R G M M G V D F S P D D G K L L V A Q G G A T
V S V I N T T D A V S S T I T T N I G G P S G A F F T A D G K A Y V T N T A S
V K L W N V Q T G K E I E T L K G H N N D V L G V S F S P D G Q T I A S G S R D
V R V W D G D T G R Q I G E A M E A Q A P V T S V A M S G D G K R I W S
V K L L D K N G D L E G I T G K D L E Y P T G V C V D K S G N V I V A D A E K
I T L W D L G S G K K L K S M T G H T G F I Y T V C F N S E S T V L V S G G G A D
I G L W H V D S G G E P V V E F L R G H Q R V N G V S F L P D G L R V V S C S G D
I K L W D A K S N A S L Q E L N S H S L P L W S V A I S A D R R R L A S G S E D
V R L W D T A G G L V S T E T G A T S F L E A V A F S P D G R T L A A G G S D D
I T L W E V D A K E I E T L K G H N A V A T T L A F S P D G S T L A A G G S E D
V R L W D A E T H R T I R E P P E G H G Y P V A V A Y S P D G K R I V S G L L D

I H I L D Q D G Q F L R Y I D N C H L Q D P F G L C V D T R D N L F V G E W N T
I H L W S A D T G Q R T A V I H A H T K S V E S V A M S R D G K L L V S C S E D
V R L V S A H D A K T P L V R V L R G H S K D T V W G V T W S P S G T Q L A T S S T D
V I L W D A A T R T K V L V K R G H S G R V Y A A S F S T D G K L L A T G S E D
A R V W N V K D G Q L L H L L Q G H R G N I N A I L Y T P D S R R L A T G S D D
I R R V E V A T G A V T T G D A A G H C C P I G I A I S P D G A L F V A D Y G N
I E L W Q T D T G E A I C T L R G H S D A V Y S I A F S P D G Q T L A S T G V D
I R Y L F N G K V Y T L G G G G T F R E P V N V A V L S N G T I A V A D G F N
L G R L P L D G S Q E I E D L P G K P H A V V A D P S G G V W V S L W G A
I R M W K V D S G E P I D E P L R G H A S V N A I A F S P D G S R I V S G S D D
V Q L W D V A C G E C L K T F L G H M N R I Y S V A W S A D G N K I A S T C T G
V R I I D Q D S G F L L T K Q G M V G P R S L C V D D E N N L H V G Q Y T R
I R I W D I S S G T Q L Q L L E G H L D D V A G V H F T S N G L N I I S Y S N D
V V V F N E E G K F R R I G C D N V T N F P N G I D I S D A G D I L I G D S H G
A K L W D L E G K E L V T L R G H T D T L G S V V F N R D S Q T I A T A G W D
A R L W R A K D G E L I T V L K G H Q D Q V T S V A F S P D G A A L A T A G W D
V R V W D L S G N L I A E L K G H Q G P W S V C F S P D G R F L A T G S R D
V R L W D P A G E C V A V L E G H T G P T L S V L F I D D T T V A S G S T E D
L R L W D A N T G A P V G Q P L T G H N G V A G L D F D P E G R R I V S T A E D
A R V W S A D G G E P L V F T E H D A W V W S A S F S P D G E R V V T A S S D
I R L W N M E G E L L K V I N N A H S M G G N Q V L A F S P N G E R V I A S V G N D
V K L W N W K T G E L L Q T L S G C S P V A F S P D G Q R L V S G S Q K
I W R I D P D G G V P E C V A G E L G V P D A V K F D P D G N L V S T Q V I Q T
I N L W S I T G S L K K I F K G H S D A V A S V A F S P D N S L L A S A S F D
I R L W E T L S S K O I Q I F E G H K N F V D G I Q L S S D G S K F V S Y S W D
V R L W D V E R G V C V H T L T K H Q E P V Y S V A F S P D G N Y L A S G S F D
L R I W D T A T D Q V T D L P Q G S S V T G L A S S P D G R L M V T G T A G
T I S F V D L D T E V V D G V A V V E S S V A I A S S P D G Y V V V A L N T E
I R F W D V E T G E L L G E P L R G H N G V T A V S F S P N G S R I L S C S S D
I Q V L K P Y I T F S H S F G S E G F Q S P R D I A I D S P G G L V V Y T D T Y N
L V L W D T E T G A T L Q V L N N P L S S G T V T F S P D G K L V L K S N P A
I C L W D V K T G Q Q K A K L Y G H K S C V Q S V C F S P D G T I L A F G S Y D
I N I L D K K G Q F L R Y I D N C D L N Y P L G L C V D K N D N L F V C E H F T
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I R I W D I S S G N Q I K I L D N G H K A D V L D A Q F F P D D G A K I V S C S K D
I H I L D Q N G H F L R Y I D N C D L E D P Y G L C V D N D N M F V C E F N
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170 180 190 200

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

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ATDGA LL LG PL HGT RGGVNVVTLSSPDGKGT L I A S A S S D M T I R
TNEFI SDADN N V I R G V S N G N I S T I A G N E L V G S G F S M G D G G
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N P E T G E A R Y L A H G S T V V A V A F S P D G T R L A S A D D D Q S A H
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D V T S G G Q K I M N G S D I J N D V Q F S P N G Q Q L V S S Y D K T I C
T Y F V D M V D V Y P K V V L P A S L I L D K D G K A F A I Q P K G Y D R
K L D G T Q R K L L W Q N L E K P R A I A L H P M E G T I Y W T D W G N T P R
T R Q K T D S G K L M S C V L E R F P L D A E G I H C T N T L A D P
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C S H L C L L S P R E P F Y T C A P T G V Q L Q D N G K T C K A G A R R T D L R
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V E T G E I A R T L T G H Y K D V N S I G F S P D S Q F L I S G S R D R A V N
I D T A T H E T E P T L L V T G Q A Y G L G L S P D G R T L W V G P S T G D Y V
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A K T G K P L G E P L R G H E H D V Y G V A L S S D G S R L A S C S S D S T I R
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S I S V V D T S L G Q I V N E V K V G R E P Y G A A L S P D G K L L F A S S A D
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 UniRef90_UPI0004410FD7 G T I R F W D
 UniRef90_M5C384 E T V Y V W D A R S Q Q
 UniRef90_M5C3T0 G S I K L F S
 UniRef90_G4YZ95 G S I K L F S

250

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UniRef90_I2K3N3      S S I R I W
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UniRef90_UPI0004793BE4 N D I S I I N
UniRef90_X6MFI6      K T I R L W
UniRef90_A8LFC1      G S V R V W D P L
UniRef90_UPI00041E07DA S R V T I L D A S S G Q
UniRef90_K9TF95      G N I N L W N R D G S F L
UniRef90_UPI00035D4E4D G T V L L Y S P D G G
UniRef90_D8TQU4      H R L K A L N P N T N E I
UniRef90_C3YAV1
UniRef90_UPI000382ED92 G R V T E F E A T
UniRef90_U4LVS4      M T V R C W D
UniRef90_UPI0003610760 H K V F L W N
UniRef90_Q1IKL6      N N V T V I D G A T N
UniRef90_W2EMR9
UniRef90_X8J2S1      R T I C I W D A T D G
UniRef90_E2CL70      N R V A V I N I P K R E V E K Y
UniRef90_K1QUN7      G E I K M I T Y T
UniRef90_B1WR27      N R L S M I N L V T G E
UniRef90_A8HMF2      G K C R I W T
UniRef90_A7I9F8      N R I H V Y D G Q G
UniRef90_UPI0002FD6D3A D T V I V W S T Q G E S K Q E
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UniRef90_I1H655      S T I R Y I
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UniRef90_J9IY45      A T L K I W D L R Q G H I
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UniRef90_V4BEE3      K T I E V A T L E G K M R
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UniRef90_H2V9M6      R T V E K
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