



QUERY UniRef90\_UPI0004422EC0 UniRef90\_S4RD74 UniRef90\_G3WDX7 UniRef90\_UPI00020386D1 UniRef90\_UPI0003C101E1 UniRef90\_V9KDD7 UniRef90\_UPI00045761A5 UniRef90\_W5MV12 UniRef90\_UPI000440B924 UniRef90\_O93598 UniRef90\_Q801Y2 UniRef90\_UPI000440FF93 UniRef90\_B5XD08 UniRef90\_W5UKB8 UniRef90\_V8P7D2 UniRef90\_W5L0Q1 UniRef90\_F6T2X3 UniRef90\_X2KK07 UniRef90\_U3IJS4 UniRef90\_E7FBV9 UniRef90\_V9KLO3 UniRef90\_W5ML39 UniRef90\_G3NDX5 UniRef90\_G3PRT0 UniRef90\_H3BID4 UniRef90\_UPI000388C75C UniRef90\_S9Y650 UniRef90\_UPI0004444EC9 UniRef90\_H9KPG7 UniRef90\_W5USX5 UniRef90\_F6PFX1 UniRef90\_S4R517 UniRef90\_UPI000328D833 UniRef90\_UPI00038C60A6 UniRef90\_G3N618 UniRef90\_S4RXL5 UniRef90\_UPI000350B8F2 UniRef90\_I3MQQ8 UniRef90\_UPI0003C25CB4 UniRef90\_T1JJU0 UniRef90\_Q9WVL2 UniRef90\_H3AVI5 UniRef90\_UPI000457245E UniRef90\_H0VS63 UniRef90\_E9NSU3 UniRef90\_B3DLJ2 UniRef90\_UPI00032AE647 UniRef90\_G3VBL5 UniRef90\_E0VNH9 UniRef90\_L7M9Q1 UniRef90\_E9G1W0 UniRef90\_D6WML4 UniRef90\_UPI0003AF6D3C UniRef90\_W4X5N3 UniRef90\_UPI000333CCC UniRef90\_UPI0003F0A017 UniRef90\_UPI00033441AB UniRef90\_T1HR32 UniRef90\_UPI00029DADD6 UniRef90\_A0A023GYK9 UniRef90\_UPI0003991754 UniRef90\_UPI0002A4CA2B UniRef90\_UPI00038710E6 UniRef90\_H3DKH4 UniRef90\_R7V959 UniRef90\_V8P7P9 UniRef90\_UPI00033169B6 UniRef90\_W5L312 UniRef90\_G1RL09 UniRef90\_E2BN16 UniRef90\_C4A0F6 UniRef90\_UPI00046B197F UniRef90\_Q676C6 UniRef90\_H2TWM6 UniRef90\_R7UYT8 UniRef90\_F8J2H6 UniRef90\_H2ZZY6 UniRef90\_UPI000440F8C3 UniRef90\_D0VYJ1 UniRef90\_G1KV19 UniRef90\_Q4RXX3 UniRef90\_H2ZMV2 UniRef90\_UPI0004422DC6 UniRef90\_UPI0001CBA095 UniRef90\_G3QYU4 UniRef90\_A0A023JCN9 UniRef90\_C6ZH44 UniRef90\_W5LH29 UniRef90\_E2AP84 UniRef90\_H2L880 UniRef90\_A1E9A7

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

QUERY UniRef90\_UPI0004422EC0 UniRef90\_S4RD74 UniRef90\_G3WVX7 UniRef90\_UPI00020386D1 UniRef90\_UPI0003C101E1 UniRef90\_V9KDD7 UniRef90\_UPI00045761A5 UniRef90\_W5MV12 UniRef90\_UPI000440B924 UniRef90\_O93598 UniRef90\_Q801Y2 UniRef90\_UPI000440FF93 UniRef90\_B5XD08 UniRef90\_W5UKB8 UniRef90\_V8P7D2 UniRef90\_W5L0Q1 UniRef90\_F6T2X3 UniRef90\_X2KK07 UniRef90\_U3IJS4 UniRef90\_E7FBV9 UniRef90\_V9KL03 UniRef90\_W5ML39 UniRef90\_G3NDX5 UniRef90\_G3PRT0 UniRef90\_H3BID4 UniRef90\_UPI000388C75C UniRef90\_S9Y650 UniRef90\_UPI0004444EC9 UniRef90\_H9KPG7 UniRef90\_W5USX5 UniRef90\_F6PFX1 UniRef90\_S4R517 UniRef90\_UPI000328D833 UniRef90\_UPI00038C60A6 UniRef90\_G3N618 UniRef90\_S4RXL5 UniRef90\_UPI000350B8F2 UniRef90\_I3MQQ8 UniRef90\_UPI0003C25CB4 UniRef90\_T1JJU0 UniRef90\_Q9WVL2 UniRef90\_H3AVI5 UniRef90\_UPI000457245E UniRef90\_H0VS63 UniRef90\_E9NSU3 UniRef90\_B3DLJ2 UniRef90\_UPI00032AE647 UniRef90\_G3VBL5 UniRef90\_E0VNH9 UniRef90\_L7M9Q1 UniRef90\_E9G1W0 UniRef90\_D6WML4 UniRef90\_UPI0003AF6D3C UniRef90\_W4X5N3 UniRef90\_UPI000333CCC UniRef90\_UPI0003F0A017 UniRef90\_UPI00033441AB UniRef90\_T1HR32 UniRef90\_UPI00029DADD6 UniRef90\_A0A023GYK9 UniRef90\_UPI0003991754 UniRef90\_UPI0002A4CA2B UniRef90\_UPI00038710E6 UniRef90\_H3DKH4 UniRef90\_R7V959 UniRef90\_V8P7P9 UniRef90\_UPI00033169B6 UniRef90\_W5L3I2 UniRef90\_G1RL09 UniRef90\_E2BN16 UniRef90\_C4A0F6 UniRef90\_UPI00046B197F UniRef90\_Q676C6 UniRef90\_H2TWM6 UniRef90\_R7UYT8 UniRef90\_F8J2H6 UniRef90\_H2ZZY6 UniRef90\_UPI000440F8C3 UniRef90\_D0VYJ1 UniRef90\_G1KV19 UniRef90\_Q4RXX3 UniRef90\_H2ZMV2 UniRef90\_UPI0004422DC6 UniRef90\_UPI0001CBA095 UniRef90\_G3QYU4 UniRef90\_A0A023JCN9 UniRef90\_C6ZH44 UniRef90\_W5LH29 UniRef90\_E2AP84 UniRef90\_H2L880 UniRef90\_A1E9A7

90 100 110 120  
I H N L K R I R K V L Q G K F H G N P M H V A V V I S N C C C L R E E E R R K I L L A A A  
Q H N L R R K S K R N L H N T F V E D P M Y M A M M I S N N C C L A E E E L K I L L A S A A  
Q H N L R R K S K R N L Q A D N F L E D P L I Q M S M I I S N N C C L A E E E L K I L L A S A A  
V H N L K R I R K M L Q Q G K Y H N N P V H V A V V V S N N C C L R E E E R R R I L L A S A A  
R H N L K R I R K H L Q V V K Y H A N D P L L M A A V I S S N C C L R E E E K K I L L D N A  
Q H N L K R I K Q N L Q V V Q Y L G N P L H M A S V I A A N C C L R E E E Q R R I L L A A V  
R H N L K R I K Q N L Q V V K Y K T N P L H M A G V I A N C C L R E E E R R K I L L A T A  
L H N I R K I K R N L Q Q M F K Q E Y P M Q M A M I I S N N C C L R E E E R R K I L L E T A  
Q H N I R K F K R N L Q N L F Q Q D N P V S M A M I I S R N L R E E E R K I L L A I A  
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Q R N F K R F K Q N F Q N T R Y Q E D P C T L A E I I S W F L R S E K R I L L E D A  
K K L G H Y A T K N T R Y D R E P C M E L V R C I R W H I L Y H E Q R I L V R Q N A  
Q H N L R R R I K Q F L Q S R Y L E C P M E I A R I V A R W C L W K E E S R L L Q T N A  
Q R N F R R Y K Q N F H K Y Q E E P C T L A A I I W W F L L K E K E K R I L L N D A  
K K L G N Y A T Q F L K N T Y D R E P C L E L V R S I K H I L Y H E Q R I L L R E A  
Q R N F R R F K Q N F Q Q G F Q E D P C Y L A K V I Q W F L E K E Q E I L L Q S A  
R H N M K I T Q Q I L Q V K Y T T N P I A M A R V I S T C L C E E R R R I L L S S A  
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K H N L R K S K R N L Q A A N Y Q E C P E Q L A N V I A N L L R E E K A I L L S  
S H N L R K F S R D I L Q A F T R G P T K L A E M I F N L L L E E K R I L L N Q A  
K K L M E A A K N F R Q R Y T H N P A A L F R I I R H C L G T E E M K I L V A Q A V  
H R N F R H F K Q Q F Q R Y Q E D P C A N L A E T I N W F L I K E R E I L V Q A A  
S I P R G D I G G S P P N T Y D R C P M E L V R C I R H I L Y N E E Q R I L L R E A  
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Q H N L R R I K Q F L Q S Y C C  
Q H N F K K Y R Q N I Q A V Y G E D P V Q L A K Y V A A Y L K E E G K I L L A  
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K K L L E A F C S S F K Q N Y S H N P G A L I R V I K N C L A T E M K R I L V Q Q A  
Q R N F R R F K C D I L Q A R Y S A H P Q N L A E I R D I L L Y E K Q I L V S E A  
Q H N L R K F F R D I L Q A P F L Q Q S P T Q L A E M M F N L L L E E E K I L L K Q A  
Q H N L R K F C R D I L Q A F L Q Q D N P T Q L A G I Y N L L L E E K N I L N Q A  
K K L I E T A S N F R T R Y S Q N P H S L L R L I R H C C L D K E M K I L V Q Q S  
R I K L L E A V N T F K Q N Y S H N P Q A L V R V I K S C L A T E M R I I Q Q A  
K I K L Q G A A E M F R Q R Y N Q N P Q A L R I R I R H C C L A T E M R I I Q Q A  
K K L L A E A K M F R Q R Y S S N P M Q L F S Y V S Q C C L A T E M R I V Q A A  
G P D F S R M K D Y L L E H F E G E P L K L A L I L S E C C L K E E K Q I L A S A V  
K M K L I E A S M F R Q R Y S E N P M S L Y K I L R H C C L G T E M K I L V A E A  
Q H N L R K F Y R D I L Q A F P K G P T Q L A E M I F N L L L E E K K I L N R A  
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K M N L V E A A N N F Q Q R Y G N N P L S L L R I I K H C L S T E L K L V Q Q A  
K K L G H Y A T Q F L Q V G V G S G P  
Q H N I R R Y K Q N F Q R Y Q D D P C L L A S N I L W Y L E R E K E I L R N A  
R L C S P L Q N T Y D R C P M E L V R C I R H I L Y H E Q R I L V R E A  
G P D F L W M N N Y L L M H F Q N E P L K M A M I L S E C C L K E E R K I L A S A  
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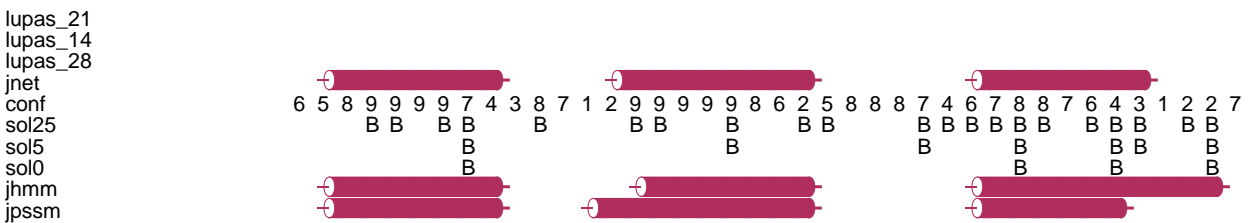
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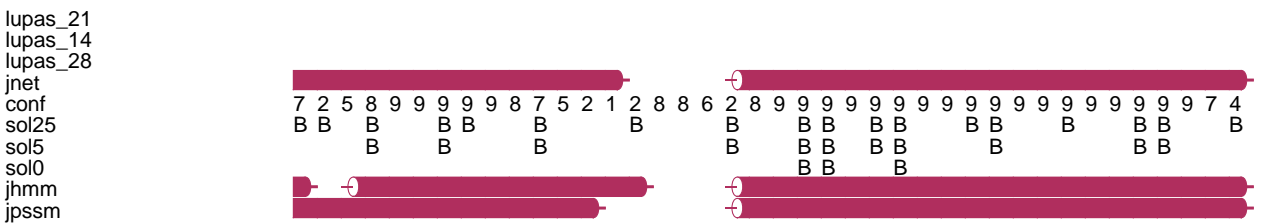
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