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                              1         10                  20                  30                  40
QUERY                     G A M G S H P M C K E H E D E K I N I Y C L T C E V P T C S M C K V F G I H K A
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UniRef90_B5DG11             S K E P M C Q E H E E E K I N I Y C V T C Q M P T C S M C K V F G Q H K D
UniRef90_UPI000333366C     A E Q H L M C E E H E D E K I N I Y C L S C E V P T C S L C K V F G A H K D
UniRef90_UPI0003C26AC2     K T E Q P R C E E H E E E R I N I Y C V T C R V P T C S L C K V F G E H K D
UniRef90_V9KRA4             G K Q L M C E K H E D E K I N I Y C V T C Q T P T C S M C K V F G A H K D
UniRef90_Q6DHS0           K E E V L M C E H Q D E R I N I Y C V T C S V P T C S L C K V F G S H Q T
UniRef90_W5MC35           A T G H P T C V E H E E E K V N I Y C I S C Q V P T C S L C K V F G S H K D
UniRef90_I3KC71               H T T C S D H E G E K V N L Y C L T C Q V P T C S L C K V F G A H Q S
UniRef90_UPI0002A4B875             M C P E H E M E K V N M Y C E V C K R P V C H L C K L G G S H A N
UniRef90_UPI000443D4AE   E K K Q E P M C E E H P D E K I N Y C I T C S T P T C S L C K V F G Q H R D
UniRef90_UPI0003F0D529   P K R K D V Y C P E H D D E L I K M Y C V Q C K T P V C Y L C D R F G G H K G
UniRef90_G1L6Y8             R K F P T C P E H E M E N Y S M Y C V S C R T P V C Y L C L E E G R H G K
UniRef90_UPI000462D1FF   G A A R K P P T C V D H E M E N Y S M Y C A T C R T P V C Y Q C L E E G K H A K
UniRef90_H2T9U8           K E Q M P M C D V H E G E K I N I Y C I T H A V P T C S M C K I F G A H K D
UniRef90_H2YPM3               P S C S H H P T E K T S L Y C L S C H L P L C V L C Q D E G H K N
UniRef90_UPI0003594723   S P R K I S T C T D H E L E N H S M Y C V Q C K S P V C Y Q C L E E G K H S S
UniRef90_W4Z5Y1               M C N D H H G E K I T M Y C E G C H K P I C H R C K F S G A H A D
UniRef90_E7FAU0                 C P E H G E E K V N M Y C I T D E Q L I C S L C K L V G H H R E
UniRef90_U3KBH9                 C L E H E G E R V S M Y C L S C Q L I C A L C K L V G R H R E
UniRef90_C3XZN4               V C A E H E D E R P S L Y C S S H E K A I C A L C K L V G E H K E
UniRef90_K7FGS6         G E Q D D Q S I Q P N S E E E D A D I Y C A T C K F P I R A F D K L F G A H K D
UniRef90_T2M630           K K E N L T C S E H V D E N I S M Y C A L C K T P V C Y L C F D E G R H K G
UniRef90_J9I5X7               V C E E H E S K T N F Y C L S C E I P V C S I C K L G S H K D
UniRef90_H2SID1           A R K P A T C V D H E A E N F S M Y C Y S C A V C V K C L E E G K H A K
UniRef90_UPI0003592E20   G A S G W K E F C L E H Q   E K L S V Y C W T C K Q C I H Q C A L F G T H S G
UniRef90_B7P886           G N A G R D A K C S E H G D E A L S M Y C M V C K A A A C V L C L Q D G R H A N
UniRef90_H2SC82           S P D Q P L R C S I H K T E R V N I Y C L T C G L L T C S L C K V F G A H Q S
UniRef90_UPI0003EABE3A       T C P E H D Q E K L H F Y C K S C Q R L L C P L C K L R R A H A G
UniRef90_W5KYR7           A R V P S T C V E H E A E N Y S A Y C A S C R T P V C Y V C V E D G K H G K
UniRef90_K1QUZ9         G S T P N F P K C S K H S T K Q C E L Y C E Q C D I P I C A L C I S G E H L G
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UniRef90_V9KYN3               M C P E H E T E R V T L Y C R T C H K L L C P L C K L R R T H T A
UniRef90_UPI000333DDBE   E G A R G W R C P E H G D R E V E L F C R R C Q R C V C A L C P V L G A H R G
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UniRef90_V9E5E8               P M C R T H S D K K V E F Y C P V C Q V P V C V T C K M V G D H S
UniRef90_G3Q159         G V G S D V D M C E E H E   E K L K L Y C E D D Q L P I C L V C G M S R D H K T
UniRef90_E4Z235           P K Y T P P S C K I H K S Q K L N I Y C D D C S E L T C T L C K C F G A H L N
UniRef90_F7FL45               T C P E H S R Q P L N I Y C L Q D R E P V C G H C L T I G Q H Q G
UniRef90_K1QZL4         G S T P N Y P I C Q K H S L K H C E L H C E Q C D I P I C V L C V S S K S H E N
UniRef90_K1QYA7         G S T P D Y P I C L K H S A R R C Q L H C V Q C D I P I C V Q C S S S K E H K G
UniRef90_K1RD88               P V C D F H S D Q K C E I F C K E C D V P F C S Q C L S E G S H K N
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UniRef90_F7BVY5               G R S R R C P E H R E R T V E L Y C R V C K V C I C T L C P L L G T H R T
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UniRef90_C3Y769               P I C P K H E D E K M K F Y C E T C K H P I C R D C T V L   Q H K N
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UniRef90_K7H4A5           D Q L R C A T H P T E G L T M Y C I A C K V P V C S R C L Q D L R H A N
UniRef90_UPI00032B0881         E P K R A Q V D M Y C Y T C K S P I S A L D K M K G T H K D
UniRef90_C3Y767             P T C P K H R D E K L K F Y C E T C K H P I C R D C T V L   Q H K A
UniRef90_W5KY11               M C P E H E   E K L K L F C F E D K Q P I C V V C Y T S K K H K N
UniRef90_W5PDM5               T C E K H   G E S V N L M C L S D E E P I C G I C K L F G D H K S
UniRef90_K1Q196         G F T P A Y P K C P Q H S L K Q C E L H C E Q C R N P I C A F C I S S E K H K G
UniRef90_C3Y8D1         G E T K E Q P R C S L H P S E E V K L Y C K Q C N M P V C S E C C E E G   H D G
UniRef90_W5MQK6         P V G S E V L C S L H   R E K L K L F C L N D E E P V C V D C V T L K K H E N
UniRef90_K1RBS4               P S C S H S K K L C E L H C K Q C D I P I C L Q C I S F G E H H G
UniRef90_J9IFY6               L C D E H D G Q T A N L Y C T T C Q L A V C N Y C K L E Q T H K K
UniRef90_I3JAG3                 E H H G E E L K L Y C Q T D K R P I C V V C R E S R S H R H
UniRef90_H9GP23         G V T G S W H I C E E H E   E P L K L F C S Q D E G P V C V I C R D L P Q H Q G
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UniRef90_K1Q7N8             P Q C A N H L H Q K C D I Y C K N C D C P I C S K C V V T P E H K Q
UniRef90_W8B1V6         A S Q R E S V C G E H E D T L S M Y C L V C K M P A C P Q C I A E K Q H P G
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UniRef90_C3ZLJ5           K Q P R C S F H P T E E L R L Y C K Q C Q V P V C N E C L D E   T H S D
UniRef90_UPI00046BFC09         C E E H E   E L L K L F C E V D Q T P I C V V C R E S R S H K E
UniRef90_UPI0002C5517E         E P K K S Q I D T Y C Y T C R S P I S A V D Q M F G M H K D
UniRef90_J9IRR3               C D D H E G Q T A T Q Y C I T C Q I P T C S H C K L V   T H S E
UniRef90_V8NGA1               L C E K H Q   E P L K L F C E A D D E P I C V V C R E S R T H K H
UniRef90_F1QN09           K M L M C S E H   D E K L K L F C E T D Q K L V C V I C R D G D K H K G
UniRef90_K1QM28           G S T P N C P K H S T K L C V F Y C E Q C D I P I C T T C A S S E E H S G
UniRef90_K1PQF0           G S S T V C P K H S S K I C E L N C E Q C D I P I C V Q C A S S K E H Q G
UniRef90_K1RHV9           G S T P K C S E H S T K L C E L H C E Q C N I P I C T L C V S T G E H L G
UniRef90_K1PEI6             P K C Q K H S S K I C E H Y C E Q C D I P I C A T C A S S E E H H G
UniRef90_J9TPF5               K E M K T S Q I D T Y C Y T C K S P I S A V D K M L G T H K D
UniRef90_UPI00046C0FD9   K G L M C P E H K E E   V T H Y C K T C Q R L V C Q L C R V R R A H A S
UniRef90_J9IUJ2               I C D E H Q S K T T A K Y C L K C E T P V C I E C E I G T H K D
UniRef90_F7HZG6               M C L E H E D E K V N M Y C V D D Q L I C A L C K L V G R H R D
UniRef90_UPI000462A2CC   A E E K G S I C Q K H Q   E P L K L F C K D H E T P I C V V C D K S K E H K N
UniRef90_UPI0003AF3AFA   S A G S E A L C S L H N E K L K L F C L D H Q Q P V C V I C R D S K A H K D
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UniRef90_A2E3N5             M C Q F H P T Q K V S Y Y C P K C H L A V C V D C K I N G N H S H
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UniRef90_UPI0002233E7D         K E P K K S Q I D T Y C Y T C K S P I A A S D K I S G S H K D
UniRef90_V9KJH7               C P E H Q   K S L E I Y C K D D K V C V C S L C A L V G K H K N
UniRef90_G1TRI6               C Q Q H G D E V L H L Y C D T C S V P I C R E C T M   G R H G G
UniRef90_UPI000462D09F   A K G K E S V C E K H Q   E P L K L F C K D K N P I C E M C D I S R E H L G
UniRef90_K1QNS6               N Y P K C R K H P T K R C E L H C E Q C D N P I C T K C I S S R N H L G
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UniRef90_B5DG11          C E V S P L
UniRef90_UPI000333366C   C E V A P L
UniRef90_UPI0003C26AC2   C E V A P L S
UniRef90_V9KRA4          C E V A P L Q N
UniRef90_Q6DHS0          C E V A P L K S
UniRef90_W5MC35          C Q V A P L
UniRef90_I3KC71          C E V A P L S A
UniRef90_UPI0002A4B875   H K V T S M S S
UniRef90_UPI000443D4AE   C Q V A P L S
UniRef90_UPI0003F0D529   H Q V A E L K T
UniRef90_G1L6Y8          H E M K P L
UniRef90_UPI000462D1FF   H E V K A L
UniRef90_H2T9U8          C E V S P I T S
UniRef90_H2YPM3          H E V K P I
UniRef90_UPI0003594723   H E V K A L
UniRef90_W4Z5Y1          H K V S I I E
UniRef90_E7FAU0          H Q V A S L
UniRef90_U3KBH9          H Q V A S L S
UniRef90_C3XZN4          C E V Q E L K N
UniRef90_K7FGS6          H E V T Q L A N
UniRef90_T2M630          H E S K A L
UniRef90_J9I5X7          H P L I D M K
UniRef90_H2SID1          H D V K P L
UniRef90_UPI0003592E20   H V F K P L D
UniRef90_B7P886          H D V Q P L G S
UniRef90_H2SC82          C Q V A P L S
UniRef90_UPI0003EABE3A   H K I T P V A N
UniRef90_W5KYR7          H D V K P L
UniRef90_K1QUZ9          H K P V D I
UniRef90_D2A382          H D V Q A L
UniRef90_C3ZKR5          H D V K A L
UniRef90_V9KYN3          H K V T P V
UniRef90_UPI000333DDBE   H P V
UniRef90_M4AV95          H P I D D L Q A
UniRef90_V9E5E8
UniRef90_G3Q159          H N V I P I T
UniRef90_E4Z235          C R V T
UniRef90_F7FL45          H P I E D L H S
UniRef90_K1QZL4          H E
UniRef90_K1QYA7          H T F V D I
UniRef90_K1RD88          H D I T G I
UniRef90_UPI00038EECCA   H P V T
UniRef90_F7BVY5          H P V T L I
UniRef90_K1P132          H K L V D I
UniRef90_C3Y769          H
UniRef90_C3XXT7          H D L K R I E
UniRef90_K7H4A5          H D V Q S L
UniRef90_UPI00032B0881   H E V S T L D T
UniRef90_C3Y767          H K Y G Y L E
UniRef90_W5KY11          H Q C A P L
UniRef90_W5PDM5          H P V A K I S
UniRef90_K1Q196          H K L V D I
UniRef90_C3Y8D1          H Q T K G L K
UniRef90_W5MQK6          H K F R P V Q
UniRef90_K1RBS4          H E L V E I
UniRef90_J9IFY6          H Q L V N L K
UniRef90_I3JAG3          H D V A P V
UniRef90_H9GP23          H N F L P I K N
UniRef90_UPI000273A07C   H P V
UniRef90_UPI000359EC46   H E I S
UniRef90_C3YHI2          H R T T T I K
UniRef90_F4NZ91          G E A A
UniRef90_K1Q7N8          H E M I D I
UniRef90_W8B1V6          H E V Q S I S
UniRef90_R0L721          H E V A Q L S N
UniRef90_C3ZLJ5          H S T I T I K
UniRef90_UPI00046BFC09   H S V V P I E
UniRef90_UPI0002C5517E   H E V A T L D T
UniRef90_J9IRR3          H S L I D L K
UniRef90_V8NGA1          H S V M P L E
UniRef90_F1QN09          H V F K P V K
UniRef90_K1QM28          H K F I E I S
UniRef90_K1PQF0          H E F V
UniRef90_K1RHV9          H K L V D
UniRef90_K1PEI6          H K F I D I T
UniRef90_J9TPF5          H E I S T L D T
UniRef90_UPI00046C0FD9   H K V T P V L S
UniRef90_J9IUJ2          H N I I D L K
UniRef90_F7HZG6          H Q
UniRef90_UPI000462A2CC   H K V I P L D
UniRef90_UPI0003AF3AFA   H R F N P
UniRef90_UPI0003C45FC2   H E V K A L
UniRef90_Q4R1Q4          H R V T T M S S
UniRef90_A2E3N5          G D F A
UniRef90_K1PPA2          H D V V D I
UniRef90_UPI0002233E7D   H E V S S L D T
UniRef90_V9KJH7          H N C S S I S
UniRef90_G1TRI6          H S F I Y L Q
UniRef90_UPI000462D09F   H R R T P L G T
UniRef90_K1QNS6          H E Q I D I
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                        1        10        20        30        40
UniRef90_K1Q6Q1                E E K C R D H P T K D I N I F C D K C S V P L C S K C S T M S A H K G
UniRef90_K1PPU0         Q G D I L Y C T T H E H E K C E L Y C E Q C E I P V C L K C L S G K S H K G
UniRef90_A0A024UJF9     A A G E P P V C R L H E S K N V E F Y C A A C A I P V C K M V G D H S A
UniRef90_J9G364                 C E D H E G Q I A N L Y C T D C S I P V C A H C K L D   T H K V
UniRef90_UPI00042BFAB0    A G R E R T C K T H Q   E G L K L F C E E D Q S P I C L I C R E S R A H H G
UniRef90_UPI0003F06FA0          C E M H Q   E K L S V Y C W T C R K C I C H Q C A L W G G H S G
UniRef90_UPI00045DAB30  G P G G Q C D L C T E H   L E P L K L F C Q D D H S P I C V V C D R S R E H R D
UniRef90_K1Q0W4           D Y P T C L K H T K K Q C E L H C E Q C D L P I C T H C V S S D V H L G
UniRef90_B0WM08        G L P G K S I M C H I H S Q E K L S L Y C E T C D R L T C R D C Q L V   D H R D
UniRef90_C3ZRG4        G E T A E V P R C N F H P S E K L K L Y C K P C Q I P I C E L C L E E   A H D D
UniRef90_D3BGQ1                 C K T H S D Q I F I L Y C E D C N C L I C S Q C L V S   S H Q T
UniRef90_R0JXY9        G A K G A E E L C A K H   R E A L K L Y C K D D R R T I C V V C D R S R E H R P
UniRef90_F7DZY3           E T T Q K E S N K S Q I D A F C Y T C K C P I P A A D K V V G I H K D
UniRef90_H2M8N3        K P R N S V C K Q H C S H P L N I F C A T D S K L I C G I C A T S G D H K G
UniRef90_UPI0003D0B06D  S A G V E M M C E K H Q   E A L K L F C Q E D Q T P I C L I C R E S R I H R S
UniRef90_UPI0003C1946F  A A G K P L S C P N H D G S V M E F Y C Q S C E T A M C Q E C   T G G E H A E
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UniRef90_UPI0004573251          C E E H Q   E K L K L F C E T D Q R A I C V V C A M S H D H K D
UniRef90_K1PRB8            N Y P K C R K H P T K Q C E L H C E Q C D I P V C A Q C   I S G E H L G
UniRef90_K1PPD9                 C K I H P T K H I D L L C E E C Q I P I C S K C T G T K E H R G
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UniRef90_G4VDE0                 C K D H P G E T V R F Y C E A C S M C I C V L C   T F N A H R E
UniRef90_F1PEK8        S P R S L P Q C E R H M K Q V Q L L F C E D D R E P I C L I C S L S Q E H R G
UniRef90_K7FI33          G G E R V C E K H Q   E P L K L Y C E E D Q T P I C I V C D R A R D H R A
UniRef90_Q5EVY2                 L C E K H Q   E P L K L F C E V D E Q A I C V V C D R S R S H K H
UniRef90_UPI0004547CCF          C E K H   R E P L K L Y C E Q D Q M P I C V V C D R S R E H R H
UniRef90_K7F9F0        A P E G Q P G C E R H Q   E A L K L F C Q E D Q V P I C V I C R E S R A H Q A
UniRef90_K1R0D9                 C Q K H F S K I C E L Y C E Q C V P I C V Q C V S S K E H S G
UniRef90_U5ETD4          D Q D Q C L T H K   E K L S V F C W T C K C C I C H Q C A L W G T H S G
UniRef90_I3IU12                 L C P H H   G E K L K L Y C L S D K V P I C V V C H T S R K H K Q
UniRef90_K1QTS8        G S T T K C P N H S S K I C E N Y C E Q C D I P I C A Q C I S S T K H Q G
UniRef90_V9KRX2                 C D E H Q E E   L K L F C E T D K K L I C V M C H F E G Q H K S
UniRef90_T1FUK2                 C A E H Q R E N V R F Y C E T C D S C V C I M C   T F Y E H K T
UniRef90_UPI0002038D0E    G Q R L C Q K H Q   E P L K L F C E K D E M P V C V I C R E S R A H K A
UniRef90_K1PEM3              P E C D T H K K N R C E M Y C R E C C K P T C A L C   V T T T H K K
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- UniRef90_C3YX29
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UniRef90_C3YX29          H
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UniRef90_K1Q799          H T F E D L E T
UniRef90_J9I331          H E L T Q L E
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UniRef90_UPI0003F05F49   H T V I D I
UniRef90_H9FF56          H P V
UniRef90_UPI0003347226   H R V L P I Q
UniRef90_UPI00042C4CAE   H S V V P M E
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UniRef90_C3ZJ63          H N T I T L K
UniRef90_K1PXW7          H S F T D L E T
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UniRef90_H2ZU09           SKPVCSQHKKELELYCVEDQEAICVMCVILKKHKN
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UniRef90_W7XES6          H N I I P L K N
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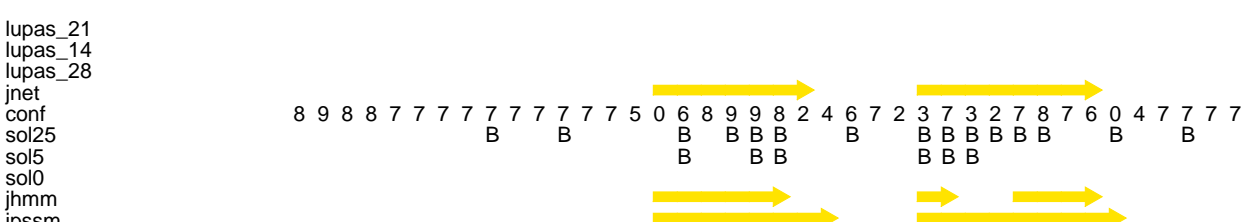
Multiple sequence alignment (position ruler: 1, 10, 20, 30, 40)

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UniRef90_K1PNJ5                      C M V H S G E I L D F H C K E C D V P L C S K C L T K P S H Q G
UniRef90_H2U6M2        S S G P E L L C N L H   N E K L K L F C L E H Q Q P V C L I C R D S K R H S S
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UniRef90_K7GAL8          T G K P I L C P S H P S E E L T L F C E Q C D Q P V C R D C   V V G Q H R Q
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