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QUERY UniRef90_H9G5E6 UniRef90_F7D162 UniRef90_M4AJM7 UniRef90_E2AK89 UniRef90_Q7PVU9 UniRef90_D2A5R8 UniRef90_J9JLI8 UniRef90_UPI00046D6102 UniRef90_UPI00035982FE UniRef90_T2MDG6 UniRef90_G6D1P6 UniRef90_F2TDQ6 UniRef90_U9U0T5 UniRef90_R9NZ48 UniRef90_M3B6B0 UniRef90_A2R650 UniRef90_G2RAZ1 UniRef90_G2YJP8 UniRef90_M4FKU2 UniRef90_I1CK15 UniRef90_R7Z5M8 UniRef90_F2DPC5 UniRef90_J0XNI5 UniRef90_G0S4I9 UniRef90_UPI0001FE637B UniRef90_L8GMV9 UniRef90_G1WYV7 UniRef90_L0PC91 UniRef90_E3KSS7 UniRef90_UPI000328F197 UniRef90_J5JGH6 UniRef90_H2N025 UniRef90_A0A058Z9C2 UniRef90_A8Q248 UniRef90_M7WNG7 UniRef90_S4RG01 UniRef90_UPI0004411162 UniRef90_F4PLU3 UniRef90_UPI0003513D55 UniRef90_UPI0001FE537E UniRef90_UPI0003F49BFE UniRef90_Q6FVA6 UniRef90_G7X6H0 UniRef90_Q6BY66 UniRef90_F0ZK45 UniRef90_F4Q1P0 UniRef90_UPI00033186AD UniRef90_W3X0C4 UniRef90_D2VY93 UniRef90_T0KXK3 UniRef90_T0NKV6 UniRef90_Q4REE9 UniRef90_Q54TK8 UniRef90_G3B1Y4 UniRef90_B6HSV4 UniRef90_A0A058ZGB5 UniRef90_C5G885 UniRef90_H8X5L3 UniRef90_F0ZUW1 UniRef90_X8JIE8 UniRef90_K5X8A8 UniRef90_A7TRY3 UniRef90_F2Q1X8 UniRef90_U4KYV7 UniRef90_C5DQI4 UniRef90_V9K9F3 UniRef90_J7S9X6 UniRef90_Q5B8H1 UniRef90_M7LXQ5 UniRef90_G7Y030 UniRef90_G8BUU3 UniRef90_W4K929 UniRef90_J3PKN3 UniRef90_UPI0003F1270C UniRef90_E5R415 UniRef90_R9XCN2 UniRef90_UPI0003C18BBD UniRef90_S3C765 UniRef90_F7W9K0 UniRef90_E7EZM3 UniRef90_G4NDV0 UniRef90_F0X753 UniRef90_T1J9K9 UniRef90_Q4RPN7 UniRef90_I2H4B1 UniRef90_M5ENC4 UniRef90_L8FSG0 UniRef90_UPI00042C5F2B UniRef90_F5H6U6 UniRef90_M4AEW5 UniRef90_E9BZM8

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

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

QUERY UniRef90_H9G5E6 UniRef90_F7D162 UniRef90_M4AJM7 UniRef90_E2AK89 UniRef90_Q7PVU9 UniRef90_D2AVR8 UniRef90_J9JL18 UniRef90_UPI00046D6102 UniRef90_UPI00035982FE UniRef90_T2MDG6 UniRef90_G6D1P6 UniRef90_F2TDQ6 UniRef90_U9U0T5 UniRef90_R9NZ48 UniRef90_M3B6B0 UniRef90_A2R650 UniRef90_G2RAZ1 UniRef90_G2YJP8 UniRef90_M4FKU2 UniRef90_I1CK15 UniRef90_R7Z5M8 UniRef90_F2DPC5 UniRef90_J0XNI5 UniRef90_G0S4I9 UniRef90_UPI0001FE637B UniRef90_L8GMV9 UniRef90_G1WYV7 UniRef90_L0PC91 UniRef90_E3KSS7 UniRef90_UPI000328F197 UniRef90_J5JGH6 UniRef90_H2N025 UniRef90_A0A058Z9C2 UniRef90_A8Q248 UniRef90_M7WNG7 UniRef90_S4RG01 UniRef90_UPI0004411162 UniRef90_F4PLU3 UniRef90_UPI0003513D55 UniRef90_UPI0001FE537E UniRef90_UPI0003F49BFE UniRef90_Q6FVA6 UniRef90_G7X6H0 UniRef90_Q6BY66 UniRef90_F0ZK45 UniRef90_F4Q1P0 UniRef90_UPI00033186AD UniRef90_W3X0C4 UniRef90_D2VY93 UniRef90_T0KXK3 UniRef90_T0NKV6 UniRef90_Q4REE9 UniRef90_Q54TK8 UniRef90_G3B1Y4 UniRef90_B6HSV4 UniRef90_A0A058ZGB5 UniRef90_C5G885 UniRef90_H8X5L3 UniRef90_F0ZUW1 UniRef90_X8JIE8 UniRef90_K5X8A8 UniRef90_A7TRY3 UniRef90_F2Q1X8 UniRef90_U4KYV7 UniRef90_C5DQI4 UniRef90_V9K9F3 UniRef90_J7S9X6 UniRef90_Q5B8H1 UniRef90_M7UXQ5 UniRef90_G7Y030 UniRef90_G8BUU3 UniRef90_W4K929 UniRef90_J3PKN3 UniRef90_UPI0003F1270C UniRef90_E5R415 UniRef90_R9XCN2 UniRef90_UPI0003C18BBD UniRef90_S3C765 UniRef90_F7W9K0 UniRef90_E7EZM3 UniRef90_G4NDV0 UniRef90_F0X753 UniRef90_T1J9K9 UniRef90_Q4RPN7 UniRef90_I2H4B1 UniRef90_M5ENC4 UniRef90_L8FSG0 UniRef90_UPI00042C5F2B UniRef90_F5H6U6 UniRef90_M4AEW5 UniRef90_E9BZM8

130 140 150 160

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

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

QUERY UniRef90_H9G5E6 UniRef90_F7D162 UniRef90_M4AJM7 UniRef90_E2AK89 UniRef90_Q7PVU9 UniRef90_D2A5R8 UniRef90_J9JL18 UniRef90_UPI00046D6102 UniRef90_UPI00035982FE UniRef90_T2MDG6 UniRef90_G6D1P6 UniRef90_F2TDQ6 UniRef90_U9U0T5 UniRef90_R9NZ48 UniRef90_M3B6B0 UniRef90_A2R650 UniRef90_G2RAZ1 UniRef90_G2YJP8 UniRef90_M4FKU2 UniRef90_I1CK15 UniRef90_R7Z5M8 UniRef90_F2DPC5 UniRef90_J0XNI5 UniRef90_G0S419 UniRef90_UPI0001FE637B UniRef90_L8GMV9 UniRef90_G1WYV7 UniRef90_L0PC91 UniRef90_E3KSS7 UniRef90_UPI000328F197 UniRef90_J5JGH6 UniRef90_H2N025 UniRef90_A0A058Z9C2 UniRef90_A8Q248 UniRef90_M7WNG7 UniRef90_S4RG01 UniRef90_UPI0004411162 UniRef90_F4PLU3 UniRef90_UPI0003513D55 UniRef90_UPI0001FE537E UniRef90_UPI0003F49BFE UniRef90_Q6FVA6 UniRef90_G7X6H0 UniRef90_Q6BY66 UniRef90_F0ZK45 UniRef90_F4Q1P0 UniRef90_UPI00033186AD UniRef90_W3X0C4 UniRef90_D2VY93 UniRef90_T0KXK3 UniRef90_T0NKV6 UniRef90_Q4REE9 UniRef90_Q54TK8 UniRef90_G3B1Y4 UniRef90_B6HSV4 UniRef90_A0A058ZGB5 UniRef90_C5G885 UniRef90_H8X5L3 UniRef90_F0ZUW1 UniRef90_X8JIE8 UniRef90_K5X8A8 UniRef90_A7TRY3 UniRef90_F2Q1X8 UniRef90_U4KYV7 UniRef90_C5DQI4 UniRef90_V9K9F3 UniRef90_J7S9X6 UniRef90_Q5B8H1 UniRef90_M7LXQ5 UniRef90_G7Y030 UniRef90_G8BUU3 UniRef90_W4K929 UniRef90_J3PKN3 UniRef90_UPI0003F1270C UniRef90_E5R415 UniRef90_R9XCN2 UniRef90_UPI0003C18BBD UniRef90_S3C765 UniRef90_F7W9K0 UniRef90_E7EZM3 UniRef90_G4NDV0 UniRef90_F0X753 UniRef90_T1J9K9 UniRef90_Q4RPN7 UniRef90_I2H4B1 UniRef90_M5ENC4 UniRef90_L8FSG0 UniRef90_UPI00042C5F2B UniRef90_F5H6U6 UniRef90_M4AEW5 UniRef90_E9BZM8

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

QUERY	290	300	310	320
UniRef90_H9G5E6	I	L	Q	V
UniRef90_F7D162	I	L	Q	V
UniRef90_M4AJM7	I	L	Q	V
UniRef90_E2AK89	I	M	V	V
UniRef90_Q7PVU9	I	V	M	M
UniRef90_D2A5R8	I	V	M	M
UniRef90_J9JL18	I	V	M	M
UniRef90_UPI00046D6102	I	M	M	M
UniRef90_UPI00035982FE	I	M	M	M
UniRef90_T2MDG6	I	L	M	V
UniRef90_G6D1P6	I	L	A	V
UniRef90_F2TDQ6	I	L	A	E
UniRef90_U9U0T5	V	A	E	R
UniRef90_R9NZ48	I	A	D	R
UniRef90_M3B6B0	I	A	D	K
UniRef90_A2R650	V	A	D	K
UniRef90_G2RAZ1	V	A	D	K
UniRef90_G2YJP8	V	A	D	K
UniRef90_M4FKU2	V	A	D	K
UniRef90_I1CK15	V	A	E	K
UniRef90_R7Z5M8	V	A	D	K
UniRef90_F2DPC5	I	A	A	K
UniRef90_J0XN15	V	A	M	S
UniRef90_G0S419	V	A	D	K
UniRef90_UPI0001FE637B	T	A	E	A
UniRef90_L8GMV9	F	P	T	K
UniRef90_G1WYV7	V	A	E	R
UniRef90_L0PC91	I	A	D	R
UniRef90_E3KSS7	I	A	D	R
UniRef90_UPI000328F197	I	L	Q	V
UniRef90_J5JGH6	V	A	D	K
UniRef90_H2N025	I	L	Q	V
UniRef90_A0A058Z9C2	T	A	E	C
UniRef90_A8Q248	I	A	Q	E
UniRef90_M7WNG7	I	A	E	R
UniRef90_S4RG01	V	A	A	Q
UniRef90_UPI0004411162	V	A	D	R
UniRef90_F4PLU3	L	C	E	E
UniRef90_UPI0003513D55	V	A	R	E
UniRef90_UPI0001FE537E	V	A	S	H
UniRef90_UPI0003F49BFE	T	A	V	E
UniRef90_Q6FVA6	I	A	Q	H
UniRef90_G7X6H0	I	A	N	K
UniRef90_Q6BY66	V	A	E	K
UniRef90_F0ZK45	V	A	E	E
UniRef90_F4Q1P0	I	A	D	H
UniRef90_UPI00033186AD	I	A	H	Q
UniRef90_W3X0C4	I	A	H	Q
UniRef90_D2VY93	L	A	N	A
UniRef90_T0KXK3	V	A	H	Q
UniRef90_T0NKV6	V	A	R	E
UniRef90_Q4REE9	I	L	Q	V
UniRef90_Q54TK8	V	A	E	E
UniRef90_G3B1Y4	V	A	E	R
UniRef90_B6HSV4	I	A	N	K
UniRef90_A0A058ZGB5	L	A	K	A
UniRef90_C5G885	V	A	S	K
UniRef90_H8X5L3	V	A	E	K
UniRef90_F0ZUW1	I	A	E	H
UniRef90_X8JIE8	V	A	E	K
UniRef90_K5X8A8	V	A	D	R
UniRef90_A7TRY3	I	A	N	H
UniRef90_F2Q1X8	I	A	A	K
UniRef90_U4KYV7	I	A	D	R
UniRef90_C5DQI4	V	A	Q	Y
UniRef90_V9K9F3	V	A	R	E
UniRef90_J7S9X6	V	A	E	H
UniRef90_Q5B8H1	I	A	N	A
UniRef90_M7LXQ5	I	A	H	E
UniRef90_G7Y030	I	A	D	N
UniRef90_G8BUU3	V	A	D	K
UniRef90_W4K929	V	A	D	R
UniRef90_J3PKN3	I	A	H	Q
UniRef90_UPI0003F1270C	V	A	R	E
UniRef90_E5R415	V	A	G	K
UniRef90_R9XCN2	V	A	E	T
UniRef90_UPI0003C18BBD	V	A	H	Q
UniRef90_S3C765	I	A	H	Q
UniRef90_F7W9K0	I	G	S	Q
UniRef90_E7EZM3	V	A	R	K
UniRef90_G4NDV0	I	A	H	Q
UniRef90_F0X753	I	A	H	Q
UniRef90_T1J9K9	V	M	I	V
UniRef90_Q4RPN7	V	A	R	E
UniRef90_I2H4B1	V	A	R	F
UniRef90_M5ENC4	L	G	N	Q
UniRef90_L8FSG0	I	A	N	E
UniRef90_UPI00042C5F2B	I	L	Q	V
UniRef90_F5H6U6	I	A	H	E
UniRef90_M4AEW5	I	A	Q	E
UniRef90_E9BZM8	V	A	E	A

QUERY	L	K	T	E	E	G	N	P	E	V	L	K	R	H	G	K	G	K	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_H9G5E6	L	K	T	E	E	G	N	P	E	V	L	K	R	H	G	K	G	K	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_F7D162	L	K	T	E	E	G	N	P	E	V	L	K	R	H	G	K	G	K	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_M4AJM7	L	K	T	E	E	G	N	P	E	V	L	K	R	H	G	K	G	K	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_E2AK89	L	H	I	E	E	G	N	P	D	F	L	P	G	S	T	E	E	E	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_Q7PVU9	L	H	I	E	E	G	N	P	D	F	L	P	N	T	E	E	E	E	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_D2A5R8	L	H	I	E	E	G	N	P	D	F	L	P	N	T	E	E	E	E	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_J9JL18	L	H	I	E	E	G	N	P	D	F	L	C	T	N	N	S	P	N	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_UPI00046D6102	L	H	I	E	E	G	N	P	D	F	L	P	N	T	E	E	E	E	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_UPI00035982FE	L	K	T	E	E	G	N	P	D	F	L	P	N	T	E	E	E	E	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_T2MDG6	L	R	A	E	E	G	N	P	D	F	L	S	S	S	T	E	E	E	E	L	I	N	F	S	K	R	R	R	M	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_G6D1P6	L	H	I	E	E	G	N	P	D	F	L	S	S	S	T	E	E	E	E	L	I	N	F	S	K	R	R	R	M	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_F2TDQ6	T	F	I	E	E	D	G	N	P	S	L	T	Q	S	H	E	E	E	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_U9U0T5	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_R9NZ48	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_M3B6B0	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_A2R650	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_G2RAZ1	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_G2YJP8	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_M4FKU2	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_I1CK15	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_R7Z5M8	T	F	I	E	E	D	G	N	P	S	L	T	K	K	N	S	R	Q	E	L	I	N	F	S	K	R	R	R	M	K	T	A	E	E	V	I	R	E	I	I	Q	Q	Q	Y	Q	S	V	T
UniRef90_F2DPC5	T	F	L	E	E	G	N	P	S	L	I	P	N	T	S	D	L	F	N	F	A	K	A	R	L	I	S	G	V	I	R	E	M	Q	T	W	Q	Q	T	E	S	V	T					
UniRef90_J0XN15	F	F	Y	E	E	G	N	S	T	F	V	Q	S	E	D	L	T	M	V	S	F	V	K	C	R	R	L	A	S	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T				
UniRef90_G0S419	T	F	I	E	E	D	G	N	P	S	L	I	K	K	T	N	A	G	L	V	N	F	E	K	R	A	K	T	A	E	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T			
UniRef90_UPI0001FE637B	T	F	I	E	E	D	G	N	P	S	L	I	K	K	T	N	A	G	L	V	N	F	E	K	R	A	K	T	A	E	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T			
UniRef90_L8GMV9	I	W	L	E	E	D	G	N	P	S	L	I	K	K	T	N	A	G	L	V	N	F	E	K	R	A	K	T	A	E	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T			
UniRef90_G1WYV7	T	F	I	E	E	D	G	N	P	S	L	I	K	K	T	N	A	G	L	V	N	F	E	K	R	A	K	T	A	E	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T			
UniRef90_L0PC91	T	F	I	E	E	D	G	N	P	S	L	I	K	K	T	N	A	G	L	V	N	F	E	K	R	A	K	T	A	E	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T			
UniRef90_E3KSS7	T	F	I	L	G	D	G	N	P	S	L	I	K	K	T	N	A	G	L	V	N	F	E	K	R	A	K	T	A	E	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T			
UniRef90_UPI000328F197	L	K	T	E	E	G	N	P	E	V	L	K	R	H	G	K	G	K	E	L	I	N	F	S	K	R	R	R	K	V	A	E	E	I	T	G	E	I	I	Q	Q	Q	Y	Q	N	Q	Q	
UniRef90_J5JGH6	T	F	I	E	E	D	G	N	P	S	L	I	K	K	T	N	A	G	L	V	N	F	E	K	R	A	K	T	A	E	E	V	I	R	D	L	Q	Q	M	Y	Q	N	E	V	T			
UniRef90_H2N025	T	F	N	E	E	G	N	A	D	F	L	R	E	G	P	D	R	L	I	N	F	D	K	R	N	R	T	A	T	L	I	R	E	L	Q	R	Y	Q	S	K								
UniRef90_A0A058Z9C2	T	F	I	E	E	D	G	N	P	D	Q	M	Y	S	D	T	R	L	I	N	F	C	R	F	L	I	T	D	V	I	V	E	I	R	R	F	Q	S	T									
UniRef90_A8Q248	T	F	I	L	G	D	G	N	P	D	T	I	R	E	K	P	H	Q	L	I	N	F	Q	K	R	Q	K	A	S	E	L	I	L	M	I	K	L	H	Q	A	T							
UniRef90_M7WNG7	T	F	I	L	G	D	G	N	P	D	T	I	R	E	K	P	H	Q	L	I	N	F	Q	K	R	Q	K	A	S	E	L	I	L	M	I	K	L	H	Q	A	T							
UniRef90_S4RG01	T	F	I	N	D	G	A	E	D	K	L	A	G							K	M	I	N	F	R	K	R	Q	K	A	A	E	V	I	Q	D	I	K	R	W	Q	A	K					
UniRef90_UPI0004411162	T	F	I	E	E	G	N	P	D	K	L	E	N							G	L	I	N	F	E	K	R	R	K	E	F	V	I	A	Q	I	K	L	L	Q	S	A						
UniRef90_F4PLU3	V	M	L	D	T	A	M	K	D	F	L	D	G							E	L	V	N	V	E	K	R	R	L	V	F	N	I	A	D	I	L	T	F	Q	D	K						
UniRef90_UPI0003513D55	T	F	L	D	D	G	N	P	N	F	L	I	G							E	L	V	N	V	E	K	R	R	L	V	F	N	I	A	D	I	L	T	F	Q	D	K						
UniRef90_UPI0001FE537E	T	F	L	D	D	G	N	P	N	F	L	I	G							E	L	V	N	V	E	K	R	R	L	V	F	N	I	A	D	I	L	T	F	Q	D	K						
UniRef90_UPI0003F49BF6	T	F	L	D	D	G	N	P	N	F	L	I	G							E	L	V	N	V	E	K	R	R	L	V	F	N	I	A	D	I	L	T	F	Q	D	K						
UniRef90_Q6FVA6	T	F	V	D	H	G	N	S	D	Y	L	D	G	S	E	T	P	D	I	N	F	F	K	R	S	L	S	A	E	I	L	R	D	I	Q	Q	Y	Q	S	Q								
UniRef90_G7X6H0	T	F	V	D	H	G	N	S	D	Y	L	D	G	S	E	T	P	D	I	N	F	F	K	R	S	L	S	A	E	I	L	R	D	I	Q	Q	Y	Q	S	Q								
UniRef90_Q6BY66	T	F	V	Y	H	G	N	S	D	Y	L	M	N	R	S	R	M	L	N	F	A	K	R	A	K	T	C	E	L	V	I	T	G	I	L	R	F	K	S	T								
UniRef90_Q6ZK45	T	F	V	Y	H	G	N	S	D	Y	L	M	N	R	S	R	M	L	N	F	A	K	R	A	K	T	C	E	L	V	I	T	G	I	L	R	F	K	S	T								
UniRef90_F0ZK45	T	F	V	Y	H	G	N	S	D	Y	L	M	N	R	S	R	M	L	N	F	A	K	R	A	K	T	C	E	L	V	I	T	G	I	L	R	F	K	S	T								
UniRef90_F4Q1P0	T	F	V	E	E	G	S	P	E	T	L	E	G							G	L	I	N	M	K	R	T	Q	L	A	A	V	I	Q	E	I	Q	Q	F	Q	Q	Q						
UniRef90_UPI00033186AD	T	M	L	D	T	A	L	Q	N	D	Y	V	E	E	G					G	L	I	N	F	E	K	R	R	R	E	F	E																

QUERY
UniRef90_H9G5E6
UniRef90_F7D162
UniRef90_M4AJM7
UniRef90_E2AK89
UniRef90_Q7PVU9
UniRef90_D2A5R8
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UniRef90_UPI00046D6102
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UniRef90_F2TDQ6
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UniRef90_R9NZ48
UniRef90_M3B6B0
UniRef90_A2R650
UniRef90_G2RAZ1
UniRef90_G2YJP8
UniRef90_M4FKU2
UniRef90_I1CK15
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D I D P L E M A R Q Q T T I I E S Y T F N R I K P D E C C L N K N W S P E K T H K
D F S V D E V A E Q L T T L L D A E L F S R V R A C C C L L G S V W S Q R D R P G S
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I A V A M F R L N N F N S S L M A I L N S V Y S S A S G V F R L K Y A I G E L D E R E G T
M K H L R K L N N F N S Y L A I V L S A L D S A P V R R L K E W E K Q T S S E G T
I G L A L E L N N F N S Y L A I V L S A L D S A P V R R L K R T W E L V S K K T
V A Q K L Q Q L Q N F N T L M A V V G G L C H S S I S R L K E T S A C V S P H E V
V A Q K L H Q L Q N F N T L M A V I G S G L C H S S I S R L K K D T S A H V S H D S
I A Q E C R Q L K N F S S L R A I V L S A L Q S S S V Y R L K K T W A A V S G R E S
V A Q K L H Q L Q N F N T L M A V I G S G L C H S S I S R L K K E T S S H V P H E I
I A H C C R I L K N F S S L R A I V L S A L Q S N S A I Y R L K K T W A A V P K D R T
V A D L C C R C L K N N F N G V L E I T V S A L N R S A I Y R L K K T W A K V A R E S R A
I A E K C K S L H N N F S S M T S I V A A L S S S I S R L H F T W V H T A R E S R A
V A V E C Q K V R Q N F N G M V E I L S A L Q S N S P I Y R L K R S W G A V S R E P
I A Q R C R E L R N N F S S L R A I L S A L Q S N S P I Y R L K R S W G A V S R E P
V A D K L L K L R N N F S S M T A I L S G L S S S T S I S R L K K T W V L V S P K H L
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V L F E L R H L N N F N S L M A L L K E A L R N S A I S R L K H T W A A V P R K M
V A D T C R C M H N N F N S V L E I T S A L M N S S V Y R L K K V W E K V P K Q T

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

V A Q K L L H L Q N F N T L M A V V G G L S H S S I S R L K E T H S H L S S E S V
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V A D L C C R C L N N F N G V L E I N A A L E G S A P I Y R L K K T W A K V C K Q T
I M K H L R K L N N F N S Y L A I L L S A L D S A P I R R L E W Q K H I T E G
I M K H L R E M C N N F N S Y L A I L L S A I M S T P L A R L E W S K N I K D
V A Q E C R Q L K N F S S L K A I L L S A L Q S N A V I Y R L K R T W A A V S R E S
I M K H L R K L N N F N S Y L A I L L S A L Q S N S P I Y R L K R T W P R Q N L E A Y I
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V P N L I N F I N R S N T V L S Y W V A T E I L S S S N T H H R V S V L K R F I T D
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A P Y V V A F T R R F N H V N F W V Q K E I L N C Q S T L K T R A E V L S H F I K
I G T V I Q T S N R I A D W V A N S V M S S D A P H G Q R A D T V I K H I S
V A N L A V F I G T S D R I A A W V K L S V L T C E S L G K R A R L L E K H W I K
C P S V R A T V T Q F N K V I A G A V I A T V L G A T S P P Q R A R L L E K W I R D
V Y T V R A T I D Q F N A V V Q K V M T S V L P D C R A P D F R A K I I A K W I
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V Y T V K A T I D Q F N A V S Q R V M T S I V P D C R A P D F R A K I I A K W I
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450 460

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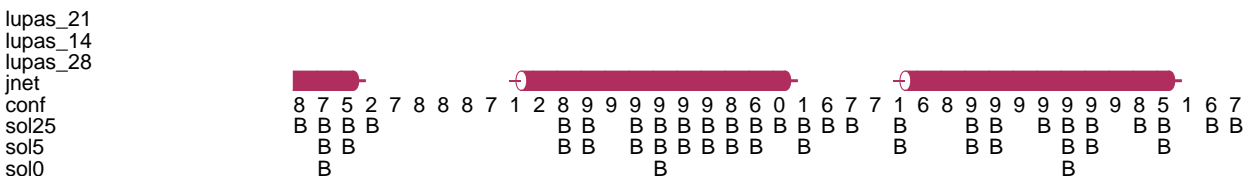
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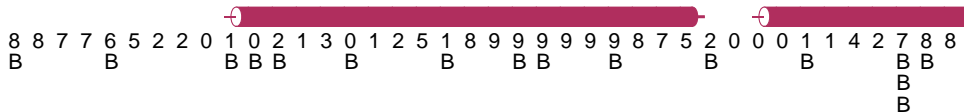
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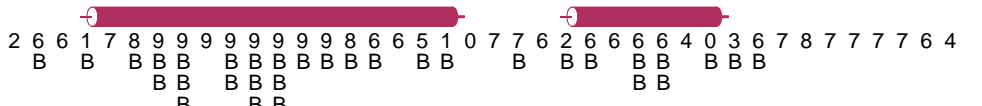
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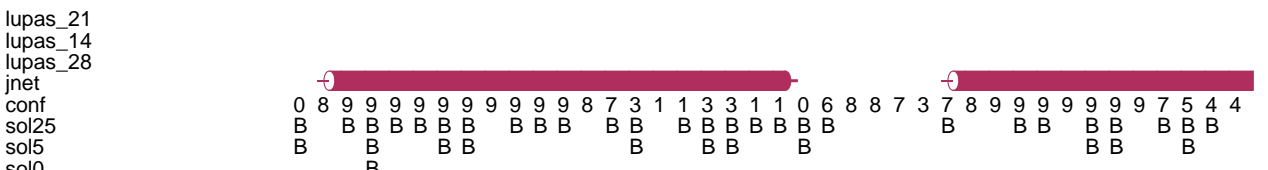
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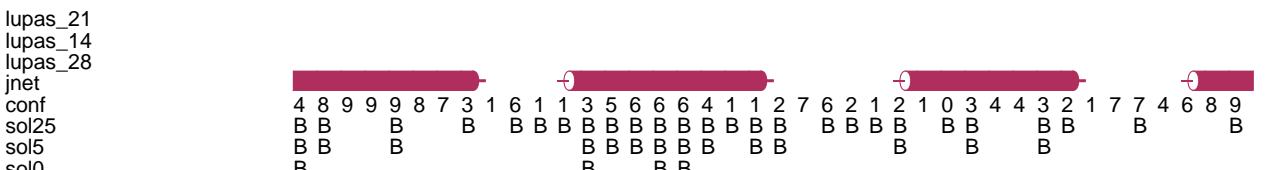
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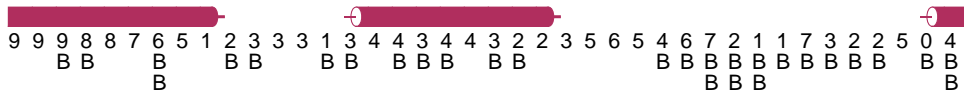


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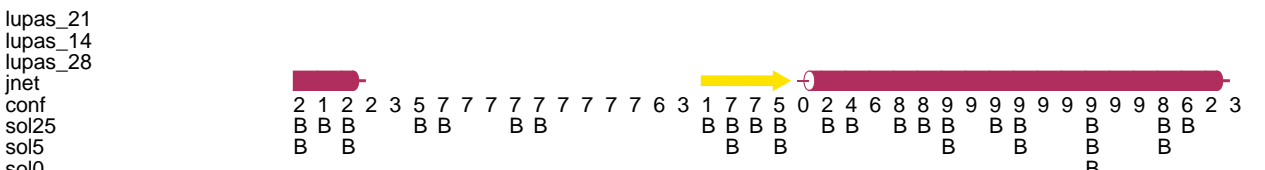
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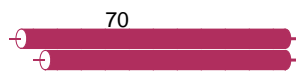


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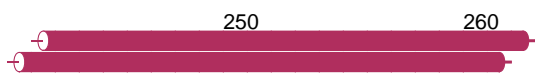
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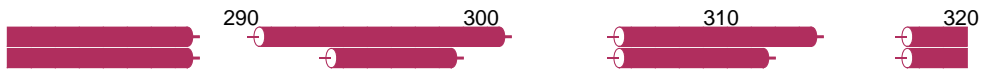
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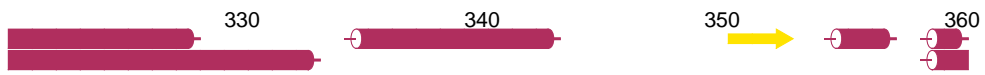
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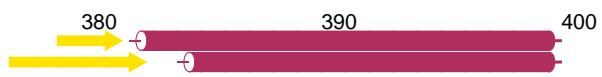








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