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

QUERY UniRef90_Q5JI30 UniRef90_T0BTQ8 UniRef90_F8AF10 UniRef90_Q2RJB8 UniRef90_K9QDK4 UniRef90_I4WZA7 UniRef90_R8AWN1 UniRef90_D4ZAW9 UniRef90_UPI000475312D UniRef90_R11ZH9 UniRef90_F0QZ75 UniRef90_D7JCQ0 UniRef90_G2EH86 UniRef90_S3B091 UniRef90_DOKYD5 UniRef90_A7MFG3 UniRef90_UPI0004751844 UniRef90_A0L3Z7 UniRef90_H1G304 UniRef90_UPI00034D7D40 UniRef90_UPI00041E2F7B UniRef90_B2UCD2 UniRef90_N8Y543 UniRef90_K1L4H6 UniRef90_U2NI39 UniRef90_Q2S9S1 UniRef90_K9XHG9 UniRef90_C7PMI1 UniRef90_A3IQ07 UniRef90_V5E0J8 UniRef90_UPI0003687DD4 UniRef90_E4LAE3 UniRef90_F8IB33 UniRef90_UPI00034BBEEF UniRef90_D0SP02 UniRef90_D9S3F5 UniRef90_UPI0003736C73 UniRef90_UPI00037EE0E6 UniRef90_UPI00030BF4F9 UniRef90_L8JKW5 UniRef90_H1YG61 UniRef90_F4D1M5 UniRef90_S3NSV6 UniRef90_UPI0003816792 UniRef90_K9X5N1 UniRef90_C2G1N8 UniRef90_W4QKR0 UniRef90_Q2JTF1 UniRef90_UPI000365663B UniRef90_D4TM19 UniRef90_F4B2G2 UniRef90_UPI0003789228 UniRef90_U1LP52 UniRef90_K6UIG8 UniRef90_L7W899 UniRef90_UPI000255A53F UniRef90_M4XK47 UniRef90_V7IES3 UniRef90_A6SVK2 UniRef90_V2VS78 UniRef90_F219T1 UniRef90_C6XX16 UniRef90_A1VT13 UniRef90_D4F2Y0 UniRef90_W8RXU6 UniRef90_UPI000365074C UniRef90_G7UWA2 UniRef90_Q13U62 UniRef90_S3Y3H1 UniRef90_UPI000478B388 UniRef90_S5AGY1 UniRef90_R5EFB1 UniRef90_HOPWU7 UniRef90_A2SG70 UniRef90_F4KL40 UniRef90_UPI00047EF5E1 UniRef90_D3IGW9 UniRef90_G0J020 UniRef90_C6VU01 UniRef90_K7TBR9 UniRef90_K2H1V8 UniRef90_F9ZCX4 UniRef90_B8HTW5 UniRef90_R5PRD8 UniRef90_UPI00046CFE1 UniRef90_C4UK07 UniRef90_UPI000475F86E UniRef90_E1T9F4 UniRef90_C5AAY1 UniRef90_T1CQC1 UniRef90_R6EYH8

170 180 190 200

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

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210 220 230 240

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

| QUERY | M | T | E | I | G | R | V | E | E | 290 | G | E | G | V | F | V | D | G | K | K | 300 | V | E | P | K | G | W | K | H | F |
|------------------------|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|
| UniRef90_Q5JI30 | F | T | V | I | G | R | V | R | E | E | G | N | G | V | Y | M | G | R | K | P | L | F | P | L | G | W | E | H | F | |
| UniRef90_T0BTQ8 | I | T | R | I | G | R | V | D | E | D | G | D | G | V | Y | M | D | G | E | V | L | D | P | K | G | W | E | N | H | F |
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| UniRef90_R8AWN1 | A | S | I | V | G | K | V | V | S | E | S | G | I | T | G | I | E | G | S | L | V | A | G | G | Y | D | H | F | F | |
| UniRef90_D4ZAW9 | F | T | Q | V | G | Q | V | T | S | D | K | Q | L | R | L | N | G | E | A | L | T | N | I | G | F | E | H | F | F | |
| UniRef90_UPI000475312D | G | V | E | V | G | V | T | D | T | L | G | I | H | I | T | V | Q | G | K | P | V | D | W | G | G | W | D | H | F | |
| UniRef90_R1ZH9 | V | T | C | I | G | Q | V | R | H | G | E | G | I | T | V | Q | G | K | P | V | D | W | G | G | W | D | H | F | F | |
| UniRef90_F0QZ75 | V | K | V | I | G | Y | I | T | K | P | D | L | L | T | R | D | G | T | E | L | E | A | Q | G | W | N | S | | | |
| UniRef90_D7JQC0 | V | H | I | I | G | H | I | T | K | Q | D | D | V | T | R | D | G | Q | R | I | K | A | Q | G | W | N | S | | | |
| UniRef90_G2EH86 | F | S | V | I | G | Y | M | E | E | S | A | G | I | H | L | V | T | R | P | L | K | A | Q | G | W | K | N | F | | |
| UniRef90_S3B091 | W | R | V | I | G | V | L | A | P | P | R | H | V | T | V | D | G | A | P | W | K | A | G | G | W | D | H | F | | |
| UniRef90_D0KYD5 | A | T | V | I | G | R | I | T | Q | D | K | R | L | R | V | H | D | M | P | V | H | V | Q | G | F | D | H | F | | |
| UniRef90_A7MFG3 | V | T | C | I | G | Q | L | T | E | G | M | V | F | L | R | D | G | A | P | L | D | W | K | G | Y | D | H | F | | |
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| UniRef90_A0L3Z7 | L | V | E | I | G | E | V | V | E | R | P | G | V | V | V | R | G | E | V | L | S | I | A | G | W | T | H | F | | |
| UniRef90_H1G304 | V | T | E | I | G | E | I | E | A | E | S | G | L | R | V | D | R | L | S | L | D | R | G | G | Y | D | H | F | | |
| UniRef90_UPI00034D7D40 | A | T | R | I | G | R | I | V | E | G | A | G | V | R | V | R | G | L | D | G | Q | W | T | G | W | D | H | F | | |
| UniRef90_UPI00041E2F7B | L | W | R | I | G | K | M | E | A | G | P | V | L | L | L | D | G | Q | V | I | E | W | A | G | Y | D | H | F | | |
| UniRef90_B2UCD2 | A | T | R | V | G | R | I | D | A | E | T | G | L | R | L | Q | G | A | P | V | T | H | G | S | F | D | H | F | | |
| UniRef90_N8Y543 | L | T | I | I | G | Q | I | T | Q | A | Q | H | L | V | F | E | D | H | P | L | Q | F | Q | G | Y | Q | H | F | | |
| UniRef90_K1L4H6 | I | H | F | I | G | H | V | T | K | P | E | G | V | T | K | S | G | T | Q | L | K | A | Q | G | W | Q | H | F | | |
| UniRef90_U2NI39 | Y | T | C | I | G | Q | I | S | E | G | M | K | F | Y | R | D | Q | Q | E | V | E | W | S | G | Y | D | H | F | | |
| UniRef90_Q2S9S1 | L | S | R | I | G | E | L | R | K | E | S | G | V | S | M | Q | G | E | E | T | K | G | R | F | D | H | F | | | |
| UniRef90_K9XHG9 | A | A | I | V | G | E | I | T | D | D | S | E | V | Y | L | V | D | Q | T | G | K | K | R | G | F | D | H | F | | |
| UniRef90_C7PMI1 | I | S | V | I | G | Y | I | S | E | G | A | H | I | L | T | K | G | G | K | L | V | S | Q | G | W | N | A | F | | |
| UniRef90_A3IQ07 | V | H | F | I | G | H | V | T | A | E | D | G | K | L | V | G | V | Q | I | K | A | Q | G | W | V | H | F | | | |
| UniRef90_V5E0J8 | H | T | K | I | G | V | I | E | A | L | P | E | D | G | L | R | I | N | K | Q | P | L | E | V | K | S | F | E | H | |
| UniRef90_UPI0003687DD4 | I | H | F | I | G | H | I | T | E | D | S | G | K | F | L | V | T | K | E | L | K | A | Q | G | W | V | H | F | | |
| UniRef90_E4LAE3 | L | T | A | I | G | T | V | K | K | G | L | K | I | L | Y | K | G | K | V | A | A | K | G | Y | D | H | F | | | |
| UniRef90_F8IB33 | A | T | D | I | G | R | V | T | D | E | P | G | I | R | L | G | G | E | V | E | W | D | G | F | D | H | F | | | |
| UniRef90_UPI00034BBEEF | I | H | F | I | G | F | V | N | E | H | A | N | V | T | K | G | G | N | D | I | K | A | Q | G | F | T | H | F | | |
| UniRef90_D0SP02 | F | T | I | I | G | E | I | T | Q | Q | T | G | L | F | V | K | G | E | P | L | H | V | H | G | Y | Q | H | F | | |
| UniRef90_D9SJF5 | L | S | C | V | G | R | I | V | A | G | H | G | C | F | V | D | G | K | L | I | E | G | A | G | Y | D | H | F | | |
| UniRef90_UPI0003736C73 | F | T | V | V | G | H | I | T | E | N | E | G | A | H | L | I | S | R | P | L | T | A | Q | G | W | N | S | F | | |
| UniRef90_UPI00037EE0E6 | C | S | K | I | G | V | I | E | S | Q | P | G | L | R | L | N | K | Q | S | L | Q | V | K | G | F | E | H | F | | |
| UniRef90_UPI00030BF4F9 | A | A | L | I | G | T | I | T | S | N | L | N | V | V | H | D | D | K | K | E | D | R | G | F | Q | H | F | | | |
| UniRef90_L8JKW5 | I | H | F | I | G | Y | V | Q | E | G | N | I | M | V | T | K | G | E | Q | I | T | A | Q | G | W | N | H | F | | |
| UniRef90_H1YG61 | L | S | V | I | G | H | I | T | E | A | S | A | I | T | K | S | G | H | E | L | K | A | Q | G | W | N | A | F | | |
| UniRef90_F4D1M5 | W | T | V | I | G | G | V | T | E | G | D | A | V | L | V | D | G | A | P | H | E | A | A | G | W | D | H | F | | |
| UniRef90_S3NSV6 | L | S | V | I | G | H | I | Q | A | Q | P | G | L | T | L | N | G | K | P | L | Q | L | H | G | Y | Q | H | F | | |
| UniRef90_UPI0003816792 | W | R | R | I | G | A | V | T | A | D | S | G | V | T | V | D | G | E | E | Y | H | G | S | G | W | E | H | F | | |
| UniRef90_K9X5N1 | A | A | I | V | G | T | I | T | P | G | S | T | V | L | H | D | E | H | E | K | S | Q | G | F | D | H | F | | | |
| UniRef90_C2G1N8 | I | T | V | I | G | Y | I | T | E | N | A | G | Y | E | M | I | S | K | P | L | T | A | Q | G | W | N | A | F | | |
| UniRef90_W4QKR0 | L | T | K | I | G | H | V | L | S | G | E | G | V | Y | L | K | E | R | L | E | K | K | G | Y | N | H | F | | | |
| UniRef90_Q2JTF1 | A | A | W | I | G | E | V | T | P | G | G | T | V | R | L | D | G | Q | L | L | S | R | Q | A | F | Q | H | | | |
| UniRef90_UPI000365663B | V | T | R | I | G | E | V | T | A | E | P | G | L | A | V | D | G | Q | P | L | E | R | T | G | Y | D | H | F | | |
| UniRef90_D4TM19 | A | A | L | I | G | E | L | T | S | G | D | Q | V | L | L | Q | S | N | T | Q | E | S | Q | G | F | Q | H | | | |
| UniRef90_F4B2G2 | F | S | L | I | G | H | M | T | E | E | G | I | H | L | I | T | R | P | L | V | A | R | G | W | N | S | | | | |
| UniRef90_UPI0003789228 | A | T | R | I | G | R | I | E | A | D | A | G | L | R | I | V | G | A | T | V | S | Q | R | S | F | D | H | F | | |
| UniRef90_U1LP52 | P | V | C | I | G | Q | V | T | A | S | A | G | L | F | N | A | G | E | P | L | P | R | S | G | Y | Q | H | F | | |
| UniRef90_K6UIG8 | I | S | K | I | G | H | I | T | E | R | L | G | L | T | F | E | D | H | P | F | Q | F | H | G | Y | Q | H | F | | |
| UniRef90_L7W899 | L | S | V | I | G | H | V | V | D | A | S | L | V | T | R | G | G | E | P | I | K | A | M | G | W | N | S | | | |
| UniRef90_UPI000255A53F | L | T | V | I | G | H | M | T | E | A | S | G | M | N | L | T | R | P | L | T | A | Q | G | W | N | S | | | | |
| UniRef90_M4XK47 | A | T | C | I | G | Q | I | R | A | K | E | G | L | T | L | H | N | Q | P | V | T | L | R | G | Y | D | H | F | | |
| UniRef90_V7IES3 | V | A | R | I | G | R | I | N | D | T | G | Y | L | K | L | N | G | S | E | L | H | L | S | G | F | D | H | F | | |
| UniRef90_A6SVK2 | V | T | R | I | G | S | I | D | A | A | P | G | L | R | L | A | G | R | P | L | D | L | T | S | F | D | H | F | | |
| UniRef90_V2VS78 | F | T | I | I | G | C | I | Q | A | D | L | S | L | K | F | E | G | E | P | L | Q | L | S | G | Y | Q | H | F | | |
| UniRef90_F2I9T1 | M | T | I | I | G | Y | M | T | A | S | D | G | I | Y | L | V | D | K | P | L | S | A | Q | G | W | D | H | F | | |
| UniRef90_C6XX16 | I | S | L | I | G | H | I | T | D | N | S | G | C | K | M | L | S | K | E | L | K | A | Q | G | W | N | A | F | | |
| UniRef90_A1VT13 | V | T | R | I | G | R | I | D | A | E | P | G | L | R | L | R | | | | | | | | | | | | | | |

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UniRef90_UPI000377CCE3 S E F D L I A R Y F T R P A P A G L G D D D C A L F P P G G E Q V
UniRef90_D4XJ49 M R N T I G G L G E F A L I A R V T S Q F P T T G P G D D A A V V A S P P D G R T
UniRef90_D7AU96 G E F E L I K R Y F F A P L A K D G L T D D D A A V L K P P D F D R L
UniRef90_B9QV41 G E F D I I K R Y F T A S K R V S I G D D D C A I T E L K N Q R L L
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UniRef90_B8KAA6 M R E L D I I G K I Q Q H L T A Y G I G D D D C A V F S G D N G R W
UniRef90_Q6AKX6 L D E F S L I R L L R T E R N P H D G L G D D D A A V I E T P K G N Q L
UniRef90_UPI000374341C M T L T I G D L G E F G V I E A L R A I P S A R N G D D D A A V L T T P N A R F
UniRef90_E2MTM6 L G E F D I I Q R Y F T A S K R T A I G D D D C A I T E L Q N Q R L L
UniRef90_G7SV64 E F F D L I Q R Y F S R Q A P S G V G D D D A A L L V P A A D H C
UniRef90_E6QQV2 L D E F S L I R R Y F H R R Q G D G P G D D D A A L V P P A G Q Q L
UniRef90_B4WXS9 M R E T D L I R M I R R T G L I Q G V G D D D C A V L R P P N E D L
UniRef90_UPI00036E3956 L T V A D I T G E F E L I A K I A Y G R P Q P G P G D D A A V E A L G G E R
UniRef90_E5XMG9 M R V A D L T E E L L A R I V P E L P G V G P G D D A A V L A A P D G R Y
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UniRef90_Q8K9A5 L S E L G E R K V I E I I H K R L D F K P D F D D S V F V K L P S D Y L
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UniRef90_UPI00036641C5 K L E E L G E F G L I D R I K S Q T S L K G L G D D A A V I D Q G S H Y S
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H S A P E P I F G L A V T G I I N T D K V K K N A S A T A G C K L F L T T K P L G
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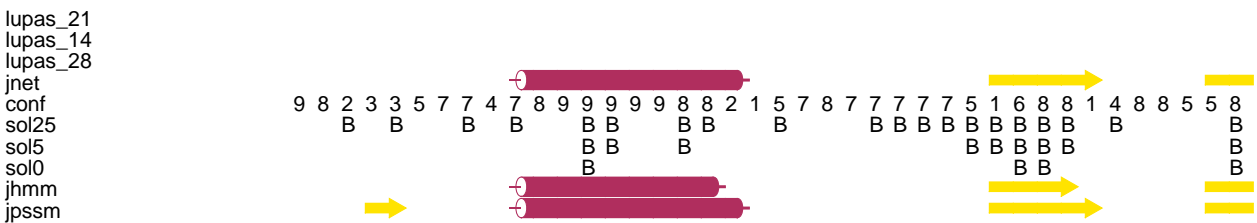
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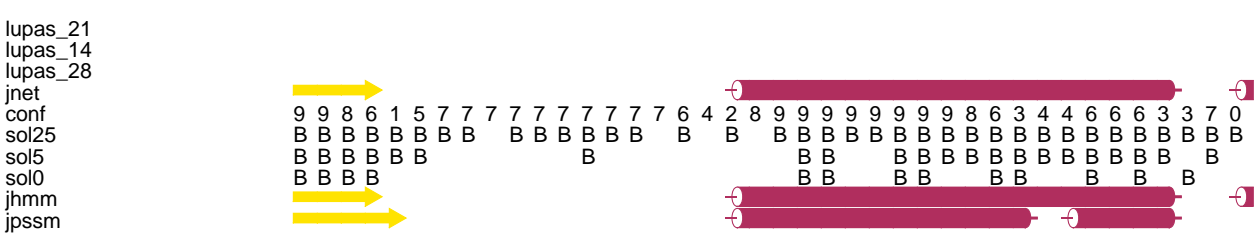
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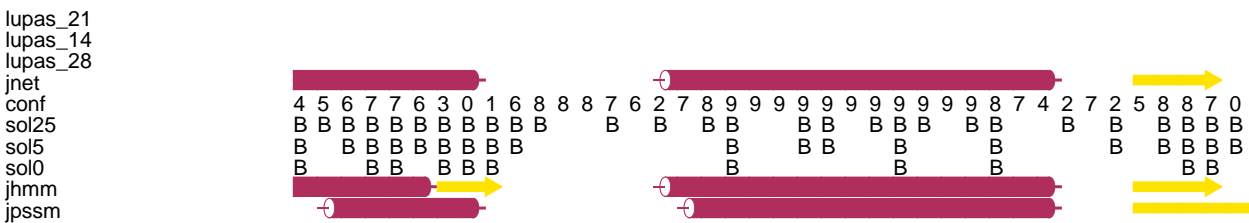
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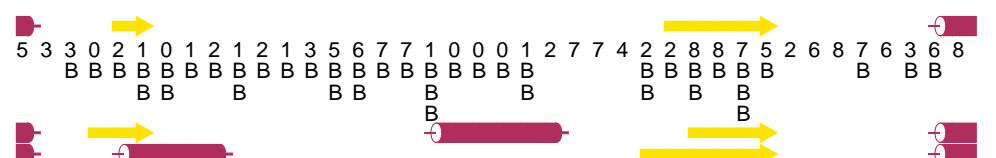


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