

1 10 20 30 40
QUERY MNRREEMTLLGFELVAYAGDARSKLLEALKAANE GDFAKAD
UniRef90_W7AYT5 MDT EENLEQTIIMG LLI VNGS GNDAKSNAMLLAI QAAKE NGNFEEAD
UniRef90_UPI0002F13430 MTKEEENLYDJISFHLIMAYHSGNDAKSKLAMQAL KGE DAEKVGNFFLEAD
UniRef90_A0A038C3D6 MNRREDVLTLLGFEIIVAYAGDARSKLLEAL KGE DAEKKGKFKLEAD
UniRef90_U2PX37 MNK EEDVVTMI GFEEIIVAYAGDARSKLLEAL KGE DAEKKNNEFFEMAR
UniRef90_C6PVA6 EEELEENLVPFELI LLYAGDARSYSMEAIIRAEAKKNGQYFDEAD
UniRef90_UPI00036E426B QEEELLETITIMG LLI M HSGDARSKSAMEAIIRAEAKKNGQYFDEAD
UniRef90_E5WM42 MDK EELLYQISFQLI L HSGDARSKLAMEAIIRAEAKKAGKGFEEAE
UniRef90_M5PC94 TEELEEQTIIFQLI L HSGDARSKS FAMEAIIRAEAKKAGKGFEEAE
UniRef90_F5SIT4 EEELEETVIFEMI LLYGGNARS CAMEAIIRAEAKKAGKGFVNA
UniRef90_UPI0003FC3737 MTKEEELYEIISFQLV L HSGDARSKS YAMEAIIRKAKRNGKGFEE LAJ
UniRef90_E3BUA5 MDK EQLTL L L G F E I I V A Y A G D A R S K S F L E A L L K D A A K N G E Y F D K A E
UniRef90_B0K274 DLEQLVGFETIIS H A G N A R S N S F E A L L D A A R E N G N F E E A E
UniRef90_F0K640 MNK EELLETITMEIIVAYAGDARSKYLEAL LNAANGGDFYDKAQ
UniRef90_M1ZIH6 DLEMLITIMNLIIN YSGEARS L CAMEGI SYAKKGGDFDKAR
UniRef90_K8E5J8 MGD QENLETITMGLI I NNGGNARSKS DAMEAIIRQA AKKGGDFE LAD
UniRef90_UPI00040BC35C ESEETIVFQVIL NNGGNKSKS CAMEAIIRQA AKKGGDFSEAR
UniRef90_UPI00036B306D ENMTEIIFQVIL L YAGDARSKS CAMEAIIRQA AKKGGDFDEAD
UniRef90_H3NIV5 MEEENETNQVAMVLI I ANSGDARSKFMEAIIRALAKNRYFDDAQ
UniRef90_R1ATV4 NLEETVFSIIL I HSGDARSKAYEAL KAAQEGDFDKAN
UniRef90_UPI000474A003 MNK EELLYNLAFQIIL I H A G N A R S F A M E A I M Q E A K K G N F D E A E
UniRef90_G5JMH8 MNR EETTL L G F E I I V A Y A G D A R S K L L E A L K A A Q S G D Y E K T E
UniRef90_UPI0003B3AA2A DEN NLETITMGLI I N A G N A R S D A M E A I I Q A A K K G D F K V A D
UniRef90_W8A1T6 LEELISFTEIIL I H A G N A R S F A M E A I I S A A K A G D Y F E Q A A
UniRef90_E8SEE2 MNR EEVAMLGFETIIVAYAGDARSKYLEAL LSAAKAVGDFYDKAE
UniRef90_UPI0002EBAF2D DFQEIITIGL I V N A G N A K S K A M E A I I K C A K T G H F N K A E
UniRef90_UPI00046933DC MT VNTNEETIIFQLI L H A G N G R S S A M E A I I Q A A K R G D F F A E G S K
UniRef90_W1SJ15 ENLEETVIFQIIL I H G G N G R S S A M E A I I Q A A R K G D F E G S K
UniRef90_UPI00037EC2E6 DELETETIIFQIIL I H A G N G R S S A M E A I I Q E A K E G N F F E K A D
UniRef90_D4YEA8 MNK EETMI GFETIIVAYAGDARSKLLEAL LSKARNGGDFQTEAD
UniRef90_K0J0D3 KSNITETIIFQIIL I N A G N A R S N A M E A I I S Q A A K S G D F Q T A D
UniRef90_UPI000379CBF9 MDT LENTETITMEIIL I ANGNARSKAMKAIIRQLAQEGKGFDEAK
UniRef90_UPI000475BC51 METITMGLI I N A G N A R S T A M E A I I Y E A K K Q N F E L A F
UniRef90_UPI0004272703 MTKEEELYNLISFQLI L HSGDARSKLSMEGI YKARDGEGFEEARE
UniRef90_UPI0003F9C07B TDTNSQLI AFQLI L HSGDARSKLLEMEAM YKARDGEGFEEARE
UniRef90_G5KXB1 MNS PEYLEEAITMGLI I MYGGGAKGYAVQAL I QAAKQEDFQTEAD
UniRef90_UPI000465C1AD MTKKEELNMI SFETIIVAYS GDARSKLLELAL I EKA KNGDFEE C D
UniRef90_UPI0003B46CDE MDK KEELAMVGFNIIVAYS GDARSKLLELAL I KEVRAGKGFEE NV D
UniRef90_Q04GV9 DEQLQTLVFMGLI I NNGGNARSKS SFEAIIRNAAKKHFFTVAD
UniRef90_UPI000225BDEC EDIQLTISFNIIL I H A G N A R S S A M E A I I S Y A K D Y N F S V A R
UniRef90_R9C4W7 MNT EELYQLISFQLI L HSGDARSKS FAMEAIIRQDAKKKDFHAAK
UniRef90_B5XII2 MNR EETTL L G F E I I V A Y A G D A R S K F L E A L K A A Q E G D Y A K A E
UniRef90_UPI00035D8DD2 DTTETTAFHLI L HSGDARSKSAMEAIIRQFAKQGGFSS EAD
UniRef90_Q5WKC5 LEELISFQLI L HSGDARSKS FAMEGVQLLAKKGGEFAAAH
UniRef90_UPI00036D952C ELENVVMELIIL I H A G E A R S C S M E A I I T A A R K G D W P L A D
UniRef90_N1ZVJ6 MNR EELLETVGFETIIVAFSGDARSKRLEAL LTA AKKGGDYAKAE
UniRef90_H1PXR3 DLEEVAMTIVGNAGEARS LAYEAL LREA KTG NFDKAE
UniRef90_UPI000419CABB EEDTNLQIMNLI I N A G D A K S S A M E A I I Y A A K K K D F V L A E
UniRef90_I4E0V6 MNR EETTL L G F E I I V A Y A G D A R S K L L E A L N A A K K G E F F E Q A E
UniRef90_J1F342 DEKQKETITMGLI I N G G N A K G A F E A I R A A K E G D F E T A D
UniRef90_S0NFN0 MNR EELLETLGFETIIVAYAGDARSYLLDAL I KAAEKKGDFDKAE
UniRef90_E3I9X8 NLEELISFHLI L HSGDARSKLAMEAIIRKAKKGGDFDKAE
UniRef90_W4E3S2 EYVEKITMTLI I ANSGEARS KAMEAIIRQVAKTNDFFIAAK
UniRef90_A0A037Z6X8 MEETILNITYSGEARS SAMEAIIRQA KNGDFDKAR
UniRef90_Q5WKT1 DIT EVSFRIL I H A G N G K G S A M E A I I Q A A K A G S F E Q A D
UniRef90_C5F457 MNEQEQLVITMQLI I M A G G N A K G S S F E A I I K A A K V G D F S T A E
UniRef90_U4TJ30 EDNDNMEAVMGLI I NNGGNARSKSAMEAIIRMAAKKGGDFD TAD
UniRef90_UPI0002F37F1F EGDLELIFCFGLI I SNVGGARS CFINAIIRQA AKKGRDFDEAE
UniRef90_G2SMZ0 ITEEEMQITMGLI I N A G N A K A F A V E A I I T C A K N G D F E G A K
UniRef90_G9WJ4 ENDQDELQVVMGLI I MFGGNARSKSAFEAL LRAAKNTGDFFSQAD
UniRef90_C7N8L7 MTKEDVLTMI GFETIIVAYAGDARSKLMIAL LNKAKNGFEFEAE
UniRef90_UPI000299ED24 MNE DKRMQVVMGLI I M A G G N A K G S S I V A A I Q A A K K G D F Q A A E
UniRef90_S1NCW3 MNK EEMMMLGFETIIVAYAGDARS L L K L I R E V R N G D F Q N V E
UniRef90_A7GUY6 MMTTAEAQIFQLI L HSGDARSKS YAMEAIIRQYAKRNGDFQNAAD
UniRef90_R9C8K6 MTEIIFQIIL I F A G N G R S C A M E A I I Q E A K E G N F E E A D
UniRef90_I7LS20 MDDAQMAVTIMPLI I MYGGGAKSSAV EAIIRAEAKKNGFDEKAD
UniRef90_UPI000368FB9C MAT PSNLEAVMGLI I M HGGDAKGNAVEAIIRCAKKGQDFDQAK
UniRef90_V4QQP3 MTKEEELTMLGFETIIVAYAGDARSKLIEAL LTA AQEGNYDKAE
UniRef90_C5F7H9 EEDQNLETIVMGLI I MNGGNARSKSAFEAL LHA AKAGDFE KAD
UniRef90_U2QXL5 EKLDLEMLAMTLI I GRAGESKSLAYQAL LTA AKKGFEEAE
UniRef90_Q45402 DSENELLSMEVIIL I HSGDARSKS YAMEAIIRTA AKKGGFEFEAR
UniRef90_E3ZM97 DEKMLEISFGLI I GFAGDAKGLAF EAIIRKAEKSGNIDKAD
UniRef90_C9XPU2 MTKEEATMVAFETIIVAYS GDARSKLMAV EKA KAGD LVTAD
UniRef90_R5RGE3 MDDEKRMQVVMGLI I M A G G N A K A H A V E A I I T A A K K G D F T E A E
UniRef90_G2SQS8 MTKDELRSMVGFETIIVAYS GDARSKLLEL LKEMRAGNFDNVA
UniRef90_R7GMQ8 SEELSVTCFEIIT YVGTARS CFINAIIRQA AKKGGDFEQA E
UniRef90_N1ZJ86 EKLDDETFVFIIL I L Y A G N A R S S A M E A I I E L A K A G K F E E A R
UniRef90_H6CD99 MEELIMNLIIL I HSGEVRSSYSMEAIIRQA AKKGGFNKAR
UniRef90_B2TJW1 MNQTQLTETAFQIIL I F A G N G K S S A M E A I I H A A K E G N F A V A D
UniRef90_Q8EMS9 EETITMGLI I A G G N A K S A F T A I I Q A A K A G D F F Q E A T
UniRef90_C5F8F3 MQKENLEAVMGLI I HGGGNARSKNAMEAIIRQEA KDGDFQLAD
UniRef90_R2QU80 MDT L S M D Q V V M E L V N G G H A R S K S M E A I I K A A K K G D F F A K
UniRef90_M1MC53 KNETETIFTLI L HGGGNARSKAMEAIIRQA AKKGGDFDLAR
UniRef90_UPI0004247F8B ELEEIVFGLI I L N A G N A R S N C F D A L I K S A K E G D F K S A E
UniRef90_I3VRK2 NLEELISFQIIL I N G G N A R S L A E S I I N H A K A G E F A L A E
UniRef90_F7Z2B2 DFEVTIFTLI I T Y S G E A R S S M E A I I Q H A K R G S F S K A E
UniRef90_UPI00047BBECB MNQEQLLEAVMGLI I MNSGDARSKSAMEAIIRQA AKKNGDFDLAR
UniRef90_R2PTS3 MNEETTEMI AFQIIL I SNVGM AKS CVM EAIIRYA AKDGGDFKLA E
UniRef90_UPI0004702177 MEDKQLLETITMGLI I M HGGGARS LAMEAIIRAF AKKGGFLNQA E
UniRef90_B4U445 TDEMEDVIMGLI I N A G Q A R S L A Y K A L I K Q A K N G D F S Q A E
UniRef90_C4SAZ9 EEE S M E L I S F G I V A S A G Q A R S L A M E A I I A Q A R E G D I E G A R
UniRef90_B6G825

QUERY S L V V I E A G S C I A E A H S S Q T G M L 60 A R E A A S G G E E K T P Y S V T M M H G Q Q
UniRef90_W7AYT5 K Y L E E A D K E A L L E A H H S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0002F13430 Q K L K D A E N E E F R K A H H N A F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_A0A038C3D6 Q F V L K D A E N E E C L V Q E A H H N A F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_U2PX37 T L V K Q A E E E E L V Q E A H H N A F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_C6PVA6 E L I K K A E E E E L G S R A H H S F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00036E426B E K L K E A D E E A L S R A H H S F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_E5WM42 A K I R E A E E E E F V L J A H R H F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_M5PC94 K K L Q S A D E E E L I K A H R F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_F5SIT4 S K I K E S E E E A L L Q A H K M Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0003FC3737 Q L I A C G D E E C L N K A H S V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_E3BUA5 K W L A N K A S E E E L L E A H H S V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_B0K274 Q L V L E G N D L I T E A H N V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_F0K640 T N I E D A N E K A L A C A H K S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_M1ZIH6 Q K L I D S D K A L V E A H H S S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_K8E5U8 A K L K E A G N A L N E A H H I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00040BC35C R L M E E A K T A L G R K A H Q A F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00036B306D D K F D E G K A S L R J A H Q A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_H3NIV5 E H L E E A D K A E L G M A H K M Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_R1ATV4 A K L S E A D A F N E A H H V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000474A003 S L I A E A D A C L V D A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_G5JMH8 E K L A S A N E F L V K A H H S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0003B3AA2A G K L K E E D A F V T A H H G Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_W8A1T6 Q L I E E G N Q C I V D A H K A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_E8SEE2 T F L I E A E Q Q M S E A H K V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0002EBAF2D E K I I Q A G Q E L N E A H H I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00046933DC D K L K E S A G D A L N E A H H I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_W1SJ15 D L M K E A G E E L A T A H G Y H S R L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00037EC2E6 R L V G E A N E S L V D A H N V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_D4YEA8 Q H I Q E A N E D L R K A H L F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_K0J0D3 Q L I G Q A D E D F L H A H R A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000379CBF9 K Y L E E A T Q A L G E A H K S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000475BC51 E K I A E A D R E F S Q A H R F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0004272703 R K V N E A N V I E L R L A H H S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0003F9C07B H L I Q E A N T S L N L A H K S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_G5KXB1 S L I E Q A N D C L N E A H N S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000465C1AD A Y L A D A D E N L K L A H N S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0003B46CDE Q K L K E A D K F L V D A H H S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_Q04GV9 E K I K E A E Q A F V E A H H V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000225BDEC K K I T E S D T E L S E A H K I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_R9C4W7 E L I A A G S D C L N D A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_B5XII2 G K L Q E A D S E L K E A H R L Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00035D8DD2 E R L E Q A D N E F Y Q A H H A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_Q5WKC5 Q H L T E A K A A R E A H L I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00036D952C E L V E K A N E C I V D A H N S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_N1ZVJ6 E L L K E S R E K S L V A H G M Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_H1PXR3 N K I K E A N V K I A N K A H N S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000419CABB K L V K E A D L C I A D A H N S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_U14E0V6 K K L K T A D E F M A Q A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_J1F342 A L C E E A N T S L K E A H K A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_S0NFN0 Q K I E E A N E E M R K A H R F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_E3I9X8 K M L Q E A S D V L R M A H K I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_W4E3S2 E L I E D A N K Q L G F A H K Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_A0A037Z6X8 E L I E D A G R E L A K A H R F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_Q5WKT1 A K L K E A D S F L S D A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_C5F457 K M L K D A D N A L T D A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_U4TJ30 K M M D E G D Q L F L E G H A H A K I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0002F37F1F A K L K D A D Q A L V E A H N T Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_G2SMZ0 A K L K E A D G F L S Q A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_G9WJ4 K L V K E A E E C L V G A H N S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_C7N8L7 K N I K A A D E A L N Q A H N V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000299ED24 T L L A D A D T S L K Q A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_S1NCW3 E A M G R A K E A I N E A H H F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_A7GUY6 R L I E E S S T E L G K A H G F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_R9C8K6 E R I E A A S K A I V E A H H G Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_I7LS20 E Y L E K A N K A L N V A H H S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI000368FB9C T L C Q A A N T C I V E A H K S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_V4QQP3 E K L K E S D H F L T E A H N V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_C5F7H9 E F M K K A S E E M I K A H E I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_U2QXL5 R L L E Q A G A E L Q A A H G L Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_Q45402 S L M Q E A N K S V I T A H K A F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_E3ZM97 E C I E K S K E S I H K A H K F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_C9XPU2 R L V A E A N E A C L V D A H K A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_R5RGE3 K K L E E A N Q A I V D A H N T Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_G2SQS8 E K L K E A D E N I N L A H Q S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_R7GMQ8 Q M I K Q G D E A F S Q G H D A H A D L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_N1ZJ86 E E L T V S S N E L V A A H K I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_H6CD99 E L I E K A D E M S K A H N V Q Q S Y L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_B2TJW1 D L I K T A S D E L T N A H N F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_Q8EMS9 V Q L K E A D D A L V S A H N A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_C5F8F3 E K I K Q A E E S L V E A H H S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_R2QU80 E K I K E A N E A L N N A H N F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_M1MC53 K K L K E A G D A L N E A H N I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0004247F8B N Y I S K A E E E L K A H N I Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_I3VRK2 Q K I E E A N E A M T I A H R F Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_F7Z2B2 K C I N D A I E K L A L A H E A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI00047BBECB E K L A S A D E A I E A H H A Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_R2PTS3 E K L Q E S K Q F V I E G H K V H A S L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_UPI0004702177 D S L K Q A D E A L V Q A H H S Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_B4U445 E L M G Q S R L A L N E A H L V Q Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_C4SAZ9 K T L E E S R E V G L Q A H D E Q T S L L I Q Q N E E A A G G G E E N D P V S P L L L L V H A Q Q
UniRef90_B6G825

QUERY
 UniRef90_W7AYT5
 UniRef90_UPI0002F13430
 UniRef90_A0A038C3D6
 UniRef90_U2PX37
 UniRef90_C6PVA6
 UniRef90_UPI00036E426B
 UniRef90_E5WM42
 UniRef90_M5PC94
 UniRef90_F5SIT4
 UniRef90_UPI0003FC3737
 UniRef90_E3BUA5
 UniRef90_B0K274
 UniRef90_F0K640
 UniRef90_M1ZIH6
 UniRef90_K8E5U8
 UniRef90_UPI00040BC35C
 UniRef90_UPI00036B306D
 UniRef90_H3NIV5
 UniRef90_R1ATV4
 UniRef90_UPI000474A003
 UniRef90_G5JMH8
 UniRef90_UPI0003B3AA2A
 UniRef90_W8A1T6
 UniRef90_E8SEE2
 UniRef90_UPI0002EBAF2D
 UniRef90_UPI00046933DC
 UniRef90_W1SJ15
 UniRef90_UPI00037EC2E6
 UniRef90_D4YEA8
 UniRef90_K0J0D3
 UniRef90_UPI000379CBF9
 UniRef90_UPI000475BC51
 UniRef90_UPI0004272703
 UniRef90_UPI0003F9C07B
 UniRef90_G5KXB1
 UniRef90_UPI000465C1AD
 UniRef90_UPI0003B46CDE
 UniRef90_Q04GV9
 UniRef90_UPI000225BDEC
 UniRef90_R9C4W7
 UniRef90_B5XII2
 UniRef90_UPI00035D8DD2
 UniRef90_Q5WKC5
 UniRef90_UPI00036D952C
 UniRef90_N1ZVJ6
 UniRef90_H1PXR3
 UniRef90_UPI000419CABB
 UniRef90_I4E0V6
 UniRef90_J1F342
 UniRef90_S0NFN0
 UniRef90_E3I9X8
 UniRef90_W4E3S2
 UniRef90_A0A037Z6X8
 UniRef90_Q5WKT1
 UniRef90_C5F457
 UniRef90_U4TJ30
 UniRef90_UPI0002F37F1F
 UniRef90_G2SMZ0
 UniRef90_G9WJ4
 UniRef90_C7N8L7
 UniRef90_UPI000299ED24
 UniRef90_S1NCW3
 UniRef90_A7GUY6
 UniRef90_R9C8K6
 UniRef90_I7LS20
 UniRef90_UPI000368FB9C
 UniRef90_V4QQP3
 UniRef90_C5F7H9
 UniRef90_U2QXL5
 UniRef90_Q45402
 UniRef90_E3ZM97
 UniRef90_C9XPU2
 UniRef90_R5RGE3
 UniRef90_G2SQS8
 UniRef90_R7GMQ8
 UniRef90_N1ZJ86
 UniRef90_H6CD99
 UniRef90_B2TJW1
 UniRef90_Q8EMS9
 UniRef90_C5F8F3
 UniRef90_R2QU80
 UniRef90_M1MC53
 UniRef90_UPI0004247F8B
 UniRef90_I3VRK2
 UniRef90_F7Z2B2
 UniRef90_UPI00047BBECB
 UniRef90_R2PTS3
 UniRef90_UPI0004702177
 UniRef90_B4U445
 UniRef90_C4SAZ9
 UniRef90_B6G825

90
 V I H H L I
 L H L M T T I L L K D V I H H L I
 D H L M N G I T F K D L A K E L V
 D H L M T S L T V K D L A K E M I
 D H L M T V L V L K D L M H H L I
 D H L M T T I L L K D I I E D F I
 D H L M T A M T V R D L A T E F V
 D H L M N A I T F K D L A V E F I
 D H L M N A L T I K D M A Q E F I
 D H L M N A M T M K D L A S E F V
 D H L M N A I S I K D L A A E F V
 D H L M T A I T L K D M A V E F I
 D H L M T A I L L R D L M K H L I
 D H L M N A I L L A K E L I T E M V
 D H L M T V M L L R D L V K N L I
 D H L M N A I T T R D M A R E F I
 D H L M N A I T F R D L A K E M V
 D H L M T A I T V K D L A S E F V
 D H L M T A L T V K D L A I E F I
 D H L M N A M T V R D F A Q E F I
 D H L M T A I S E K S L I E N M V
 D H L M T T L T I K D F A R E F I
 D H L M T T M V I K D L I N H I V
 D H L M T S I A F N D L A K E V V
 D H L M T S M T V K E M A V E M V
 D H L M T T I L L K D M L K H I I
 D H L M T S L T I Q D L A R E F V
 D H L M N A L T V K E L A T E F I
 D H L M N A M M V R D L A V E M V
 D H L M T A I T V K D L A L E F V
 D H L M T T L L L K E I V T D F I
 D H L M T A I T V R D L A I E M I
 D H L M N A L T V R D L A K E I I
 D H L M T A M T L K D L A G E M V
 D H L M T A M T L K D L A R E I I
 D H L M N T L T T R D L V E E F I
 D H L M T S L T F I D M A K E V V
 D H L M T S L L L K D I I G T L I
 D H L M T T I L L R E L V Q D F I
 D H L M N A I T F R D L A G E F V
 D H L M T A L T V K D L A N E M I
 D H L M T A I T L K E L A L E F I
 D H L M T T I L L Q D L M K H M I
 D H L M N A M T M R E L A S E F V
 D H L M T S M T T K E L L E I F I
 D H L M N A M L Y R D L V E E L I
 D H L M T T L L L R D M M G H M I
 D H L M N S I L A R E L V E E L I
 D H L M T A L T F L D L A K E V I
 D H L M T T L L L K D L M K H F I
 D H I M N A I T F R D L A G E L V
 D H L M T T L L L R D L M K H M I
 D H L M N A M T V I D L A Q E F I
 D H L M N A M T V K D L A A E F I
 D H L M T T M T L K D I A N E L I
 D H L M T S M T V R D L A I E I Y R
 D H V M N A I T F R D L A G E I V
 D H I M N A I T F R D L A G E L V
 D Q L M S A E G F K I L A A E F I
 D H L M N A I T F L D L A K D L V
 D H I M N A I T F R D L A G E L I
 D H L M T T I L L K E L M K H L I
 D H L M T A I A F K D L A K E F V
 D H L M T T I L L R E L A E D F V
 D H L M N A I T V K E L A T E F I
 D H L M T A I T V R D L A I E F I
 D H L M T G I A F V I D L A K E I I
 D H L M T A L T F I D L A K E V V
 D H L M T T M L L Q D M M K H M I
 D H L M N A I T F R D L A G E M V
 D H L M G A I L F K D L V K E F I
 D H L M T A I T V K D L A A E F V
 D T L M T I K T E I N L M K E F I
 D H L M T A M N F Q Q L A A E F I
 D H L M T T L L L K D I V G T L M
 D H L M T G I T F V I D L A K E L V
 D H L M T T I L L L R D V I E D F I
 D Q L M S A E G F R I I A E E F I
 D H L M N A I S I R D M A S E F V
 D H L M T S M T V K S L A V E F I
 D H L M N A M T I K D L A I E F I
 D H L M N A I T F R D L A G E V V
 D H L M T S I A F T D L A K E I I
 D H L M N A M T V R D L A K E M V
 D H L M N A M T V K D L A K E F V
 D H M M S A I L A K D L I T E M I
 D H L M N A M T V I D L A K E I I
 D H L M N A I T I K D L A S E F V
 D H L M T S I T F N D L A K E V V
 D Q L M S A E T I S E L V K E M I
 D H L M T S I T F V I D L A R E L V
 D H L M N A M L A R E L I T E L I
 D H L M T S M L Q D L A E E I A L

100
 E L Y K R G A
 E E L Y R R T S
 E E L Y K R R
 E E L Y Q R
 E E L Y K K L A
 D L Y K K L A
 D L Y K N I
 D L Y E
 E L R Q E I A
 A L Y K K
 D L Y K
 N L Y K K
 D L Y E
 D L Y K K M
 D L Y E H L S
 E E L Y K N I
 D L Y Q R L A
 D L Y K R L A
 D L H K
 E L Y K R
 D V Y R K I L A
 E L Y Q R L L
 E L Y K R G S
 D L Y K K
 D L Y E R I
 E L Y R R I
 E L Y K N
 E L Y R R
 E L Y R R L L
 E L Y K R I
 E L Y K R L A
 D V Y R K
 D L Y K L A
 D M Y E K M
 E L R E E F
 E L Y K R G A
 D L Y R K M
 E L H E K F A
 Y L H R E V S
 E L Y K R
 D L Y K R
 D V Y K T I
 E L Y K K E A
 D V Y R K L A
 E L Y K R G S
 E L Y K K L
 E L Y K K L
 N L Y Q
 D L Y K K L
 D V Y E R L
 D V Y K K
 D V Y K Q L A
 D L Y K R L S
 D L Y K K L L
 E A L L
 K I Y K K L L
 D V Y E R L
 D V Y K K
 T L Y R
 D V Y K Q L A
 D L Y E R I A
 D V Y E K F
 D I Y R N
 T V Y Q R M A
 D V Y K K I S
 S M Y E E F
 D M Y E R
 D L Y K
 E L Y K K
 D L Y K N V A
 D L Y Q R L A
 D M Y K
 S I Y E R L L
 E L H Q K L L
 A L H E R I A

UniRef90_UPI000374B886 1 D V E M I A M T L I G Y A G E T K S L A Y Q A M S V A K E G K F D E A E 40
UniRef90_F3Y9S7 E K T N N L E V A M H L I V Y G G N A K S D A M E A I T S A A K K E G D F F E L A D
UniRef90_S6EYV9 N E E S L M E V I S F G L I L A N A G N A K S G L A F D A I T S K A R E G K F F E G A K
UniRef90_D6XVV9 T E Q S L E E I S F Q I I L H A G N A R S D A M E G M A F A R E G K F T Q A H
UniRef90_M3JGZ5 M K K N E L Q M L G F E I V A Y S G D A R S T L L Q L L K E A R S G N F F D N V E
UniRef90_G9WHP8 D E L E N Q T V T M S L I I N G G N A K S S A F Q A I H A A K R D D G H F T R A D
UniRef90_B6GBJ6 D E G M E M F S F G L I I A A G N A R S L A F E A L H A A R E G D F D T R A D
UniRef90_D0GNL3 M N Q E D V E T V A M T L I G H A G E S K S L A Y Q A L L N E A K K G N F F E A A Q
UniRef90_S0NPQ6 M N Q E D Q L Q E E I M G L I I Y A G N A R S D A M E A I Y A A K K G N F F E L A E
UniRef90_D4VY33 M D E Q E N M E A V M G L I M Y G G N A K S D A M E A I Y A A K K G D F F E L A D
UniRef90_G4L8X7 M D E Q E N M E A V M G L I M Y G G N A K S D A M E A I Y A A K K G D F F E L A D
UniRef90_U4WMP9 E T T D V A F H I L H G G N A K S F A M E A I A A A K R G E M E E A R
UniRef90_R9LMD9 M T K D E L T M T G F E I V A Y S G D A R S T L L Q L L K E V R S G N F D N V D
UniRef90_B5E7L2 M D E S N L E S V M G L I M Y G G E A K S N A M E A I Q E A K K G D F F S K A N
UniRef90_UPI0003B4FC61 E A L T E T A F Q I I L Y A G N D A K S N A M E A I Q E A K K G N F D R A E
UniRef90_T4VDF9 N E K I F E I S F G I I L H A G D A K S T A Y E A L Q E A K L G N F E K A R
UniRef90_UPI000368F576 M T E P A N L E A V M G L I M H G G D A K S K A V E A I R K A K T G A F S E A H
UniRef90_B1BTG9 M E N Q K N L E V I M N L I A Y A G N A R S N A I E A I Q A A K K G G F F E L A N
UniRef90_R2XNJ5 T R E E V S M I G F A I V A H A G D A R S T L L E A M D C A K K G D F F E Q A R
UniRef90_UPI00034B62E5 E E E L E M L S F G L I G S A G Q A R S L A F S A L L K A A R A G D F F E H A D
UniRef90_UPI000373B4AE M T N E E M E M T T V E L I A Y A G D A R S K Y I G A L L T A A N N A D Y E K A T
UniRef90_U6BCW7 N E Q T M E Q I A F T M I L H S G N A R S T I R E A I L E V Y K D G T F E D F D
UniRef90_W4EP85 M Q E T D L L Q S I M G L I L H S G N V K S D C M E A L Q L A K Q G N V S A K
UniRef90_W9AE32 E E I S F H I L Y G G N A R S C A M E A M R F A K A D A D F F I S A S
UniRef90_UPI0003FE4FF7 T T E D V Q M L S F Q I I L H A G N A R S H A M E A I R F A K A Y Q D F F E A R
UniRef90_UPI00047C9C65 M M T E E L Q L S F T M I L H A G N A R S A A M E S I I Q A A K K G D L S L A Q
UniRef90_D7UU61 E M E E L E Q T I M Q L I L Y G G N A R S D A M L A I E A A K K G D L K T A D
UniRef90_W0GLS7 M N I D E K L L I M Q L I M Y S G D A K G H G M R A I Q Q V S A K E G C F D E A D
UniRef90_UPI0003195456 E Q T I T E I A F Q I I L Y A G N G K S S A M E A I Q E A K E G N F D A A D
UniRef90_H5V7L7 D D L E T L T M E L V N A G A A R S S A L S A L Q L A R K S D F S G A E
UniRef90_U5LBP9 I E E T I F Q I I L H G G N G K S S A M E A I A A A K K S G D P G A R
UniRef90_E7MQ20 M T Q D E E Y D I A F G V I L H A G N A R Q L F I E A I R E A R K S D F E K A N
UniRef90_I7L491 M Q D E A R M Q V V M G L I M A H A G N A R S Q A F Q A I Q L A K S G D F F E G A Q
UniRef90_D6S529 N S E E V A T L G F S I V A Y A G D A R S D L V E A L K S A K N G N F D E A R
UniRef90_E1L298 M Q T E E M E S T V M M L I L H A G E A R S A A M Q A L E E A K Q G H F D K A K
UniRef90_UPI00036A94D4 T I E E I Q M L S F T I I L H A G N A R S S S M E A I A A A R E A N W Q A D
UniRef90_UPI000471F0F0 E E Q Q L L Q A M G L I S N A G N A K S L A M E A V A A A K K N D F A L A G
UniRef90_U2NGQ8 E L E Q V I M N L I I N S G D A K G Y S E A L N A V N E G N Y E E A D
UniRef90_UPI0003798DEE E E Y Q E I I M G M I T N A G V A K S K A M E A I Q Q L A Q R G D G D L A L
UniRef90_R2Q2X8 M N Q Q T L E T I M G L I I H S G N A K S D A M E A I T A A K A G N F G E A E
UniRef90_S5UV24 T D D E F E E I M S L I I N S G Q A R S I A Y A A L K K A K G D F F E A Q A D
UniRef90_D1AQC7 E M D I E M I A M S L I G H A G E S K S Y S F A Q L R E A K V G N F E A D
UniRef90_S6EHG7 M G E Q T G L E V I M E L I M Y G G D A K S N S M E A I Q A A K T G D F E L A K
UniRef90_H0DFE6 M Q K E D V Q M L G F E I V A Y A G E A R S K F L E A L Q A A K G G D F A G A E
UniRef90_A6CWH4 D L E T I M G L I C N A G E A R S L S M E S I K S A R N G Q F E Q A Q
UniRef90_Q65NS3 D Q Q E Q I V I N L I V N A G S A R S S A I E A I Q Y A K A G D F E K A E
UniRef90_R5QC76 M N R E E A Q M V A F Q L I S Y A G D A F S S F F K A V E K A R N G E F D E A D
UniRef90_A5ZAB7 E E E Q M Q T T M G L I V N A G N A K S F A V E A I K A A K E G D F D K A H
UniRef90_UPI000360DC1E M D R K E L Q L L G F E I V A Y A G D A R S S L L T V L K E V R K G N F D N V E
UniRef90_R2VES7 M N S D E L Q M A F E I I L N S G N A R S I V H E A F D A M R Q G D Y D L A G
UniRef90_UPI0003604C46 S E Q F E M L C F Q V I T F V G T A R T H F I N A I Q S A K A G N F D E A E
UniRef90_UPI00036B9008 D E Q F L E T V M G L I M H G G D A K G K A V E A I A A A K K F D F F E G A E
UniRef90_U2CYI7 E G L E L S C F Q I I S S A G M A K N S F I E A I K E A K K G N F F K A E
UniRef90_F9HG11 M N E D G L M E G I M Q L I M Y G G D A K G K A V E A I R A A K K F D F D V A K
UniRef90_B5QPJ1 D E A Q Q L V V M Q L I M A G G N A K S S A I E A I R A A K A A D F E Q A A
UniRef90_UPI0002D5209F I N E K A F Q I I L Y G G N G R S S A M E A I Q C A K E R N F K E A E
UniRef90_D4W399 M N A E E L E V C F Q I I M Y A G N A R S M A M E S I S L A K E A K F E E A K
UniRef90_H3NP86 N M E E I M G L I V H S G S A R T L S M E A I Q E A K K S N F E R A Y
UniRef90_G2JRV8 M D N K N L E A I M G L I M H G G N A K S N A M E A I Q A A K N G A F E L A E
UniRef90_V5WX09 M V K E E Y Y T V A F N I I S N V G T A K S L V I E A L Y A A K E G E F Q L A E
UniRef90_UPI0003725615 T D N M Q E V F M A L I V N A G D A R S C A F E A I E S A K Q H K F N Q A R
UniRef90_M1ML78 M E T I V M E L I V N S G N A R S R A M E A I R L A K N G N F E K A R
UniRef90_K6TVW5 E N L E Q I A F S L I V H S G D G R S Y A F E A I R A A K E K D F E K A E
UniRef90_K8WT38 T T D E L E E V M G L I I N A G Q A R S L A Y T A L K K A K E G D F V T A K
UniRef90_W7CPI1 N E E L L Q A I M G L I M N S G N V K S D C M E A I Q Q L A K E G K F D E A R
UniRef90_R2RCZ7 M E N Q N L E V I M G L I V H G G N A K S Y A M E A I Q S A K D Q Q F F E A D
UniRef90_V8BZR1 D E K K V Q A I M N L I I Y G G D G K S S V E A I Q A A K E G N F E L A D
UniRef90_UPI00047DF123 D I E Q I V M D I I Y S G E A K G Y L Y E A L S N V K K G Q Y D E I E
UniRef90_L0IP32 D F E Q I I F E I I V H A G N A R S D A F E A L T S A K N G D F E N A Y
UniRef90_UPI00036ED4FC D L E Q I A F Q I I S M V G T A R S S Y I E A I Q A A K Q G D Y A K A E
UniRef90_UPI00041D3029 K I E T L M M E L I V N G G N A R S C A L Q A I A A A R E G K F E L A D
UniRef90_UPI00035CA9D2 M D K E Q V Q L T S F Q I V G Y A G D A F T H F Y D A V E R A R K G S F D A A A
UniRef90_UPI000367B4AB D I E E L Q N L Y M E L I V N A G E A R S C S F E A I G L A K E K F Q E A K
UniRef90_U2U6A6 E D Q D P E M V S F G L I A Q A G A R S M A F E A I K A A K Q G D F H A E
UniRef90_T0NCG4 M N D I E T E Q M I M G L I V N A G N A R S Y S M E A I Q L A K V N K F E A R
UniRef90_G6EUZ0 D L E D A V M T I V N A G H A R S L C F E A L H A A R E G D F E Q A Q
UniRef90_D4GFW4 E L E S T V M E I I V N A G Q A R S L C F E A L H A A R E G D F E Q A Q
UniRef90_V3TU61 E E Q L E S T V M E L I I N A G E S K S C A M E A L Q A A K A G K W D E A D
UniRef90_UPI000373B89F E E Q L E S T V M E L I I N A G E S K S D A M E A I Q A A K A G A G F D E A D
UniRef90_R2SE70 E E Q P I E M V S F E I I A N A G E A R S L A F Q A L D E A K Q G H F D V A D
UniRef90_UPI00036F5BC6 E Q E T L Q A V M G L I M N A G N A R S E A V E A I Q A A K K G E F T V A K
UniRef90_K8Z994 D L E T S V M E L I V H A G S A R S L L S A I Q Q L A R R G E F E A S
UniRef90_A8GCW9 M D M T S E E Q I V M E L I V N S G D A R S K S M E A I R A A K T G D L E L A E
UniRef90_UPI00047A364B E T I M G L I I H G G N A R S D A M E A I H A A K T D F F T L A A
UniRef90_F4BND1 K E N S M E T V M T L I M H G G D A R S S A M E A V Q A A K K G R F F E Q S
UniRef90_A0A011SGN1 M D E S N L E S I M G L I M H G G D A K G K A I E A I K A A K G R N F E L A E
UniRef90_UPI000344F5BA E G L E L I A F E I I S S V G T A R S C Y L E A I N E A K K G N Y E K A E
UniRef90_D4KE99 N V D N V V M E L I V K S G E A K S Q A M E A L S H A R C G D F D K A E
UniRef90_UPI000381B06F Y Q E A V M S L L V N G G N A K S S A M A A L T A A K S N D F E T A K
UniRef90_X0QP27

UniRef90_UPI000374B886
UniRef90_F3Y9S7
UniRef90_S6EYV9
UniRef90_D6XVV9
UniRef90_M3JGZ5
UniRef90_G9WHP8
UniRef90_B6GBJ6
UniRef90_D0GNL3
UniRef90_S0NPQ6
UniRef90_D4VY33
UniRef90_G4L8X7
UniRef90_U4WMP9
UniRef90_R9LMD9
UniRef90_B5E7L2
UniRef90_UPI0003B4FC61
UniRef90_T4VDF9
UniRef90_UPI000368F576
UniRef90_B1BTG9
UniRef90_R2XNJ5
UniRef90_UPI00034B62E5
UniRef90_UPI000373B4AE
UniRef90_U6BCW7
UniRef90_W4EP85
UniRef90_W9AE32
UniRef90_UPI0003FE4FF7
UniRef90_UPI00047C9C65
UniRef90_D7UU61
UniRef90_W0GLS7
UniRef90_UPI0003195456
UniRef90_H5V7L7
UniRef90_U5LBP9
UniRef90_E7MQ20
UniRef90_I7L491
UniRef90_D6S529
UniRef90_E1L298
UniRef90_UPI00036A94D4
UniRef90_UPI000471F0F0
UniRef90_UPI00029A54D6
UniRef90_U2NGQ8
UniRef90_UPI0003798DEE
UniRef90_R2Q2X8
UniRef90_S5UV24
UniRef90_D1AQC7
UniRef90_S6EHG7
UniRef90_HODFE6
UniRef90_A6CWH4
UniRef90_Q65NS3
UniRef90_R5QC6V
UniRef90_A5ZAB7
UniRef90_UPI000360DC1E
UniRef90_R2VES7
UniRef90_UPI0003604C46
UniRef90_N2B7T6
UniRef90_UPI00036B9008
UniRef90_U2CYI7
UniRef90_F9HG11
UniRef90_B5QPJ1
UniRef90_UPI0002D5209F
UniRef90_D4W399
UniRef90_H3NP86
UniRef90_G2JRV8
UniRef90_V5WX09
UniRef90_UPI0003725615
UniRef90_M1ML78
UniRef90_K6TVW5
UniRef90_K8WT38
UniRef90_W7CPI1
UniRef90_R2RCZ7
UniRef90_V8BZR1
UniRef90_UPI00047DF123
UniRef90_L0IP32
UniRef90_UPI00036ED4FC
UniRef90_UPI00041D3029
UniRef90_UPI00035CA9D2
UniRef90_UPI000367B4AB
UniRef90_U2U6A6
UniRef90_T0NCG4
UniRef90_G6EUZ0
UniRef90_D4GFW4
UniRef90_V3TU61
UniRef90_UPI000373B89F
UniRef90_R2SE70
UniRef90_UPI00036F5BC6
UniRef90_K8Z994
UniRef90_A8GCW9
UniRef90_UPI00047A364B
UniRef90_F4BND1
UniRef90_A0A011SGN1
UniRef90_UPI000344F5BA
UniRef90_D4KE99
UniRef90_UPI000381B06F
UniRef90_X0QP27

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

UniRef90_UPI000374B886 D H L M T A I L F K E L A K E F I D I Y K R L A
UniRef90_F3Y9S7 D H L M T A I A F T D L A K E F I E V Y R Q L A
UniRef90_S6EYV9 D H L M N A M N F Q Q L A D E F I S L Y E R L A
UniRef90_D6XVV9 D H L M T A M T V K D L A Q E I V H L H E K K A
UniRef90_M3JGZ5 D H L M T T L L R D L I Q D F I E L Y K N
UniRef90_G9WHP8 D H V M T A I T F R D L A G E I V D L Y K Q I
UniRef90_B6GBJ6 D H L M T S M L A Q E L I E E I V Y L Y K Q M A
UniRef90_D0GNL3 D H L M G A I L F K D L A K E F I D L Y K T T I
UniRef90_S0NPQ6 D H L M T S I T F T D L A K E V I D V Y K R V S
UniRef90_D4Y33 D H L M N A I T V K D L A I E I V D L Y K N
UniRef90_G4L8X7 D H L M T A I A F K D L A T E L I D L Y R R L
UniRef90_U4WMP9 D H L M N A I T V K D L A N E F I D L Y A K I
UniRef90_R9LMD9 D H L M T T I L L R D L I T D M V E L Y K R
UniRef90_B5E7L2 D H L M T S L T F V D L A K E V V E V Y E R F
UniRef90_UPI0003B4FC61 D H L M T S M T V R D L A G E I V E V Y R
UniRef90_T4VDF9 D H L M T T M N F L Q L A K E F V D M Y E
UniRef90_UPI000368F576 D H L M T A L T F I D L A K E V I A L Y E K I A
UniRef90_B1BTG9 D H L M N A I T F T D L A K E F I N M Y D R I A
UniRef90_R2XNJ5 D T L M T T M L F K D Q A E Y F I N S Y E R I
UniRef90_UPI00034B62E5 D H L M T A M L A Q E L I E E L I H L Y R
UniRef90_UPI000373B4AE D H L M T V M L L R D L V K N F I Q L Y K K
UniRef90_U6BCW7 D H L M S T Q T M L D L T T G L I E L M E
UniRef90_W4EP85 D H L M N A I T F K D L A I E I I D L Y D R R L A
UniRef90_W9AE32 D H F M N A M T I T D L A S E L I D V H R R R L A
UniRef90_UPI0003FE4FF7 D H L M T A M T V K D L A V E M I D M Y E K I A
UniRef90_UPI00047C9C65 D H L M T A M T V R D L A S E M V E L Y T R L
UniRef90_D7UU61 D H L M N A I T F K D L A K E I V E L Y R
UniRef90_W0GLS7 D H L M N A I T F L D L A R E M I D L Y K K L
UniRef90_UPI0003195456 D H L M T S M T V R D L A I E T I E I Y R N
UniRef90_H5V7L7 D H L M N A M V I Q D L A G D L I E L Y R R L
UniRef90_U5LBP9 D H L M N A I T L K D M A G E F V D L Y E
UniRef90_E7MQ20 D H L T M A L T T K E L A Q E M I D N F K
UniRef90_I7L491 D H L M N G I T F R D L A V E I I A L Y R K L A
UniRef90_D6S529 D T L M T T M L L K D Q M D T I L D L Y E R
UniRef90_E1L298 D H L M T S I L A K E L I E Q M I E L Y K R L L
UniRef90_UPI00036A94D4 D H L M N A M L L R D L V E E L I Y L H R Q L
UniRef90_UPI000471F0F0 D H L M T A M T V K E L A N E M I D M Y E R M
UniRef90_UPI00029A54D6 D H L M T A I T F I D L A K E L I D V Y Q K L A
UniRef90_U2NGQ8 D H L M T T I T E K N L I E Q I M E L R K
UniRef90_UPI0003798DEE D H L M S A I T T K D L A G H I V D L Y N R L
UniRef90_R2Q2X8 D H L M T A V T F I D L A K E I I D L Y K R L
UniRef90_S5UV24 D H L M T S M L A R E L V T E L I E L H E K I
UniRef90_D1AQC7 D H L M G S I L F K D M V I E M I D L Y K R
UniRef90_S6EHG7 D H L M T S I A F T D L A K E T I E L Y E R I
UniRef90_H0DFE6 D H L M T T L A I R D L M T H I E L Y Q R
UniRef90_A6CWH4 D H L M T T I Q A I E S A R E T V H L Y Q R L
UniRef90_Q65NS3 D H L M T A I T V K D L A K E M I D L Y Q E L
UniRef90_R5QC6 V D H L M T S L L I D L A Q E F V D V Y K K
UniRef90_A5ZAB7 D H L M T T I M Y E R V D L A K E F I T L Y K
UniRef90_UPI000360DC1E D H L M T A I T F V D L A T N F V D V Y E Q L
UniRef90_R2VES7 D H L M T T I L L R E L I N D F V E L Y K
UniRef90_UPI0003604C46 D H L M T T M T L R E V A L E M L E L Y K K I
UniRef90_N2B7T6 D Q L M S A E N F R I L A K E F I E L Y R K L L
UniRef90_UPI00036B9008 D H L M N A I T F I D M A K E V V E V Y R Q L L
UniRef90_U2CYI7 D Q L M S V E T C K I L A T E L I E T Y E R I L
UniRef90_F9HG11 D H L M N A I T F I D L A K E V I D V Y K K L L A
UniRef90_B5QPJ1 D H V M T A I T F R D L A G E V V D L Y K R L A
UniRef90_UPI0002D5209F D H L M N A I T V K D L A N E M V D L Y K E M
UniRef90_D4W399 D H L M N G M T V L D M A E E F I N L Y E
UniRef90_H3NP86 D H L M N A L T V K D L A K E F I E I Y K
UniRef90_G2JRV8 D H L M T A M T F T D L A K E L I D V Y R K L
UniRef90_V5WX09 D Q L M S V E T I S L L V T E M I E L Y K R L
UniRef90_UPI0003725615 D H L M T A L L A K D L A A E L V S V Y Q E L A
UniRef90_M1ML78 D H L M N A M T I K D M A K E F V D M Y E K F S
UniRef90_K6TVW5 D H L M T G I T V K Q L A E E I I D I R K D I L
UniRef90_K8WT38 D H L M N A M L A R E L I T E L I E L H E K L
UniRef90_W7CPI1 D H L M N A I T V K D L A V E M I E M Y E T F S
UniRef90_R2RCZ7 D H L M T S I A F T D L A E E L V A I Y R K I A
UniRef90_V8BZR1 D H L M T G M M F K D L A K E L V D V Y R T I
UniRef90_UPI00047DF123 D H L M T T I S E R N L I L E M I E L R K A I
UniRef90_L0IP32 D H L M N A I L A R D L I E E M I S L Y K N M
UniRef90_UPI00036ED4FC D Q L M S A E A F K T I A L E F I S V Y Q R L
UniRef90_UPI00041D3029 D H L M N S M T V R D L A N E F I K L Y K K
UniRef90_UPI00035CA9D2 D H L M T T I M F G R M A R E L V E V Y K E L A
UniRef90_UPI000367B4AB D H L M T A L L A R E V S E E F I A V H E E L A
UniRef90_U2U6A6 D H L M T A I L A K E L I A E M V E L Y K K L
UniRef90_T0NCG4 D H L M N A I T V K D L A Q E F I D M Y E R I S
UniRef90_G6EUZ0 D H L M T A I T Y I D L A K E L V A V Y E R I
UniRef90_D4GFV4 D H L M T S M L A R E L A E I F Y L Y Q R
UniRef90_V3TU61 D H L M T A M L A R E L I E E M I V L Y Q R Q S
UniRef90_UPI000373B89F D H I M T A M L A K D M I E E M I D I H R
UniRef90_R2SE70 D H L M T A I A F T D L A K E I I D L Y Q R
UniRef90_UPI00036F5BC6 D H L M T S M L A S E L I K E L I E L Y K N
UniRef90_K8Z994 D H L M T A I T F V D L A K E F V E V Y K R I
UniRef90_A8GCW9 D H L M N A M L I Q D L A T D M I E L Y R R L
UniRef90_UPI00047A364B D H L M N A M T V R D L A K E M I A M Y E E F
UniRef90_F4BND1 D H L M N A I T F R D M A S E V V D V Y K K L A
UniRef90_A0A011SGN1 D H L M N A M T Y R D L A E E L I E L Y E R
UniRef90_UPI000344F5BA D H L M N A I T F I D L A K E V V D V Y R E L
UniRef90_D4KE99 D Q L M S A E G F K L I A Q E F I D V Y R K L
UniRef90_UPI000381B06F D H L M N S M L A Q D L V E E M V R I Y Q R L
UniRef90_X0QP27 D H L M T A I T F R D L A Q E I V D L Y Q R L A

UniRef90_S6BPS0 1 M N S D D I Q L T I A F E I I L H S G N S R T M I H E A F A A M R V G D F D K A D 40
UniRef90_V9H451 ME K I I T M D L I I F S G E A R S S Y A M E A M Q L A K N G Q G F D E A R D
UniRef90_G7MDB3 E G I E L I S F K L I S S V G E A R K N Y I L E A M Q L R E A K K G N T F D E K A D E
UniRef90_V4F8P0 Q L I I M G L I L Y A G D A R K Q H I Y K A L D Y I L K N G T C F E R C E
UniRef90_R2RDK5 M D S E K L Q E A A F E I I L S S G D A R T L V H E G F K S M R E G N Y E E A E E
UniRef90_UPI0004694E8A E A N E M A L I F Q L I S L A G D A R S S L A F E A L R C A A R N K G N F D D K A R D
UniRef90_U2T1J4 Q D N E E L S F G L I A A S G A R S S L A F E A L R K E A R N K G N F D D K A D
UniRef90_U2I000364E258 M G E K K D L D M V M D L I V H S G N A K S S L G M E A I Q V A K K S G N F E Q A K
UniRef90_UPI000395999C D Q E S T V F M E L I L N A G S A K S S F A M E A L R A A K A S D W N A V D
UniRef90_UPI00030E1443 Q I A F Q L I L H S G N A R S S V M E A M Y L A A R E G K F E A E A K
UniRef90_A0A023DKB3 Y E E I V F Q I I L H G G N G R S H A M E A T I A A A K R G D F F A E A R D
UniRef90_W7AV40 E A N E M A L I F Q L I S L A G D A R S S V L E K A I E Q A A N K G N F F E A D
UniRef90_S0KGL4 M N K E D L Q M L G F E I V A Y A G D A R S S L L T L I K E A R V G N F F E N I A
UniRef90_W9AGM6 E T T T E L A F Q I I L F A G N G K S N V M E A I Q E A K K G D F F A E A D
UniRef90_UPI0004236E1D M N S E E Q E I F K L I L H S G N G R S F A M E A I G L A K T N N F E G A Y
UniRef90_I2CBQ9 N E K M E Q T I F Q I I L H G G N G R S A S M E A I A A A K R G D R A M A E
UniRef90_UPI00046ADDD D E Q L E V A M K L I I N G G S A K S S A F E A I H A A K K G Q F T E A D
UniRef90_U2PPR0 D Y Q D I T E Q L I V N G G D A K S S Y A M Q A I K Q A K A G S I E G A R
UniRef90_UPI00041B99F1 M T Q D E A Q A I S L E I I A N A G D A F S N F Y Q A V N S A R E G S F D E A D
UniRef90_U1W6J2 M E E T I M E L L V Q A G S A R S S A L S A L R Y A R Q G D F S Q A T
UniRef90_UPI000468A345 M D K E Q M E L V V F E I V N S A G M A K S M A Y E A L S E A E K G N F E K A E
UniRef90_C9MWS3 M N N Q E Q L E T V M N L I I H S G N A K S D A M E A I Q A A K A G N M S Q A E
UniRef90_S0RZ11 D I E V I A M Q L V G N A G E G R S L A F E A L A H A K N G E F D L A Q
UniRef90_U7V6Y1 E L E E I V F T I S A V G S A R S S Y I E A V Q E A K K G D F F E R A K
UniRef90_A6LS06 E Q H E Y I V F Q I I S A V G S A R S S Y I E A V Q E A K K G D F F E R A K
UniRef90_UPI00047D074D M T E E E L Q L A A F E I I L H S G N A R T S V H E A F A A M K E G K Y D E A K
UniRef90_F0VV46 K Q D L E Q I A F E I V A Y S G D A R S K L L Q A V K E A K K N K N F E V C R
UniRef90_R0ADX4 M T K E E V T M I G F E I V A Y A G E A R S K L L M A I K E A E N S N F E K A E
UniRef90_D1AQN6 T S N D L E E V V M G L I I N S G Q A R S L A Y T A L K K A K A G D F A A A H
UniRef90_F4D7Y2 Q D L E L I A F Q L I S N V G S A R S A F V N A I R A A K A G D F A R A E
UniRef90_UPI00036C023C D V E K L A T I S M Q V I L H A G N A R A S L F K A I D S A S N Y D F K I A D E
UniRef90_UPI0002492400 T E E E L E E I I F S I V A Y A G E A K G C A H Q A L A F A E E G K F F E A E
UniRef90_U7V7G3 T K E E L Q M L G F E I V A Y S G D A R S T I L N L L K E V R G N F E H V D
UniRef90_UPI00046E8CA1 E M I A M T L I A H S G D A R S L A F Q A L Q A A K Q N N F E E A D
UniRef90_UPI00036FEF8A M K E I T M D L I I H S G E A R S Y A M E A I Q L A K A G D V E G A R
UniRef90_H7CZT3 M E N S N L E S I M S L I M Y G G E A K S N A F E A I Q Q K A K K G L F E E A R E
UniRef90_E7GYJ7 M E T Y T D E Q L S F Q L I L H S G N A R S C I I Q S I R A Y K D G R P D E S E
UniRef90_M1KF39 E E S M L T S I L S A G E A K S C A M E A I R A A R N G E W D N V P
UniRef90_UPI0004716AF8 E E N E S I S F S I I A S S G T A R S L A F E A L E K A A K K G D F F E A Q
UniRef90_F1T517 T M K D L E L K S F E I I S N V G T A R S C Y I E A I S H A K K F D F E M A E
UniRef90_G2ICB6 M N D E Q L Q I T M G L I I N A G N A K G E A V E A L K A A K K G D F L L A E
UniRef90_R3WH42 E M I S F G I I A S A G H A R S V A M Q A V S A Y A K E G E F F E K A K
UniRef90_F2N8U6 M E E I I I N L I S C G G E A K S F S M E A I S Y A K E G E F F E K A K
UniRef90_UPI0002897204 T T E E L M M A S F Q I I A V G N A R S L Y I E A I H A A K D G D Y D R A A
UniRef90_R6Z5M2 M T K E E S A L V G L E I V A H A G D A R S N L M R A L S A A K E G D Y D R A E
UniRef90_C4L6E9 E T T V M E L I I Y A G E A R S S S M E A L S A A R K Y D W D K A E
UniRef90_Q6CYS2 M E E V A V K I I L E S G D A R S C A M E A I Q C A K S K D F A K A K
UniRef90_F7NMV2 N M E L I I F N I I N Y G G T A K S L S Y E A L A A A K G D Y D E A D
UniRef90_V6QCR5 Q D M E L I I F E I I S N G G N A K A L V Y E A M E E S E K G N F E E A R
UniRef90_C8NHJ4 D L Q Q I V M E I I I Q S G E A R A Y A H E A L R K A Y D G F F E E A E
UniRef90_F6BHL3 M N K E E V T M L G F E I V A L A G D A R S K M L E A L K L A E G G K F D E A D
UniRef90_UPI000374C1AA M E E I V L K I I I H A G N A K S M L Y E A L D Y A K E N D F K K A D
UniRef90_C9XIQ7 Q D V E L I P F A L I A D A G E A K S L A F M A L N E A K Q G N F K A C D
UniRef90_R6YYE7 M E E I I M N L I L H S G E V R S Y S M E A I Q E A K R G N F E A R
UniRef90_B1R069 M E E Q E N L Q V V M E L I M Y G G D A K S N A M E A I Q A A K D R D F E L A K
UniRef90_V9H6K3 M N Q E E L Q V A A F E I I L H S G N A R S E T H E A F A K M R E G S Y D D A E
UniRef90_B2ISN1 M D K E K L E L I V F D I V N S A G T A K G L A Y E A L G E A E K G N Y E A E
UniRef90_D0GMN6 D S L E E V V M G L I I N S G R A R S L A Y K A L T Y A K E G K F V E A M
UniRef90_I0DWY5 M T K E E V A M L G F E V V A F A G E A R S K L M E A I N A A E L G D F T R S D
UniRef90_S4DFD8 E S I Q E Y I F K L I L H G G N G R S S A M E A I A A A K S G N F S E A R
UniRef90_D5DAY3 E L M A M T L I A N S G D A R S L A F Q A L E E A K V G N F D E A D
UniRef90_F5X2K3 M E E I T M N L I M Y S G E A R S Y A M E A M Q Q A A K D G K F D E A R
UniRef90_N9WIA7 E R D D L A M V S M G V I L H A G N A R E A I F K A V D Q A A Q G K F D E A D
UniRef90_UPI00031D4792 M N D E K L Y E L A F Q I I V H A G E S R S L S S E A M D A A E N F D F D K A E
UniRef90_F0GV89 D D N Y L N V V M G L I I M N A G N A K G L A H E A L E A A K K G D F F E K A D
UniRef90_D8MHX0 M E E Q Q S L E A I M G L I M Y G G N A K S D A M E A I Q A A K K G D F F E L A D
UniRef90_S1NDZ5 D V E Q I A F T I I A H A G E A K S L A F E A L S K A K Q G C F N K A D
UniRef90_H1AQL3 E Q Q L I E L L V H A G S A R S S A L M A L Q Q A K E G S F Q Q A K
UniRef90_W1IV72 T K E E S M T G F S I V A Y A G D A K T S L I E A L Q H A K G E F D K A E
UniRef90_UPI0002197313 E M E T I T F G M I S H V G S A R S S Y L E G L R A A R T G D F T E A E
UniRef90_W7CPM3 D Q E M V V M E L I C N A G E A R S L C Y E A L K L A R N N D F D R A Q
UniRef90_F9S6S9 M N E T S F E L I L H S G N S K S S M E A I E Y A R N G D F Q E A D
UniRef90_R5R471 K E E I N M L G F T I V A Y A G D A R S D L M D A L A F A R D G Y F E Q A R
UniRef90_C1C5K3 D L E T T V M E L I I N A G E S K L A M Q A L A S A K R G E W E D V D
UniRef90_A6AX18 M D K E Q V A N I G F E I V A Y S G D A R T K L L L A L K D A K A G K F D E V D
UniRef90_U2T3N0 E A L E Q L C F E I I S N V G G A R S S Y I E A I D L A R K R E F F E Q A Q
UniRef90_R7G4T7 M T S D E L Q M A A F E I I L N S G N S R T T V H E A F D K M R E G D Y E A A E
UniRef90_G5KID7 E E K N L E T V M Q L I I H S G N A K S Y A M E A I H V V K E G K K E L A F
UniRef90_UPI0003171DFA M N E V D Y Q E T A F Q L I L S A G N A K A M S F K A I N L A K A N K F E A Y
UniRef90_U2EIG8 E G I E L I C F E I I S N V G A A K S D Y I N A I Q K A K E G A Y E E A Q
UniRef90_UPI00046398AF K Q E Q L E A V M G L I I N A G N A K S D A M E A I Q A A K V G D F A L A K
UniRef90_I9NUK0 D K E Q I V F T I I L H A G N A R S Y C F E A L A L A R E G K H T E A S
UniRef90_B9DT73 M E Q K D L E T S M N L I L H A G N A R S S A M E A I S L I K E G K A E E C A
UniRef90_UPI000365F09F D E Y Q E I I M N L I I T N S G V A K S S A M E A I R L A Q N G O A E Q A E
UniRef90_F5SGI2 E E Q M P V A F Q L I L H G G H A R S A A L E A I A F A R K G D A E A A E
UniRef90_F1T446 M E L L E P E Q I T M G L I I N A G D A K Q H S Y Q A L H L A K A G K Y D D A D
UniRef90_R9CH33 E I E L A C F K I I S N V G M A R S S Y I E A I S K A K D G K F D M A E
UniRef90_C4L9U9 D L E E A V M G L I V N A G Q S R S L C F E A L H Q A K Q G Q F V E A D
UniRef90_G2MUW1 E E I V F Q M I L H G G N A R T E A Y E A L K Y A K V G D F E T A Q
UniRef90_D9SSR1 D E L E Q V A F N L I I S N V G M A K S L I M E G L V E A R N S Y E G S E
UniRef90_I4D6N6 N K L D L E Q I I L N L V L H G G N A R G K A Y E A L D A A E E G N F E Q A E

UniRef90_S6BPS0
UniRef90_V9H451
UniRef90_G7MDB3
UniRef90_V4F8P0
UniRef90_R2RDK5
UniRef90_UPI0004694E8A
UniRef90_U2T1J4
UniRef90_UPI000364E258
UniRef90_UPI000395999C
UniRef90_UPI00030E1443
UniRef90_A0A023DKB3
UniRef90_W7AV40
UniRef90_S0KGL4
UniRef90_W9AGM6
UniRef90_UPI0004236E1D
UniRef90_I2CBQ9
UniRef90_UPI00046ADDD
UniRef90_U2PPR0
UniRef90_UPI00041B99F1
UniRef90_U1W6J2
UniRef90_UPI000468A345
UniRef90_C9MWS3
UniRef90_S0RZ11
UniRef90_U7V6Y1
UniRef90_A6LS06
UniRef90_UPI00047D074D
UniRef90_F0VV46
UniRef90_R0ADX4
UniRef90_D1AQN6
UniRef90_F4D7Y2
UniRef90_UPI00036C023C
UniRef90_UPI0002492400
UniRef90_U7V7G3
UniRef90_UPI00046E8CA1
UniRef90_UPI00036FEF8A
UniRef90_H7CZT3
UniRef90_E7GYJ7
UniRef90_M1KF39
UniRef90_UPI0004716AF8
UniRef90_F1T5I7
UniRef90_G2ICB6
UniRef90_R3WH42
UniRef90_F2N8U6
UniRef90_UPI0002897204
UniRef90_R6Z5M2
UniRef90_C4L6E9
UniRef90_Q6CYS2
UniRef90_F7NMV2
UniRef90_V6QCR5
UniRef90_C8NHJ4
UniRef90_F6BHL3
UniRef90_UPI000374C1AA
UniRef90_C9XIQ7
UniRef90_R6YYE7
UniRef90_B1R069
UniRef90_V9H6K3
UniRef90_B2ISN1
UniRef90_D0GMN6
UniRef90_I0DWW5
UniRef90_S4DFD8
UniRef90_D5DAY3
UniRef90_F5X2K3
UniRef90_N9WIA7
UniRef90_UPI00031D4792
UniRef90_F0GV89
UniRef90_D8MHX0
UniRef90_S1NDZ5
UniRef90_H1AQL3
UniRef90_W1IV72
UniRef90_UPI0002197313
UniRef90_W7CPM3
UniRef90_F9S6S9
UniRef90_R5R471
UniRef90_C1C5K3
UniRef90_A6AXI8
UniRef90_U2T3N0
UniRef90_R7G4T7
UniRef90_G5KID7
UniRef90_UPI0003171DFA
UniRef90_U2EIG8
UniRef90_UPI00046398AF
UniRef90_UPI000468F4F2
UniRef90_I9NUK0
UniRef90_B9DT73
UniRef90_UPI000365F09F
UniRef90_F5SGI2
UniRef90_F1T446
UniRef90_R9CH33
UniRef90_C4L9U9
UniRef90_G2MUW1
UniRef90_D9SSR1
UniRef90_I4D6N6

50 60 70 80
E R L K A S N D E L L L A H Q S Q Q S D L L K K Y A A G G T K I E M E I L L V H A Q Q
E L L E E K S K S D E T L L G N A H H A T Q Q S T S E L L L Q Q E E A A N G D N K C E V S T L L L L V H A Q Q
A L I E E E G D A I F L I E E A H H N A H Q H Q S T S E L L L Q Q E E A A N G D N K P V V P T T A L M L M H A E
E E I Q L A R K A S L V K A H H K A Q Q T T E L L L Q Q E E A A S G G T E K T E T T A L M L M H A S Q Q
V H L N E A N D A S L V K A H H K A Q Q T T E L L L Q Q E E A A S G G E K K T E M E T I L M V H A Q Q
E K L E A R K S S V S V H Q Q Q T T E L L L Q Q E E A A S G G E K K T E M E T I L M V H A Q Q
E L M R Q S A R K E T F V S A H Q Q Q T T E L L L Q Q E E A A S G G N H I Q V L S D V L L V H A Q Q
E K F E E A N N E L V K A H H H T Q T Q T A L L L Q Q E E A A S G G N R P Q V S N L L M V H G A Q Q
E Y L S E S A R V L A S K Q A H H D T Q T Q T A L L L Q Q E E A A S G G E K K V P Q V D V N T L V M V H A Q Q
E Q K V L Q K A N E E L L Q A A H H I Q T T K T L I Q Q N E E A A S G G Q K E S V S T S L L M V H A Q Q
K Q L Q K A N E E L L Q A A H H I Q T T K T L I Q Q N E E A A S G G Q K E S V S T S L L M V H A Q Q
S T L M E R A N E E N I H Q A A H H I Q T T K T L I Q Q N E E A A S G G Q K E S V S T S L L M V H A Q Q
U N I R E F 9 0 _ W 7 A V 4 0
S T L M A D A E E E N L N L A H H N V V Q T T K C L Q Q A E A E A E G E E L D P Y S F I L F V H G Q Q
R L V E E A G E E E L L G K A H S Y Q T T Q T L L Q Q N E E A A N G E E N L L I N V M L I H S Q Q
U N I R E F 9 0 _ U P I 0 0 0 4 2 3 6 E 1 D
E K I R L E A D E E L T V Q A H H H Y Q T T Q L L Q Q N E E I R G E D K V E M S T L L M V H A Q Q
E K L Q E A A R E E L T V E A H H H Y Q T T E L L Q Q N E E I R G E D K T D M T L L M V H A Q Q
Q K L D E S A D Q S F L I K A H H N V V Q T T G M L T A E E A A N G T H A E V T S L M M V H A Q Q
U N I R E F 9 0 _ U 2 P P R 0
K S L K S C S T Q E L G E K A H H N M Q T T G S L I Q A E E A A N G T N A Q E V S L L L M V H A Q Q
U N I R E F 9 0 _ U P I 0 0 0 4 1 B 9 9 F 1
R L V E E S G K K A L N K A H H A Q T T R M L T E E E A A G G K K D V P V V G T I I V A H S Q Q
U N I R E F 9 0 _ U 1 W 6 J 2
S A M A K E H C A V K L A A H H A K Q T T E L I G L D E G G C G K G L T V T S L I T V H S Q Q
U N I R E F 9 0 _ U P I 0 0 0 4 6 8 A 3 4 5
N L L K E A D E A L L S A H H N V V Q T T E L I Q A E E A A N G K G L T P V S L L F V H A S Q Q
U N I R E F 9 0 _ C 9 M W S 3
S K I H D A E Q A V L S A H H S Q T T D M L T K E E A A Q G G E K T E T I T G L L L M V H A Q Q
U N I R E F 9 0 _ S 0 R Z 1 1
E K L K K A K E E L S L R A H H S L Q T T D L L C Q E E A A D G G N K Q E I S L L L M V H A Q Q
U N I R E F 9 0 _ U 7 V 6 Y 1
L C M K K K E E L S L V H N I L Q T D G L I Q E E E A A G G N K Q E I S L L L M V H A E
U N I R E F 9 0 _ A 6 L S 0 6
E L I E E G A E S F I Q G H K A H A G L I S K E E A A S G G T K V E V S E S L L L A H A E
U N I R E F 9 0 _ U P I 0 0 0 4 7 D 0 7 4 D
E K L D A D A E L L E A H H A Q T T D L L Q K S Y A A S G G T E N V K I E S E L M V H A Q Q
U N I R E F 9 0 _ F 0 V V 4 6
K L I E D A K E C L A S A H H K S Q T T F I T S Y A A S G G D N I E I S F L I T V H A Q Q
U N I R E F 9 0 _ R 0 A D X 4
K L I A E A N E V L L E A H H G Q Q T T M I Q K E E A A G E T N E L V G F I M V H A Q Q
U N I R E F 9 0 _ D 1 A Q N 6
K L M A Q E S T A L N A A H H L V Q Q T T L L E D D E A A G G T A A P V V T L L L V H A Q Q
U N I R E F 9 0 _ F 4 D 7 Y 2
Q L I E E G E T D F L A G H H K A H Q Q L L T D D E A A G G T A A P V V T L L L V H A E
U N I R E F 9 0 _ U P I 0 0 0 3 6 C 0 2 3 C
E L L E T A N D D L T E A H R V Q T T E T M Q L E A A G G Q Q V P Y S V L F S H A Q Q
U N I R E F 9 0 _ U P I 0 0 0 2 4 9 2 4 0 0
S A L M K E C D A A V L T K A H H A Q T T D M I Q K E E A A G G Q Q D P D L L G F I F I H G Q Q
U N I R E F 9 0 _ U P I 0 0 0 4 6 E 8 C A 1
R L M K E S Q E A S T K A H H G Q T T D L L V A E A A N G E K P E I N V L L I H S Q Q
U N I R E F 9 0 _ U P I 0 0 0 3 6 F E F 8 A
S L I K A S Q D L G K A H H K S Q T T A L I Q D E A A S G G N K I E I S M L L I H A Q Q
U N I R E F 9 0 _ H 7 C Z T 3
E K L K L A N K D L S A H H K S Q T E M L T Q E E A A Q G K I E I S L L M V H A Q Q
U N I R E F 9 0 _ E 7 G Y J 7
T F L T K A E E E L G K A H H H F R Q M I Q K E E A A G G A K T D V S L L F M H A E
U N I R E F 9 0 _ M 1 K F 3 9
P L I K Q S D D A A R E C H H N A Q T T R M I G E D E A G G N P C P N L D I L L V H A Q Q
U N I R E F 9 0 _ U P I 0 0 0 4 7 1 6 A F 8
D L I D Q S E Q A S L E A H H N I Q T T E L L Q M E A A N H E E F F S L I L M H A E
U N I R E F 9 0 _ F 1 T 5 I 7
N L M K D G I E A F N S G H K A H A G L I Q M E A A N H E E F F S L I L M H A E
U N I R E F 9 0 _ G 2 I C B 6
E K M A A G R A A L V E A H H T A T A G L I V E E A A S G N H A T T D V L M V H S Q Q
U N I R E F 9 0 _ R 3 W H 4 2
R M L D E A G R A A G L E A H H T A Q T A L L V T R E E A S G N D H V P T D V L M V H S Q Q
U N I R E F 9 0 _ F 2 N 8 U 6
E A L K S A E E S L T K A H H V Q Q T T K L I Q S E A A Q N N K I E V S L L M V H A Q Q
U N I R E F 9 0 _ U P I 0 0 0 2 8 9 7 2 0 4
E L M K E G G E S Y L E G H H D V Q T T S L V Q Q E A A R G D P A M T L M L T H A E
U N I R E F 9 0 _ R 6 Z 5 M 2
S L V K Q A D E S I S L A H H A T Q T S M I Q A E A A R G E G A E F G F I M V H G Q Q
U N I R E F 9 0 _ C 4 L 6 E 9
E L L N A A S V A R K A H H I Q T T A L I G A D E G S G K I Q V N L L V H A Q Q
U N I R E F 9 0 _ Q 6 C Y S 2
E L M E Q C N E K I L S R A H H V V Q T D G L I Q A E A A S G G K K T E V S L L L I H A Q Q
U N I R E F 9 0 _ F 7 N M V 2
R L L K E A D Q N L S E S H H V V Q T D L I Q S K E A A S G E K K T E V S L L M V H A Q Q
U N I R E F 9 0 _ V 6 Q C R 5
K L L E E A D T F L N K A H H Q V Q T T D L I Q K E A A G E R N E V S L L F V H A Q Q
U N I R E F 9 0 _ C 8 N H J 4
K L M S Q A N E A I E K A H H N V S Q T T S M L Q K E A A S G E D L D F S I L F V H S Q Q
U N I R E F 9 0 _ F 6 B H L 3
Q M I N E A N K I L V A A H H N S Q T T D M L A K E A A S G E D I A L G L I M M H G Q Q
U N I R E F 9 0 _ U P I 0 0 0 3 7 4 C 1 A A
E L I E N A N E E L L K A H H V Q T T E L I Q K E A A G G D K S D I S I L L I H S Q Q
U N I R E F 9 0 _ C 9 X I Q 7
D Y M K Q S D E A Y L R A H H T Q T T E L I V K E A A N G E H M P V N V L M V H A Q Q
U N I R E F 9 0 _ R 6 Y Y E 7
N L I E K A D K E L A E S H H V Q T T S L I Q N E A A N G E K K T E V S L L L V H A Q Q
U N I R E F 9 0 _ B 1 R 0 6 9
A K I S A A E A S L L K A H H S Q T T A M L A K E A A Q G N K T E I T L L M V H G Q Q
U N I R E F 9 0 _ V 9 H 6 K 3
S K L N Q S N E I L L E A H H A Q T T K L L Q A E Y T S G D V E N K I E I L M V H A Q Q
U N I R E F 9 0 _ B 2 I S N 1
K L L K E A D K S L L A A H H N I Q T T E L I Q A E T S G D N M E V S V L F V H A Q Q
U N I R E F 9 0 _ D 0 G M N 6
E L M E D S K E A L T E A H H V Q T T K M I E T D M G E G K T K V S L I L V H A Q Q
U N I R E F 9 0 _ I 0 D W W 5
E L I A E A N D S I V Q A H H R S Q T T E M L A A E A A G G E S T E I S G F I M V H A Q Q
U N I R E F 9 0 _ S 4 D F D 8
E K L T Q A A E E L N A A H H I Q T T S L I Q G E A A R G G E N T E I S L L M I H A Q Q
U N I R E F 9 0 _ D 5 D A Y 3
R L L K E S D E K S K I A H H A Q T T E L L F S E A A N G D H L E L S N V L L V H A Q Q
U N I R E F 9 0 _ F 5 X 2 K 3
E L L E K A T A Q A L T E A H H R A Q T T K L L Q G E A A A G N K T E V S L L L V H A Q Q
U N I R E F 9 0 _ N 9 W I A 7
N L M N E A N F A L T E A H H R A Q T T S T L Q K E A A E G I E P Y S S L F G H A Q Q
U N I R E F 9 0 _ U P I 0 0 0 3 1 D 4 7 9 2
E L L K K A N D E F L E C H H Q V Q T T D L L T K E A A N G E K A D I N T I L V H S Q Q
U N I R E F 9 0 _ F 0 G V 8 9
Q L M T E S S Q A L A E A H H V S Q T T D M L T K E A A Q G D H T A V T N L Y M V H A Q Q
U N I R E F 9 0 _ D 8 M H X 0
K K I A D A E A S L T E A H H V S Q T T N M L T Q E A A Q G K H V A E V S L L L T V H S Q Q
U N I R E F 9 0 _ S 1 N D Z 5
D L I E Q S Q K E V N L A H H G Q Q M D L L V A E A A N G E K T D I S V L I H S Q Q
U N I R E F 9 0 _ H 1 A Q L 3
R L M E E S R Q E T R A A H V I Q T T K L L G M D E G G C G K L P V N L I T V H A Q Q
U N I R E F 9 0 _ W 1 I V 7 2
A C V D E E A N Q S I V D A H H N E Q T T L L S K E A A G G E K D M D V T F I M V H G Q Q
U N I R E F 9 0 _ U P I 0 0 0 2 1 9 7 3 1 3
S K I E E G N E S L K T G H S V H H Q L I Q K E A A S G E K V E L Q L L V H A E
U N I R E F 9 0 _ W 7 C P M 3
E K L A Q G K E C L N K A H H L T Q T Q L I E A D Q G G E G K V F M T L V M V H A Q Q
U N I R E F 9 0 _ F 9 S 6 S 9
F K M N E A Q E E L L L A H H I Q S K L L A A K S A K V D H F N P N M L V H A Q Q
U N I R E F 9 0 _ R 5 R 4 7 1
E L V E S A N D S L V S A H H R E Q T T N L L A E E A Y G D N F E V S F I M I H G Q Q
U N I R E F 9 0 _ C 1 C 5 K 3
G L L E E S T A A K R A H H G V Q T T E L L G L D E G G G S V P V V N L V M V H A Q Q
U N I R E F 9 0 _ A 6 A X I 8
A L V E E A K G L L N D A H H S Q Q F D L L S R E A A G G S A E L V S L I M V H A Q Q
U N I R E F 9 0 _ U 2 T 3 N 0
A S V K Q G G E Y F L A G H H Q A H A R L I Q K E A A S K E S G V N L S L L M H A E
U N I R E F 9 0 _ R 7 G 4 T 7
K L L D D A N E E L L L A H H A Q T T K L L T K E Y A A S G T E L K I E I L M V H A Q Q
U N I R E F 9 0 _ G 5 K I D 7
E K L K E A E K T I V E A H H A Y Q T E M L T K E A A S G E K T D V S L L V V H S Q Q
U N I R E F 9 0 _ U P I 0 0 0 3 1 7 1 D F A
K C L E E A E K E L E T V H S L Q F G L I Q K E A A S G E K N D I S V L L I H S Q Q
U N I R E F 9 0 _ U 2 E I G 8
N C I K E G D T Y Y S E G H H A Q T T V E M I Q K E A A S G K P T E V T L L L V H A E
U N I R E F 9 0 _ U P I 0 0 0 4 6 3 9 8 A F
E K L A T A D Q A I K A H H S Q T T G L L Q D E A A S G Q K M T L T L L A V H S Q Q
U N I R E F 9 0 _ U P I 0 0 0 4 6 8 F 4 F 2
R L I G K A T Q E L K K A H H S M Q T F D L L Q A E A A N G E K Q E M S T L L L I H A Q Q
U N I R E F 9 0 _ I 9 N U K 0
L K M K E A D Q E I A E A H H K A Q T Q L I T K E A A N G E V T P F S L L L V H S Q Q
U N I R E F 9 0 _ B 9 D T 7 3
S C L Q E G K D E L V K A H H K A Q T R L I Q S E A A S G T A Y E I T L M I H A Q Q
U N I R E F 9 0 _ U P I 0 0 0 3 6 5 F 0 9 F
A S L H Q A E Q E L S T A H H I H T D L I Q K E A A G G D E T K V T L L I L V H A Q Q
U N I R E F 9 0 _ F 5 S G I 2
I E M K Q A D T A L L E A H H L Q T T K F L T Q E A A Q G N S M Q I T A L F V H S Q Q
U N I R E F 9 0 _ F 1 T 4 4 6
E C I K D G Q E Y F S K G H H G H A E L I E K E A A V G E S V V C S L L L V H A E
U N I R E F 9 0 _ R 9 C H 3 3
S L L K E A N T F A R E A H H A V Q T T E L I E A D E G E G K T R M T L V M V H A Q Q
U N I R E F 9 0 _ C 4 L 9 U 9
R H I L E A S E E L H K A H H V Q A D G L I Q K E A A G G E S K T S L L M V H A Q Q
U N I R E F 9 0 _ G 2 M U W 1
A K L K E A D S Y L T E A H H A H H A Q Q K E A A G G E P T T V S L L L M H A E
U N I R E F 9 0 _ D 9 S S R 1
K N L E E A D Q E F Y E G H H K Y Q N Q L I Q G Q L E K D T V P N F L V I H A Q

UniRef90_S6BPS0 D H L M T T M T L R E V A L E M E H L Y R N Q A
UniRef90_V9H451 D H L M T S I V V K D L A E E I I D L H E K L S
UniRef90_G7MDB3 D Q L M S A D A F K I I A Q E F I D V Y R N
UniRef90_V4F8P0 D H L M T S M T E I N L I K E I I S L R K K
UniRef90_R2RDK5 D H L M T T M T L R E V A I E M L S L Y Q K V A
UniRef90_UPI0004694E8A D H L M T S M L A R D L I E E L V Q M L E
UniRef90_U2T1J4 D H L M T S M L A Q E L I V E L I N L Y R
UniRef90_UPI000364E258 D H L M N A I T F L D L A K E L A E V Y E
UniRef90_UPI000395999C D H L M T S M L A R E L V E E L I A I H R K L
UniRef90_UPI00030E1443 D H L M T S I T V K E L A E E I I F L H E K M A
UniRef90_A0A023DKB3 D H L M N A I T V K E L A N E F V E L Y
UniRef90_W7AV40 D T L M T V K T E F N L I R E F I K L Y K K S S
UniRef90_S0KGL4 D H L M T T I L L K E L T E N F V D L Y K
UniRef90_W9AGM6 D H L M T A M T V R D L A I E I I E I Y R N
UniRef90_UPI0004236E1D D H L M N A L S I K D L S E E F V D M Y Q K
UniRef90_I2CBQ9 D H L M N A M T V K D L A A E L V E I Y E K V S
UniRef90_UPI00046ADDD D H I M N A I T F R D L A G E L V D L Y K K L S
UniRef90_U2PPR0 D H F M N A M T V R D L A Q E F I D M Y E S I A
UniRef90_UPI00041B99F1 D H L M T T M T L K D L A N E I I D I Y E R L
UniRef90_U1W6J2 D H L M S A I L F E C V A K E F I V L Y R
UniRef90_UPI000468A345 D H L M N A M V I Q D L A Q D M I E L Y R R L I
UniRef90_C9MWS3 D H L M T A I E A K T L I E G M I K M Y K R I
UniRef90_S0RZ11 D H L M T S I A F C D L A K E V I G L Y
UniRef90_U7V6Y1 D H L M T A M L A K D L I T E M I E L Y K K
UniRef90_A6LS06 D H L M T A S L A K D L I C E L I K M Y E
UniRef90_UPI00047D074D D Q L M S A E G F K I I A E E F I S V Y E K I S
UniRef90_F0VV46 D H L M T T M T L K E V A V E M I T L Y Q R L S
UniRef90_R0ADX4 D H L M T T I L L K D I I D S L L D I Y
UniRef90_D1AQN6 D H L M T A M L L K D L T Q H F I N L Y K K
UniRef90_F4D7Y2 D H L M T S M L A R E L I S E E I E L H E K L
UniRef90_UPI00036C023C D Q L M S A E A F K I L A R E F I D L Y Q R
UniRef90_UPI0002492400 D T L M T V K S E Q N L I K E M I K L Y K R I
UniRef90_U7V7G3 D H L M T A L S E R E L I K K M I K L N K R L
UniRef90_UPI00046E8CA1 D H L M T T L L R E L V Q D F I A L Y K K
UniRef90_UPI00036FEF8A D H L M T S M L A Q E M V A E M I E L Y K R L
UniRef90_H7CZT3 D Q L M T T M T L K D L A N E I I D L Y E K L
UniRef90_E7GYJ7 D H L M T S L T F I D L A K E V V D V Y E R L A
UniRef90_M1KF39 D H L M S A L S M K E I V K E M L D L F Q
UniRef90_UPI0004716AF8 D H I M N A M L C R E M A E E L V C L Y R K F
UniRef90_F1T5I7 D H L M T S I L A K E L I E Q M I L L Y K K L
UniRef90_G2ICB6 D Q L M S A E G F K I I A N E F I D I Y K R M
UniRef90_R3WH42 D H L M N A I S Y L D L T Q E L I D I H K R L S
UniRef90_F2N8U6 D H L M T S L L A Q E M A E E L V H L Y E
UniRef90_UPI0002897204 D H L M N A I T V K D M A E E F I D L Y E K I
UniRef90_R6Z5M2 D Q L M S A E G F K F V A E E M I D L C R R
UniRef90_C4L6E9 D H L M T T M L L R D M M Q H M I E L Y R R
UniRef90_Q6CYS2 D H L M N A M L C R E L V E E L I Q L H R E I S
UniRef90_F7NMV2 D H L M T S I T V K D L A N E L I E L Y
UniRef90_V6QCR5 D H L M T A I E A K S L I E C M I S L H K R I
UniRef90_C8NHJ4 D H L M T S I E V R T L A E N V I R M N E R L
UniRef90_F6BHL3 D H L M T A I S E K N L I S E I I E L R K
UniRef90_UPI000374C1AA D H L M T T V L L K D L I H H L I N I Y K K
UniRef90_C9XIQ7 D H L M T C M S E R N L I K E M I M L R K E I
UniRef90_R6YYE7 D H L M T S N L A R E L I R E L I E L Y R
UniRef90_B1R069 D H L M T S M T V K D L A I E I I D I H E K I
UniRef90_V9H6K3 D H L M T S M A F T D L A K E F V E V Y K R M
UniRef90_B2ISN1 D H L M T T M T L L E V A K E M L A L Y K K
UniRef90_D0GMN6 D H L M T A V E A K S L I E C M I K M Y R R I
UniRef90_I0DWW5 D H L M N T I L A R E L I T E L I E V H K K I
UniRef90_S4DFD8 D H L M T T M L L K D T M K H L V N I Y K R
UniRef90_D5DAY3 D H L M N A M T V K E M A T E F V D L Y E A I
UniRef90_F5X2K3 D H L M T S M L A V I E M I R E F I T L Y K N
UniRef90_N9WIA7 D H L M T T I T L K D I A A E I I D I R E Q L
UniRef90_UPI00031D4792 D H V M T V K T E Y N L V K E L I K L Y K R L
UniRef90_F0GV89 D H L T M A T M A M D N A K R W I T L N K K L
UniRef90_D8MHX0 D H L M T A I T Y Q D L V K E L I T L Y K K
UniRef90_S1NDZ5 D H L M T A I A V T D L A K E V I D V Y R R M A
UniRef90_H1AQL3 D H L M T C M L A I D L I K E M I E M R K
UniRef90_W1IV72 D H L M N A M V I Q D L A N H I I D L Y Q R L
UniRef90_UPI0002197313 D T L M T T M M L M D E V K F F I D E Y K R I
UniRef90_W7CPM3 D L L I T T E T L R E V V I E F V N V Y K R M
UniRef90_F9S6S9 D H L M T T I L L A H E M A T E M V A L H Q K L
UniRef90_R5R471 D H L C G A Q T Q L I E M A K E I I S L Y E Q
UniRef90_C1C5K3 D T L M T M L L Y D Q V K F F I D E Y E R I
UniRef90_A6AXI8 D H I M T S M L A R E L I E E L I N V H R K L
UniRef90_U2T3N0 D H L M T T M L L A D I I N T L L D I Y R
UniRef90_R7G4T7 D Q L M S A E T F R I L A D R F M E L Y Q D L
UniRef90_G5KID7 D H L M T T M T L R E V A L E M L A L Y K K
UniRef90_UPI0003171DFA D H L M T A M N F I E L A K E I V T T L Y N K L
UniRef90_U2EIG8 D H F M D S L L A K D M A K E F I Q L Y E R M
UniRef90_UPI00046398AF D Q M M S A E T F K V L A G E F I D I C K M I
UniRef90_UPI000468F4F2 D H L M T S I T F N D M A K E I V E L Y Q R L A
UniRef90_I9NUK0 D H L M N A S L A K D L I K E L I S M V R
UniRef90_B9DT73 D H L M T A I T F L D L A R E V I D I Y K H L
UniRef90_UPI000365F09F D H L M S A I T I R D L A E H V V E L Y N R L
UniRef90_F5SGI2 D H L M N A M T I K E L A A E F V H L Y R E I
UniRef90_F1T446 D H L M T T L T E I N L I K E L I E V H K E I
UniRef90_R9CH33 D Q L M S A E N F K I I A N E M I D N Y K R I
UniRef90_C4L9U9 D H L M T S I L L A K E L I T E L V D L Y K Q N A
UniRef90_G2MUW1 D H V M T A M A E K N L I E R M V D L Y K
UniRef90_D9SSR1 D Q L M T T E V M K D L V K E M I L M Y K K I
UniRef90_I4D6N6 D Q L M T A L A E K N L I K R Q I A I Y K R

UniRef90_C2MUC7 1 MNK E E V S M V G F E I V A F A G E A R S K L L Q A V N E A K K S N L D A A E 40
UniRef90_U2P4T8 D N N Y E T S F G L I L N S G N A K T S K S L M A V E A A R R E F D F E E A Y
UniRef90_UPI00035D0A6E MD K E E L Q L A A F G I I S A V G N A R T S T T V H E A F A A M R E G D F D L A A E
UniRef90_UPI000375E4D2 D G L L L A A F Q I I S S V G T A R S C Y I E A I Q E A K K L G N F D T A H
UniRef90_UPI00036328DC ME E P K N L E A I M Q L I M H G G D A K S G K A I E A M E Y A K T G N D F V S A N
UniRef90_UPI000429738E D M E S T V M E L I I N A G E A R S S Y A M Q A L R A A K Q G N W T E V D
UniRef90_C4LD59 T E E M E L I C F Q L I A N S G A A K S S F V E A I Q L A K K G S F E D A N
UniRef90_C8NDX5 N E S P L L E T I M G L I M Y G G D A K S K A V E A I R A A K K Q E F T V A Q
UniRef90_UPI00036FE060 Q I I M G L I L N A G D A K Q H I Y Q A I E Y A K K G E F T Q S E
UniRef90_UPI00034CB8BD D E K I I E I S F N I I G Y A G E G K G L A F E A I K E A K N G N I E K A K
UniRef90_T3FWM5 T K N D I S M V G F A I V A Y A G D A K S D L I E A I L N Q A R K G F F A K A R
UniRef90_UPI0003775C6F E G L E L I C F Q I I S A V G M A R G S Y I E A I D L A E Q D G K F A D E A E
UniRef90_U5F6N0 M S N L N M E E L I F E I I A S A G E A K G L A Y E A L D K A Q N G E Y D K A E
UniRef90_UPI0004227A6A M N E K D V E A I V S N L V I V H G G D A K S S L A Y N A I K V A A R K G D F T Q A W
UniRef90_UPI000469AE19 E G L E L T A F Q I I S S V G T A R S S Y I E A I Q Q A K E G N F A E A E
UniRef90_S2ZNZ1 E R E K M A S I A M Q L I V I H A G D A R N L I M E A L D H A A E G L Y D Q A E
UniRef90_UPI00047A9C6F E E T V M E L L I I H A G Q A R S D A M E A L K Y A K K G E F T Q S E
UniRef90_G5HJG2 E M E M I I F E I I S N G G T A K G L A Y E A L D E A E K G N F D Q A E
UniRef90_V2IX60 M N S E E I Q V I A F E I I L H S G N A R T N V H E A F S A M R K G N F K L S E
UniRef90_UPI00036E2968 E E P Q T M D V V M E L I V H S G N A K S I G M E A I D S A M R K G D F L L A R
UniRef90_D8MEJ9 N E K I M Q A I M G L I I Y G G D A K S N A M E A I E F A K K Y D F E Q A E
UniRef90_UPI0002E85EFA D M E T T V M E L I I Q A G D A R S C A M Q A L R A A R R Q Y D W A E V D
UniRef90_R3EP53 M N E E N L E S T V M E L I I N A G E A R S F A M Q A L R A A K K G H N W S Q V D
UniRef90_V5Z4M7 M N K E E V Q L L G F E I V A Y S G D A R S E L L T L L N E T R Q G N F E H V N
UniRef90_C4LD41 T I E N L E E V S F K I I L H A G N A R S S A M K A I S L A K E Y K F E E A G
UniRef90_H5T6V2 M S E P S N L E A I M G L I M Y G G E A K G K A V E A I H A A R D G Y F E E A H
UniRef90_UPI0002R4VPR5 M N N E D L Q M A A F G I I L S S G N A R T I V H E A F A A M R E G R Y D E A E
UniRef90_UPI0003F7FD72 D N Q T I T E I I M N G G D A K S Y A M E S I R T A K K G E M A Q A R
UniRef90_V7I7R3 M E E T V M M Q A I M G L I V H S G N T K S E C M E A I S Q L A K K G L I S E A K
UniRef90_K6T104 MD Q Q N L E A I M G L I I H S G N A K S D A M E A I R A A K R S N F A E S E
UniRef90_R7ZB77 E G I E L V C F K M I S A L G A A K S S F M E A I Q E A K L G N F D K A R
UniRef90_S0L6Z3 D L I E E Q V M G I I I N A G Q S R S L C Y E A L R H A K K A E F T E A E
UniRef90_C8N1Y3 M K M S Y E D D V M S T I I A A G E G R S C A M E A L C F A K A G N F A E A E
UniRef90_Q6LFT0 K E E I S M V G F T I V A Y A G D A K T D L L N A L K L A R E G K F E E A E
UniRef90_F5S1S1 E G L E L I C F E I I S S V G M A R S L Y I E A I Q E A K T G N F E Q A Q
UniRef90_UPI0002E85EFA D E K V L E V C F E I I T Y V G T A K S M Y I D A I Q L A R Q G E F F E Q A K
UniRef90_Q045X4 T S D D Y M G V V M G I I M S G G N A K G L A F Q A I Q Q A K A G E F A E A E
UniRef90_R6UWK7 D L E E Q T V M E L I I N A G E A R S N A M M A I Q Q H A R K G E W E Q A D
UniRef90_F8DI57 M E E I I M N L I V N G G D A R S R A M M A I H S A K A G E I E K A K
UniRef90_U2VCG9 E L I E M V V M N L I I N A G D A K A S A Y E A L E K V N E G K Y E E A N
UniRef90_D2BNU5 E S F E T S C F G I I T Y V G T A R S Y F I N A V I Q C A K K G N F E E A Q
UniRef90_U2CVH6 D L E E Q T V M E L I I N A G E A R S C A M M A I Q Q S A R K Q G D W Q E A A
UniRef90_U2NGN3 T E Q K E Q I I F E I I S H G G N A K S L A Y E A L D A A T A F N F E E A N
UniRef90_R5TRA6 E G M E L A S F Q I I S S V G A A R S C I I E A M K F G R Q R K F T E A Y
UniRef90_UPI0003824BD6 D E K Y M Q V V M G I I M H A G N A K G L A H E A L K S A A K S S D M P A H
UniRef90_UPI0002F70380 D A E S Q E M I S F G I V A S A G E A R S L A F E A L K A A R D H D F D M A D
UniRef90_K8F166 M N K D Q Y E E F V M S L I V Q A G Q T R S M L M T A I R E A K N G N F D E A D
UniRef90_M5J8K6 M Q T P F A L I L H G G N A R S A A L E A I A F A R Q R D F E S A S
UniRef90_F2NAZ4 D Y E Q I T L A I A H A G N A R S L S F E A L Q L A K E G N L Q G A Y
UniRef90_Q2C9E3 E L E E Q V M G I I I N A G Q S R S L C Y E A L R S A K E N N F A D A D
UniRef90_C2QNS1 E E Q S T E M I S F G I I A S A G Q A R S L A F E A L K K A K E H N F E A A K
UniRef90_F4LXR5 M T S E E I Q V V A F T I I L H S G N A R T N I H Q A F K A M R E G D F E Q S A
UniRef90_E7B8Z1 N E L S M Q Q T M M L I M N A G N A K A F A K E A I R D A A R K G D F D K A E
UniRef90_B6G9P8 M E E A V M E I I V N A G Q A R S L C F E A L R A A R E G D F V Q A H
UniRef90_S0NXL1 D L I E E T V M G L I I N A G M S R S L C F E A L R Q A K A G Q F S E A D
UniRef90_D6S283 E D L E L L S F N I S A V G T A K S R Y V Q A M Y L A E K G D F D E A R
UniRef90_C4SZZ8 M S Q E D L E Q S C F K I I S F V G G A R S K Y I E A V R E A K K G N Y D L A N
UniRef90_A4SIC7 D N L E L V S F Q L I I S N V G E A R S A L F E A M R A A R E E C F E E A D
UniRef90_R7GNP9 E N K N E T E I F E I I S H G G N A K S L A Y E A L N S A A E G N F E E A K
UniRef90_E6LHR2 D M E T A V M E L I I N A G E A R S C A M Q A L Y A A R K Y Q W D Q V D
UniRef90_F4A679 M D G Q S S L E V A M Q L I I Y G G E A K S C A L E A I A A A K N G F D D A A
UniRef90_V9HBX0 T R Q D I G M I G F E I V A Y A G D A R S S L L E A I K C A K A R K G F E K I D
UniRef90_Q4LA26 E G M E L A S F Q I I G A V G G A R S K I T E A L Q L A R Q R K F T E A Y
UniRef90_A8GJM6 N L L E E A V M E I I V N A G Q S R S L C F E A L Q Q A R D G S I E Q A K
UniRef90_F9HJ94 D N T E I A F Q I I L L A G N G R S S A M E A I Q A Y V K E N D F E T A K
UniRef90_C2BF67 E G I E L V A F Q I I A S V G S A R S S Y I E A I Q E A K N G N F S A A E
UniRef90_UPI00046ADDFE M Q L I M Y G G E A K S N A M E A I Q A A K K Q L F E V A D
UniRef90_UPI000374E5CE D I Q E N L I E I S L S G E V K N F L E A I Q A Y A K T N D F K E A E
UniRef90_UPI000368997A M T K K E M S E K G M V L V G Y S G D A R S S Y L L A L K K A K E G K W K E V E
UniRef90_E3DMU7 M E H I A F T I I L H A G N A R S Y C F E A L S F A R I G R H K E A F
UniRef90_UPI0004723693 E Q E L V V M E I I C N A G E A R S L S Y E A L R L S R E G D F E A A D
UniRef90_I8RVC4 E E L E K I I M D I I I N S G D A K A Y S Y E A L T A A N D R K Y N E A D
UniRef90_U2ZZE4 N K L T D E Q I C F Q L I L H S G N A R S K V I Q S L R E Y R A G S V I G K A E
UniRef90_U2PXR8 M N D E K Y E I A F Q V I I M N A G N S K S S M M A I L E A A R E F D F E A E
UniRef90_M5P5P7 M K K E D L Q L A A F E I I L N S G N A R T L V H E A F N A M R D K N N Q L A K
UniRef90_UPI0003FFED2A M I A F G I V A Q A G D A R S K A Y E A L V F T A K K G D F F E A H
UniRef90_G5JYJ3 E G T E L Q S F K I I S S A G D A S L F L K A V Q H A E K G S F A E A E
UniRef90_B6GA28 M S R K D I G M L G F E I V A Y S G D A R S S L L E A L K D A R N G K F D G L E
UniRef90_E3Z1P5 M N E K E V D I F K I I S A A G D S R G A F E A L R F A R K G D F F E Q A E
UniRef90_F0GXD0 S E E V Q L V S F Q I I A S V G T A R S C Y I Q A I D C A E R G D F E G A E
UniRef90_T0VJG9 D D I N D L V S M T I I I A N S G D A R S F A F Q A L E Q A K A G N F E E A E
UniRef90_B6GCS0 E Q V S F Q L I I L H S G N A R S K L L Q S L R K Q F R E G Q E D A F
UniRef90_R9CLZ5 L E E I V F T I I S H A G S A K S M C F E A L R L A R N G D F Q T A E
UniRef90_A8FEX2 E I M E V M K L I V D G G N A R S R A M E A I E L A K T G E F A L A Q
UniRef90_U2DDY0 D N L E L V S F Q I I S S V G E A K S A L E E V L R E L S R N E N D F E E A E
UniRef90_F7NFX7 E Q L S F Q I I S H S G Q A R S H I L E S L R L R L S R E N D V E G S R
UniRef90_UPI0004065D58 D L E E Q T V M E L I I N A G E A R S H A M S A I Q A A R Q R Q W A Q A Q
UniRef90_F5SGC2
UniRef90_D4E280

UniRef90_C2MUC7 G L V K E A K E S L A E A H N S Q T Q D L L L A A Q Q E E A A G G E S V E L G F I M V H A Q Q
UniRef90_U2P4T8 S L V K E T A E E D L L R L E A H Q T A Q Q T D L L L A Q Q E E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI00035D0A6E E K L E T S N A E V F L N E E H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI000375E4D2 T L I K E D G E E N V L F N E E H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI00036328DC S L I K E G E E N Y V T G H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI000429738E D Q L N N A S A A L L I E A H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_C4LDS9 Q K L A E S A E A F V E A H K A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_C8NDX5 A K L V E A E A S K R A H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI00036FE060 E K L S E A Q A S L L E A H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI00034CB8BD E E L E A D E A L L E A H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_T3FWM5 E L L K E S R E V I N K A H R Y Q Q T T L L L A Q Q E E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI0003775C6F E L V E S A N K N L V E A H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_U5F6N0 A K I K E G D E F T G G H S A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI0004227A6A E L L K E A D K A L L S V H S V Q Q T T L L L A Q Q E E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI000469AE19 E L M A Q K S R A A L L H E A H L V E A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_S2ZNZ1 S L M Q Q S T D A L L N S A H L F V Q Q M R Q I Q Q E E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI00047A9C6F S L I K E G D E V F V E G H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_G5HJG2 D K L K E S R E E L R Q A H K I F Q T A E V V Q Q S E A A G G E S V E L G F I M V H A Q Q
UniRef90_V2IX60 R L M K K E A S E E L C L N A H K I Q T A L L L H D D E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI00036E2968 M L L K E A D E Y L V Q A H H A H H A H H A H H A Q Q Q Q K Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_D8MEJ9 Q K L Q D D A N T E L L L A H K Q Q T T K L L Q Q T Y A A S G G T K I F D M E S I L L V H A Q Q
UniRef90_F7Z242 Q K L E E A N D Q E L L V A H K Q A Q T T L L K Q T E A S G G T K I F V V N L L L V H A Q Q
UniRef90_R3EP53 E K L K A A N E S L T F A H N S Q Q T D M L V A E A A G G E S V E L G F I M V H A Q Q
UniRef90_V5Z4M7 R H L T A A T A A A R S A H K V Q Q T A L L G A D E G V G K I P V V N L L L V H A Q Q
UniRef90_C4LD41 V L L E T Q A S Q A S K R A H D V Q Q T M L I G L D E G T G K I P V V N L L L V H A Q Q
UniRef90_H5T6V2 E H L K N V D E N L K L A H N S Q Q T T L L A D E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI0002E85EFA A E L E E A E S E T T K A H H Q S Q T K L L A K N E A A D G G K S N D L S V I L L I H A Q Q
UniRef90_R4VPR5 H L L E E A S E S L T J A H H Q S Q T G L L A Q E Y A A S G G T S I N V E I S L L L I H A Q Q
UniRef90_UPI00037FD72 E L L E T A N A D M L E A H H A H H A H H A Q Q Q Q E A A S G G T S I N V E I S L L L I H A Q Q
UniRef90_V7I7R3 N F L T K A G E E S L E K A H E I Q T A L L I Q Q E A A S G G T S I N V E I S L L L I H A Q Q
UniRef90_K6TI04 E L I T K A S D E E L G Y A H N S Q Q T N L L T Q E E A A S G G T S I N V E I S L L L I H A Q Q
UniRef90_R7ZB77 E K I N M A N E A L T E A H H A H H A H H A Q Q T Q E E A A S G G T S I N V E I S L L L I H A Q Q
UniRef90_S0L6Z3 A K I S A E A N A L V E A H H A H H A H H A Q Q T Q E E A A S G G T S I N V E I S L L L I H A Q Q
UniRef90_C8NIY3 N C I S E A G S N F Q V E G H E A H F G L L L T Q E E A A S G G T S I N V E I S L L L I H A Q Q
UniRef90_Q6LFT0 G L L K E A Q E F A N Q A H L V Q Q T Q L L E A D E G E G K T K M T L I M V H A Q Q
UniRef90_F5S1S1 A S L S E V A S A D A F R Q A H E I Q T R I L G L D E G V G K I P V V T L V M V H A Q Q
UniRef90_Q045X4 K L I S E E A N S L V D A H N A H H Q Q T R L M S Q E A S G G E E A T Q M T L L L I T H A Q Q
UniRef90_R6UWK7 E L I K Q G D E S F T E G H H S H A K L I T I S Q Q E A A G G E S V E L G F I M V H A Q Q
UniRef90_F8DIS7 D R I L K S G G E E A Y V L E A Q K A H H S L L T K E M N G E L S Q T G L L L M H A Q Q
UniRef90_T4VCG9 E Y M E K S A N E E Q L R E A H D V Q Q T D L L T R L A Q G G K I G W N L Y M V H A Q Q
UniRef90_D2BNU5 S S L N E A S E D A R L E A H H V Q Q T D L L G L D E A A G G V G K I P V V N L L I M V H A Q Q
UniRef90_E8XMT7 A M L K A A D D A A R V K A H K V Q Q T N L L Q N E A A G G E S V E L G F I M V H A Q Q
UniRef90_U2CVH6 E F L K E A S D E Y L H K A H D Y Q Q T N L L Q K E E A A G G E S V E L G F I M V H A Q Q
UniRef90_U2NGN3 E L M E K A D E A L E V A H N A H H A H H A Q Q K E E A A G G E S V E L G F I M V H A Q Q
UniRef90_R5TRA6 E L L I R Q G D Q A F T E G H H I H A H H A Q Q A L D A D E G G K I P V V K L I L M H A Q Q
UniRef90_UPI0003824BD6 Q Q L E A S Q Q A A R E A H K V I Q Q L I G V D E A N G S G K I P M S M L L I M V H A Q Q
UniRef90_UPI0002F70380 E L M A L S K Q E M S K A H N V Q Q T E L I Q S E I N G G D K V Q T S L L M I H A Q Q
UniRef90_K8F166 K K L D E A N E F L S E G H K N H V Q Q L Q K K E A A D G G Q H T E V V N L Y M V H A Q Q
UniRef90_M5J8K6 E F M K Q A D A A L S E A H N V Q Q T D L L T K E A A G G E S V E L G F I M V H A Q Q
UniRef90_F2NAZ4 E L L A R S K K A A L L G A H R A H H A H H A Q Q S R E A D G G D H T P V V D V L V H A Q Q
UniRef90_Q2C9E3 S L V K N A S L S L K E A H Q I Q T K L L E Y D E A R G G K L P V H I V M V H A Q Q
UniRef90_C2QNS1 E K M K L A S E I S A H R I Q T D L L Q E E A R G G N H A E I S L L L V H A Q Q
UniRef90_F4LXR5 Q K M N E A K A E L L N A H N V Q Q S D I L H K E E A A G G E S V E L G F I M V H A Q Q
UniRef90_E7B8Z1 E K M K E A E Y Y A K Q A H L V Q Q T K L L E A D E A G G E S V E L G F I M V H A Q Q
UniRef90_B6G9P8 A L L E Q S K E A A L E A H V V Q Q T Q L L S K E A L G G D H T V V D V M L V H A Q Q
UniRef90_S0NXL1 A K L E E A K E E A V L K A H N S Q Q T D L L H A Y A A G G T K I D M E I I M V H A Q Q
UniRef90_D6S283 A K I K A A N E A L V D A H N T Q T G M L T E E A R G G N H A K A L T L L V V H A Q Q
UniRef90_C4SZZ8 A L L S E S D G F T K A A H R M Q T M L I E Q D A G E A K A P M T L L I M V H A Q Q
UniRef90_A4SIC7 D L I R Q A G E A N A A H A V Q Q T K L I E A D E G E G K I P V V K L I L V H A Q Q
UniRef90_R7GNP9 A K I K E G E E S F V L E A H E A H H A S K L K E A C G E K T V P T I L L M H A Q Q
UniRef90_E6LHR2 E K L K A E A A L L E A H H A H H A H H A Q Q T A E A N G E A L P I T L L L I H A Q Q
UniRef90_F4A679 N F I K E G D N F T T Q G H K T H N S L I T L S A S G G N L E E L N L L I H A Q Q
UniRef90_V9HBX0 K L V R D A E D S L I K A H E S H S L I M Q D E I N G E K V V D T S L L L M H A Q Q
UniRef90_Q4LA26 K L L D E S E H S A K E T Q S T R L I Q D E I N G E K V V D T S L L L M I H A Q Q
UniRef90_A8GJM6 I L L A E S Q L A A K R A H A T Q T E L I G F D E G E G K L P V N L I M V H A Q Q
UniRef90_F9HJ94 E K L S Q A Q A A L L E A H H A H H A Q Q T E M L T R E A A Q G G K N E I N F I M V H A Q Q
UniRef90_C2BGF7 G L V R D A Q E N L N I A H A K Q T E M L A L D A Q G G K E L E I G F I M I H A Q Q
UniRef90_W7CF89 R K I D E A N H Y L S E G H K N H V S L I Q K E A N G H K I P M S M L F I H A Q Q
UniRef90_UPI00046ADDFE S L L V E A D G F A R E A H K M Q T K L L I Q E Q E A G G E S V E L G F I M V H A Q Q
UniRef90_U7KQD7 E K M K E A E G E I N K A H N F Q T S L L Q E E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI000374E5CE D L I K A G D K E F A E G H H A H A S L I Q K E A A N Q E E V D L K L L M H A Q Q
UniRef90_UPI000368997A V K L Q A A H E A L L V V H S S Q T E L L S K E A A G G E S V E L G F I M V H A Q Q
UniRef90_E3DMU7 K I F K I A D N K L I K A H L K Q T E L L K K E A A G G E S V E L G F I M V H A Q Q
UniRef90_UPI0004723693 T L L A E G D E M L L E A H Q A Q T E L L Q A E A Q E K Y S D V T M I M V H A Q Q
UniRef90_I8RVC4 C L K E S T K E L Q K A H T L I Q T N L L Q T E A K G E K Q E M N L L V V H A Q Q
UniRef90_U2ZZE4 E K L S Q A R E E C I N K A H T L I Q T Q L L E E D Q G E G K V P M T L V M V H A Q Q
UniRef90_U2PXR8 E L I N K A N E V L E L A H N S Q Q T S L L Q K E A A G G E S V E L G F I M V H A Q Q
UniRef90_M5P5P7 K L L V I E A E D L R Q S H D V H F Q M V Q Q E A A G G G K Q D V V S L L L I H A Q Q
UniRef90_UPI0003FFED2A R L L V I E A D K E M R E H H V Q T E L L Q R E S A N G D G V D V N I L L V H A Q Q
UniRef90_G5JYJ3 Q K L Q E A N D E L L K A H Q A Q T D L L Q E Y A N G T E I E M E I I M V H A Q Q
UniRef90_B6GA28 E L M R Q A E N E S L L E A H Q I Q T S L L S K E A A G G E S V E L G F I M V H A Q Q
UniRef90_E3Z1P5 A C I E Q A N Q S L N L E A H H V Q T S L I Q E E A A S G S K E L S L L L I H A Q Q
UniRef90_F0GXD0 E K I Q A A Q D N L N L A H A K Q T E M L A L D A Q G G K D L D I G I M I H A Q Q
UniRef90_T0VJG9 A K M K E A K E R S I D A H D V Q T K L L T G E L N G E K S T E T S L L M V H A Q Q
UniRef90_B6GCS0 K L I K E G E Q F R A G H D A H H F G L I Q K E A A G G E S V E L G F I M V H A Q Q
UniRef90_R9CLZ5 K L L A K S E V S A N L A H K A Q T E L L F K E A A G G E S V E L G F I M V H A Q Q
UniRef90_A8FEX2 G L M K K A E E D L R H A H G I H F N Q L V Q K E A A G G E S V E L G F I M V H A Q Q
UniRef90_U2DDY0 A L I N K A K E E L Y E T H G A Q N N M I Q K E A A G G E S V E L G F I M V H A Q Q
UniRef90_F7NFX7 A K L D E A G E E H I S K A H G A Q T G L L T K E A A S G D C Q Q V T L L M V H A Q Q
UniRef90_UPI0004065D58 K K I E V A E A E I L K A H E S H F S L I Q E E A A G G E S V E L G F I M V H A Q Q
UniRef90_F5SGC2 G L I H E A S E M I S K A H A V H H L I Q K E A A G G E S V E L G F I M V H A Q Q
UniRef90_D4E280 E A L T A S Q A A R E A H K V Q T Q L I G L D E G V G K I P V V N L I M V H A Q Q

UniRef90_C2MUC7 D H L M T T L L L S D L V E H L I E I Y T K
UniRef90_U2P4T8 D H L T T A M I M I D Q A K E F I H V Y E K
UniRef90_UPI00035D0A6E D H L M T T M T L R E V A L E M L E L Y K K K
UniRef90_UPI000375E4D2 D Q L M S A E G F K I I A L E F I D D V Y K K F A
UniRef90_UPI00036328DC D Q L M S A E A F K I I A E E F I E I H Q Q L
UniRef90_UPI000429738E D H L M T A I A F K D M A K E I I D V Y Y Q K M
UniRef90_C4LDS9 D H L M T S M L A R E M V E E L I D V Y R Q
UniRef90_C8NDX5 D Q M A S T E I V Q L L A K E L I E L Y
UniRef90_UPI00036FE060 D H L M N A I T F I D M A K E V I D V Y Q E M A
UniRef90_UPI00034CB8BD D H L M T T I T E L N L L K E I I D L R K E L
UniRef90_T3FWM5 D H L M N G M N F Q Q L A E E L V D L H L K L
UniRef90_UPI0003775C6F D T L M T T M M L K D Q V E Y F I N E Y E R I A
UniRef90_U5F6N0 D Q L M S A E S F K I L A E K F I A L N K K I
UniRef90_UPI0004227A6A D H L M A A I E S K T L I E G M I K L H K K
UniRef90_UPI000469AE19 D H L M T S M L A R E L V T E T I E L H E K I
UniRef90_S2ZNZ1 D H L M N A I T V H D L A D Q T I A L C K Q L A
UniRef90_UPI00047A9C6F D Q L M S A E A F K T I A Q E F I D V H K K I A
UniRef90_G5HJG2 D T V M T I C T E M N L A K K I I S M Y R K L
UniRef90_V2IX60 D H L M T A I L C Q D L A K E I I S L R R D L
UniRef90_UPI00036E2968 D H L M S A M E V R T L A D Y L I R M N K R L
UniRef90_D8MEJ9 D H L M T T M T L R E M A I E M Q H L Y K
UniRef90_F7Z242 D H L M N A I T F L D L A R E L V E V Y Q N M
UniRef90_R3EP53 D H L M T S I T F T D L A K E L V D L Y K
UniRef90_V5Z4M7 D H L M N A M L C R E L A E E T V L H R
UniRef90_C4LD41 D H I M T S M L A R E M I E E L I E V H K L L S
UniRef90_H5T6V2 D H L M T T L L F R D L I Q D F I E L Y R
UniRef90_UPI0002E85EFA D H L M T S M T V K D L A R E I I D M H R K M
UniRef90_R4VPR5 D H M M T A L S F I D L A K E L V T I Y E K M A
UniRef90_UPI0003F7FD72 D H L M T T M T L R E V A L E M L A L Y R K V A
UniRef90_V7I7R3 D H F M N A L T V R D L A R E I V D V Y
UniRef90_K6T104 D H L M T T M T F K D L A V E L I E V H E K I
UniRef90_R7ZB77 D H L M N A I T F R D L A Q E M I E L Y E R I
UniRef90_S0L6Z3 D Q L M T S I A F T D L A K E I V D L Y K R I
UniRef90_C8NIY3 D Q L M S A E F L K I T A E E I I A L Y E R L
UniRef90_Q6LFT0 D H L M T S M L A K E L V T E I I E L H R R I A
UniRef90_F5S1S1 D H L M T G M L C R E L V T E L I E I Y K K M
UniRef90_Q045X4 D T L M T T M L L R D E V K Y F I D L Y K Q
UniRef90_R6UWK7 D Q L M S A E A F K I L S Q E F M D L Y K E I
UniRef90_F8DIS7 D Q L M S A E G F R T I A E E F I A V Y K R F
UniRef90_T4VCG9 D H L M T C L S E R N L V K E I I D L R K E L
UniRef90_D2BNU5 D H L M N A I T F K D L A V I E V V G Q E Q R L
UniRef90_E8XMT7 D H L M T A M L C R D L A E E L V L L R K E M
UniRef90_U2CVH6 D H L M N A M T I R D L A Q E F V D M Y E
UniRef90_U2NGN3 D H L M T A I S E K N L I G Q I I E L R K
UniRef90_R5TRA6 D Q L M S A E T F R I D M A E E F I E V Y K K L
UniRef90_UPI0003824BD6 D H L M T A M L C R D L A E E V L L R K E M
UniRef90_UPI0002F70380 D H L M T A I S E K N L I E K M I E L Y Q K L
UniRef90_K8F166 D Q F M T T Y T L R D V A Y E M I A I W K E M
UniRef90_M5J8K6 D H L M N A I T Y K D L V Q E F I E L Y E
UniRef90_F2NAZ4 D H L M T S M L A Q E L I A E L I Y L H R
UniRef90_Q2C9E3 D H L M N A V L M M D L A T E I I D L R K K T V S
UniRef90_C2QNS1 D H L M N A I T V K E L A E E F I T L H K R
UniRef90_F4LXR5 D H L M A A T L A K D L I E E F I E L Y E N
UniRef90_E7B8Z1 D H L M T S I L A K E L V T E L I D L Y R
UniRef90_B6G9P8 D H L M T S M L A Q E L V E E I V N V Y R E L
UniRef90_S0NXL1 D H L M T T M T L Q E V A E E M S Y L Y Q Q
UniRef90_D6S283 D H L M T A I T Y I D L A Q E L V D V Y K Q M A
UniRef90_C4SZZ8 D H L M T S L L A R E L T N E L V L L Y Q R
UniRef90_A4SIC7 D H L M T A M L A K E L V T E L I E L H R K L A
UniRef90_R7GNP9 D Q L M N A E T T K I M A E E I I K L S Q R I
UniRef90_E6LHR2 D H L M T S I T F N D L A K E V I D V Y R R L
UniRef90_F4A679 D Q L M S A E T I K I F A E E F I E V Y K K L
UniRef90_V9HBX0 D Q L M T T E L L K G M A K E V I L T H K K Y S
UniRef90_Q4LA26 D H L M T A L S E K S L I E K M I E L Y K K L
UniRef90_A8GJM6 D H I M N A M L A R D L V E E L V R I Y R
UniRef90_F9HJ94 D H L M T S I A F V D L A K E I I A L Y Q K I
UniRef90_C2BGF7 D H L M T T M L L K D I V Y D I C E I Y K K
UniRef90_W7CF89 D Q F M T T Y L L R D I A Y E M V A L W K E I
UniRef90_UPI00046ADDFE D H L M T S M L A R E L S E E I I H L Y Q R
UniRef90_I7KQD7 D H L M N A L T I I K D M A N E I I D I Y Q E I
UniRef90_UPI000374E5CE D Q L M S A E G F K F I A Q E F I D V Y E R F
UniRef90_UPI000368997A D H L M T S I A F V D L A K E L V D L Y K Q L
UniRef90_E3DMU7 D H L M T A I L L K D M A R E F I D L Y Q K I
UniRef90_UPI0004723693 D H L M T T V L L K D L I Q T L L D V Y R K
UniRef90_I8RVC4 D H L M N A L L A R D L I K E M I G M I Q E G S
UniRef90_U2ZZE4 D H L M T T I L A Q E M A V I V A L N K K I S
UniRef90_U2PXR8 D H L M T T I S E K N M I E Q I I E L R K
UniRef90_M5P5P7 D H L M S S L T M K E L V Y E E L L E I F K
UniRef90_UPI0003FFED2A D H L S M A I T A R D N A E E F L Q L Y K M I
UniRef90_G5JYJ3 D H L M T T M T L R E V A I E M L T L Y Q K
UniRef90_B6GA28 D H L M T A I L A K E L I A E L I E L H Q T I
UniRef90_E3Z1P5 D H L M N A F V Y S D L V K S V L N L Y K R L
UniRef90_F0GXD0 D H L M T T I L L K D I I Y D L I N I Y K K
UniRef90_T0VJG9 D H L M T S L L A R D L I E E M I G M L K E K S
UniRef90_B6GCS0 D Q L M S A E A F G I L A R K I V S V Y K K M
UniRef90_R9CLZ5 D H L M T S M L A S E L I K E I I L L Y K
UniRef90_A8FEX2 D H L M S T M T I K E L V G E L L P I F Q S L
UniRef90_U2DDY0 D H L M N A M L A K D L I E M I E M Y K
UniRef90_F7NFX7 D H L M N A I T V R D L A I Q F V A L Y Q K M
UniRef90_UPI0004065D58 D Q L M N V E T L K A F A K E M I L L H K K Y S
UniRef90_F5SGC2 D H L M S T Q T M R D L V Q E I I E I F E K
UniRef90_D4E280 D H L M T A M L C H D L A Q E I V L L R Q

UniRef90_C0QXV0
UniRef90_W1Q622
UniRef90_UPI0002FE6ECA
UniRef90_D7UV50
UniRef90_A0A014MGB1
UniRef90_R4K918
UniRef90_G3K415
UniRef90_D9R9Q9
UniRef90_D9S0C0
UniRef90_A0A011Q8U8
UniRef90_C8P984
UniRef90_V6M0B2
UniRef90_UPI00026C8BB4
UniRef90_A6M2B8
UniRef90_A5I781
UniRef90_U2V9N9
UniRef90_R5LMB0
UniRef90_H7EDE5
UniRef90_U6BCL0
UniRef90_S1QXU0
UniRef90_UPI00030A4194
UniRef90_UPI00036E350B
UniRef90_UPI00028EA73
UniRef90_R5LXW3
UniRef90_F9V6R6
UniRef90_UPI00047D50BE
UniRef90_L2LDM1
UniRef90_E0RLT6
UniRef90_BOURL4
UniRef90_UPI0003B74D87
UniRef90_X0PMQ5
UniRef90_UPI0004675A35
UniRef90_B5RK56
UniRef90_B1BU32
UniRef90_I3VYG5
UniRef90_D7UUP6
UniRef90_X2GYM6
UniRef90_U7R0E4
UniRef90_S5M2B5
UniRef90_D8MXF7
UniRef90_K1LY32
UniRef90_S2XQZ3
UniRef90_U5FAV0
UniRef90_D8MWD4
UniRef90_U2N0T0
UniRef90_B9DVA2
UniRef90_UPI00035F76FF
UniRef90_E4KR37
UniRef90_F5WTU5
UniRef90_B6G9L9
UniRef90_R9KEJ7
UniRef90_C2U597
UniRef90_R5Q6I0
UniRef90_UPI000406F970
UniRef90_G1WJM3
UniRef90_I7WFN8
UniRef90_S0JPW0
UniRef90_UPI0003653A97
UniRef90_R2NM70
UniRef90_K8E6N3
UniRef90_R6UTF1
UniRef90_UPI0003183A46
UniRef90_R4Y8E2
UniRef90_F9S6Q2
UniRef90_A0A033V6J7
UniRef90_UPI00030E053F
UniRef90_L1QJF1
UniRef90_E2SN26
UniRef90_C4ZEF1
UniRef90_I4DZ33
UniRef90_UPI0003004AA5
UniRef90_I8SBW0
UniRef90_Z4X009
UniRef90_F9HH77
UniRef90_HOUPe7
UniRef90_C9CIM0
UniRef90_U2Q0K2
UniRef90_E5YLZ8
UniRef90_F9RYP4
UniRef90_E3EQH9
UniRef90_UPI00034B275E
UniRef90_R2RDB3
UniRef90_UPI0002191810
UniRef90_F9HF65
UniRef90_R2FZ60
UniRef90_A8AYR2
UniRef90_V5XTK6
UniRef90_R5YPT9
UniRef90_R2RYL5
UniRef90_K0XGD8
UniRef90_R2PWA8
UniRef90_S2XJ26

UniRef90_C0QXV0
UniRef90_W1Q622
UniRef90_UPI0002FE6ECA
UniRef90_D7UUV50
UniRef90_A0A014MGB1
UniRef90_R4K918
UniRef90_G3K415
UniRef90_D9R9Q9
UniRef90_D9S0C0
UniRef90_A0A011Q8U8
UniRef90_C8P984
UniRef90_V6M0B2
UniRef90_UPI00026C8BB4
UniRef90_A6M2B8
UniRef90_A5I781
UniRef90_U2V9N9
UniRef90_R5LMB0
UniRef90_H7EDE5
UniRef90_U6BCL0
UniRef90_S1QXU0
UniRef90_UPI00030A4194
UniRef90_UPI00036E350B
UniRef90_UPI00028EA73
UniRef90_R5LXW3
UniRef90_F9V6R6
UniRef90_UPI00047D50BE
UniRef90_L2LDM1
UniRef90_E0RLT6
UniRef90_BOURL4
UniRef90_UPI0003B74D87
UniRef90_X0PMQ5
UniRef90_UPI0004675A35
UniRef90_B5RK56
UniRef90_B1BU32
UniRef90_I3VYG5
UniRef90_D7UUP6
UniRef90_X2GYM6
UniRef90_U7R0E4
UniRef90_S5M2B5
UniRef90_D8MXF7
UniRef90_K1LY32
UniRef90_S2XQZ3
UniRef90_U5FAV0
UniRef90_D8MWD4
UniRef90_U2N0T0
UniRef90_B9DVA2
UniRef90_UPI00035F76FF
UniRef90_E4KR37
UniRef90_F5WTU5
UniRef90_B6G9L9
UniRef90_R9KEJ7
UniRef90_C2U597
UniRef90_R5Q6I0
UniRef90_UPI000406F970
UniRef90_G1WJM3
UniRef90_I7WFN8
UniRef90_S0JPW0
UniRef90_UPI0003653A97
UniRef90_R2NM70
UniRef90_K8E6N3
UniRef90_R6UTF1
UniRef90_UPI0003183A46
UniRef90_R4Y8E2
UniRef90_F9S6Q2
UniRef90_A0A033V6J7
UniRef90_UPI00030E053F
UniRef90_L1QJF1
UniRef90_E2SN26
UniRef90_C4ZEF1
UniRef90_I4DZ33
UniRef90_UPI0003004AA5
UniRef90_I8SBW0
UniRef90_Z4X009
UniRef90_F9HH77
UniRef90_HOUPE7
UniRef90_C9CIM0
UniRef90_U2Q0K2
UniRef90_E5YLZ8
UniRef90_F9RYP4
UniRef90_E3EQH9
UniRef90_UPI00034B275E
UniRef90_R2RDB3
UniRef90_UPI0002191810
UniRef90_F9HF65
UniRef90_R2FZ60
UniRef90_A8AYR2
UniRef90_V5XTK6
UniRef90_R5YPT9
UniRef90_R2RYL5
UniRef90_K0XGD8
UniRef90_R2PWA8
UniRef90_S2XJ26

50 60 70 80
K K M K E A D K L L L E S H Q Y Q T D L L I S K A G E A N G G E S F V I N L L F I H A
A A I E Q G E S Q R I A S G H D Q T H T F D L L I Q Q Q E A A R G G E H P P F S L L L V H A
S L I K E A R E N D L K N S A G H H Q Q H H G L L I Q Q Q E A A R G G E K S E L F S L L L L V H A
A K L K E A G N E D L N N S A G H H Q V H H A K L I Q Q Q E A A R G G E T E F K L L L L L V H A
T L M N S G L E E S F N L G H H Q V H H A K L I Q Q Q E A A R G G E M R D H L S L L L L L V H A
K C L D D A D E E F Y Q G H H Q V H H A K L I Q Q Q E A A R G G E S T P N F L V I H A
E K I D E A N A Y L S D G H H K Y H H V E L I Q Q K E A S S G G E D D Q T V T I L L I F M H A
E C M K A G Q E M F L A G H E A H H F E L I Q Q K E A S S G G E S V G S S L L L I H A
Q L M Q K A N D D F L T Q A H K V Q T F E L L A E N Y A S R N G N K S E Y M D V L L M V H A
E K L E Q A A R E K L N V A H N V Q T A M L T D E E A Q G K P V Q L T L L V V H A
Q A L D R A A D E S L T K A H N S Q T A L L T Q K E A V A G G E K V L E L S M L F I H A
Q L I E E G N A S L N L A H H N S Q T A L L A K E E A A S G G E K V E L S S V L F V H A
N E M Q L A N D A L G K A H D A Q T E M L Q K E E A A S G G E K V E L S S V L F V H A
K S I E A S N E E L G F A H S Y Q T N S M I Q Q E E A A S G G R P V D V I H L L L H A
Q S L A E A R G E M R K A H D I Q Q T S M I Q Q E E A A S G G R P V D V I H L L L H A
K K M E E A D K I L L Q A H E Y Q T N L I T R E E A D G T K F N I T M L F I H A
S L M L S E E A A C R E A H K I Q T E L L G L D E A R G T G K V T V N L L V H A
A K L E E A S E T F V K G H H A H H T S L I Q Q K E A A S G G E N V L E L S L I M H A
K K M A E A S E Y F V K G H H A H H T S L I Q Q K E A A S G G E N V L E L S L I M H A
D L I Q Q Q A I F L E A H A A L L G L D E A S G S G K I P V F S L L L L V H A
N L V E E A K L F I S S A H K I Q T E L I G L D E A S G S G K I P V F S L L L L V H A
E I M Q K A E E E M L E A H H T Q T R L I Q D E E L N D K K P V E K S L L M I H A
I K I E E S D K I L L K S H E Y Q T N L I T R E A A G G E K L N T L D M L F I H A
K S L Q E E S N K F E L L Q A H D V Q T D M L T K E E A A N G G D N S N Y S I I M V H A
I L L K E E S E S S L L L A H N A Q T E L L Q A E A A N G G D N S N Y S I I M V H A
R L V E E A H T S L M Q A H D S I Q Q M L A A E A A N G G T S V E I G F I M V H A
E L L K Q A K T Q D L R A A H K S I Q Q M V K K E A A G G T Q T P F S L L L M H A
R L L K Q A D D A L L A A H H A Q T E L L G Q Q D E A G G E G K L P V I T I I M V H A
E L L E D A N Q L L A A H K S Q T T L L T K E Y A G G E G K L I D M E I I M V H A
A D L K D A D H Y L L S A H N A Q T D M L T K E A A Q G G K H V E V N L L M V H A
E C M K S A K E E Y L Q G H E A H Y E L I Q K E A A R G G E H V E V P L I L V H A
K L L E M A A E A G K E A H A A Q T K L L E E S D E S G M G N H S N I G F L I L H A
K L I K E A E E C L T D A H K A Q T E L L V S E E S G G N H S N I G F L I L H A
K H L E K A D E E F Y A G H D Y Q T N A L V Q G E E T Q S E K N E V S I I M V H A
E K L T E A K E K G N A A H E S Q T K L L T A S Y A N G G T K N E V S I I M V H A
Q L L D E A N D D I L E A H E S Q T G L L Q S Y A N G G T K N E V S I I M V H A
T L M A E S Q Q A I K E A H A I Q T T L I G L D E A G S G K L P V N L I T I H A
E T L K E A K L E L N K V H K I H A E L I S D E A G G G K K V I S L L F I H A
L A M A A K E S V N E A H H I L Q T E L L G M D E A G G G K V I S L L F I H A
Q L L T S A H E S L L Q A H K A Q T S L L V I Q E E S S G Y S I E L S L L L I H A
K L I K E G G D A F L Q A H K A Q T A D L L H K E A A A N G E E Q T P N S L L I H A
A S M K E G E Q F L H K A H N A Q R D L L S A E E A A N N E E I A F S V I L H A
E A L A A S L E A S K G A H H I Q T E L L G S A D E G C G K V P V T L L L V H A
D S I K K S E E E L R L S H K T Q T E L L Q S E A I N G G E D I A M S L I M V H A
R L I E E A N K V L N E A H N K Q T E M L A K E E A A G G E K T E V T L L M M H A
E L L R Q A K D S L T Q A H K V Q T K L I Q A E A G R G E K T E V T L L L I H A
K L L A E A D E E L K G A H R Q I H A Q N L I Q E E A A Q N G K A T Q V N L L F I H A
Q L M A E G E Q F V E G H R V I H A Q L I Q E E A A Q N G K A T Q V N L L F I H A
A R V A E G E Q F L T G H A K H G E M I A Q E E A A G G E H I D P S I I L I H A
E A M K H G A S C Y V N G H R K E H A G L I S K E A A G G E K T E V T L L L M H A
A K L Q E A L E E L K E A H R V E L I Q K E A A G G E K T E V T L L L M V H A
K I L E Q A K E A D L Q A H T V Q T K L I Q A E E M S G N K P E V V G L L M V H A
Q Q M D M A K D K I V E A H R L Q T E L L Q G E F R G D K A E L N L L L I H A
E K L G L G D K A I I E A H R A Q T A L L R A E V T G G D I A F S I L L M H A
E K I A S A Q E T I I J A H Q A Q T K L L S Q E A D G G E E F S L S L L T I H S Q
Q K M I D A E A S L V E A H H A Q T G L L T Q E A Q G N Q Q M T V T L L T V H A
S K M K L A N A E I V J A H R V Q T N C I Q K E T E G G Q Q G D Y S V L F A H A
Q Q L D K A N E A I L E A H K A Q T N L L K E Y A S G Q K I E M E I I M V H A
N D L K E G G A A L S Q A H R Q T E L I Q E E E I R G N G T K T L N L L M V H A
E L V R K G N E Q Y A K G H R I H Q R L V Q E E A A G G N P V D L N L L T H A
S L L K K A N D E F I K C H E I Q T N M L T K E A A N G E K N K I N I L V H A
R L M Q D A A D A V R K A H D V Q T M L I G M D E G C G K V P V N L L V H A
A M M E Q C N V S V R K A H H V Q T D L I R O E I C G G E K I V V S M I M V H A
S H I E S A N T Y I T E A H K E Q T Q C L A Q E A S G G E S S E L S F I M V H A
K L L E E G G E L F V Q G H H A H A Q D L V Q K E A A N G E K T E F S F A L L L M H A
N K V T L S K A H H S H A F D L V Q K E A A N G E K T E F S F A L L L M H A
D K I Q C A R N S I N D A H I T Q T N I I Q A D A R G I K H E L S M L F V H A
E L I K Q G D E A F S L G H N V A D L L A M D A N G E I I S N G Y M L L M H A
E K L E A A N A E L L E A H H A Q T N L L H E Y A A N G V E I K I E V I M V H A
T K L E Q A A N D S L V K A H S I Q T H L L H E Y A A N G V E I K I E V I M V H A
E S I A Q A K K Q L L A A H Q L Q T E L L Q S E A A R G E K D N P I N L L I H A
E L L K Q S S E S L N Q A H E F Q T M E R I Q Q E E I G Q K N P L S L L M V H A
A L L D D G E E Q R V K G H E I H F E L L Q R D S S G D G P E F S L L L L H A
E R M E K S A D A I V E A H K V Q T S L L V I G S E A R G D Q V N V I T M L M V H A
L L L R K S D D A I K K A H Q A Q T E L L F S E A A R G E K Q E I N V L L I H A
E K L K E A D T Y M V E A H H S H A D L I Q K E A A S G G E K V E F S L L L M H A
E M M D E S R A A T R E A H G I Q T T L I G M D E G S G K L Q I N L L T V H A
Q Q I A E G D Q A A K D V H K S Q T E L I G Y D E G S G K V P M T L I L T H A
A K M K S G D E Q Y A A G H E Q H A K L V Q Q E A A G D P V T M S L L L T H V E
A L I A Q A E K S L L Q A H S Q Q M A L I A A N D E A G G E L P T T I L L V H A
E A L K E A K D N I V L A H R S Q T E V I Q A N D E A G G K C Y A P S L L L F T H A
E A L V A A N Q E L K E A H D V Q T D M L T K E A A Q G E H T A E V D L Y M V H A
E L M V E A N S A I Q K A H H S Q T E L L Q E E A A R G E N Q Q E L S L L F H A
K E L I E A R K E V L L A H G I Q T D T L Q L E E A S S G G Q Q R Y S T L F C H A
E N M E K G K E S Y K E G H E V H F K L I Q E E A A S G G G N Q D V I T V L L V H A
G K L N E A N Q S E L E A H R S Q T H L L T R E Y A S G G K H E M E I I M V H A
E K L K E S D K S L L E A H N S Q T G M L K T E A A Q G D H M H V T L V V H A
N K I E I A G E A L I K A H H A Q T E M L T K E A A Q G E A T E M N L L T V H S Q
E K L K E A N Q R L L Q A H E L Q T D M I A K E A A G G E Q V P V N I L I H S
Q L L T E A N E E I L Q A H K S Q T A L L K A D Y A N G K I E T E I I M V H A
A H I E N A N R F I N E A H V E Q T Q L L A K E S R G E V G E M S F V M V H A

UniRef90_UPI00031023E1 1 E Q I A F Q L I L H S G N A R S K I T Q A L R E Y R R A G N Q E Q A E
UniRef90_D7V521 E E D I A M S I I I A N S G D G R S K A F N A L S E A E K Q G N F E K A E
UniRef90_UPI0004632EA9 N F E E I S F Q I I A F A G A K S H A M N A L Y E A K Q Q G N F E A D
UniRef90_G1VL50 I E S V C F Q I I S Y T G A A K S C F V E A I N E A K Q G N F E R A E
UniRef90_C2WFY4 M E T F E I I S H G G N A R S G L A Y E A L T A A E E F D F F E R A A
UniRef90_Q4A0L4 E N S L E F A M S L I I A Y S G D A K S H A M E A L Y A A K K G N A Y E E A D
UniRef90_B1QVW8 E Q L E M Q I M N I I I N A G D C K N H V Y M A L S S K V N E G K Y E E A D
UniRef90_W0L529 L E L D I M E I I I T N A G E S K S E A M M A L H H A K R N G E W D L C D
UniRef90_UPI0004194B69 D I E M V I M K L V V S S G N A R S T A L E A L R A A A R D E N G F E E Y A D
UniRef90_UPI0002197592 T R E K L I S I S M Q V I I L H A G N A K D F A Y D A I K K S K E G K V E E S N
UniRef90_B1QW79 M E Q E T F E I I S H A G D S R G Y A Y E A L D A A E N K D F T E A E
UniRef90_UPI0004195F2B E E L E L I A F K I I S S V G T A R S C Y I E A L Q A A K K G N D Y E Q A E
UniRef90_R2PGC3 M N D E Q L Q I V M G L I I M N A G N A K G E A V A A L A A A K S N D F T E A E
UniRef90_R5ZA77 T K E E L S M V G F E I V A Y A G D A Q T D L L A A L D A A R E G D F F E K A E
UniRef90_R9J6V8 E D V A M M L I I V H S G D A R T L A F Q A L T A A R E G K Y E E A K
UniRef90_H2J8H4 D I L Q T S M S I I V A G A G D A K S Y A M E A I Y L A A R E G K Y E E A R
UniRef90_R5XHT9 E E L E L I C F Q L I I T F A G E A K S A Y M N A I Q R A K L G Y Y E E A E
UniRef90_UPI000376010F E E L E E T I F T I I A Q A G K A K S I F E A L S E L A R A G R Y N D S E A
UniRef90_R9LKU6 E G L E L I C F Q I I S A S G G A K S A Y M A L E A A K K G N Y E E A E
UniRef90_D5DBA1 N M E N E I F E L I I A Y G G N A R S L A Y E A L L E A A E D Y D F N E K A D
UniRef90_R6V110 M N E Q E L L T A A M Q I I L H A G N A R N A A D E A L E E A K R N F N Y D E A A
UniRef90_R9CET2 E L E L V A F E I I I S N V G M A K S L A I E A I R D A R N N D Y D E A N
UniRef90_I8AL80 E M D I F K I I I S H A G N A R G M C F E A L T A A E A F D F V T A E
UniRef90_S0KIH1 N Q E Q M M A T M G L I I N G G N A K S S A F E A L Y A A K E G N F A Q A F
UniRef90_UPI0003006A03 M E Q E D I Q V V A F E I I L H S G N T A R T T I H D A F K N A M K E E K Y E J A F
UniRef90_V9H877 E L E K D I M N I I I S I A G D S K G K A F E A L K K V K D M D F E G A K
UniRef90_M4U3K7 D K A E S I L E L I I L V N A G T A R S L L M G A L L Q Q A R E G N G S A V E
UniRef90_UPI000365C6A6 M E M I V A D Q L I M G L I I L N A G D A K Q H A Y L A L Q Q A K E G L F D E T S
UniRef90_U7PD56 N K E E N M M I G F T I V A I A G D A R R E V M A A L A A A K E N D F F E Q A R
UniRef90_S4YTP7 D F E S T I M E L L V F S G G A R S S A L M A L Q Q A R A G D F T A S A
UniRef90_D1AWK8 M T Y D E L S E Y A M Q I I I A N S G M S R S S S M Q A I Q Q A R K G N F E K V E
UniRef90_UPI0003940FD7 L E D I V I T E L V V N G G F A K S K S I M A L Q C A K K G L F S D A D
UniRef90_B6FYB4 E L E L I S F I I I S A V G T A K S N Y M E A M K L A G K G F E F K A E
UniRef90_Q03GK4 E G M E L I C F Q L I I T A A G A A K S N Y I T A I Q K A K E G L Y E E A E
UniRef90_C5EFX1 D T E K I V S F H I I S Y A G D S F S K M R E A L S E A K L G N F Q K A D
UniRef90_UPI0003607837 M N T E E L Q I A S F E I I L Y S G N A R T M V H A F A D M R E G N Y E S A A
UniRef90_UPI0002E828F0 E E G L E M I C F K I I I A G V G A A R S C F I E A M Q I A R K G D Y E K A E
UniRef90_U2TIJ1 D E E S V Q T S F E I I A M S G E A R S K A Y E A L G S A K E G D F E V A S
UniRef90_W4C1L4 D Y E Q T I M Q I I I A S S G E A R S L S L K A V R T A R A G N L E E A G
UniRef90_R2RF53 E G M E E I S F R I I I A A V G E A K S L I M S A L G L A N E G K F D E A K
UniRef90_R5QXS6 D G L E L V S F K I I I S A V G M A K S S F I E A M K V A A N G E F F D A A R
UniRef90_A7GUY9 D T L E T Q A F H L I I L H G G N A R S Y A M E A L S H A A K H G E F D E A E
UniRef90_W1JBF0 M N S E E N I L I S M E I I I L D A G N A R E K S E K A M K Y A R D G D F D N A R
UniRef90_L8A034 N Q L T N E Q V A F Q L I I L H S G N A R S K L V Q A L R E Y R T G R V G D A E
UniRef90_C7REJ4 M D N E K M Y E V A F Q I I I V H A G E S R S L S S E A M D A C E N Y D F F E K A E
UniRef90_W0GPK6 M K Q I N F E E I S F G I I I T F A G M A K S I G I M A T K S A K E G K S E A W
UniRef90_UPI0004089325 E G L E L I S F E I I I S N V G M S K S L S I E A I R E A R K G N Y E M A D
UniRef90_A8FIW4 E E M Q G A F E I I I A H A G E A R S H Y V E A R L A R T D N D F E K A Q
UniRef90_UPI0003FBBB2C K T E D L S M Q I I I L Y A G N A K A F L H E A L H A A K N G Q F D E I E
UniRef90_UPI00047C8DD6 N L E E A C F R I I I A F S G E A F A K L M E A L K L C R N D D Y A G A E
UniRef90_K0NJ57 T K T D I S M T G F A I V A Y S G D A R T A L I K A M K E A S E H I T K A R
UniRef90_R6FPP0 E G L E L I A F E I I I S N V G M A K S L A I E A L R A V R S D N Y A E G E
UniRef90_UPI000470A3F1 M E Q I I P D Q I T M G L I I L N S G D A K Q H L Y N A L N R A S Q A Q S K Y E E S D
UniRef90_T0JY48 E E V I F N I I I L H A G N A R A E A Y D A L R L A K A G E F I K A R
UniRef90_R6UQN9 E G L E K Q C F Q I I I S A V G M A R S S Y I E A I Q E A K K A N F E R A R
UniRef90_L1QKU3 T E Q M E L I T F E I I I S T G G T A K G L A Y E A L A A A E N G D F E E A E
UniRef90_R3TSV2 D E Q E K S I F Q L I I S A S G D S R G S A F E A L R L A R K G A F E E A N
UniRef90_U4WNF7 E A L Y L I S M Q M I I L H A G D A R N D V M E A L K C C E E E Y D R A E
UniRef90_R5TW22 K L S E C A M Q I V I T Y A G C A K S S Y M Q A L Q E A R K K G N W Q V S E
UniRef90_D2TSN3 N E T S Y E L V M G L I I V N A G Q C K S C A F K A L Q E A R K G N Y P A S S
UniRef90_W9AKP4 N I N N L S M Q I I I L H A G N A K A I L H E A L E K A R T G N F S E T D
UniRef90_UPI0003723E2F V I M D M I I V H A G N A R S K A M N A I K L A A E Q Q D S A K
UniRef90_W7C2Q8 I N E L S M K I I I L H A G D A R K L I M D A L R E V E G G Q F T D A E
UniRef90_UPI000478715E E E T I F Q I I I L Y G G N G K S L A M E A L F L A K K G D I A G A E
UniRef90_V5HLH0 N D I T E E F L M S L L C S A G E A R S S V M A A M A S A Q K G D F E Q A S
UniRef90_K8QJH2 V A M Q I I I I H A G N A R N H G L E A I R Q A K R H H S D A V S
UniRef90_UPI000316C34C E L Y E E S F T L I I L H A G N A S S K A Q M A I Q E A R E H Q F T E A E
UniRef90_Q2NRG6 D F E Q T V M T L L I T A G E A R S G T M S A I Q A A R E K L W D K A Q
UniRef90_M1MWN6 M E E A I M E L I I M N A G C A R S K A M E L I M K V K E G N L E E T K
UniRef90_UPI0003B42E8B E R L S Q I A M E I I I A Y S G V A K S T Y I E A A R L A R E G N F E Q A Q
UniRef90_J3HIZ5 E F E E E T M L L I V Q A G A A R S E A I S A L R L A R E G R F S E A Q
UniRef90_Q8CZE0 Q E E L Q M L S F Q I I I L H A G N A R S E A M E A L Q L A R K G E F K E A E
UniRef90_W1SMY7 E E P K N L E A V M G L I I M H S G N A K S F G M E A V Q A A K E G D F E K A D
UniRef90_R5J2Z5 D E S M V M V C M Q I I I T N T G S A K S S Y I E A I N K A K K G D L G G A E
UniRef90_T3UV91 E N L E M K I M E I I I V S S G D S K S S F E A L N K V K E G D Y E G A R
UniRef90_U2NM09 D G L E L V S F E I I I S N V G M A K S L A I E A L R E C R Q G N Y T V S K
UniRef90_B6EMG1 M D S E E Y E E K V M M L I I V N A G S A R S Q L M E A M R A A R K G N F E L S D
UniRef90_B0MC42 E E L Q R T A F E I I I A S V G A R S A K T Y Y M N A V K L A K E G N I T E A R
UniRef90_UPI00037234AB E E E N Y T V A F Q L I I T S A G T A R S S A L M A I E A A R E F D F V G A E
UniRef90_R7G9V1 E E M D I L E I I I T K A G E A K N G Y L Q A I Q E A K A G N Y E A C N
UniRef90_UPI000314C40B M N K E E C Q L I A C S V I A N A G S A Y D C F I S A V K E A D K G A F E A E
UniRef90_U2TX36 Q D D E S V A M G L I I V H G G N A R S D A L Q A I S K A R A G D F E A A D
UniRef90_UPI00037E44FB E G I E S V A F Q L I I A S V G S A R S Y Y L E A I Q A A K K G Q F K R A K
UniRef90_D0BN95 E I E L V C F K M I I S A L G A R S A F M E A I V A A K K G N F E A R Q
UniRef90_E3DMV4 N L E K M I F T I I I S Y S G D A K N L F M E A I N Y A K N N E V V K A E
UniRef90_U5F5F6 E G I E A V C F Q I I I S F A G S A K S C Y M E A I G A A E Q D D Y D K A K
UniRef90_UPI00029B54AC M D E E K L N V I M K L I I D G G S A K S S A V E A I S A A Q S N F K L A E
UniRef90_A0A024PPM5 S M S I I I M H A G N A K V Y L H E A L A D A R N G E F E G T D
UniRef90_I0GN03 M T K D E M A M I A M E I V A Y A G D A R T K F L A A M D A C I G E K D F A K A E
UniRef90_V5RIW5 M K D L N F E Q V S F T I I I A H A G E A R K G A M A A K A C E G N Y K K A Q
UniRef90_W1Q4Z6 M S Q E A A L E V A M Q L I I M Y G G E A K S C A I E A M A A K R D F K V A N

UniRef90_UPI00031023E1
UniRef90_D7V521
UniRef90_UPI0004632EA9
UniRef90_G1VL50
UniRef90_C2WIFY4
UniRef90_Q4A0L4
UniRef90_B1QVW8
UniRef90_W0L529
UniRef90_UPI0004194B69
UniRef90_UPI0002197592
UniRef90_B1QW79
UniRef90_UPI0004195F2B
UniRef90_R2PGC3
UniRef90_R5ZA77
UniRef90_R9J6V8
UniRef90_H2J8H4
UniRef90_R5XHT9
UniRef90_UPI000376010F
UniRef90_R9LKU6
UniRef90_D5DBA1
UniRef90_R6V110
UniRef90_R9CET2
UniRef90_I8AL80
UniRef90_S0KIH1
UniRef90_UPI0003006A03
UniRef90_V9H877
UniRef90_M4U3K7
UniRef90_UPI000365C6A6
UniRef90_U7PD56
UniRef90_S4YTP7
UniRef90_D1AWK8
UniRef90_UPI0003940FD7
UniRef90_B6FYB4
UniRef90_Q03GK4
UniRef90_C5EFX1
UniRef90_D1AH37
UniRef90_UPI0003607837
UniRef90_UPI0002E828F0
UniRef90_U2TIJ1
UniRef90_W4C1L4
UniRef90_R2RF53
UniRef90_R5QXS6
UniRef90_A7GUY9
UniRef90_W1JBF0
UniRef90_L8A034
UniRef90_C7REJ4
UniRef90_W0GPK6
UniRef90_UPI0004089325
UniRef90_A8FIW4
UniRef90_UPI0003FBBB2C
UniRef90_UPI00047C8DD6
UniRef90_K0NJ57
UniRef90_R6FPP0
UniRef90_UPI000470A3F1
UniRef90_T0JY48
UniRef90_R6UQN9
UniRef90_L1QKU3
UniRef90_R3TSV2
UniRef90_U4WNF7
UniRef90_R5TW22
UniRef90_D2TSN3
UniRef90_W9AKP4
UniRef90_UPI0003723E2F
UniRef90_W7C2Q8
UniRef90_UPI000478715E
UniRef90_V5HLH0
UniRef90_K8QJH2
UniRef90_UPI000316C34C
UniRef90_Q2NRG6
UniRef90_M1MWN6
UniRef90_UPI0003B42E8B
UniRef90_J3HIZ5
UniRef90_Q8CZE0
UniRef90_W1SMY7
UniRef90_R5J2Z5
UniRef90_T3UV91
UniRef90_U2NM09
UniRef90_B6EMG1
UniRef90_B0MC42
UniRef90_UPI00037234AB
UniRef90_R7G9V1
UniRef90_UPI000314C40B
UniRef90_U2TX36
UniRef90_UPI00037E44FB
UniRef90_D0BN95
UniRef90_E3DMV4
UniRef90_U5F5F6
UniRef90_UPI00029B54AC
UniRef90_A0A024PPM5
UniRef90_I0GN03
UniRef90_V5RIW5
UniRef90_W1Q4Z6

50 60 70 80
Q L L K E A E D E L S V A H N D V H F Q Q M L V Q K D E E A S G G E K K T E F F S L L L M H A E Q
K L I S E E A S S D A L I G K A E H D V Q Q Q M L V Q D E E A A G G E K K T E F F S L L L M H A E Q
E L L E K A G D Q S M I T J A E K H A H F M D G V L L V S A E E A A G G Q Q E H V V E F L P R V L L F L L H A E Q
D L I N K A A E E L S L J A H K T Q T K T N M L L T Q K A E E L N G G V E P S E K T S L L L M I L L H A S Q Q
K K L K L A N D E V S L L E A H H D S Q T N M L T T K E A A Q G G D E K V D E K T M S L L L F V H H A S Q Q
K E M V L S A E D A L A K A H D S Q T N M L Q N E A E A G G E E I P V I E V V L G L L M V H A S Q Q
D A L T R S R D A S R A H A V Q T K T L I G I D E E G E G E K I F V V T L V L M V H A S Q Q
K L M N E S A D Q M I T Q S H E V Q T N M L Q N E A E A G G E E I P V I E V V L G L L M V H A S Q Q
K L L E S A N D E V M I T K A H Q V Q T N T L Q L E A E A G G E E I P V I E V V L G L L M V H A S Q Q
T L M K K A E E E L G L J A H N T Q T K T L I Q S E E I N G G Q Q D D L K M S L L L M I L L H A S Q Q
K L I A E A G D E S F A L G H D D A H A G L L L T T A E A S A N G G N N A E V T L L L M V H A S Q Q
K R M T A A A N E A L V E A H N T Q T K T L I S Q A E A A G G G E G E M E M T F I J M A H A S Q Q
Q L H K D A S D A L I G A H D T Q T K T L L S Q A E A A G G G E G E M E M T F I J M A H A S Q Q
K L L A Q K A E E A L K A H S V I Q T D L L I A A A E A M Q G G E K M E L A N I L L L V H H A S Q Q
I S L E K A K A E L R D T H S I Q T D L L I T K E E A A G G E E N I I P N I L L L I H A S Q Q
N L I Q E G N E A F L N A H K V H A D L L I Q K E E A A G G E E N I I P N I L L L I H A S Q Q
V K L N E A T E V L Q G I H K K Q H A T D L L M T T Q Q E A A G G K S D F E I S L L L L I H A S Q Q
N M I K E G D E M L N Q G H A K P H A T D L L V Q Q Q E A A G G K T I E K S L L L L I H A S Q Q
E L I K Q S Q E E L S H A H K T Q T A L I Q Q R E E A N G G K T I E K S L L L L I H A S Q Q
S H L Q K A E E A I T L J A H K A H S G L I H K K E A A N G G E Y G Y E P S L L L I F A H A S Q Q
K K I E E A K G F L E G H H A H S G L I H K K E A A N G G E Y G Y E P S L L L I F A H A S Q Q
Q L M N D S K E E M R L J A H G T Q T K T L I T A E E L N G G E P A E Q T L L L L V H A S Q Q
E K L K E A D Q S L L E A H H A Q S Q T E M L S Q Y A A S G G E S P I E N V E H I L L T V H A S Q Q
E Q L E D A N E E I T L J A H Q S Q T E M L S Q Y A A S G G E S P I E N V E H I L L T V H A S Q Q
S L L E E S R K L D L E A H K T Q T K T L I T N E M D P E K T P I V S L L L M V H A S Q Q
Q A L E A K Q H I Q C A H A L L Q T S Y L G L D E A N G R G K F P D I S N I T V H A S Q Q
S E L E L A D Q A L L E A H A L L Q T S Y L G L D E A N G R G K F P D I S N I T V H A S Q Q
Q H I V E A N N F I T E A H K E Q T Q M L A K E A A G G E G A S D I S F I M V H G Q Q
K H M A E S K Q V K K A H E I Q T Q L I V K L D E S S E G K I I L N N L I M V H A S Q Q
E C M K E A D K Y F L E A H E I Q T D L I V K L D E S S E G K I I L N N L I M V H A S Q Q
A C I K E A N E A L K A H Q F Q T H L L H E E A A N G E N H V N V N S L V I T V H G Q Q
E L I K E G Q K V F L E G H R K A H A S L L Q K E E A A G E D V N N I L L M H A S Q Q
E L I K K A N E K L V V J A H R K A H A S L L Q K E E A A G E D V N N I L L M H A S Q Q
K L I E E G D N M K E G H Q P H T E L I Q K E E A A G E K D L H M G S L I L T H A S Q Q
E L M S A K K T L T E A H N V A T E V L T L E A A G G E K S E Y S V I L L A H A S Q Q
E Q L E A A N S E L L M A H Q A Q T K L S E Y A A N G G V E I K I E I L L M V H A S Q Q
Q L I Q D G E K E F V N A H Q A H A S L I T T N E A A N G G N K T D V L T L L L H A S Q Q
S L L G E A Q S L D K A H N I Q T S L I T T R A E A G R G E K S M T L D I L L L V H A S Q Q
E M I K N A K T S L T K A H N V Q T G L I Q A E A G R G E K T K I T L L L M I H A S Q Q
E Q L T A K E E K F V S A H N A H S F E M I Q K E E A A G G E K V E L L G L L L V H A S Q Q
A K I K E G E E S F N G G H L A H S L I Q Q R E A A G G D D Q T K V V P S L L L M H A S Q Q
A N I Q K A L Q E L Q K A H S L Q S T D L I Q Q R E A A G G D D Q T K V V P S L L L M H A S Q Q
L Y M E K A R K M V L S A H Q T Q T E V I Q K E E T Q G G D N Q F N L S L L L F I H A S Q Q
R L I Q E A E Q D L S I A H D V I Q T F D L I Q K E A A G G E P N I I T L L L M H A S Q Q
E L L K K A N E E F L E C H H V I Q T D L L T A E A A G G E K N E I N I F I L H A S Q Q
G L I T E A E Q N L V E A E K T H I D V I K Q E A A G G V K H Q L S V L F M H A S Q Q
E N L K R A N Q Y L T D G H N L H A S L I Q Q E A A G E K L V D F S L L L L I H A S Q Q
Q L I E K A G E A F R S I H N L H L S L I Q K E A A G E K L V D F S L L L L I H A S Q Q
T K R D Q A A E E L L K A H K I Q T S F L R E D A V E K L D N L P V L L V H A S Q Q
K T I E E A S D L L N K A H N V H T E L L V K E A A N G E E M G Y S V L L T H A S Q Q
D L V K E A N D S I N A A H N E Q T S L L S K E A A S G M D M D V T F I L M V H G Q Q
E R L A E A A K Y L T E G H H A H T S L L Q K E A A G G E K T E F S L M L M H A S Q Q
N E I E L A N K A M L E A H N L Q Q F L A E E A G G H K K S E T K A L F V H A S Q Q
G H L Q Q A E E I G A H R V L Q A E M I Q Q E A A G G N K A E L T L L L T V H A S Q Q
E M I E E G D K S F L Q G H E A H A K M I Q Q E A A G G E K V E I T G L L L F V H A S Q Q
K L L K E A D E A L N Q A H K V Q T D T I A K E E A A G G E N T E T T L L L M V H A S Q Q
E K M Q E A K E K S I J A H D E Q T R L I A K E E A A G G E E A I F S L L L F A H A S Q Q
K V L E K A N K D I V A S H K L Q T E T V Q K E A A G G E E A I F S L L L F A H A S Q Q
P R L K E G E Q F Y R Q A H E Q H G R L L K E V E N T L J E P Q I T L L M S H A S Q Q
E Q M E A S K Q A K A A H A I Q T R L I E Y D E G E G K P V H L I M V H A S Q Q
Q L L K E A S D E L L K A H K V Q T S F I Q E D A Q E K L G V L P V I L V H A S Q Q
K L I E E A G K D L V N A H K V Q T H L I Q E E T R G E N K R T E V S L L F M V H A S Q Q
Q K L V Q A K Q D I V L J A H K A Q T E T I Q K E A A S G R K T E F S L L F A H A S Q Q
D R L K E A E E A I N E A H H I Q T T L I Q E E V R G N H A T V S L L L M V H A S Q Q
L F I D T A D K A L T E V H K T Q T T L I G Y D E A T G V G K V N M T L I L T H I Q Q
S A L A A A K E L L L A H Q A Q T E V I Q K E A A T G G F Q Q Y E P S L L L F T H A S Q Q
K L I E E G A Q E L R L J A H D S Q T Q L I Q K E A A N G G E P T K L S I L L L V H A S Q Q
A M L A A A R Q A C G Q A H T M Q T R L I G L D E E G S G K V P V I L L M V H A S Q Q
K S M E A A D E F L S N A H N V Q T K L I Q E E A A G G K K T E I N L L M V H A S Q Q
E Q I L L Q G D E V L S T A H E T H M Q L L Q K E A A E N T P Q V V S M L V L H A S Q Q
Q Q L A A A S E S L S A A H Q Q Q T A L I G L D E E G S G K L P V V T I L L V H A S Q Q
Q K L E A A D S K E F T E A H H I Q T S L L Q D E A N G G N S P D F S L I L L I H A S Q Q
Q K L E E A N E E L V N A H H A Q T G L L T Q E A A S G E K F E V T L L L M V H A S Q Q
I S M N E G D D L D I A Q A H E V H S L I Q K E E A A S G G K S M E F S L L L M V H A S Q Q
A C I E E A R K L D Y E A H N A Q T A L I Q S E L S G G D K S T V S L L L M V H A S Q Q
E K L E E C N K F M I K A H H S H S E L I Q K E A A S G E K V E F S L I L M H A S Q Q
K H I E G A Q A A L K A A H S H H T R S L I E F D E A G E G K L P V H I V M V H A S Q Q
E T I G Q G N E V F A K A H H H F S C I Q R E A E G E Q L P V S I V L F I H A S Q Q
N M K E A S E A I C E A H R T Q T E M L Q Q Q E A A G K P I V L N I I L V H A S Q Q
E Y V R N G N D E A Y A K A H R L H M E M V Q Q E A A G G E N R V E L S I L L F T H A S Q Q
N L M K N G D E Y L N A H R A Q T D L L N A E M R G E E I P L I G I L L M V H A S Q Q
A L L A H G A R E L A V J A H D I Q T D Q L S A E A R E G A T E M T L L L M A H A S Q Q
S M V A E G E K E F I Q G H E A H A G L I Q K E A A N G S V H L N L L L M H A S Q Q
S L I E E G Q Q R L K G H H A H A F E L L Q K D S S A N G N K V P F S L L L L H A S Q Q
S S F K K A E D K L K K A N L K Q K K L F E L D K A S E K I T N S L L L L T H S Q Q
A L M A E G D S C F H E G H R L H A Q L L T K E A A N E K Y L D R L L I H A S Q Q
K K L K E A D D F L V K G H N A Q T A G L L S A E A A N E Y Q D T S L L I M V H A S Q Q
E K I K L A S D E L L A A H K I Q T K F L S Q D S A N G E E L K N L Q V L L M H A S Q Q
A L I K E G D D L L N A H N Q T T E L I T K E A A S G E E I E I F L T V H A S Q Q
E L I V E S E K L I A J A S H H T M D I I S A E A S G E K L T I P V L F M H A S Q Q
E R M T A A R A A L L E A H H A Q A R V L A Q E A A G G E Q P L S L F M I H G Q

	90										100											
UniRef90_UPI00031023E1	D	H	V	M	S	T	L	S	M	K	E	L	V	K	E	M	L	E	L	F	K	
UniRef90_D7V521	D	H	F	M	T	S	M	L	A	N	E	L	I	K	H	M	I	D	M	Q	K	E
UniRef90_UPI0004632EA9	D	Q	L	L	T	T	Q	T	L	M	L	I	A	K	E	F	V	D	V	Y	K	K
UniRef90_G1VL50	D	Q	M	M	A	A	E	T	I	R	I	L	A	E	K	F	I	Q	I	H	K	E
UniRef90_C2WIFY4	D	H	L	M	T	A	I	S	E	Q	K	L	I	E	H	M	I	R	I	T	K	K
UniRef90_Q4A0L4	D	H	L	M	T	A	I	T	F	K	D	M	A	A	E	M	I	D	L	Y	K	K
UniRef90_B1QVW8	D	H	L	M	T	A	I	S	E	K	N	L	I	E	Q	I	I	E	L	R	K	
UniRef90_W0L529	D	H	L	M	T	A	M	L	A	N	E	L	I	K	E	M	I	E	V	Y	R	
UniRef90_UPI0004194B69	D	H	L	M	N	A	M	T	V	M	D	L	C	K	E	M	I	E	I	L	K	K
UniRef90_UPI0002197592	D	T	L	M	T	T	Q	S	E	V	S	L	I	K	Q	M	V	E	L	L	K	
UniRef90_B1QW79	D	Q	L	M	T	A	I	S	E	N	A	L	I	G	K	M	I	K	M	Y	R	N
UniRef90_UPI0004195F2B	D	Q	L	M	S	A	E	A	F	K	T	I	A	Q	E	F	I	D	T	H	K	R
UniRef90_R2PGC3	D	H	L	M	N	A	I	S	Y	I	G	L	T	Q	E	L	I	D	V	Y	K	R
UniRef90_R5ZA77	D	T	L	M	T	T	M	I	L	E	K	Q	T	R	F	T	I	D	A	Y	K	R
UniRef90_R9J6V8	D	H	L	M	T	S	M	L	A	Q	E	L	I	R	E	L	I	Y	L	H	E	
UniRef90_H2J8H4	D	H	L	M	G	A	V	L	I	K	D	L	A	A	E	I	V	T	M	Y	E	K
UniRef90_R5XHT9	D	Q	L	M	G	T	E	T	C	K	I	M	V	N	E	L	I	E	A	Y	K	R
UniRef90_UPI000376010F	D	H	L	M	N	A	M	L	S	R	D	L	V	K	E	L	I	Q	S	E	K	E
UniRef90_R9LKU6	D	Q	M	M	G	A	E	T	F	K	A	M	V	E	Q	M	I	D	V	Y	K	E
UniRef90_D5DBA1	D	H	L	M	T	A	I	S	E	Q	K	L	I	E	H	M	I	K	L	I	K	K
UniRef90_R6V110	D	T	L	M	T	I	K	S	E	L	H	L	S	R	Q	L	I	D	V	L	K	T
UniRef90_R9CET2	D	Q	L	I	S	A	E	T	I	K	D	L	A	I	E	L	I	E	M	N	K	A
UniRef90_I8AL80	D	H	L	M	T	A	M	S	E	Q	K	L	I	E	H	M	I	S	I	V	K	K
UniRef90_S0KIH1	D	H	L	M	N	A	I	T	F	R	D	L	A	N	E	V	V	A	I	H	Q	E
UniRef90_UPI0003006A03	D	H	L	M	T	T	M	T	L	K	E	V	A	S	E	M	L	H	L	Y	K	K
UniRef90_V9H877	D	H	Y	M	T	S	Q	L	A	R	D	L	V	E	T	L	V	E	V	F	K	
UniRef90_M4U3K7	D	H	L	M	D	A	M	V	I	Q	D	L	A	V	H	L	V	A	L	Y	A	R
UniRef90_UPI000365C6A6	D	H	L	M	T	T	I	T	E	I	N	L	I	R	E	L	I	E	L	R	K	
UniRef90_U7PD56	D	H	L	M	T	T	M	A	L	R	D	A	A	N	Y	M	I	D	L	Y	E	Q
UniRef90_S4YTP7	D	H	L	M	N	A	M	V	I	Q	D	L	A	D	D	M	I	E	L	Y	R	R
UniRef90_D1AWK8	D	H	L	T	M	A	L	L	T	K	D	L	A	K	E	I	I	E	L	H	K	K
UniRef90_UPI0003940FD7	D	H	L	M	N	A	I	T	S	R	D	L	A	I	E	M	I	D	M	Y	K	
UniRef90_B6FYB4	D	Q	L	M	A	A	E	T	A	K	L	M	A	E	E	I	I	K	L	N	R	R
UniRef90_Q03GK4	D	T	V	M	T	I	M	S	E	Y	N	L	A	K	R	L	I	N	I	F	E	K
UniRef90_C5EFX1	D	Q	M	M	S	G	E	V	F	K	I	M	A	E	E	M	I	E	L	Y	K	K
UniRef90_D1AH37	D	T	L	M	N	A	I	L	A	E	T	I	F	E	E	F	I	E	L	Y	K	N
UniRef90_UPI0003607837	D	H	L	M	T	S	M	T	L	R	E	V	A	L	E	M	L	E	L	Y	K	K
UniRef90_UPI0002E828F0	D	Q	I	M	S	A	E	T	I	K	I	M	A	L	E	M	I	E	M	C	R	Q
UniRef90_U2TIJ1	D	H	L	M	T	S	I	L	A	L	E	L	I	Q	E	L	M	E	E	L	Y	R
UniRef90_W4CLL4	D	H	L	M	N	A	L	T	V	R	E	L	A	V	E	L	I	E	L	L	K	
UniRef90_R2RF53	D	Q	L	M	T	T	S	L	L	H	D	M	A	G	K	M	V	E	M	Y	Q	K
UniRef90_R5QXS6	D	Q	L	M	S	A	E	T	I	K	V	M	A	L	E	I	I	R	L	N	E	R
UniRef90_A7GUY9	D	H	L	M	N	A	I	T	V	K	E	L	A	S	E	F	I	A	L	Y	K	K
UniRef90_W1JBF0	D	T	L	M	T	I	R	S	E	L	I	L	R	E	E	I	I	S	L	Y	K	H
UniRef90_L8A034	D	H	V	M	S	T	L	A	M	K	E	L	V	K	E	M	L	A	L	L	K	
UniRef90_C7REJ4	D	H	L	T	M	A	T	M	A	M	E	N	A	R	R	M	I	K	M	Y		
UniRef90_W0GPK6	D	Q	M	M	T	S	Q	M	V	V	I	E	L	A	K	E	F	I	N	L	Y	E
UniRef90_UPI0004089325	D	Q	M	M	S	A	E	L	I	K	S	L	V	E	E	M	I	E	M	Y	K	D
UniRef90_A8FIW4	D	Q	M	L	T	T	E	T	I	H	L	L	A	I	E	M	I	E	M	C	K	K
UniRef90_UPI0003FBBB2C	D	H	L	M	T	V	M	S	E	K	D	L	M	E	E	L	I	L	L	H	R	Q
UniRef90_UPI00047C8DD6	D	N	M	M	N	T	I	L	A	K	T	F	A	E	E	M	M	E	M	Y	K	A
UniRef90_K0NJ57	D	T	L	M	T	T	M	L	L	K	D	Q	M	E	T	I	I	N	L	Y	E	R
UniRef90_R6FPP0	D	Q	M	M	S	A	E	V	I	K	S	L	A	E	E	M	I	E	M	Y	K	
UniRef90_UPI000470A3F1	D	H	L	M	T	T	I	T	E	M	N	L	I	K	E	L	I	D	L	R	K	E
UniRef90_T0JY48	D	H	L	M	T	A	M	S	E	K	N	L	I	E	S	M	I	G	M	H	K	T
UniRef90_R6UQN9	D	Q	L	M	S	A	E	S	F	K	I	I	A	D	E	M	I	Q	N	Y	E	R
UniRef90_L1QKU3	D	H	L	M	T	A	I	E	A	R	N	L	I	E	K	M	I	K	M	Y	K	I
UniRef90_R3TSV2	D	H	L	M	N	S	L	L	A	R	D	L	I	E	E	M	I	E	I	L	K	
UniRef90_U4WNF7	D	T	L	M	T	V	K	S	E	Y	E	I	A	K	R	L	V	R	V	F	R	R
UniRef90_R5TW22	D	Q	I	M	S	A	E	L	V	R	V	L	V	E	E	L	I	E	I	Y		
UniRef90_D2TSN3	D	H	L	M	T	A	M	L	A	Q	E	L	I	Q	E	M	L	A	L			
UniRef90_W9AKP4	D	H	L	M	T	V	M	S	E	K	T	L	I	E	E	M	M	Y	L	Y	K	R
UniRef90_UPI0003723E2F	D	H	L	M	N	A	I	T	I	K	D	L	A	S	E	I	I	R	L	H	E	I
UniRef90_W7C2Q8	D	T	L	M	T	V	S	S	E	H	N	I	A	S	Q	L	I	Q	L	F	K	
UniRef90_UPI000478715E	D	H	L	M	T	S	I	T	I	K	D	L	A	R	E	F	V	D	L	Y	K	T
UniRef90_V5HLH0	D	H	L	M	T	A	M	L	C	K	D	L	A	L	E	I	I	A	I	H	R	K
UniRef90_K8QJH2	D	H	L	M	T	I	S	S	E	L	V	M	I	Q	A	M	I	E	L	F	E	Q
UniRef90_UPI000316C34C	D	H	L	T	T	A	M	I	N	I	A	H	A	E	E	F	L	H	I	Y	K	Q
UniRef90_Q2NRG6	D	H	L	M	T	A	M	L	C	Q	D	L	A	A	E	L	I	L	L	R	L	E
UniRef90_M1MWN6	D	H	L	M	N	A	M	T	I	K	D	L	A	K	E	I	I	E	M	Y	E	K
UniRef90_UPI0003B42E8B	D	Q	F	M	S	C	E	T	I	K	V	L	V	L	E	I	I	E	I	Y	K	K
UniRef90_J3HIZ5	D	H	L	M	N	A	M	L	I	Q	D	L	A	G	E	I	I	E	L	Y	R	R
UniRef90_Q8CZE0	D	H	L	M	N	A	L	T														
UniRef90_W1SMY7	D	H	L	M	N	A	I	T	F	L	D	L	V	K	E	L	I	D	V	H	K	K
UniRef90_R5J2Z5	D	Q	M	A	S	T	E	M	A	K	V	M	A	R	E	F	I	E	L	Y	R	E
UniRef90_T3UV91	D	H	Y	M	T	S	Q	L	S	R	D	L	I	E	K	L	I	D	I	F	E	
UniRef90_U2NM09	D	Q	M	L	S	A	E	T	T	M	V	L	A	N	E	I	V	D	M	Y		
UniRef90_B6EMG1	D	H	L	M	N	A	V	L	L	M	D	M	A	T	E	I	I	Y	L	H	K	
UniRef90_B0MC42	D	Q	L	L	S	T	E	I	M	R	D	M	A	V	Q	L	S	D	V	Y	E	E
UniRef90_UPI00037234AB	D	H	L	T	M	A	I	E	T	T	K	N	A	E	E	F	I	H	I	Y	K	
UniRef90_R7G9V1	D	Q	L	M	N	A	E	L	L	K	T	L	C	D	E	F	I	D	L	Y	R	R
UniRef90_UPI000314C40B	D	H	F	M	H	A	M	T	Y	K	Q	S	A	A	D	L	I	R	L	Y	K	K
UniRef90_U2TX36	D	H	L	M	N	A	M	T	V	H	D	L	A	T	Q	M	V	E	L	C	R	Q
UniRef90_UPI00037E44FB	D	Q	L	M	S	A	E	G	F	K	I	V	A	E	E	F	I	D	A	Y	E	R
UniRef90_D0BN95	D	Q	M	M	S	A	E	I	L	Q	V	T	S	E	E	I	L	A	L	Y	Q	R
UniRef90_E3DMV4	D	H	L	M	I	N	S	L	L	K	D	L	A	R	E	L	I	D	L	H	K	K
UniRef90_U5F5F6	D	Q	M	M	A	A	E	T	V	Q	L	L	A	E	K	F	I	H	L	H	E	R
UniRef90_UPI00029B54AC	D	H	L	M	T	A	I	A	F	K	D	L	A	R	K	I	I	D	L	Y	R	I
UniRef90_A0A024PPM5	D	H	L	M	T	V	I	S	E	K	D	L	I	K	E	M	I	E	M	Y	K	R
UniRef90_I0GN03	D	H	L	M	T	A	M	L	L	S	D	M	D	K	R	F	L	K	M	F	R	
UniRef90_V5RIW5	D	Q	L	L	T	T	E	T	V	I	L	S	K	E	I	I	E	I	H	E	K	I
UniRef90_W1Q4Z6	D	H	L	M	T	S	I	A	F	V	D	L	A	Q	E	L	I	E	V	Y	Q	V

UniRef90_C2BGB5 REEELTNAAGLKVVA F S G D A R S N F L E A L D L A K K G K F E E A D D
UniRef90_D4GL52 ESTVLELILIQAGGEAKRSY S MEALRQAARKQGNWSE R A D D
UniRef90_UPI00036142BB EQDLFESLSSNVGAAKSSSEYMKALRQSAVKRQGNFSEVSE
UniRef90_D6DDI8 EGFEMLCFESLSSNVGMAKSSSEYVVEAMRQSAVKRQGNFSEVSE
UniRef90_A6LWT6 MEQEITFESLSSHAGDARSAYAFEALEDAEENKNDYDKAE
UniRef90_R6UKS8 MMS EQTVEIQSAMSILLHAGDARSVA Y C KEALDAIASEADDFE T S A E
UniRef90_U2Q896 DMVEITFQILITYSAGDARSVVFEAAMSSVFAASEGADFFETASK
UniRef90_F0Z242 MNQE EMQAISFELISYAGDARFSYFFQAVDRAKSEGKAE E A E
UniRef90_UPI00030B71FC E L E Q E I I M Q I I T N G G D A R A N C I K A I L G R E A R K S G E I T S K A E
UniRef90_D1AI90 D L E R D I A I S F Q I I S F A G D S F S T M L K A L G K A K E K D F E Q A Y
UniRef90_S1RPS3 N Q E Q L T T E M G L I I H G G N A K S L F F E A T C A A K K G D F E Q A Y
UniRef90_U2NJ31 E E L Q L A A F Q I I S E V G T A K S Y I M E A L I G F A R N K K L E E A K E
UniRef90_F4LRX4 D L E R D I A I S F Q I I T Y S G E A T S L S I E A L I E Y A R N G E F A K A E
UniRef90_R6V1R0 V S M S L I M H A G N A R T K A N E A L D G I A S F D F E R A K
UniRef90_F5X3D4 MNNE MT TVAMQM L H A G D A R T Y I V E A L Q N A I K I F N F E V A K
UniRef90_W6AKP6 MNKE K L E E I S M G L I S N S G M A K S S A M M A I E A A A E S G D F D Q A K
UniRef90_UPI00037979DD M D E I I F Q I I S L G G T A K S S L A Y E A L E A A E S G D F D Q A K
UniRef90_UPI0004274695 E G I E L A A F T L I S E V G T A K S S L I M E G L Y A A R E K K L E E A K
UniRef90_UPI00028950A8 E Q I S F Q I I L H S G N A R S C I I Q S L R A Y K E G N F G E A D
UniRef90_UPI000416084E E N E L V G V A M Q I I L H A G D A R T A V E R A L D C I K E E N F T E A K
UniRef90_H6CPW6 D Y E Q A I M Q L I A S S G E A R S L S L K A I R V A R E N N F Q G A E
UniRef90_UPI0003153F0E E K Y E Q I A F Q I I T N V G M A K S T Y M Q A I Q E A K S N N F Q G A E
UniRef90_UPI000380C89D D G L E L I S F Q I I A A V G T A R S N Y I E A M E V A I K G D F E K A E
UniRef90_E4RNG5 D Y E Q L V F T I I S N A G D G K S F F E A L S H A R N G E F N L E A E
UniRef90_F4LWQ5 E Y E E L V M K I I V N G N A R S H A M T A I Q L A K S G N F E A R E
UniRef90_T0VJA8 M V K E Q I V Q H A M Q I I L H A G D A R K H C M D A L K A I E S Y D F A L A E
UniRef90_I6S0S2 E T D S L N E L S M N I L I H A G N A R E L V K G L N D A L E E M A F D E A E
UniRef90_V6IZP3 E Q A E E A V F K L I L H G G N A R G E A Y E A L D A A E D F N F E E A Q
UniRef90_Q5WBR2 N V I E V E I F N M I S N A G D A K S I A Y E A L K L A Q N N D F H L A N
UniRef90_H3NPP1 M I C F Q I I S S S G A A K S S Y I E A M R Y A R K G D F E K A E
UniRef90_F4LRK4 M K K E D I Q K I A F Q I I A Y A G S A F D Y F N Q A I D L A S K N N I E A E
UniRef90_E7GDQ0 M E E E M T I I L N A G D A R S K C L L A L K S A R K G E F E K A K
UniRef90_D9RAV8 M I C L Q V I I S N A G D A R S Q C M C A L E S A R N G R F E E A E
UniRef90_U2EJP4 N M E L E I F Q I I S H G G A R S G F A Y E A L K A A R K N D M K A D
UniRef90_UPI0002E08860 E A L E N V S F Q I I S Y A G S A K A K C Y E A L Q A V K A G D F E K A E
UniRef90_UPI0003B6E7F6 M N K S E L Q V M G L I S S S G E S R A K A F E A L T Q Q V R R H D Y N E T A F
UniRef90_W8QSR1 E M E Q I V F Q L I L H G G N G R S S A M E A L T C A K Q G N F D E A K
UniRef90_E7GBD6 T V A M E I I L H A G H A K T L A D E A F Q L A K E E K F K K A Y
UniRef90_R2NZB5 M D S E K T Q E I S F E L I L A S G D A R T M I H Q A F E Q M R I S S C Q A A Q
UniRef90_B6G895 D E T Q I A C F S L I S Y V G E A K S C Y M E A L R A A R K G S F D Q A R
UniRef90_H1BB74 E E N L I E I A M K M I L N A G D A R S S I K E A L D A V M D D N R T L A E
UniRef90_C0DA34 M E E T I M T L V S K G Q A R S A A Y E A L G E A K G G R F E E A Q
UniRef90_F4EF18 M E M I V A D Q L I M G L I I Y A G D A K S H A Y Q A L S L V K A G E E E R A E
UniRef90_Q7AJR0 Q I P F M I I L H S G N G R S K I L Q A L R E Y R E G K E A E A N
UniRef90_H1B4F0 D T E I T Q V A M Q I I L H A G D A R T Q L E K A L G E A E D G N F H K V D
UniRef90_N9WMR5 E E L M L E A F K I I S E A G N A S A S F L K A V A A A E N E C F E E A E
UniRef90_UPI000479F6DF M I T E K N A Q N A M Q I I L H A G D A R V H C M N A L K G I E K S D F E T A K
UniRef90_F3P0U9 D I E T S F T I I T S A G E A R T L L Y E A V D K A R A G K I S E S K
UniRef90_K9AP19 M S K E D N M L V G F A I V A I A G Y A R R E V M Q A L E C A K N N Q I D E A K
UniRef90_F2N7E3 L M S F G L I A D A G D A K S L A F M A L N E A K K G D F K R A E
UniRef90_M5DYZ6 E L Q N A L I E I I S T S G E V K K K F L K A V K Y A K N N E F E Q A E
UniRef90_F0K511 Y S G D A R S Y M Y E A L S K A R E G K Y D E I N
UniRef90_I7KGK3 E N S Q N M E V V M G I I M Q A G N G K A A A M Q A L Q A A K K G D F K K A D
UniRef90_D9R3Z4 D E N Y A V A F Q L I M N A G N S K S L S M M A M E S A R E F N F E A E
UniRef90_G2SWL0 E T E Q Q R E A A M E I I A K A G A K S C A F A A I H R A K D F D F A G A A
UniRef90_E2SQ55 D K A T E L A F Q L I T L A G D A K S M A F E A L A D A R K K D F V S A E
UniRef90_R9BTR1 E L E M Q L L Q I I T S A A G D S K A K A F Q A F Q K I Q E S D Y E G A R
UniRef90_R9CAU8 E E M Q T A A F Q I I T Y A G E A R S N Y V E A I R I A R A G E I E A R
UniRef90_F4BS93 D L E M I I F D I I G H G G N A R A L A Y E A L E K A R A G E Y D E C D
UniRef90_UPI000471ABEA M T Q D E L N E V A M Q M I L H A G N G R N L I K E A L E K M D E Y F A E G E
UniRef90_D4JCI0 E G M E L V S F Q I I A S V G A A K S M Y M E A M K A A Q E D F D F E K A E
UniRef90_R6UGZ4 E L E Q Q I I G I I S A A G D S K G K A F E A L R K V K E S D Y E G A R
UniRef90_U2N7L2 E M I V M D I I M T A G E A K A Y M Y E A L S K A K E G K F E E I G
UniRef90_UPI000400CA8D R E Q T A A V A M Q I V I R A G D A R N L I M E A L D C I G E S Q F S A A Q
UniRef90_D4F9J9 D K A E S I I M E L L V N A G T A R S L L L A A L Q R A R E G N R H E A E
UniRef90_UPI000379C575 N E E V V Q N S M Q I I L H A G D A R V E C Q K A L K C L A N F E L E A K
UniRef90_C5EEH6 E I E Q V S I Q I V S A V G T A R S C Y I E A I R E A R K G D F F E R A E
UniRef90_U2N0G6 D E M E Q I V F S L I T N S G A A R S Y A F E A L D E A L S G K Y E G A V
UniRef90_R4U2K2 M E K L N F E E I S F Q I I T Y A G M A K S N A L I A I D K A K T G G I E A E
UniRef90_UPI0004684195 M Q I I F S G D A R K F I M Q A L D L V G D A K Y N E S E
UniRef90_K8EL92 N D E M N Q V A M Q I I L H A G N A R Q V I F E V F D E I G D E H F D H A K
UniRef90_R6MUX6 M N K E E M E K I T F E M I T A V N E A R H S Y I D A I Q S A K N K D F V K A E
UniRef90_UPI000479A30A E E T I F Q M I L H S G N G K S L A M E A I S F A R M K N D F S E A E
UniRef90_C4U1Y2 D L E M T V M E L I I H A G E S R S N S M E A L R A A R Q G E W E K A D
UniRef90_W5SR06 K E L I D D I S M P V I V A Y S G E A K S F L Q D E A F E Y A K A G N Y N K S K
UniRef90_B9Y895 E I D L N Q V A M Q I I L H S G S A K T L A D E A F Q L A K A K K F K E A Y
UniRef90_R6UYK4 M T D E N N E L I A M G L I L H A G D A R L H T K E A L K Y V Q A L Q F E K A D
UniRef90_UPI000479159C M E T I F E M I L H G G N G K S H A M E A I E L A K E G K F E E A E
UniRef90_F3YB60 E G L E L L S F N I S N I G T A K S M I M E S L I Q K S R T G Q F E E A Q
UniRef90_UPI0003F85EF2 E E K D Y G V A F Q L I M N A G D S K S A S M M A I E A A R K F D F V T A Q
UniRef90_U2NIJ2 D L E N E V M E L I A N A G Y A R S L V F Q A M R C A R E E D F V Q A E
UniRef90_R4PZX2 N N T E T Q D I A M T L A Y S G E G R T L A F N A L D A M H R D A F S E S K
UniRef90_Q67QV5 N L E Q L N L I A M R I I L D A G D A R D F V T K A F E A M G Q R D F E S A D
UniRef90_UPI000379D3BA E F I E K I M V L I A M S G A A R S Q A M E A M L A K Q G N R P A A A A
UniRef90_A8SDV0 S D K M V E V A M G I I I N A G D A R T C A A D A M Q A E L R G N D R A A D
UniRef90_D3ULE3 D I E K I S F S L I S L A G D S F S K L I E A L Q A A K E S D N R A V E
UniRef90_U4VIM4 I F E I V H S G N A R G L A F E A L S A A E E Y N F E K A A
UniRef90_BOA7P7 M D G Q A I F D I S F Q I I C S S G E A R S M A M E A I S L A K E Y K I E A R
UniRef90_F5YM40 E E E A M Q L I V N A G N A K S H A M T A I S R A K E G K P D Q A Q
UniRef90_R5QTA9 V A M K I I M N S G N A R T K A N E A L E A L S I F D F S N A H
UniRef90_UPI0003F7AB1C D E R T L N S A M N I M Y A G D A R S S I T A L K V A R E G S K E G L
UniRef90_KON2E1 M T Q K D T N E V A M Q I I I Y A G N G R N K A L E A V Q L A K N K Q L A A Y

UniRef90_C2BGB5
UniRef90_D4GL52
UniRef90_UPI00036142BB
UniRef90_D6DDI8
UniRef90_A6LWT6
UniRef90_R6UKS8
UniRef90_U2Q896
UniRef90_F0Z242
UniRef90_UPI00030B71FC
UniRef90_D1A190
UniRef90_S1RPS3
UniRef90_U2NJ31
UniRef90_F4LRX4
UniRef90_R6V1R0
UniRef90_F5X3D4
UniRef90_W6AKP6
UniRef90_UPI00037979DD
UniRef90_UPI0004274695
UniRef90_UPI00028950A8
UniRef90_UPI000416084E
UniRef90_H6CPW6
UniRef90_UPI0003153F0E
UniRef90_UPI000380C89D
UniRef90_E4RNG5
UniRef90_F4LWQ5
UniRef90_T0VJA8
UniRef90_I6S0S2
UniRef90_V6IZP3
UniRef90_Q5WBR2
UniRef90_H3NPP1
UniRef90_F4LRK4
UniRef90_E7GDQ0
UniRef90_D9RAV8
UniRef90_U2EJP4
UniRef90_UPI0002E08860
UniRef90_UPI0003B6E7F6
UniRef90_W8QSR1
UniRef90_E7GBD6
UniRef90_R2NZB5
UniRef90_B6G895
UniRef90_H1BB74
UniRef90_C0DA34
UniRef90_F4EF18
UniRef90_Q7AJR0
UniRef90_H1B4F0
UniRef90_N9WMR5
UniRef90_UPI000479F6DF
UniRef90_F3P0U9
UniRef90_K9AP19
UniRef90_F2N7E3
UniRef90_M5DYZ6
UniRef90_F0K511
UniRef90_I7KKG3
UniRef90_D9R3Z4
UniRef90_G2SWL0
UniRef90_E2SQ55
UniRef90_R9BTR1
UniRef90_R9C4U8
UniRef90_F4BS93
UniRef90_UPI000471ABEA
UniRef90_D4JC10
UniRef90_R6UGZ4
UniRef90_U2N7L2
UniRef90_UPI000400CA8D
UniRef90_D4F9J9
UniRef90_UPI000379C575
UniRef90_C5EEH6
UniRef90_U2N0G6
UniRef90_R4U2K2
UniRef90_UPI0004684195
UniRef90_K8EL92
UniRef90_R6MUX6
UniRef90_UPI000479A30A
UniRef90_C4U1Y2
UniRef90_W5SR06
UniRef90_B9Y895
UniRef90_R6UYK4
UniRef90_UPI000479159C
UniRef90_F3YB60
UniRef90_UPI0003F85EF2
UniRef90_U2NIJ2
UniRef90_R4PZX2
UniRef90_Q67QV5
UniRef90_UPI000379D3BA
UniRef90_A8SDV0
UniRef90_D3ULE3
UniRef90_U4WIM4
UniRef90_B0A7P7
UniRef90_F5YM40
UniRef90_R5QTA9
UniRef90_UPI0003F7AB1C
UniRef90_K0N2E1

50 60 70 80
Q Y V A M A N E N L L E L A S L Q A Q K D F L E N E A E G S G R Q Q L D F L A I H H A Q Q
S M L T A M A T A Y A A K A A A H Q I V Q Q T R T K L I G A D E E A G S G S K E P P V L N S F L I M V H A H A Q Q
S L F K T G D G D E F Y L L A A A H K D V H H T R K M L L Q K E E A G G G E S P K N S G V L L L M V H V H A Q Q
S K M K T E G D E F Y L L A A A H K D V H H T R K M L L Q K E E A G G G E S P K N S G V L L L M M V H A H A Q Q
E F L K K A R A Q T E E L K L L A H S T Q Q T D N A I Q K A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
V K L M E K E A R K E I L T E A S H K V I Q Q T D N A I Q K A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
U2Q896 E L M K K G D E E Q M V N A H R A Q Q T S L L L Q K A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
F0Z242 E L L N K A K K S L N V J A H N V V Q Q T S L L L Q K A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
UPI00030B71FC A L L M E K A A D K S L N D D A H N V H H T E I L L V S E E A A R G G E S P K N S G V L L L M V H A H A Q Q
D1A190 Q K L K E A A D E E L L N A H Q T Q T Q I L V Q K E E A A R G G E S P K N S G V L L L M V H A H A Q Q
S1RPS3 E T L K K A A E E H L K E G H K G V Q T D S L V M H R E E A A R G G E S P K N S G V L L L M V H A H A Q Q
U2NJ31 D C F K E A A D E K L I M A H K V Q Q T S L L L Q K A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
F4LRX4 E K I R E A A E D I I R A H Q G Q Q T S L L L Q K A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
R6V1R0 E K I A K A E K E S L I E A H Q Q T S L L L Q K A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
F5X3D4 Q L I K E A A Q E S L A T A G Q T I H H K M V I Q A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
W6AKP6 V Y L A E A D Q Y L K A S H Q V Q Q A S G L I Q A E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
UPI00037979DD E K L K E A S R T E L N N G H K A H H S G L I Q K E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
UPI0004274695 A L I A Q A E A R D A L S A A H D V H H S Q M L Q K E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
UPI00028950A8 E K M V E A R E E C I R L J A H V S Q T E V I Q N E E T R G G K D K E S E Y S V N L L L M V H A H A Q Q
H6CPW6 E V L M Q A E G Q L T K A H K V V H K D G L I Q A S E S A R G G E S P K N S G V L L L L I H A H A Q Q
UPI0003153F0E D L V K E A G N K Y L T E G H K V V H K D G L I Q A S E S A R G G E S P K N S G V L L L L I H A H A Q Q
UPI000380C89D A L I K E G E E E F V K A H T A H G E L L I T K E E A A R G G E S P K N S G V L L L L I H A H A Q Q
E4RNG5 E K L E A A E D S L N K A H D K Q Q T R L L T Q D E A A S G G E S P K N S G V L L L L I H A H A Q Q
F4LWQ5 R E I D M A A E E L D K A H D V Q Q T R L L T Q D E A A S G G E S P K N S G V L L L L I H A H A Q Q
T0VJA8 V E I K Q A N E E E I V Q A H R I Q Q T D A I T A M E A T S G G E S P K N S G V L L L L I H A H A Q Q
I6S0S2 E L I Q S A H K E D E V L J A H G L W Q T D T I R N A N A G Q R T P S Y S F L M V H A H A Q Q
V6IZP3 K H L D A A E K E F V L K G H K W Q T E T I Q A E E T R G G E S P K N S G V L L L L I H A H A Q Q
Q5WBR2 E K L E T A N K T L A K A H N T Q T K L I Q A E E T R G G E S P K N S G V L L L L I H A H A Q Q
H3NPP1 E L I E E S G K K E Y L K A H E A H T S E L I A Y K E E T R G G E S P K N S G V L L L L I H A H A Q Q
F4LRK4 E K I R S G N E E L N R A H N A Q S S I L A C Y E E T R G G E S P K N S G V L L L L I H A H A Q Q
E7GDQ0 E Q L K Q V S Q S M I L J A H N V Q T R L I Q K E E T R G G E S P K N S G V L L L L I H A H A Q Q
D9RAV8 S Y F N E S L E R L Q A A H H L Q T G L I T K A E A R G G E S P K N S G V L L L L I H A H A Q Q
U2EJP4 E L L V K A Q E E L D D A H N T Q T K L I Q A E E T R G G E S P K N S G V L L L L I H A H A Q Q
UPI0002E08860 L L L K E G Q E E L F I E A H K V H H T Q Q L I Q K E E A N N E A V T P T L L L L I H A H A Q Q
UPI0003B6E7F6 K L L Q E A K E L D T E A H N A Q T E M L Q Q G E E R G G E S P K N S G V L L L L I H A H A Q Q
W8QSR1 Q K L Q E A Q D A L N E A H H A Q T E L I Q Q G E E R G G E S P K N S G V L L L L I H A H A Q Q
E7GBD6 E R I E E A T T Y I L K A H Q S Q Q V Q V I Q D E A A S G G E S P K N S G V L L L L I H A H A Q Q
R2NZB5 E L L D T A N D S L V K A H R Q S Q S K M L T R E Y A A T G S F T C D I L L L I H A H A Q Q
B6G895 T L V E Q G S A H F A E G H Q A H G T L I Q R E A A A G E M D Q D I T A L G V H A H A Q Q
H1BB74 E K L V E S K R F I E Q A H L Y Q Q T E V I Q R E A A A G E M D Q D I T A L G V H A H A Q Q
C0DA34 K K M Q E S A Q W V M E A H D I Q T E L L V M Q E A A R G G T K S D I T A L F V H A H A Q Q
F4EF18 E E L E L A D A A L L E A H N M Q T K F L A Q E E A T R G G E S P K N S G V L L L L I H A H A Q Q
Q7AJR0 D L L V E A E K D N L V A H E I H F K L V Q Q E E A T R G G E S P K N S G V L L L L I H A H A Q Q
H1B4F0 Q L M E E A R D N I L A H N S Q T A L I Q K E E A S G G C H H E F Y S M L F T H A H A Q Q
N9WMR5 V Q L H T G N E S L V A A H Q L Q T R L I Q K E E A S G G C H H E F Y S M L F T H A H A Q Q
UPI000479F6DF E E M K R A N D E I V K A H R I Q Q T D A I S E E T Q G G T G D Y S V L L L I H A H A Q Q
F3P0U9 Q C M T J A D K F L K S A H D V Q T E L I T R D L N G S L P M S F I M V H A H A Q Q
K9AP19 A H I E K C N E F I T E A H K E Q T Q L I A K E A S G G E L A D M S F I M V H A H A Q Q
F2N7E3 E L M A E S D Q A F L S A H E K Q T A F L V R E A A N G D H T E V N V M L V H A H A Q Q
M5DYZ6 E I F N E A E D Q L I K A H L K Q T E L I K Q K E A N G E D K L E G S I L M L T H A H A Q Q
F0K511 G L I K Q A N D A I G K A H D I Q T S M L Q K E A N G E A L K V S I L F V H A H A Q Q
I7KKG3 E F I H Q A N E A L V N A H N V Q T D M L T K E A Q G G H H V K V V D L Y M V H A H A Q Q
D9R3Z4 K Y L K E A E V E M R S A H K Q S Q D L L Q R E A A G G N Q P V D V N I L I H A H A Q Q
G2SWL0 E Q L D E A E R Y A T E A H K V H H T D L L V R E A A G G Q T D A G L L M T H A H A Q Q
E2SQ55 N K I K Q C D E K I K E A H K V Q Y E L L S R E E C S G C D V T I N F M M V H A H A Q Q
R9BTR1 A L L K E A R D I D L E A H K A Q T E L I R K E D D G G E L P V S L L L M V H A H A Q Q
R9C4U8 Q K I T E G E T S Y N Q I H K V H H A S L I Q R E A S G G E Q L P F S L L L M H A H A Q Q
F4BS93 K L M E E C K N E M N L A H N T Q T K L V Q D E E R G G E D I K I S L L L I H A H A Q Q
UPI000471ABEA E Q L K E A K K E L N L A H N A Q T K V V Q Y S M E N P V E L N L L F T H A H A Q Q
D4JC10 K L I E D A E M F L K G H E A H A S V I Q K E A S G G E P V V N P T M L L M H A H A Q Q
R6UGZ4 A L L E E S R K I D L E A H K I Q T K L I Q S E M E A E K P E L S L L M V H A H A Q Q
U2N7L2 N L I E K A E D E L E K A H N V Q T S L L T K E A S G G E N L N L S M L F I H A H A Q Q
UPI000400CA8D E R L K E A Q A E I R Q A H L A Q T E V I Q A E A S G G K E F A Y S M L F T H A H A Q Q
D4F9J9 H A L A E A Q R Y I Q C A H A M Q T K L I A R D E G S G Q F P V N L I T V H A H A Q Q
UPI000379C575 S H L K V A N K K I V E A H K V I Q T D A I S T E T N G N Q R E Y S V L F A H A H A Q Q
C5EEH6 Q L V Q E G K E A F S L G H E S H F T N L I T Q A A N D G N Q I G F D L L L M H A H A Q Q
U2N0G6 D L M Q K S R V I E I S N A H K I Q T S L I Q N E A A G N K T E V S L L L V H A H A Q Q
R4U2K2 K L I T E A E H I I E A E K T H T M N V I Q K E A A G G V K H Q L P V L F M H A H A Q Q
UPI0004684195 Q L L K Q A H E Q I V K A H A L Q T D K I Q K E A A G G E Q L E Y S V L F T H A H A Q Q
K8EL92 E L L K E A K K E L V L A H K A Q T E T I Q A E A S G G I H H D F S V L F A H A H A Q Q
R6MUX6 F L I M Q G D A A Y N K G H R G C H Q M L Q A E A A G G E I K N V N L L V L H A H A Q Q
UPI000479A30A N A L K E A E K E I N E A H G V Q T A L I Q E E V S A G G I P V N S L L M V H A H A Q Q
C4U1Y2 E L L V J A T N A A R E A H H I Q T Q L I G A D E G C G K I P V N L I M V H A H A Q Q
W5SR06 E L I E K S K N S I E K A H D A Q T R R L I Q Y E L T N N P D I T T P F I L I H A H A Q Q
B9Y895 A K M E Q A E T E G I K A H Q A Q T L V I Q E E A R G L A H A P S L L F T H A H A Q Q
R6UYK4 A C L K E A K K E I T Q A H A A Q T E F I Q A E A R G V Q Y E Y C M L F N H A H A Q Q
UPI000479159C A K L K E A D E A L N Q A H H L Q T S L I T D E E V N N P S T Q V T I L M V H A H A Q Q
F3YB60 Q L I E A A N E Y L T K G E H H F K V I T Q E A R G N K N I Q V T I L M V H A H A Q Q
UPI0003F85EF2 Q Y L K E A E A Q M R L J A H Q C Q Q I D M I Q Q E A A G R P V E V N I I L V H A H A Q Q
U2NIJ2 Q Y M Q Q A Q E A L S G A H D V Q T K L L E M D E A G S G Q K I P S I D L L V M V H A H A Q Q
R4PZX2 M L L K Q S E A L G K A H D V Q T Q L L V J A E A N G Q Q V S I D L L L I H A H A Q Q
Q67QV5 E H L R A A F E K L K S A H R Q Q T E V I Q H E V A A G S L P P S L L F N H A H A Q Q
UPI000379D3BA E V L D S A S K E L K E A H K V Q T D V I Q E E A A G G A H E I T L L L F M H A H A Q Q
A8SDV0 A K L K E A D E A I K K A H N A Q T D V I Q D E C G G N P T E I S L L L I H A H A Q Q
D3ULE3 V L L K E A D E E L M I Q A H K E Q T E M L I Q E E T R G G E K A S Y S V L L V H A H A Q Q
U4WIM4 E L L M K Q A Q E E L T L A H H T Q T D L I Q A E L N G E P A E K T L M I H A H A Q Q
B0A7P7 Q M L A D A R T E N K A H K H Q T N L I T S E A N G T K N E V S V L L I H A H A Q Q
F5YM40 Q E L Q E S D E A M T I A H R H Q T E I L Q M T L D D P D Q G M G M I M V H A H A Q Q
R5QTA9 K K I V E A R E D T K K A H K E Q T E I L Q K E A A Q G N H Y K T C L L F T H A H A Q Q
UPI0003F7AB1C E L L E A E A K K N L E A H K I Q T E L L Q G E A A G G N H Y E P S L L L V H A H A Q Q
K0N2E1 Q A I L A S A K K E I T L A H Q A Q T E I I Q N E A A G R H Y E P S L L L F T H A H A Q Q

UniRef90_C2BGB5 D H Y M T T L L L R D L I H N L I D I Y K K
UniRef90_D4GL52 D H L M N A M L C R E L A E E I I Q L R R E E L A
UniRef90_UPI00036142BB D Q L M G C E S I K I M A K E F I H V Y A Q L I
UniRef90_D6DDI8 D Q L M A A E T V R L M A E E N I K L V K R I
UniRef90_A6LWT6 D Q L M T A M S E N V L I E K M V R M Y K
UniRef90_R6UKS8 D T L M T I Y S E I N I A K Q L L K I F
UniRef90_U2Q896 D H L M T S I L
UniRef90_F0Z242 D H L M T T L M Y E R V A K E F I S L Y
UniRef90_UPI00030B71FC D H L M N A L T I K E L A I E M V E
UniRef90_D1A190 D T L M N T I L A E T L L S E I I E L Y K
UniRef90_S1RPS3 D H L M N A L T F R E L A E
UniRef90_U2NJ31 D Q L L T T A T L K D V V T E M I N M Y
UniRef90_F4LRX4 D H L M N S I T T N T L A K E F V K V F S E L
UniRef90_R6V1R0 D T L M T I M S E V N L T E K M I T I F E N F
UniRef90_F5X3D4 D T L M T L K S E Y E L A R Q L I E I F E S I
UniRef90_W6AKP6 D Q M I T A Q L A V E M A V E I I Y L H K N
UniRef90_UPI00037979DD D H L M T A M E A K S L I E A M I R M L E R F
UniRef90_UPI0004274695 D Q M M S T E T I S D L V A E M I R M Y K E M
UniRef90_UPI00028950A8 D H L M S T L T M K E L V K E L L G I F K
UniRef90_UPI000416084E D T L M T I N S E V L L S E K L I D L F E
UniRef90_H6CPW6 D H L M N A L T V R E L A I E M V E
UniRef90_UPI0003153F0E D Q L I S T E I I K E M A K E L I Y V H E N
UniRef90_UPI000380C89D D Q L M S A E T V K I V A L I Q M I E L L K S L
UniRef90_E4RNG5 D H L M N A L L
UniRef90_F4LWQ5 D H L M N A M T V K D L A Q E F I D V Y E R
UniRef90_T0VJA8 D T L M T I Y S E I N I A K R M L A I
UniRef90_I6SOS2 D T L M T A Q S E I L I G E H M V R L F R N F S
UniRef90_V6IZP3 D H V M T A Q A E L N L I K R L V A N Y E L L A
UniRef90_Q5WBR2 D H L M A A I S E M S L I E Q M I A I L R R V A
UniRef90_H3NPP1 D Q L M A A D N F R L I C E E N I S I L K
UniRef90_F4LRK4 D H L T M A L F T E R M A K F I N I W K
UniRef90_E7GDQ0 D H L M T A M A I R D M V E E M V A Y A E E L
UniRef90_D9RAV8 D T L M G A E I T S A L A R E M V E L Y K R
UniRef90_U2EJP4 D Q L M T A I S E K N L I E Q M V E M L K I I
UniRef90_UPI0002E08860 D Q L M N A E I
UniRef90_UPI0003B6E7F6 D H Y M T A Q L S R D L I E E M I K I F Q
UniRef90_W8QSR1 D H L M N A M T V K E L A A E I I E L H E K M
UniRef90_E7GBD6 D H L M T I M S E V I Q T T K K L I E L Y E
UniRef90_R2NZB5 D H L M T T M T L R E V A L E M L G I Y Q K M S
UniRef90_B6G895 A Q L M D A E S C K T Y T V E F L E L H E E L
UniRef90_H1BB74 D T L M T I Y S E Y H L A I K M S E M Y Q R L S
UniRef90_C0DA34 D H L M D C M L A R E L I T E M I E L Y R A L S
UniRef90_F4EF18 D H L M T S I T E I N L I K E I I D L R K E L
UniRef90_Q7AJR0 D H L M S T L T M K D L V K E L L E I F K
UniRef90_H1B4F0 D T M M T I Q C E L R L T Q H I K I L R R L
UniRef90_N9WMR5 D H L M D A I L L K D M A N S I I K L N R K V A
UniRef90_UPI000479F6DF D T L M T I Y S E I N I A K R M I K I F E
UniRef90_F3P0U9 D Q L M T T M S E Q S L I G Q M I G L I Q D I S
UniRef90_K9AP19 D H L M T T M A L R D V A N Y V I D L Y Q T I
UniRef90_F2N7E3 D H L M G A C L A R E L I R E I M A L H Q
UniRef90_M5DYZ6 D H L M T A I L L K D M A Q E F I D L Y D R F
UniRef90_F0K511 D Q L M T T I S E K N L I T E M I E M T K D I
UniRef90_I7KGK3 D H L M T A I T F I D L A K E V V D V Y K K M
UniRef90_D9R3Z4 D H L T M A M M A K D Q A V I E I L N L Y R M I
UniRef90_G2SWL0 D H F M M A T L A Q E M A E E L V D V Y R A L
UniRef90_E2SQ55 D H V M T T I L A K D I V E E Q I L L R K E L
UniRef90_R9BTR1 D H Y M S S Q L V R D L I E K I I D V F E
UniRef90_R9C4U8 D Q M L T T E T L K I M A S E M V E M
UniRef90_F4BS93 D Q L M T S M A E Q T L I M Q M I E M Q K E L
UniRef90_UPI000471ABEA D T L M T I L S E Y N L A K Q L F K L Y Y K I S
UniRef90_D4JCI0 D Q L M A C E T C K Q M A E Q Q I I F K K F
UniRef90_R6UGZ4 D H Y M T S Q L A R D V I E S L V D V F E
UniRef90_U2N7L2 D H L M T C I S E K N L I E E I I E L R R E M
UniRef90_UPI000400CA8D D T V M T I N T E L N L A K K L C S M F E K M
UniRef90_D4F9J9 D H L M D A M M L Q D L A A H L L E L Y T R
UniRef90_UPI000379C575 D T L M T I Y S E I N I A K Q L V R L
UniRef90_C5EEH6 D Q M M S A E M F G I L A D E F I E T Y K M I
UniRef90_U2N0G6 D H L M T S I L
UniRef90_R4U2K2 D Q M M S A Q M V I E L A K E F I S L Y Q L L
UniRef90_UPI0004684195 D T M M S V N T E Y N L V K H L I E V F K K
UniRef90_K8EL92 D T L M T I S S E W N I A N K M V S L V E K L
UniRef90_R6MUX6 D Q M I S S E S Y K I F A I E F L S L Y K E L
UniRef90_UPI000479A30A D H L M T A I T V K E L A N E L I R L Y R K M
UniRef90_C4U1Y2 D H L M N A M L
UniRef90_W5SR06 D H L M S A M S E F N I F E E F I S L Y K I I
UniRef90_B9Y895 D H L M T T M C E V S Q I K R L I E L Y E
UniRef90_R6UYK4 D T L M T I N S E I E L C S S L I D T F R S F A
UniRef90_UPI000479159C D Q L M T A M T M K D L A K Q F V D L Y K
UniRef90_F3YB60 D Q L M S T V T L I D I A K E L L E I N Q
UniRef90_UPI0003F85EF2 D H L T M A M M A K E R A E E L I H V Y
UniRef90_U2NIJ2 D H L M N A I M L M E M G R E L I A L H Q K I A
UniRef90_R4PZX2 D H F M T S L L A N E L I A E M L K M S Q K F
UniRef90_Q67QV5 D T L M V V G S E L N L A R S L L A I F
UniRef90_UPI000379D3BA D H L M N A M T V K D L A K E F V E L Y E
UniRef90_A8SDV0 D T V M T I I S E V S M I R L M I Q M N R N L
UniRef90_D3ULE3 D T L M N T I L A S T L I R E M I E M Y Q E I
UniRef90_U4WIM4 D H L M T S M S E Q K L I E H M I R I L Q K
UniRef90_B0A7P7 D H L M N G M T V L D M A G E F I D L Y E R M
UniRef90_F5YM40 D H L M A A V T I L D M A R E F C D L Y
UniRef90_R5QTA9 D T L M T I M S E V N L T E K M I T L F E
UniRef90_UPI0003F7AB1C D H L M N A M L A K D L A E Q I L M I E
UniRef90_KON2E1 D H L M T I A S E I S M T E N M I E I L F E

UniRef90_E7GC19 1 D V E Q L A F T I I A H A G E A K S L A Y S A L R E A E K N N F E K A E 40
UniRef90_G5IMV4 M I D E K T L Q A A M S I I M S A G D A R V L C K E A L L N A I A D Q D F F E L A N
UniRef90_F4LS27 E G M E L L N F Q M I S N V G D A K S F L F K A L L K E A A R E E N F K A A E
UniRef90_R7G800 M T E E T I Q E M S F Q I I G Y A G N A F S Y F Y E A A V L E E M M E E N K F R A K
UniRef90_UPI00047E6924 E K G F E I I I L H A G N A K S M A L E S L A F A E T N E F F E K A K
UniRef90_UPI00031F7255 M M E I S L E D I I T M E L V V N G S G A K S K A M Q A M K Q A A R R A M G K Y F D I A E
UniRef90_L01P93 E K S M E I I I A N S G E G K S L A M K A I K Q A R A G D Y E E A E
UniRef90_S0JFA1 M E S E K I Q E I A F E I I I L Y S G D A R T L V H E G F Q A M R A D K F E E A A
UniRef90_U2NPW4 E L E Q Q V V E I I S T A G E A K S K A F E A L F K E V K T K E N F A A A E
UniRef90_UPI00047B4805 N F E E I S F Q I I I Y A G E A K G H A M Q A I F E A K K S K N F A A E
UniRef90_U2V7T1 M D Y E D S E M T S F Q I I A T A G D A R S N A F Q A L K A A K Q G D Y Q M A D
UniRef90_U2VRF3 M T A E D L E L T C F E I I G Y V G A A K S S Y V G S I A K A K E G D F E G A E
UniRef90_D7G6J0 T L A F R M I A L A G E A R S L A M R A I A A A E S G G F V D A E
UniRef90_Q6LNH6 E D I T E E F L M T L L C K A G E A R S A V M Q A M S E A R N G E F F E R S E
UniRef90_UPI0003638FF2 M E D D K L V A V S M E I I L N A G D A R M K S T E A L K A L E H F E D D D A D
UniRef90_G5IM6 M I M E E L E M T C L Q I I T N A G E A R S E C M A A M V E A R N E V F F E E A K
UniRef90_E2SQQ8 L V E I A M Q I I I L H A G D A R K T E Q A L H E A K K F N Y K N A K
UniRef90_C9KN92 K T E D V A F A I I S A A G D G R A K V A E A L K Q A R R G R N F F E E A E
UniRef90_W6ABK6 N F E E I S F T I I A F A G E A K G H A M G A I L G A A K N G R F E E A E
UniRef90_R7G6P9 D N E M T G V A M Q M I L H A G D A R L H I S E A L K N V K Q Q F D F E A A A
UniRef90_A6F8C9 E I T E E F L M T L L C Q A G A A R S A V M Q A M L E A R Q Q G D F E S A K
UniRef90_UPI000475B6EC N Y E E T M M Q I I L H G G N A R G A Y E A L D E A E E Y K F E E A E
UniRef90_E7MQW1 E G L E L I C F K I I A S V G E A R N S L L N A Y R H A K R K N V E E A K
UniRef90_U5F6W5 E M E Q Q I V G M I S A A G D S K A K A F E A L K K V K E S K Y D E A R
UniRef90_UPI0004700B6C M N E E M I M T L I I S E G G G A R A K S L Q A I R A A R V G D F T K S A
UniRef90_R9J4I2 M T V E E L N E L S I C F Q L I A C A G D A Y A H F N K A I S F A S R G D F D A Y D
UniRef90_UPI0003663BA4 D E L T S K I F T L I A T N S G D A R S T V F E A L S G A A Q A G N M D K A N
UniRef90_UPI00041175AC N T E N I H E V A M K I I L A A G N A R E E I Q A A L K E M E V F A F T T A E
UniRef90_A0A024Q925 E Q A I F D L I S H V G S A R S S L M E G L Y A A R E N R K M E E A E
UniRef90_I6TA81 E E L E T I F D L I V H S G N A R G S L F E A L E C A A R E N K Y D E I D
UniRef90_UPI0002F677FA E D I T E E F L M T L L C Q V G E A R S A F M E A M M T A R K G H F Q Q A Q
UniRef90_T3D9U5 D E E L V E V A M Q I I S T A G E A R T E T K Q A L S D L E K F D Y K N A D
UniRef90_R7G8H4 L E E V A M Q I I S T V G A A R S C F V E A I D A L L E K N E E K C K
UniRef90_U2VDB8 E T T Q E A A F Q I I A T V G S A K S Q Y I E A I Q K A K E G D I E G A K
UniRef90_W7B6E2 E E A V V K L I L H G G N T R K E A Y A A I T A A E N Y K D F F E A T
UniRef90_UPI0002FBE1D2 I T N S T L I S A A M G I I T Y A G D A R H A K K A L Q A I Q S F D F T L A Q
UniRef90_R9LUD0 K N N E L I C F Q L I S N A G M A K S A F V E A I R A A E E E K F F E L A N
UniRef90_UPI000363A8FD E S L M G I I M N S G E A K S N A I E A I A A A K A S N F S L A D
UniRef90_V8RLM7 M N E E E T R D E A M E I I N A G D A R V F I A E A L D N I G D A D Y D L A R
UniRef90_R9CB79 E N N E L S A F E I I S N V G A A K S Q Y M E I I N K C E N K D F D L L E
UniRef90_UPI0003453E7E D E E T V Q S A M N I L H A G D A R V A C K E A M E A L A Q F D I E G A R
UniRef90_UPI00026C6150 N I E M I C M D I I S N S G L A R S L L L E A M D Y L K P R N E E K I Q
UniRef90_E3ZJ24 E M Q V E E A V V K L I L H G G N T R K E A Y K A I D F A E K Y Q F K D A D
UniRef90_R9K7K7 V A M Q I I M H A G D A R L R I T D A L K S A K Q F D F F K R A D
UniRef90_UPI00035F383F D V Y E I S F E L I L H A G D A K S K C L M A I E S A R E E F F E S E
UniRef90_W1Q1I8 T E E M E M I C F Q L I A N S G A A K S A Y L E A L E L A K T G Q K Q A A Q
UniRef90_D9S0V7 E N S I F E M I A Y G G N A R A K A Y E A A A R A R K Q G D F E L A E
UniRef90_R6UQL9 E N E L V N V A M Q I I L H A G D A R L R V E D A L A Q A K Q F H F D E A K
UniRef90_S5LZ93 M N E I N W E N I S M E M I S C I G T S K S N A I M A I R A A K N Q D F V K A K
UniRef90_UPI00039F5DDB A M D I I Q A G D A R L L I E D A L A M A D N D Y E K T A
UniRef90_S2PZF6 I E E D S L T K L S M N I L I H A G N A R D S L V K G L E E L E T Q D Y T K A Q
UniRef90_U5MQQ6 M T K D D L Q V V A F E I I L H S G D A R T I V H E G L D L M K Q G K F E E A E
UniRef90_G7M945 E G M E L I A F N I S N V G T A K S M G I Q A L I K G R G G N V E A E
UniRef90_G2T224 M D S E K L N V Q V A M N V I M H A G D A R D Y I R K A G T K L S A L D G V E
UniRef90_C0CVJ2 N V E N I N L A S M N M L S A G N A R E L Y N Q S M D C V E N G D F T E G E
UniRef90_C2WE66 M E A I D Y A K R G E F E E A D
UniRef90_C9ABV9 E E K E Q I C F Q I I T S Q A G M A R S C F F E S I Q K G R E A Q N L A A I
UniRef90_B9Y2N0 L V S A A M G I I L H A G D A R N Y A K Q A R E A M R E M N F T E A R
UniRef90_Q03XN6 S E D I Q V V A F E I I L H S G N A R T M V H K A F E A M R E K N F K L S N
UniRef90_F2N8X6 E L E L T C F E I I S Y V G S A K S S F V E A I A A A K A G N D L D R A E
UniRef90_E6U3B8 E E Q I F T I I S A T G T A K S M Y M K A L D E Y K K N N V E Q A E
UniRef90_R6GIX3 D D M E V I V F K V I T A S G I A K G L A Y K A L D K V E N R D F K G A Y
UniRef90_I0GS94 D E K T V E Q S M Q I I L H S G T G R S A V I E A I Q L A Q D H D I E K A R
UniRef90_N9WDD9 M E E V I L N L M A H S G E A K S Y A M E A I N A S K N N R F E K S E
UniRef90_UPI00039F5C37 T M E D L I Q L S F N I I L H A G N A R S F A M E A I M L A K E Y K F K E A R
UniRef90_G7LTE0 D I E T R M I E L I V Q S G E A R S C A M E A L R S K R E W E Q V D
UniRef90_B7CCK9 E D I E T L L M Q I I S Y S G D C K S S C I E A L D L F K E E D Y S Q A N
UniRef90_R3TKH7 T E E K V Q A A M M I I L H A G D A R A I C M E A L K N A V A K N D F E L A D
UniRef90_G5HDL4 E L A Q V A M R V V I L D A G D A K I A A E Q A L K K L H T N D F T G A E
UniRef90_UPI00030DD9C9 M D K A D E R L I L E L I S N S A R A S D L C E E A L E A A K Q G V F Q Q S D
UniRef90_U2PSD1 M E I L S K E Q L V M E L I V N S G D A R S K A M G A I K I A A K G Q D L Q A A R
UniRef90_UPI000469E991 E A E K Q I M G L I S S A G E S R A K A F E A L Q K V R T Q E Y E V A H
UniRef90_M1MV18 M D D N K L Q A A M E I I L N A G D A R V K C K E A L D A I A Y D F K L G N
UniRef90_S4ZUH0 Q E L E I T M Q I I A N A G E S K T K A F E A L A A A V K T Q D F N R A R
UniRef90_R5F2P6 E D M E L I C L Q I I S N A G E A R S E S M A A L A A A R N S R F D E A G
UniRef90_C0R818 E E L I D K I S M P V V A Y S G E A K S F L R E A L E H A K N K D Y E K A E
UniRef90_U2CYV7 E D N E Q S A F K I L H S G N A R S L A Y E G L G L I K S G K K E E G L
UniRef90_UPI00021932EB V M T I M T S S T Q A H S L L E A A L T A A K T N D F V L J A R
UniRef90_D2MLW3 E G T E L V A S R I T A S V G T A R S N Y I G A I D V A S Q G D F E E A E
UniRef90_D3USW0 M N D K E S Q I A M E L I F H S G N A K S T A M Q A L M K A E S D N I A E G K
UniRef90_UPI0002DA38AA E N Q E V I M G I I I H G G N A R S A M R A M A A A K A D F V E A E
UniRef90_UPI0002DC9208 N V E K L S E T A M H I I T Y A G L A K S Y Y M Q G L M Y Y K E G N T E A A L
UniRef90_R9JG11 M D N E K L I Q I S M K V I M H A G D A R D Y I R K A G S K L T Q K D Y E G I D
UniRef90_R2QTJ2 M T K E E Q E I V Q L I S I A G E S K A K A F E A L K C V K T K E F D L A K
UniRef90_V3TST9 E E Y L M N L L C Q A G A A K S A A M D A I F K A R E G S H S E A L
UniRef90_D5GYL7 D T E Y E K Q V M T L I S S A G E S R S L A F E A L Q S E V K K H D Y Q K A V
UniRef90_W7DC02 D A E K I S F L L I S S A G S F S K L V E A L Q E A K K V G N K E R A K
UniRef90_G7VXY0 R E E I A K V A M Q I I M N A S D A K A D A L N A L K S L R S F D F E A P A
UniRef90_R2QW41 E T D V M Q I I V Y A G N A K S L A M N A I K E A K S G E I S G A K
UniRef90_UPI0004635E50 I D D V I M P V I A Y S G E A K S F L R E A L E H A K I G N Y D K S K
UniRef90_R6UUUV K L E N A Q A A M Q I I L H A G D A R L K T A E A L K S L K T F D I E R A K

UniRef90_E7GC19
UniRef90_G5IMV4
UniRef90_F4LS27
UniRef90_R7G800
UniRef90_UPI00047E6924
UniRef90_UPI00031F7255
UniRef90_L0IP93
UniRef90_S0JFA1
UniRef90_U2NPW4
UniRef90_UPI00047B4805
UniRef90_U2V7T1
UniRef90_U2VRF3
UniRef90_D7GGJ0
UniRef90_Q6LNH6
UniRef90_UPI0003638FF2
UniRef90_G5IM6
UniRef90_E2SQQ8
UniRef90_C9KN92
UniRef90_W6ABK6
UniRef90_R7G6P9
UniRef90_A6F8C9
UniRef90_UPI000475B6EC
UniRef90_E7MQW1
UniRef90_U5F6W5
UniRef90_UPI0004700B6C
UniRef90_R9J4I2
UniRef90_X8HRE8
UniRef90_UPI0003663BA4
UniRef90_UPI00041175AC
UniRef90_A0A024Q925
UniRef90_I6TA81
UniRef90_UPI0002F677FA
UniRef90_T3D9U5
UniRef90_R7G8H4
UniRef90_U2VDB8
UniRef90_W7B6E2
UniRef90_UPI0002FBE1D2
UniRef90_R9LUD0
UniRef90_UPI000363A8FD
UniRef90_V8RLM7
UniRef90_R9CB79
UniRef90_UPI0003453E7E
UniRef90_UPI00026C6150
UniRef90_E3ZJ24
UniRef90_R9K7K7
UniRef90_UPI00035F383F
UniRef90_W1Q1I8
UniRef90_D9S0V7
UniRef90_R6UQL9
UniRef90_S5LZ93
UniRef90_UPI00039F5DDB
UniRef90_S2PZF6
UniRef90_U5MQQ6
UniRef90_G7M945
UniRef90_G2T224
UniRef90_C0CVJ2
UniRef90_C2WE66
UniRef90_C9ABV9
UniRef90_B9Y2N0
UniRef90_Q03XN6
UniRef90_F2N8X6
UniRef90_E6U3B8
UniRef90_R6GIX3
UniRef90_I0GS94
UniRef90_N9WDD9
UniRef90_UPI00039F5C37
UniRef90_G7LTE0
UniRef90_B7CCK9
UniRef90_R3TKH7
UniRef90_G5HDL4
UniRef90_UPI00030DD9C9
UniRef90_U2PSD1
UniRef90_UPI000469E991
UniRef90_M1MV18
UniRef90_S4ZUH0
UniRef90_R5F2P6
UniRef90_C0R818
UniRef90_U2CYV7
UniRef90_UPI00021932EB
UniRef90_D2MLW3
UniRef90_D3USW0
UniRef90_UPI0002DA38AA
UniRef90_UPI0002DC9208
UniRef90_R9JG11
UniRef90_R2QTJ2
UniRef90_V3TST9
UniRef90_D5GYL7
UniRef90_W7DC02
UniRef90_G7VXY0
UniRef90_R2QW41
UniRef90_UPI0004635E50
UniRef90_R6UUV7

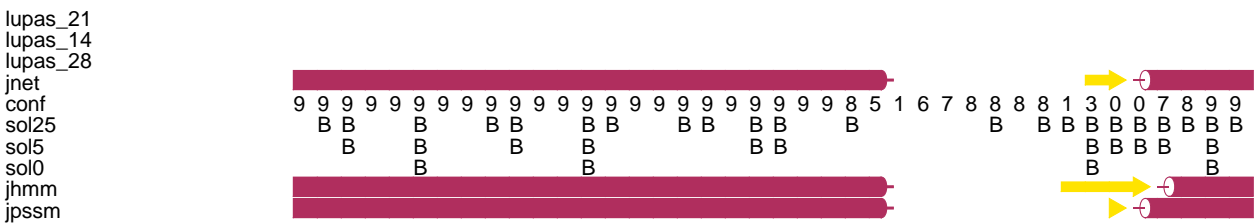
50 60 70 80
N L I K E A R T E I L T N Q S H Q S Q T D L L T S E E A N G G E K T P I N V L L I H S Q Q
E K M K E A G D K K I L T E A H R E V I Q Q T D D A L I T Q Q E E T R Q G E E K Q E Y T S L L L F A H A S Q Q
K L I E S A G D E S L T L K A H K E V I H Q R T D L L L S E E A N G G E K P T E L T N V L L L M H A A Q
E L Y N L G K K E L L T Q A H K E V I H Q R T D L L L S E E A N G G E K V N T N V L L L L H A A Q
Q E L E K A D K E L V L Q A H Q V H Q T D L L L D L L A R N G G E K K I D V D L I L L A H A L
I R I A E A N E A L Q Q A H Q F F Q T D L L L A A E D A E H Q D K K A V I N M L L V H G A Q
A D L K H A N D E A I I K A H Q A H S K L L L F Y A D A E H Q D K K A V I N M L L V H G A Q
E K L E A A N E S L V K A H K S Q T G L L L Q A Y A N G G E K V V M E V I M V H A A Q
K L L Q E S S E I D I E A H K R Q T K L L L T A E A M N G G E K F E I G V L L M V H A A Q
E C L L E K S F N D E S M I L J A E R A H H M D V L V T A E A N G G E K F R I P V L L F M H A A Q
L M A K F N D E S V V E S H N Q Q H T A L L L T T K A E A A Q G D H T P V V D V L L V H A A Q
S L I R E G D D N Y N R G H S V H Q M K A L L L T T A E A N G G E K D R Q D P V V A P L L L V H A A Q
S L I E Q A H C S Y D R A H Q V V Q K A L L T E A H R R R D I Q P A V D L L L V H A H
A M L V A A E E A L T E V H K T Q T G L I G F D E T G E G K V T M T L I L L T H I Q
A K M K E A F E D K L R E A H T A Q T N E A I Q D M D A A G K K Q E H S L L L F T H A A Q
A H L D R A A E L M R K E A H H V H H T Q N E A T R G G V T Y E P C L L L F N H A A Q
D L L C E A R E E C L R Q A H I S Q T E V L I Q Q E A A G G E K V T Y E P C L L L F N H A A Q
E C L K D A E H L L K A H K L Q T E L L V Q K S A E A G G E K G P F N V L L F I S H A A Q
N L I E A D E K S L L T A E K L T H M D I V S E E A G G E K V T F P V L L F I S H A A Q
E K M K Q A E K E L Q Q A H Q F Q T N E V I S E E A G G E K H E L H I L L F I H A A Q
A S L K A A N D E A L A E V H K S Q T E L I S F D E N D G G K V K M T L I L L T H I Q
S K L E A A N D E F L K E V H K Y Q T E L I Q N E N D G T V P S F F M I H A A Q
K C M Q E A E E F F N K A H Q A H A E L I T T Q E A S G G E N I S V N V L L L V H A A Q
A L L Q E A R E I D L E A H K I Q T Q L I T T A E E M S G G K P E Q V S L L L M V H A A Q
Q L M K E A K Q A L K K A H N Y Q T K L I R D E E I T S G K V A G M G V L L A M V H A A Q
D F I E K A S A S M E K T H E I Q Q T R L I R Q A D I S G K V A G M G V L L A M V H A A Q
H Y I G M A K E G L I A A H E S Q Q T E L I Q Q E A A G G E E I T F S L L L F T H A A Q
E K L A Q A K E H I T T A H S V Q T D T I Q Q E A A G G E E I T F S L L L F T H A A Q
L K I A E A V T L L N N G H N V I Q T A F I T Q D N L A G S K G E I S L L L L M H A A Q
N L L N K A K E E M N I A H N I Q T A L I Q D N L A G S K G E I S L L L L M H A A Q
Q L L K S G D E A L T A V H K S Q T A L I G F D E A G A G K V T M T L I L L T H I Q
L K L A K A K E F M T E A H R A R A H Q Q E A A G G E A C G N N V Q C T L L L L F A H A A Q
N L M K G D E M M L E G H R A H A Q L I A Q E A C G N N V Q C T L L L L F A H A A Q
A L V E S G T K D F D D G H A A H L S L L V Q Q S A D N G N V T F S L I L V H A A Q
S H L Q K A E S V Q F L E G H A W Q T K L I S R R N A S R G E Q E L T P S F L L V H A A Q
S E I L Q A S V Q N I T E A H K A Q T E I V I S R R N A S R G E Q E L T P S F L L V H A A Q
Q K M S E G K E F L I Q G H T V H A S V I Q K E A A G G E K T E T S L L L L I H A A Q
S K L E Q A K A S L L I E A H R S Q T S M L T Q G E A A G G D A V E Y S L L L T V H A A Q
A N M E K A N D K L J A H R L Q T Q K L Q G E A A G G D A V E Y S L L L T V H A A Q
E M F E E A D N Y L V Q G H K K H M E L V Q M E A S G G D P L N I S L L L I H A A Q
A K M E T A A H T E I T K A H R V Q T S A I H A E S A G G E K G Y S L L L F T H A A Q
K H L Q L A E E Q F Q E G H V W Q T K L L V S I R D A K S L S H P S F L L I H G Q
E E M K A E A K H E I T L A H K C Q M D E I I Q D E A S G G E I S Y G F S L L L F A H A A Q
Q Y M A E A T E S M K L A H K C Q M D E I I Q D E A S G G E I S Y G F S L L L F A H A A Q
A K L D E A E E C F V L A H Q V H S E L I Q K E A S G G Q Q T P V S V L L V H A A Q
K L L K E A D E E M L K A H V A Q T R L I H E E V Q G K K H E V S V L L V H A A Q
Q K I A E A E E C I H Q A H V A Q T E V I Q N E T R G K T Y E P C L L L F A H A A Q
D L I L E A E I E M S K A H N L H F D L V S R E A N G G E K L D L K L L L F L H A A Q
E K L Q E A Q K K M T E A H K I Q T D M I Q Q E A A K G Q A I G Y S L L L F T H A A Q
A L L K E A H S E I V T A H G L Q T D T L Q L E A E G K Q I R Y S P L F C H A A Q
K K M E D A N N E L E A H K S Q T K L L Q D Y A N G G D E L I M E V I M V H A A Q
K L L E D A S V F M R E G H K S H A Q L I Q E E A K G N K Q E L T S V L L M H A A Q
E L L K K A S A E L V E A H K A Q T S V L Q N E A A K G D S V P M T S L L F S H A A Q
R L L A R A E Q E I T E A H K L Q T R L L Q E A I E E E H P T T T V L M V H A A Q
A K I Q D A L Q E L Q A H C L A H R K L V Q R E A G G E K T E L T L L M V H A A Q
Q A I Q D A G K E H Y H E A H L A H R K L V Q R E A G G E K V W M S L L L S H A A Q
S L L E T A K K E I A E A H R A Q T E I I Q N E A R G I C Y E Y S M L F N H A A Q
E N I L K L S N D E L L L A H K S Q T N L L Q A Y A E G G A H R D M E I L L V H A A Q
A L V K Q G D E N Y N S G H E V H M K L L Q E A D A A G G A Q D V S L I L V H A A Q
K L M K E G D Q C L V D G H K I H S G L V Q E E A S G N A Q D V S L I L V H A A Q
K L L G E A N E Y I D E A H E I Q T K G L E D E E V T G N A T E L S T L L I H A A Q
K S I E A A G Q E I D G K A H D I Q T A M M S A E C D G G P V E K S I L L I H A A Q
Y L L Q K A N E E L A Y A Q L S Q S T L M Q N E K N D S S L K I S L L S V Q A A Q
E K I E E A E K E F I E A H S I Q T N L L Q N E A S G N K S Q S V T V I L V H A A Q
Q L L K M A A T A V R K A Q S I Q T E F I S G N G N K E I S L D L S L L I V H A A Q
S K L E S A Y N S L L K A K K I H A K L L S E S V D S S T M Q S L L F L V H A A Q
E K M K L A S K E I T K A H K L Q T D A I Q D E A A G G E K S E Y S L L F A H A A Q
E L M E Q A F A Q L Q K A H D A Q T E V I Q N E A A G T R E Y N S F I F N H A A Q
I L L H Q A E E A I A E A H D C Q F S L L T K Q A A G G E D V E V N I L M V H G Q
A K I K E A N E A L N K A H N I Q T S L I Q Q E A A G G E E F F Q I S L L M I H A A Q
E L L K E A Q S L D V E A H N I Q T T L I Q Q E L D P E K T E I S L L M V H A A Q
E K L K E A Q V K I S A A H K V Q T D A I Q G E F S A G E A S S Y S I L F T H A A Q
N L L A E S K A L D V A A H N A Q T A M I A R E F A S P D Q T P V I L M V H A A Q
E H L A A A G E K M K E A H H V H T R L I T M D A S G E L D K I G L I M I H S E
L A I Q E S K N S I S K A H E T H S R E I Q Q S T N P S S I K I P F I L I H A E
A L Y N E A K K L E A Q K K H S E F L H R A V T E Q Q E N V T L L L I H A A Q
H K I Q A A D D A L T E A R N A Q S T L L T R E A R G Q T V P M T L L L I H A A Q
R L I A E G K A I F L E G H K A H T D L L A I M A K E E I V M D L L L I H A A Q
E L I K Q A R K E L H E A H A I Q T N L M T A E E I N G E K V E K T I L L I H A A Q
Q L V E E A N E E L N K A H R I Q T D L I T A E S R N G E A T E I S L L M V H A A Q
K L I Q E G E D E F I R A H H A H G E T L T N E M S T S D P Q I S L L M A H A A Q
D L L K K A G E E L V L A H R A Q T E V L S R E A A G G E N G I Q M V L F S H A A Q
G L I E E S R N L D L E A H N I Q T D L I S N E D E V E S N M V G L I M V H A A Q
H Q L Q I S D E I F K E V H K C Q T E L I S M D E G K G K I Q M T L I L T H I Q
D L L Q Q S K D A D V K A H N M Q T A M I T Q A L K N K S Q E M S L L M V H A A Q
E L L A E S D A L M N E A H R A Q T D L M V Q N E S R G E S C E M S V L L V H A A Q
E L L K K A H T K I V L A H K A Q T N L V Q N E A S G G E T Y E N S L L F N H A A Q
K M I E E S K S N L K L A H Q Y H T D I L Q T F A N N P E E V A N M F L T H A A Q
E I I E E S K S L E K A H E A H R H V I Q Y S T N P D N I K I P F I L I H A A Q
Q Q L L D A N E N I V A A H Q S Q T A S L Q A E S N G E E I E Y S L L F T H A A Q

UniRef90_E7GC19 D H L M T S M L A I D F Q E L I K I Y K K
UniRef90_G5IMV4 D T L M T I Y S E I N L A K Q M L K I F E
UniRef90_F4LS27 D Q M M S T E L L R D I T N E M L L V H K K Y S
UniRef90_R7G800 D H L M T T I M Y E R I A K Q M I R I L D K E A
UniRef90_UPI00047E6924 D H L S S A E L I C I L A Q K F I H L Y E R I
UniRef90_UPI00031F7255 D H L M N A M T T R D I A L E E M I E M Y K M I
UniRef90_L01P93 D H L T A A G I I R E L A E E I Y L Y K
UniRef90_S0JFA1 D H L M T T M T L R E V A L E M L A L Y E R
UniRef90_U2NPW4 D H Y M T A Q L A R D L I E T L I E V F
UniRef90_UPI00047B4805 D Q L L S T Q T I M L M A K E F I D L Y K
UniRef90_U2V7T1 N H L M T S M L
UniRef90_U2VRF3 D Q M A S A E T V K I L L A T N L I A V Y Q E L
UniRef90_D7GGJ0 D H L V M A Q M A L D N A E I I T R L Y R R I
UniRef90_Q6LNH6 D H I M T A M L L C R D M A N E I I A I H R Q L
UniRef90_UPI0003638FF2 D T L M T I Y S E L N I T K R L I A I M R
UniRef90_G5IM6 D I M M G T E I T Y A L A G E M V E L Y R K L A
UniRef90_E2SQQ8 D T I M T I M S E E K L A E Q T V E M F E
UniRef90_C9KN92 D Y V M T G M A M K D M A V E I V N L Y T Q L
UniRef90_W6ABK6 D Q L L T T Q T I L L L A K E F I D V Y K K I S
UniRef90_R7G6P9 D T L M T I K S E Y E L A R Q L I D I
UniRef90_A6F8C9 D H I M N A M L C K D L A F E I I E L Q R R I
UniRef90_UPI000475B6EC D H L M T A Q A E L A L I K R L I V Q L K K
UniRef90_E7MQW1 D Q L M S I E T L K I I V E E E I
UniRef90_U5F6W5 D H Y M T S Q L A R D L I E E M I N V F E
UniRef90_UPI0004700B6C D H L M N A L T V N E L S E E I I E
UniRef90_R9J412 D H L C S A Q L L R D L A I E F T D L Y E
UniRef90_X8HRE8 D H L M N A M S F E N T A K H I A D M Y R R I
UniRef90_UPI0003663BA4 D H L M T S M L
UniRef90_UPI00041175AC D H L M T V M S E W N T A K N L V T I C R
UniRef90_A0A024Q925 D L M L T T E T L K E M V T E R M V V M Y K R I
UniRef90_I6TA81 D Q L M T V M S E Q A L I L E R L I K M Q K Q I
UniRef90_UPI0002F677FA D H I M T T M L C R E L A E E I V A I H H K L
UniRef90_T3D9U5 D T L M T I F S E L N I T R S L V G I V K S I
UniRef90_R7G8H4 D Q L M S C E T I K I I A E K F I Y M Y
UniRef90_U2VDB8 D Q L M Q A E S F R I I T E D L I D V Y E R I
UniRef90_W7B6E2 D H L M T A Q A E L N L A K Q I V K Q Y V K Q S
UniRef90_UPI0002FBE1D2 D T L M T I N S E V E L I K E L I K T F K I F A
UniRef90_R9LUD0 D Q L M S A E M T E L L A N T I I A Q A K K I
UniRef90_UPI000363A8FD D H L M T A I T F V D I A K E I I D L Y R
UniRef90_V8RLM7 D T L M S I M S E Y N L T V K E I I T I F E K
UniRef90_R9CB79 D Q L M N A E L V K I L A Q K F M H L Y K
UniRef90_UPI0003453E7E D T L M T I N S E I N L T K Q L I G V F
UniRef90_UPI00026C6150 D H L M T T L A I R D M T E K F M E V
UniRef90_E3ZJ24 D H L M T A Q A E L Q L A K R I I K Q Y K
UniRef90_R9K7K7 D T M M T I N S E V R M A Y E I I D V L K
UniRef90_UPI00035F383F D H L A M A L S A L D H A K E L I E M H K K F
UniRef90_W1Q118 D Q M A S V E V V Q L L V R E L M A V H Q
UniRef90_D9S0V7 D H L M T A M A E R S L I E N M I D L F R R
UniRef90_R6UQL9 D T L M T I M S E L N L A K E L I A F F E
UniRef90_S5LZ93 D Q M L T T Q A M I D L G K E M I E M Y K I I
UniRef90_UPI00039F5DDB D T L M T I Y S E L N I A K K L Y K V F E
UniRef90_S2PZF6 D T L M T A Q S E L L I A D H L T K I
UniRef90_U5MQQ6 D H L M T T M T L R E M A I E F L A M Y K Q I
UniRef90_G7M945 D Q L M A A E I L S L A K E M L Y M Q K E I
UniRef90_G2T224 D T L M T V E S E Q Y M I S I L Y Q C L K N M
UniRef90_C0CVJ2 D T I M A V D S E T R L I R R L Q K L Y R N L A
UniRef90_C2WE66 D H L M N A I T V K E L A T E F V E L Y K K M
UniRef90_C9ABV9 D L M S A D I M S E L A K E F Q G L Y E E I
UniRef90_B9Y2N0 D T L M T I N S E I E L T A D L I L T F E
UniRef90_Q03XN6 D H L M T T M T
UniRef90_F2N8X6 D Q M A G T E I V K I L L T V N F I D V Y R E L
UniRef90_E6U3B8 D Q F M S A E T I K T M V K E F M A V Y S E L
UniRef90_R6GIX3 D H F M I A M E V T M V E R M I K L Y K L I
UniRef90_I0GS94 D H F M T S L A V R D M A K L M V D L Y E D L
UniRef90_N9WDD9 D Q L M T S M F L I D V A K E L I S L Y L K I
UniRef90_UPI0003F95C37 D H L M T S M A V K D L A N E M I D M Y E R M
UniRef90_G7LTE0 D H L M N A I L C R E L T E E I A L R K E L
UniRef90_B7CCK9 D Q M M S A E T I I T L V R K F L E I I K K
UniRef90_R3TKH7 D T L M T I M S E I N L A K Q I I S I S K
UniRef90_G5HDL4 D T M M T A M T Q C S L T R E I I E L Y K L L
UniRef90_UPI00030DD9C9 D H L N R A T I S H K F T L I E L C V V Y K K L
UniRef90_U2PSD1 D H L M N A I T I R D L A Q E V L D I Y E
UniRef90_UPI000469E991 D H Y M T A Q L S R D L I E E M I N I F E
UniRef90_M1MV18 D T L M T I N S E I I A K Q M I K I F E
UniRef90_S4ZUH0 D H Y M T S Q L A R D L I E T L I E V F E T R A
UniRef90_R5F2P6 D I M M G A E I T L A L A K E M V E M Y K S R A
UniRef90_C0R818 D H L M S A I S E L S I F E E L I N V Y K I I
UniRef90_U2CYV7 D H I S S S Q V V V E L V K E I M D L Y G R L
UniRef90_UPI00021932EB D H L M S T V T Y R D A V S E M I T L Y Q K I A
UniRef90_D2MLW3 D Q L M S A E A F G I L A E K F V D L Y K K L
UniRef90_D3USW0 D H F M A A N L T I D L G E R M I N L H E K I
UniRef90_UPI0002DA38AA D H L M N A M T I R D L T L E I I D L N K K I
UniRef90_UPI0002DC9208 D Q L M S A E T I K I M V M E L I D V Y K
UniRef90_R9JG11 D T L M T I E S E N Y M I S T L Y Q C L K N M
UniRef90_R2QTJ2 D H Y M T S Q L A R D L I E T L I S V L Q
UniRef90_V3TST9 D H I M N G M L C K E I A T E L V E L Y R Q
UniRef90_D5GYL7 D H Y M C A Q L S R D L I E E L I N I F E
UniRef90_W7DC02 D T L M N T I L A S T L I Q E M I E M Y
UniRef90_G7VXY0 D T L M T A K M Q I E I S E E L C A L V R A L
UniRef90_R2QW41 D H M M A A I T A T D F A K E F I D L H E
UniRef90_UPI0004635E50 D H L M S T M S E L N I F E E L I G L Y K
UniRef90_R6UUUV D T C M T V C S E I N L A Q Q L V N I C E A I

UniRef90_G5IMN1 VLI KEA KEA C50 LKRA HND QQT ETE 60 MSRE AAG GA AVE VT PL LM HA 80
UniRef90_G1WH65 ELI GLA ARDEN HILKKA HHR AQQ TGT IIM SQA EEA AAGG A HFE PFC LMFN HA AQ
UniRef90_UPI00036E294B EVV KEA DEN HLN LKKA HHR AQQ TGT IIM SQA EEA AAGG A HFE PFC LMFN HA AQ
UniRef90_H1BBY1 KKY E L GN LMLN L C HT LK QM E V L V K K E A A D N G E T E N K D P P F N V L V L M T J A H A H A Q Q
UniRef90_H7F2Z8 SHL K T G L N E Y Q S G H S W Q Q V K E L V V K E A A D N G E T E N K D P P F N V L V L M T J A H A H A Q Q
UniRef90_U7VCH4 KLL DDE AKAT QERM YQA A H S V L Q Q T E L L I C N E A A N G D G K E K V L S F N V L M I S H A H A Q Q
UniRef90_H3KB94 A Q I D D K A T P Q L Q K A H S H E V L Q Q T E L L I C N E A A N G D G K E K V L S F N V L M I S H A H A Q Q
UniRef90_B6FWM6 EHL K K S D D E F S K A Q D A E A S L L A K I G D G K K E K E C G E L I L I H S S Q
UniRef90_UPI0002E8C2F2 TLL G K G A D E A L N A V H K Q A Q T N L L I G F D E A K G N Q D L R Q M T I F M V H A H A Q Q
UniRef90_F4LSJ2 V T M K K E A K Q L L Q N V H S S H H A E L L T T Y A E A N K Q S I N N I P L F M V H A H A Q Q
UniRef90_F9QDY1 Q K I K E G K Q L L Q N V H S S H H A E L L T T Y A E A N K Q S I N N I P L F M V H A H A Q Q
UniRef90_W5SE89 Q M M N E S R M S L E R A H H E A H R G V L I T Q Y E S A M K G D S K I P F I L M H A H A Q Q
UniRef90_H7F6P8 E K L A E S D R L M N E A H K A V Q T E L M V I R G E I R G D K T D L S V L L I H A H A Q Q
UniRef90_T3G0A6 LL L E E A R K I D I E A H R A H Q T E L I T T Q Q D L N S E S P A M S V L L M V H A H A Q Q
UniRef90_B9CMV1 A D V A L G T E I L F N E G H A T H L S L L I T T Q Q E A N G D K E F S L I L I H A H A Q Q
UniRef90_UPI000475741C A L I K Q G E A S L I N E A H A T V Q T E L L I T T Q Q E E M N T Q E P Q Q I T M L M A H A H A Q Q
UniRef90_B7C833 Q S M S N G D V S F S Q A H E A H L Q L L Q Q G E E M N T Q E P Q Q I T M L M A H A H A Q Q
UniRef90_A6TVP9 K H L E E A N E K E A G L A H R A Q Q T S L M G K K V E I M S L L F V H A H A Q Q
UniRef90_G4L798 E K I D E A N E L T A A H Q A Q T S L M G K K V E I M S L L F V H A H A Q Q
UniRef90_W5T3N2 K T I E D S K L S V K A Y D A H R D I V Q Y S M N S P E E F T K I P F I L I H A H A Q Q
UniRef90_C3W9D8 E L F A E A K K S F V E V H G S A Q T S L L Q Q Y S S G E E K V E L C L L I I H A H A Q Q
UniRef90_R6FSF9 K K L D D A N N E L M E A H K A Q T S L L Q Q Y S S G E E I V M E V I V H A H A Q Q
UniRef90_G1VX10 E N L A L C E Q H I E A H T I H T K L V Q R E A A G E E T F D Y M M L F A H A H A Q Q
UniRef90_D8GFP4 K L L K Q G A D A K L K Q A Q Q A Q T M L T Y A E A R A E K I N D V T L L M V H S H A Q Q
UniRef90_UPI000408EC81 E L V K E G E K S Y V Q G H D A H T E L L A L K D A A E S I N S M V L M V M H A H A Q Q
UniRef90_U5F8N6 E K I T Q A K K E I T K A H V I Q T D M I Q S S I N E E E L Q T T L L F T H A H A Q Q
UniRef90_A8S5P0 R L M K E S E K A Y I L E A H R A H Q T E L L K R A E T G D D E K V P M N F L I V H A H A Q Q
UniRef90_D9QZV4 E K M K E A Q K K I T E A H R I H Q T E D A I L Q Q G E A S G G E Q V R Y S T L F C H A H A Q Q
UniRef90_H7F4N7 E K I Q K A K E E V V I A H G L Q T E T L Q Q K E A S G G E Q V R Y S T L F C H A H A Q Q
UniRef90_F2N892 E K L H Q A K K E I A K A H I L Q T E T M V Q Q D S E I N D D E H T T L L F T H A H A Q Q
UniRef90_E2SGX3 S C L Q A A L S E I E E A H I L Q T E T M V Q Q K E A M E D E Y Y Y S M L F T H A H A Q Q
UniRef90_C6DAV7 E L L K M A A V A L N R A Q L I Q T G F I G N Q S K E K T N L E L I V V H A H A Q Q
UniRef90_A6LWY1 K L L N E A R E A D L A A H Q L Q T K T I A E E L S E D K P E V L S L L M V H A H A Q Q
UniRef90_V6Z2Y5 A L V E A A N Q C I V E A H K S Q T T L L A K E A E D L E L E L L M V H A H A Q Q
UniRef90_E4SX16 D L V K D A E A S L N D A H N E Q T K L L S K E A G S G M D L D V T F I M V H G Q
UniRef90_E0PJ35 K K L D E G Y N Y L T G H A A H Q T S K L L Q Q T A K E A E D S V K L N L L V V H A H A Q Q
UniRef90_W7CLX5 E L I K E A K E N I N K S H K I Q S T V Q V Q K E A K E A Y Y S M L F A H A H A Q Q
UniRef90_C9AD33 R L L E D A K K E L Q Q A H Q C Q T D L V Q A E A R G S E K T E L S T I L I H A H A Q Q
UniRef90_R5ZAY1 K L L D Q G Y A S L L K A K E I H A K L L A E S V G E N E P A T L F M V H A H A Q Q
UniRef90_C2CHS9 K L I K E G Q T A Y N E C H K I I H A K K M F G E Q Y E I D S L Q N V L L M H A H A Q Q
UniRef90_G1VKU1 E L F E E G E K N L N E C H Q I Q T N L I Q E E T R G G E L P Y S L I M T H A H A Q Q
UniRef90_U2NKT0 L I K R A E D E N L S K A H K V I Q T A L I Q A E E L R G E K Q N E T S L L M V H A H A Q Q
UniRef90_UPI0002E071D6 Q L V S K R A D E E L S K A H K I Q T N L I Q A E E L R G E K Q N E T S L L M V H A H A Q Q
UniRef90_R6V0K1 K Q Y K D A E E N L Y T A K R A H S R I L K Q E S A N G E F D Q I S L L M V H A H A Q Q
UniRef90_UPI0002EE9475 A L L E K A E E L L N D A H Q V Q I L L S Q E T S D G C E V E L S L L M V H A H A Q Q
UniRef90_R3WMQ4 N K M D E S N K L K E A H K V H A A L L T E F A S D G E A Q K A N L F M V H A H A Q Q
UniRef90_H3NPR0 N L I K K A Q E Q F Y E C H K L H A E L L T N E A N G E D K Y D V N L I M V H A H A Q Q
UniRef90_V7I0V2 E S I K R A N E A M E K A H E A Q Q S V L F K E A N G E K V E I S A L F V H S Q
UniRef90_UPI00038091E7 S L L E E A E K E F N E G H E V Q S K A M Q K D D K N R L V P T L L L V H A H A Q Q
UniRef90_K8D6V0 H L L R E A D G Y A R Q A H K M Q T K L I E Q D A G G E G R Q P M T L I M V H A H A Q Q
UniRef90_R2VEV1 E Q L E E A N E Q L L K A K A K A Q L L S N E A M D S G S E K K E M E L I M V H A H A Q Q
UniRef90_T3DF10 K L L E S A S E K I Q T A S K H H L E L L K E A M D S G S E K K E M E L I M V H A H A Q Q
UniRef90_T0U7D9 M C M Q Q A E A E M T I A H N L Q T K L I Q D D L K G D Q G Q I S L L L I H A H A Q Q
UniRef90_G5IAX0 E A M K L A N E E L I K G H E V Q T E L L Q K E C G D A Q G Y N V L F A H G M
UniRef90_Q03XM5 S L L D E A E S L L N N A H K I Q S R Y M S L E A S G T H I P Y S V L F N H A H A Q Q
UniRef90_N4WQW8 R L I D D A N E E L S Q A H R V Q T D L I Q A E T R G E D G S E I T L M V H A H A Q Q
UniRef90_U2P3A3 E L M K K G F D K L T E A H K L Q T K M I V S S A I E E D Q P Q L P V L F I H A H A Q Q
UniRef90_D7UZN9 A H L Q K A D Q E F A E G H Q W Q T K I V S S E Q R D G L N A S F L L I H A H A Q Q
UniRef90_R6UY1 K K L S I A K E E M V E A Q K L H A K L L R I M A N Q E E L D M N L L I H A H A Q Q
UniRef90_UPI00037089CF A A I T A A G K E L V G K A H E L Q T A L M A A E C D G E P L E K S I L L I H A H A Q Q
UniRef90_C0CWF8 T L L K E A S D L I V Q A H N A Q T E V I Q S Q V G G E N M E Y S L L F I H A H A Q Q
UniRef90_UPI000403A403 E K L A E A D R E F S Q A H R F Q T Q L I Q A E A G G E D F D T P I L L I H A H A Q Q
UniRef90_UPI000376C05C E L M N L G D I E L N K A H K S Q T D L L V A E A S G E D I R T N V I L I H A H A Q Q
UniRef90_UPI0003F5644B A K L K E A N D A L V E A H N A Q T D L L H Q Y A N G E Q D I R T N V I L I H A H A Q Q
UniRef90_S4E1W0 T Q L K Q A K E K F A A A H H V H F D L I Q K E A S G E K T E L G L L L V H A H A Q Q
UniRef90_C7TAA4 A K L D E A Q K D I N E A H N Q T Q L L S Q E A G G A E M D V T F I M V H G Q
UniRef90_UPI00047C0879 Q K I K E A N D A L T K A H N Q T Q T R L I Q D E I N G K S V T M S L L M V H A H A Q Q
UniRef90_S0PGB0 L Q Y S E A K K E L N L A H R A H A E L L R K L S A D K M E V D L L L V H A H A Q Q
UniRef90_UPI00046A62C6 T T L K D A K K T L H E A H N I Q T K W M T D E M N G E K V E K S L M L I H S Q
UniRef90_B9YDW4 N H L K T A N E F I V K A H T K H T E L L Q S Y I L G E E G Q P F Y M I F S H A H A Q Q
UniRef90_UPI000411115 E C L K K A D A K I M E A H A M Q T E F L K K E A A G E K E Q L N V I V S H A H A Q Q
UniRef90_V0LHY3 A M M D Q S R I L A N E A H L V Q T K L I E G S E M G E G K Q N E H S L L F A H A H A Q Q
UniRef90_R3W586 E E M K V A K K N I T E A H K I Q T R A I Q S E M G E G K Q N E H S L L F A H A H A Q Q
UniRef90_B2TLJ6 K L M D K A N E E L H L A H N T Q T S L I Q W E I N G K P V E I T S L L M V H A H A Q Q
UniRef90_S5L8F6 Q K I T E A K D I K L A H R A H A E L L R K L S S E N R M E V D L L L V H A H A Q Q
UniRef90_UPI00047DD9B1 A K M T K A Q S F L L H A H K K Q T E V L L N L A S R E Q E T P L T V Y L V H A H A Q Q
UniRef90_A8RAB0 S L L K E G N D A F Q K A S E I H H Q A L Q K D T N R E L E L T L G L L L M H A H A Q Q
UniRef90_R5ZXB9 K A M S D G D E N F S Q A H G A H L H V L Q E E M N T Q E P Q I T M L L A H A H A Q Q
UniRef90_UPI00021975A8 K L V E E A N K S I V D A H N E Q T K L L A D E A A G G E M D M D V T F I M V H G Q
UniRef90_S0RZZ6 V A M K R G Q E R M A E V H N I Q T K L I Q A E V N E E E V P Y S L V M T H A H A Q Q
UniRef90_D4JGC1 S L L E A E K S L L R A Q R I H A Q L I E S T F V R N E E M K N L F V V H A H A Q Q
UniRef90_K5U606 E K L S Q A K E C I N K A H L I Q T Q L I E E D Q G E G K V P M T L V M V H A H A Q Q
UniRef90_G4L5N6 Q K Y K L A K N E L R I G H R A H A E M L R K L S S E E R M D V D L L M I H A H A Q Q
UniRef90_L0KEC3 E L L E E A N E K S L K A H K M A N L V Q K E A S A G E E V N M S L L L A H A H A Q Q
UniRef90_R6UP46 Q Q L E E A R G S I L L A H K A Q T D L L H K E A E G K H L E V T V L F S H A H A Q Q
UniRef90_J2IQ6 V R I S E A N A S L Q K A H Y F Q T E L I Q A E A R G E K K D R S I T Y
UniRef90_UPI00045EB5E8 A Q L A G A Q A A L R T A H Q V H T D V I Q A E A S Q T A V T F S P A L F S H A H A Q Q
UniRef90_X0QQH1 N Q L K E A N K L R T A A Q A H H F K V I T A E A S G K G P T F S L L L V H A H A Q Q
UniRef90_S4EPA0 S A L K E A D E N L T L A H N S Q T K L L A E A S G K E M E M G F I F I H G Q
UniRef90_U2TZH7 E L L A E A K K A D L E A H N A Q S A M I S R T D G A Q A P S L S L L E V H A H A Q Q
UniRef90_K8EK15 K K L D Q A Q E S L R I A R N G T Q M D V I Q M E T N G Q K V P H L H L F A H A H A Q Q
UniRef90_R2SEJ3 E K Y M T A K S E M K L A H R A H A E M L R K L S S E E R M Q V D L L L V H A H A Q Q

	90	100
UniRef90_G5IMN1	D H Y T M A L M A V D M A N M S I D L N R R L	
UniRef90_G1WH65	D T L M T I M S E V N F A E R L I G L F E	
UniRef90_UPI00036E294B	D Y V M T G M V M K E M T S E L I N L Y T Q I	
UniRef90_H1BBY1	D H Y S T A Y N L Q L L C K I F M D	
UniRef90_H7F2Z8	D H L M T A H A E L N L J A E K L V K V Y K R E A	
UniRef90_U7VCH4	D H L M N A I L L	
UniRef90_H3KB94	D Y L M T T Y I L L K D M V I E I I Q L Y	
UniRef90_B6FWM6	D H F M G T I I T Y R E L A K E M V D M	
UniRef90_UPI0002E8C2F2	D H L M T T M L C R D L A V E I I E L R K E M	
UniRef90_F4LSJ2	D H L N A A E T I F V L A K E L I L L H K	
UniRef90_F9QDY1	D Q F M Q A E S A L I S A E K T I K I F R K L	
UniRef90_W5SE89	D H L M S V S S E L N I F E E L I N L Y K	
UniRef90_H7F6P8	D T L M N T I L A S T L I R E M I D M Y	
UniRef90_T3G0A6	D H Y M T S Q L A K D L I E A L I Y C L D K	
UniRef90_B9CMV1	D Q L M Q A E T F R V I A E D F I D V Y E K L	
UniRef90_UPI000475741C	D H L M N A I L L	
UniRef90_B7C833	D Q L M S A E T I K T L I Q E I I L L I E	
UniRef90_A6TVP9	D H L M T A I A E K G L I E N M M D L Y K R	
UniRef90_G4L798	D H L M T T V T L R E V A L E M L H L Y K N I	
UniRef90_W5T3N2	D H L M S A V S E L S I F E E L I D A Y K	
UniRef90_C3W9D8	D H I M T T G L F L D S L E D Q I N L T E R	
UniRef90_R6FSF9	D H L M T T M V L R E M A V E M L H V Y R E M S	
UniRef90_G1VX10	D T L M T I A S E I H L T K K L L N M Y R	
UniRef90_D8GFP4	D H L M S A M T I R R L A D E L I D L Y Q Q	
UniRef90_UPI000408EC81	D Q L M A A E L Y K T L F M E F K S V Y G K L S	
UniRef90_U5F8N6	D T L M T I N S E V N L V Q S M I R L Y R K L	
UniRef90_A8S5P0	T H L S N A E V T K D L A R Q M I S I L K K	
UniRef90_D9QZV4	D T L M T I Y S E I N I	
UniRef90_H7F4N7	D T L M T A Q S E I L I G E H L V K L F E S L	
UniRef90_F2N892	D T L M T I N S E V N I T M N M I R L Y R K L	
UniRef90_E2SGX3	D T L M T I Q S E Y N I A L H L V A I L K	
UniRef90_C6DAV7	D H L M N A M L C R E L A E E I I E L R K E V S	
UniRef90_A6LWY1	D H Y M T A Q L A R D L I E A L I N V F E	
UniRef90_V6Z2Y5		
UniRef90_E4SX16	D T L M T T M L L K D Q M K T I I D L Y D R	
UniRef90_E0PJ35	D Q L M S A E T I K L M V E E F M I L Y	
UniRef90_W7CLX5	D T L M T V Q S E Y N I T K K L I P L L E R L S	
UniRef90_C9AD33	D H L A M A M T A T E Q A A E W L Y L Y Q K I S	
UniRef90_R5ZAY1	D Q M M S S E T I L T L A R K T L E I T E	
UniRef90_C2CHS9	D Q M M A C E T I Y I L A S E L M K C Y E R I	
UniRef90_G1VKU1	D H F T N A L N W K M M V K L L M N	
UniRef90_U2NKT0	D H L M N A I T V K E I S T E L I E E C K K	
UniRef90_UPI0002E071D6	D H L M N A I T V R D L A K H V I K L S E K L	
UniRef90_R6V0K1	D Q M M A S E I I Y Q M T R E L	
UniRef90_UPI0002EE9475	D H L M T A I L A K E L I S E Q I E M K K E I	
UniRef90_R3WWMQ4	D H M M A A L T S L D F A K E	
UniRef90_H3NPR0	D H L T L A T M A I D N A	
UniRef90_V7I0V2	D H L M T A I S E K N L I A Q L I E M R K S I	
UniRef90_UPI00038091E7	D H L M A A R T E I T L I K E L I E L H K K L	
UniRef90_K8D6V0	D H L M N S L L A R E F S E E L I H L Y Q R	
UniRef90_R2VEV1	D H L M T T M T L L E V A N E M R Y L Y Q Q	
UniRef90_T3DF10	D H Y S N A L F A H S L V S E L V D I F E	
UniRef90_T0U7D9	D Q L M T T M S E Q A L I E R L I K M	
UniRef90_G5IAX0	D T L M T V K S E Y E L A E K L V E M Y E A I	
UniRef90_Q03XM5	D S L M I T M S E L N I A K K M	
UniRef90_N4WQW8	D H L M N A M T V R D L A Q E M I E L Y Q N I	
UniRef90_U2P3A3	D T M M T I Q S E Y R L M K R M I N L Y R R I	
UniRef90_D7UZN9	D H F M T A K A E L E M A K R L V T S Y K K	
UniRef90_R6UYU1	D H I A S S S I A V E M S G E L I E L Y E R M	
UniRef90_UPI00037089CF	D H F M N A L T V R D M G L L M V Q M Y E K L	
UniRef90_C0CWF8	D T L M T I N T E L R M A K K L L P I V K	
UniRef90_UPI000403A403	D H L M T A M T L K D L A R E I I E L R Q E V S	
UniRef90_UPI000376C05C	D H L M S T I M Y Q R L A K Q L I K L L S K	
UniRef90_UPI0003F5644B	D H L M T S T T L R E M A V E M L E M Y K	
UniRef90_S4E1W0	D Q L M T T S M L Y D V A E Q M I G M Y Q K M	
UniRef90_C7TAA4	D T L M T T M L L T D Q S R Y M I R M L K R I	
UniRef90_UPI00047C0879	D H L M T S I S E I S L I E Q M I K M L K R I	
UniRef90_S0PGB0	G H L S S T A F A V D M I G E L C E I Y Q	
UniRef90_UPI00046A62C6	D H F I S A D I M M T V A E K V I N L H D E I A	
UniRef90_B9YDW4	D T L M T I N S E L L I A K H L I K I S K A L	
UniRef90_UPI0004111115	D Y V M T A L V M K E M A E E M V H I L Y E Q L	
UniRef90_V0LHY3		
UniRef90_R3W586	D T L M T I Y S E I N M A N H L I K I A K Q L	
UniRef90_B2TLJ6	D Q L M T A I S E N N L V K E L I E M F K L I	
UniRef90_S5L8F6	G H L S S T D I A V E M I R E L G E I Y Q	
UniRef90_UPI00047DD9B1	D H V S N A K M V Y D L V Q E L A E I H	
UniRef90_A8RAB0	T I L S S A E T I R D L A N T I I M L I E K	
UniRef90_R5ZXB9	D Q L M A A E T I K T L I Q E M T L L L E	
UniRef90_UPI00021975A8	D T L M T T M M L M E Q C K F F I D E Y E R I	
UniRef90_S0RZZ6	D H L A N A I S W S R M C Q L L I D Q M E R	
UniRef90_D4JGC1	D Q M M S S E T I L S V V K G M L K I L D K	
UniRef90_K5U606	D H L M T T L L A Q E M A V E I V A L N K Q L A	
UniRef90_G4L5N6	G H L S S T D I A I D M I G E L A E L Y K	
UniRef90_L0KEC3	D H F M N A S M A R D L V S E M V L L F E	
UniRef90_R6UP46	D T L M T T Q S E L F F V E T L Y E L	
UniRef90_J2IQA6		
UniRef90_UPI00045EB5E8	D T M M T T D G E I R M V R R L V A A F K	
UniRef90_X0QQH1	D Q L M A T E S	
UniRef90_S4EPA0	D H L M T T L L L R D L I Q D F I V L Y R Q	
UniRef90_U2TZH7	D H Y M T S Q L A R D L I E E L V D V F E	
UniRef90_K8EK15	D I L M T A T S E W T M A T H I	
UniRef90_R2SEJ3	G H L T S T D I A V D M I A E F G E L Y K	

UniRef90_UPI00031FE15A E L L E K A E E E L S L A H K T Q T K L I Q M E V N G E S L Q M S L L L M V H A Q
UniRef90_B9YAQ3 A L L S E G E Q I F N Q G H E A H H G Q L L I T Q F E A A G A E V K V D L L L V H A E Q
UniRef90_B9Y3X1 Q A I L A V A R D E A I V K A H E I H H T S Q L L V I E E A R D P A L P M T M M L I H A S E
UniRef90_C4L0E7 E K J L D E A R G Q L V K E A H Q T H F S Q I L Q R E A N G E K T D V S L L L L H A H A
UniRef90_E7G8C7 E L I C Q G D D M F S Q I Y S I I Q N Q Q L T Q E E V N G I L N D Y H L L L I H A Q
UniRef90_C2BGB7 E L I K E G K E T Y A Q C H K K L H Q Q M F T T D F A Q Q G G D A Q V N P L Y I H A E
UniRef90_D2EH58 T M L K D A R D E A L K V A Q K K A H L K V L S D F A Q Q G G D A Q V N P L Y I H A E
UniRef90_UPI00020D9D03 T E I Q A A D E A L K A A H D I Q T D M L T K A A Q Q G E H T E V D L Y M L H A
UniRef90_U1WBU1 D L I K R A D D K T Q V E G H N I Q T A M I K K G D I R G E K L G Y H V L F A H A Q
UniRef90_E7G9U3 S L Q E Q Q G K E L Q V V G Y E H I H M L K K S S L E E K K S V S L L L A H A E
UniRef90_G4EL62 E N I K K A N E N I N K A S E Q H F D L I Q K E A S G E T I N V P L L L M H A E
UniRef90_T2RG08 E L L K E A S E T L N K A H R F Y Q N K V I Q A E A S G A E A E S I H Y S V L F T H A Q
UniRef90_S4NA48 S K M V V A H Q W L V K A H R F Y Q N K V I Q A E A S G A E A E S I H Y S V L F T H A Q
UniRef90_B9Y2R9 A K M E E A E N K I N E A H K A Q Y A M L Q E E A A G E Q H A E F S I I V V H A Q
UniRef90_S5M038 E L L M K E A E E L L N K A H R S A D D M L F E E A A K G E Y S A T V T G V L L I H G Q
UniRef90_C4L1T1 A A V V A G D A T L N K E A H I Q T K F V T L E A Q G K S A T V T G V L L I H G Q
UniRef90_B1SDK3 E K L A A A D E E L L Q A H H A Q T D L L Q K Y A A S G T E K I E I I M V H A
UniRef90_U2PP32 E A I K K A K D D L N Q A S E I Q T L L Q S E A R Q G T E N Q Q F G L I M V H A Q
UniRef90_UPI00036C9259 E L I E Q G D E A F R A S E A H H Q A L Q S M E A R Q G T L G C G L L L I H A E
UniRef90_A4VY51 Q L L Q D A I A S L N I A H K S Q T Q L L A K E A S G E S V G I
UniRef90_A0A011SGP8 E L I N E A E K T M N A A H N A Q T K L I Q S E V Q G K K L D G G L L M I H A Q
UniRef90_Q14NY3 E L I N E A H Q E L T K V H K F H A E L I Q H E A N G E Q Y P M T V L V V H A Q
UniRef90_S2PSI3 M Q L K E A D D A L V S A H N A Q T E L L T A E A S G N H A E V I S L L M V H A Q
UniRef90_W7D907 A H L K E A E V Q F L E G H A W Q T K F V L N R R G S K G G L T P S L L L V H G Q
UniRef90_S8PB30 I E I E L A D S A L L E A H N L Q T Q F L A Q E A G G T R T D I S A L F S
UniRef90_W6RZQ6 E L F K M A E R E I L E K S Y D I Q K E V S E L E L D S E D L L V D A K
UniRef90_S5MAV4 A I L K I A Q E Q E M I N A H H A H F E V L M N E E A T G K Q L D F K L L M V H A E
UniRef90_UPI00031765A3 E I L D E A Q E K E L I J A H R S Q Y E V L M N E E A T G K Q L D F K L L M V H A E
UniRef90_W6A642 Q L M A D A E K E M I N A H N A H M D V V V I Q E A Q G G I Q H D F K V L F M H A E
UniRef90_W6A7P7 E L A S K A K T K L N E A H K L H A E I I S R E A Q Q G E N W D K T L F I H A Q
UniRef90_H1LGW7 T Q F A Q A H E W L V K G H N E Q N K V V K Y V D S L Q Y S V L F D H A Q
UniRef90_UPI0003B47C57 E L A K R A E E E L N E A H K A Q T K L I Q A E L N G T A G E K T L M I H A Q
UniRef90_R5ADM2 K E L E T A D G D L Q A A H D A Q T K L M A Y Q L E G G E I K F Q L I L L H A M
UniRef90_A5MIM4 I K V E E A E D S L V E A H K I H S N L I Q
UniRef90_G5HMS4 K K I E E A E D H L S K A H E I Q F K L M S V Q A G G E E I P C N M L L L H A M
UniRef90_B9YAK5 A T L E D A G Q L L T A H K I Q T F A L M N Q E A L G D D V V P S I L M I H A M
UniRef90_G2RNI9 A E V A K A N S I L N E A H R I Q T K F V T L E A Q G K S A R V V G V L L M V H A Q
UniRef90_M1ZAM8 S K I L E A E K Y L S E A H R I Q T F E L M S P Q A R G E E E I P F N V L L L H A M
UniRef90_L0KCA9 N L L E E A R E E F N K A H E V Q S Q A M K Q D D K G E D K V Y T N M L L A H A M
UniRef90_R9LNJ2 L L K E A Q A Q L H E G H E I Q T K L M Q D E I N G K Q V E K S I L L I H A Q
UniRef90_UPI0002E7E798 Q L M E Q V N E E L N K A H R I Q T D L I Q A E S R G E S T E V S L L M V H A Q
UniRef90_E0NZ41 D L L A R G D E Q Y A V A H A H V I Q L L Q M E A G G T L E D H V S L L L H A E
UniRef90_UPI000348C6A4 E L M A Q A D K A I V E A H E M Q S E I R R I L N G G E S D V S L I M V H G Q
UniRef90_W1XZF2 K L I E K A D K E L A E S H K V Q T S L I Q N E A A G K K T E V S L L L V H A Q
UniRef90_F2BPP0 A E L E Q A R K L S V E A H N L Q T S L I Q S E L S G Q A N P Q Y S L L A V H A Q
UniRef90_X0PKR3 K E L T E A S D W L R K A H L K Q N Q S V M Q H A D K L Q Y S L L L T H A Q
UniRef90_W1Q4V1 D L L T Q A Q A L N I E A H N L Q T G L I Q A E L Q G Q A A P V I S L L A V H A Q
UniRef90_G1WK37 A Q M L V E A K E A D L Q A H Q V E T E I I T A A L S G D D S G A N L M V H A Q
UniRef90_G9ZR17 R Q M A T A H Q W L V K A H V E Q N K L M K D A E R V T Y S L L L T H A Q
UniRef90_I7LCD7 K R Y E E A K E C L K D A E K A H F E I T N E A K E K S S K L S L L L V H A E
UniRef90_K0NNN2 I V N A H N S Q N A M L T K E A S G E H I P V I S L L L V H S Q
UniRef90_C2D5U1 E N L S T A Y N W L K K A H I E Q N K I M Q H A Q Q L Q Y S V L L T H A Q
UniRef90_D0BM81 E L L D E A K A K G V E A H N I Q T E M I Q L E I K G E A S S P T L L A V H A Q
UniRef90_R9LXC8 E L I A Q S D E A T T L A Q A A E S D L E F V E G N E K D V J E A W V J E H S Q
UniRef90_X9KGK0 H L I E E S G N N C I J A E A H R A Q T S L L A K E A Q G D D I A Y S V T M M H G Q
UniRef90_S5Z3U3 M E Q A G A E R Q A A H E L Q T S L L Q Q E A G G Q S T A V I T L M V H A Q
UniRef90_UPI0002D66584 D E L N K A N E L T K E A H I I Q T Q V I Q K M A K E N K E S A E L L F A H A Q
UniRef90_J9W6L1 A Q L N E A H Q W L V Q A H Q Q Q N L V I A E A E T V G Y S L L F T H A Q
UniRef90_I2WAK5 Q L M A S S E S A C L Q A H K I Q T A L I S Q D E G C G K I K L
UniRef90_R3WP44 R K K M D S A R K E L N Q A H N K L Q T D M I Q L E A N D K E V P F S V L F I H A Q
UniRef90_Q3Y3R2 E K K Q E A E A L M N E A H N L Q T S L I V N E V N G D D N Q I N A L L I H A Q
UniRef90_S2PYL8 A K L K E A D S F L S D A H N A Q T G M L T E E A Q E K N I Q Y
UniRef90_E1MA93 A L V E E A N A C I A D A H
UniRef90_D8FP04 E K L A E A D K S L L D A H N S Q T D M L T K E A Q G
UniRef90_G6TS05 M G L N Q S N E I I L E A H H A Q T K L L Q E Y A S G V E I K I E I I M V H A Q
UniRef90_R9MCZ9 K K L A E A Q K E L L A E A H R I Q T F E L M S P Q N A G G E E I P V S M L L H A M
UniRef90_D3KLK6 I K K I V I A H S L Q T D T L Q L E A S G N Q I R Y S T L F C H A Q
UniRef90_I6NL03 Q K I T E A K D E I K L A H R A H A E L L R K L S S E N R M R E V D Y X C H A E
UniRef90_C0D785 E R L R E A E T E M R A H Q A Q I D M I Q Q E A A G N S V D V N I Y
UniRef90_R5RLM2 E Y L I K A G E T L L E A S K I H A G C L T V S D L D L L L V H A E
UniRef90_E3YED5 L K E A D D L M I E A H K V Q T E M L I Q E T R G E Q A N F S V L L V H A Q
UniRef90_UPI00029AC91C V K I N E A E K R L T E A Q K A H F K I I T S E A K K R Q L P I S L L L V H A E
UniRef90_B9Y9G0 A K L Q E A R V E L F T E A H Q S Q T K L L T E N A Q A V S A E P D L L M V H A Q
UniRef90_H6CNL4 E R L E E G K D E L V K A H K L Q T
UniRef90_A6NRV6 A C M E Q C E R S L S G A H Q E Q T D M L R A E L S G N K Q E V G L L M V
UniRef90_T3SUQ9 M L I E E A R K I D I E A H R I Q T E L I T Q D L N E S P A V S L L M V H A Q
UniRef90_UPI00037CDCEB E L S V C H D Q L L A A H K V Q T Q M M A K I A A E D L P V I T L L I N H A M
UniRef90_U2XKC7 E K L S R A E V J E L M T A Q R L Q V R R L V E N A Q A Q R F V H S T L F M N A Q
UniRef90_UPI000190D397 E E I Q L A D A A L L E A H N L Q T K F L A Q E A S G T K Q K L Q S L F I H



UniRef90_UPI00031FE15A D H L M T A L S E K S L I E H M V K L Y K 90 100
UniRef90_B9YAQ3 C Q M M S A E D F K V I A E E V I A I A E K
UniRef90_B9Y3X1 N H L T A A E V S R E F A E R L L K M
UniRef90_C4L0E7 D H L M S T Q T M L D L T A G L V E M V E Q
UniRef90_E7G8C7 D Q V M S V E Q V K V F A Q E M N V C Y Q R I
UniRef90_C2BGB7 D Q M M S C E T I Y V L A N E I M Q C Y A R I
UniRef90_D2EH58 D Q M M S A E I F L D L L S E L I T T N K E L
UniRef90_UPI00020D9D03
UniRef90_U1WBU1 D T L M T L Q V E L N L T K S M L K
UniRef90_E7G9U3 D Q L A N A E L F E I V C R Q M I R L Y Q K I
UniRef90_G4EL62 D Q L L S T Q T L I L M A E E M I D L H K K L
UniRef90_T2RG08
UniRef90_S4NA48 D T L M N T E T L E F I I K K F I P L L R N
UniRef90_B9Y2R9 D H L M T T M A T I D L I K E L S E L Y
UniRef90_S5M038 D H L M T T L L L K D L A Y N L I E F W K K
UniRef90_C4L1T1 D H L M N T I L V K E M L G Y M M N M
UniRef90_B1SDK3
UniRef90_U2PP32 D H L S M A M M A I D H A N S M I K L Y Q K L
UniRef90_UPI00036C9259 T I L I S A E T I K G L L P T I V E L A E R
UniRef90_A4VY51
UniRef90_A0A011SGP8 D H M M T A I A E N Q M V K R M L P I F E K L
UniRef90_Q14NY3 D H F N S A I I L L D L A E H L I C L Y E R
UniRef90_S2PSI3 D H L M N A I T F R D L A G E V V A V Y Q R M A
UniRef90_W7D907 D H
UniRef90_S8PB30
UniRef90_W6RZQ6 S H L N A A I S E K N I I G E L I G L R K
UniRef90_S5MAV4 D Q F L T T Q A M I D L S K E M I E M Y K
UniRef90_UPI00031765A3 D I C M N A A N S I Q Y T K R L I A L L E
UniRef90_W6A642 D Q M L T T Q T L M V L A Q E M I E M Y K K I
UniRef90_W6A7P7 D H F S N A L V I L D L L D Y I I D L Y K
UniRef90_H1LGW7 D T L T N T E T M Y F L L K L L P L
UniRef90_UPI0003B47C57 D H L M T A M S E Q K L I E R L I R L V K K L
UniRef90_R5ADM2 D L L M V A S A E R D M L K H V V
UniRef90_A5MIM4
UniRef90_G5HMS4 D I L M T S T A E K D M I K T I V K
UniRef90_B9YAK5 D I C M T A A N S I Q Y T K R L L P L L Q
UniRef90_G2RNI9 D H L M N T I L V K E L L D H M M T M Q K E I
UniRef90_M1ZAM8 D L L M I S I S E K D L V D T I I
UniRef90_L0KCA9 D H L M A A K S E M V L I E E L I E L H Q K
UniRef90_R9LNI2 D H F M A A D T V I L L A K Q I L N L Y E R L
UniRef90_UPI0002E7E798 D H F M N A M T V K D L A L E I L N L N K K
UniRef90_E0NZ41 D Q L I S A E T Y K A L A V E A G H I Y Q I L A
UniRef90_UPI000348C6A4 D H L M N A I T T I D L A K Q I V A L V R E R A
UniRef90_W1XZF2 D H L M T S M P C K
UniRef90_F2BPP0 D H F M N S H L L L E L A A V F L N Q I E E I
UniRef90_X0PKR3 D T L M N T E T I Y F L V K R L L P L
UniRef90_W1Q4V1 D H F M N S H L L V I Q V A
UniRef90_G1WK37 D H Y M T S Q L A R D L I A E I V N I F E
UniRef90_G9ZRv1 D T L M N T E T I Y F L V S K L L P L L E K
UniRef90_I7LCD7 D Q M M A A E L L Q D L S M S I V R L N K K
UniRef90_K0NNN2 D H L M T A I T Y I D L A K E L V A V Y E K M A
UniRef90_C2D5U1 D T L M N T E T I Y F I V K R F I P I
UniRef90_D0BM81 D H F M N S H L L L E M V
UniRef90_R9LXC8 D H L M S S L L A T E T I K E M I E M Y
UniRef90_X9KGK0 D H L M T T I L L K D L M K H L L E F Y K R
UniRef90_S5Z3U3 D H L M T A I A V K E L A A E F V D L Y E H I
UniRef90_UPI0002D66584 D T L M T L N S E Y N T A V I Q M M A M Y Q
UniRef90_J9W6L1 D T L M N T E T I E F V I R K S I
UniRef90_I2WAK5
UniRef90_R3WP44 D T L M T L T S E V M M T E K I V T I L K N L
UniRef90_Q3Y3R2 D T L M N T I L L M S T I V D E F L N L Y K
UniRef90_S2PYL8
UniRef90_E1MA93
UniRef90_D8FP04
UniRef90_G6TS05 D H L M T T M T L L E V A K E M L A L Y K K
UniRef90_R9MCZ9 D M T M V A T S E H D M L Q
UniRef90_D3KLK6 D T L M T A K S E I L I G E H M L R L F K K M
UniRef90_I6NL03
UniRef90_C0D785
UniRef90_R5RLM2 D M L I S V Q L Y K S L I K E F I D I Y K K I
UniRef90_E3YED5 D T L M N T I L A S T L I R E M I E M H Q E I
UniRef90_UPI00029AC91C D Q M M A A E L
UniRef90_B9Y9G0 D H F N A A Y I D I D F
UniRef90_H6CNL4
UniRef90_A6NRV6
UniRef90_T3SUQ9 D H Y M T S Q L A K D L I E A L I Y C L D K
UniRef90_UPI00037CDCEB D T L M A V I Q G N Y E L L E A L
UniRef90_U2XKC7 S A L V S V M G E F Q M T E N L M G A F E R
UniRef90_UPI000190D397

lupas_21
lupas_14
lupas_28
jnet
conf 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 8 7 3 5 9
sol25 B B B B B B B B B B B B B B B B
sol5 B B B B B B B B B B B B
sol0 B B
jhmm
jpssm

