

QUERY 1 10 20 30 40
UniRef90_L7ZHI3 EQVYELRDFALGTSVRIVVVSQKLNPRRTIAEAILEDKRLLEQVNTN
UniRef90_K2GZB9 EQVYSLFEGGKPTMGTTTWEIVITLASEASDGVNRVQKQLRQDDEIIDEVLLLETTENN
UniRef90_Q8D171 EQVYSSLESGPTMGTTSYNLKYIQQQDPSDDDLHKEILLDRILLLEEVN
UniRef90_F0LU68 QVQVHLRSGFLLMSTVVYALVYVTDDEALGQEEALSAAYRRRAAEELV
UniRef90_C0GEW8 RRSSEEGKFTMGTYYSIKYVISESEEPAPPEEAALQKAEVLDKRLLELVN
UniRef90_E5YIG1 EQLHLISGKPTMGTTTYNIKYVISESEEPAPPEEAALQKAEVLDKRLLELVN
UniRef90_C9NNM8 EQLHLISGKPTMGTTTYNIKYVISESEEPAPPEEAALQKAEVLDKRLLELVN
UniRef90_UPI000366B462 KLLSGSTMGTTTYHHIKYVHNGKPEPQLLQAQAQQLDQQRLLDQDQQLQDQVNVN
UniRef90_UPI0004706863 EQQNLLDGGKTMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_D3V457 EQLVLELQGGRTMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_L0MEP0 EQLVLELQGGRTMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_H8Y27 EQLVLELQGGRTMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_L0GZS7 EQLVLELQGGRTMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_B4EUU0 KQQVLELQGGRTMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_G8MOR5 EPLYENTDFAMGTYVINQRRIYADNSAEEELSRKTEVMDRILRQIEN
UniRef90_L0WEH1 EQLHLISGKPTMGTTTWSVKFTGPD D DGVPLGKKAIEGALLVITIN
UniRef90_R1GXA4 EQLASFLSGPTMGTTTYTVKFFITKDNASADLQKAEVDDAARLELVN
UniRef90_A6VW14 EQLVRLISGKPTMGTTQYHVKMVPVPPSSQSEELQYAVLDEELRRIIN
UniRef90_Q21JR6 EQLVRLISGKPTMGTTQYHVKMVPVPPSSQSEELQYAVLDEELRRIIN
UniRef90_UPI0003B46493 EQLVRLISGKPTMGTTQYHVKMVPVPPSSQSEELQYAVLDEELRRIIN
UniRef90_D4F2L2 EQLVRLISGKPTMGTTQYHVKMVPVPPSSQSEELQYAVLDEELRRIIN
UniRef90_I3VUW9 QQYTRTDFMMDTVMQVTAAYGRNAAKKAVIDESMKNLREINDD
UniRef90_M7CQ75 EQLVWVSSGGIFGTTTYHISLVLDQKERRLSKLLADGAFREKAMKTINDD
UniRef90_C5CFH3 EYQYTRTEYLLGTYVTIKVAVSSEKLSVILADAFREKAMKTINDD
UniRef90_F9TM79 EQLHLISGKPTMGTTTYNIKYVVDGGAASDDIQVIEVIDKRLLELVN
UniRef90_I4W5J4 QLQRMDDGKTMGTTTWSVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_V5HNN8 EQLVLELQGGRTMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_U3BMU7 EQLHLISGKPTMGTTTYNIKYVITQEPGLPADVQKAEIIDKRLLELVN
UniRef90_Q6LTY3 EQLHLISGKPTMGTTTYNIKYVITQEPGLPADVQKAEIIDKRLLELVN
UniRef90_Q0VQR2 EQLHLISGKPTMGTTTWSVKYTGTPSDDGQALKADIVAALELVN
UniRef90_K6ZQC5 HLLTGHHTMGTTTYNVKVTNDNVDDEQQQLHDNIIDAAALVKNV
UniRef90_S7V5H9 QLISGKPTMGTTAFHHIKMVTDKDDTRRVLEQTEERINKRLLELVN
UniRef90_B0TQZ7 EQLISLQGGNTMGTTTYHHIKLVDEPMDAQSVLQTEERINKRLLELVN
UniRef90_A0YHB4 HFLVLSVIGQTMGTTSYHITVVKDGDGQKILLQQAIIIDQQLILISV
UniRef90_Q1YP00 EQLVQLISGSKFGTYSYVRIYVADQPAPADLQKAEIIDAAALVSDV
UniRef90_G0GG06 EPLVLRTRDFALGTYCNSVRIYVADQPAPADLQKAEIIDAAALVSDV
UniRef90_H9UCF4 QYSDFEDYIFGTYVRIYVADQPAPADLQKAEIIDAAALVSDV
UniRef90_UPI0002DB7298 EQLHLISGKPTMGTTTYNIKYVISESEEPAPPEEAALQKAEVLDKRLLELVN
UniRef90_P44550 KVLISLSSGKPTMGTTTYHHIKYVLDGDSSEKTHHEEIEALLKDVN
UniRef90_B8CY08 EQLISRTDYFMDTTVITIKVVVKPAGADITIEEALSYMKKKA
UniRef90_V4JC95 HVLQGGATMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_Q82SE9 HVLQGGATMGTTYSYVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_R8B5Y8 KILWEIAGPVFGTQYHIVLTDNEARLEETLGSGIEQVLELVN
UniRef90_UPI0003B79AA8 EPLIKLQGGPTMGTTTYNIKYVLDGDSSEKTHHEEIEALLKDVN
UniRef90_B0ND39 QTYTDTDFDFTVYISVQRYLNDPSSASTIQQAESIIDKRLLELVN
UniRef90_A8FYV6 EQLVLSLGGNTMGTTTYHHIKVVVNEQLPEVLLQAEITDALLKLVN
UniRef90_Q1N4Y7 QLISLGGNTMGTTTYHHIKVVVNEQLPEVLLQAEITDALLKLVN
UniRef90_B5FB16 QVYLNPTMGTTSYNIKYVSAPTTPEESLQRDLIEQKLLQLIN
UniRef90_E0WSD4 VYKETE QFLLMDTIVIEITAYGPG AEEAVKKAFAEFQHLH
UniRef90_UPI000367D02 ELLKILQGGKTMGTYHHITVYVLDGGEQAETLQSSQITDRLLELVN
UniRef90_UPI00035E6940 ELLKILQGGKTMGTYHHITVYVLDGGEQAETLQSSQITDRLLELVN
UniRef90_UPI00036939E9 QTLHLISGATMGTTTWSVSLLAADPDPVVLKKKLQQRLLDQIEN
UniRef90_UPI00037F1661 QPQSESLFATMGTYHHITVYVLDGGEQAETLQSSQITDRLLELVN
UniRef90_A3XQN6 QPYKRTLKLMGSRFDITVVADEAQQGEAYIDWAVGGEITREIE
UniRef90_E4PFU1 KILWEIAGPVFGTQYHIVLTDNEARLEETLGSGIEQVLELVN
UniRef90_Q46QM6 QRLWSGPTMGTTTYHHIKVAMVQEAADALASQGLI CAVLSDV
UniRef90_UPI00025588BA QVVGFGQMTMGTTFSMKWVASSEDELAAVRDAGKLLSRVNVN
UniRef90_UPI00036EEEA6 PFTYSGLTEGTFHITKVPQSDPVLPEQKKNQIEMEVLQKID
UniRef90_R6BB02 YQHDEGLVFGTLYYHITVYVLDGGEQAETLQSSQITDRLLELVN
UniRef90_A3YDL9 EQLVLSFSGPTMGTTTYTVKFTYNE DSAWQYKDDVDRVLRIN
UniRef90_UPI00039ED999 QEQTLLHGNTMGTTYSYVTFFSQAQVDSDLQKQEMEQELLELVN
UniRef90_I1DTD6 QQQYQLDGNMGTYYVVKFYSDTPDLTVLQKHITDELELVN
UniRef90_C6CJS7 TFEKTMGTFYSVKISGAPESSSQQLLQKQEIIDALLQAN
UniRef90_E7NVM1 KEYARAGFVIGTYCQIRLYTSDPKKEA KTLQDSIFTRLQKLE
UniRef90_R6PVF6 YQHDEGLVFGTYHHITVYVLDGGEQAETLQSSQITDRLLELVN
UniRef90_A3QGZ3 KMLISMSGQTMGTYHHIKFVGDGKPD EQLLQKAEIIDALLQVNVN
UniRef90_UPI00047B4B1B HLLTGRMGTTYNVKVPAGTIDPQALQKAEIIDALLQVNVN
UniRef90_UPI0003603DB9 EILISGSKMGTTSYHILVYVADQLPPDDLQAEQIIDQLLSVVD
UniRef90_F1TDM4 YILEKESFQMGTVYSQRILYGS NAE D CANKVILQRLNNE
UniRef90_R5SCHQ9 YQKDTGFLVFGTYVYNTTYQVNDN N LKKEIEAEVSRV
UniRef90_I2EYE2 VHHLKRLMGNRYNTTYVVEEDAQAENLQKKEIEAEVSRV
UniRef90_U2CW11 YKSITGLIFGTYVYNI TYQDRN ELKPEIEAEVKRF
UniRef90_UPI000406F000 QINTGSTMGTYYQV KVVYDTPK PDG EALQALIDAEVAVN
UniRef90_D1PY44 YQHNFGFVFGTYHHITVYVLDGGEQAETLQSSQITDRLLELVN
UniRef90_Q3J7L6 YQLSAGATMGTYYSVKIVDARIDPEVLLDRDIDARLLELVN
UniRef90_UPI000469EBFE YQHKNKFTLFGTYVYNI TYQVSD EDLQSSQIEAEVSRV
UniRef90_UPI00035C26F6 KRNFETLHHTVYVQISITVYHK NQEKVLSQEAISYIEEME
UniRef90_UPI00037A9333 EQRTFYIYDITVNIKVFGKATQKN MDHITQQMLERM
UniRef90_UPI000378E6CF TFFIFDVTVNDKLYGDRANRHEH FNEIEALLNDI
UniRef90_G9EVI4 EPLVSRQTFLLMGTIVNDL KAYGK NADKAVQASVLDKISDI
UniRef90_R5ANN5 YESTTFAMDVTMTFHITVA PD DGEDLITDAEQEVKRL
UniRef90_F6CTL6 EQLVLSFSGPTMGTTTYTVKFTYSDLSNAPWSLKGNDAAALVNVN
UniRef90_B8GLP6 WHRQDAQLMGTIVLVQAQWAKDAARAGIDAVIRDMHRI
UniRef90_M4RGB6 LTLGPTMGTTTYNIKFTVDKLDKELKELQQLDQLLDI
UniRef90_UPI000371F77C KEFTDEKFLMDTLLQVTVYVSDDEQKQKALDKAFEFERI
UniRef90_M4U9D1 EVVQLQGNMGTYYKIVTYVLDGGEQAETLQSSQITDRLLELVN
UniRef90_F9U705 IILEEGPTMGTTYSYVKVARPPSTAEALKLDVDESVDKRV
UniRef90_R5UGZ1 EPLQMQMNGMYFGTIVYNTIRLWD TSD RSVLLEE C K L C QKYE
UniRef90_U2MAG0 YQHDTGFLVFGTYVYNI TYQVNDK DLNAEIVAEVSRV
UniRef90_L1MBL1 KYQTSQGEIFGTYHHITVYVLDGGEQAETLQSSQITDRLLELVN

QUERY
UniRef90_L7ZHI3
UniRef90_K2GZB9
UniRef90_Q8D171
UniRef90_F0LU68
UniRef90_C0GEW8
UniRef90_E5YIG1
UniRef90_C9NNM8
UniRef90_UPI000366B462
UniRef90_UPI0004706863
UniRef90_D3V457
UniRef90_L0MEP0
UniRef90_H8Y27
UniRef90_L0GZS7
UniRef90_B4EUU0
UniRef90_G8MOR5
UniRef90_L0WEH1
UniRef90_R1GXA4
UniRef90_A6VW14
UniRef90_Q21JR6
UniRef90_UPI0003B46493
UniRef90_D4F2L2
UniRef90_I3VUW9
UniRef90_M7CQ75
UniRef90_C5CFH3
UniRef90_F9TM79
UniRef90_I4W5J4
UniRef90_V5HNN8
UniRef90_U3BMU7
UniRef90_Q6LTY3
UniRef90_Q0VQR2
UniRef90_K6ZQC5
UniRef90_S7V5H9
UniRef90_B0TQZ7
UniRef90_A0YHB4
UniRef90_Q1YP00
UniRef90_G0GG06
UniRef90_H9UCF4
UniRef90_UPI0002DB7298
UniRef90_P44550
UniRef90_B8CY08
UniRef90_V4JC95
UniRef90_Q82SE9
UniRef90_R8B5Y8
UniRef90_UPI0003B79AA8
UniRef90_B0ND39
UniRef90_A8FYV6
UniRef90_Q1N4Y7
UniRef90_B5FB16
UniRef90_E0WSD4
UniRef90_I9MF76
UniRef90_UPI000367D02
UniRef90_UPI00035E6940
UniRef90_UPI00036939E9
UniRef90_UPI00037F1661
UniRef90_A3XQN6
UniRef90_E4PFU1
UniRef90_Q46QM6
UniRef90_UPI00025588BA
UniRef90_UPI00036EEEA6
UniRef90_R6BB02
UniRef90_A3YDL9
UniRef90_UPI00039ED999
UniRef90_I1DTD6
UniRef90_C6CJS7
UniRef90_E7NVM1
UniRef90_R6PVF6
UniRef90_A3QGZ3
UniRef90_UPI00047B4B1B
UniRef90_UPI0003603DB9
UniRef90_F1TDM4
UniRef90_R5SCHQ9
UniRef90_I2EYE2
UniRef90_U2CW11
UniRef90_UPI000406F000
UniRef90_D1PY44
UniRef90_Q3J7L6
UniRef90_UPI000469EBFE
UniRef90_UPI00035C26F6
UniRef90_UPI00037A9333
UniRef90_UPI000378E6CF
UniRef90_G9EVI4
UniRef90_R5ANN5
UniRef90_F6CTL6
UniRef90_B8GLP6
UniRef90_M4RGB6
UniRef90_UPI000371F77C
UniRef90_M4U9D1
UniRef90_F9U705
UniRef90_R5UGZ1
UniRef90_U2MQG0
UniRef90_L1MBL1

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

QUERY
UniRef90_L7ZHI3
UniRef90_K2GZB9
UniRef90_Q8D171
UniRef90_F0LU68
UniRef90_C0GEW8
UniRef90_E5YIG1
UniRef90_C9NNM8
UniRef90_UPI000366B462
UniRef90_UPI0004706863
UniRef90_D3V457
UniRef90_L0MEP0
UniRef90_H8YY27
UniRef90_L0GZS7
UniRef90_B4EUU0
UniRef90_G8MOR5
UniRef90_L0WEH1
UniRef90_R1GXA4
UniRef90_A6VW14
UniRef90_Q21JR6
UniRef90_UPI0003B46493
UniRef90_D4F2L2
UniRef90_I3VUW9
UniRef90_M7CQ75
UniRef90_C5CFH3
UniRef90_F9TM79
UniRef90_I4W5J4
UniRef90_V5HNN8
UniRef90_U3BMU7
UniRef90_Q6LTY3
UniRef90_Q0VQR2
UniRef90_K6ZQC5
UniRef90_S7V5H9
UniRef90_B0TQZ7
UniRef90_A0YHB4
UniRef90_Q1YP00
UniRef90_G0GG06
UniRef90_H9UCF4
UniRef90_UPI0002DB7298
UniRef90_P44550
UniRef90_B8CY08
UniRef90_V4JC95
UniRef90_Q82SE9
UniRef90_R8B5Y8
UniRef90_UPI0003B79AA8
UniRef90_B0ND39
UniRef90_A8FYV6
UniRef90_Q1N4Y7
UniRef90_B5FB16
UniRef90_E0WSD4
UniRef90_I9MF76
UniRef90_UPI000367D02
UniRef90_UPI00035E6940
UniRef90_UPI00036939E9
UniRef90_UPI00037F1661
UniRef90_A3XQN6
UniRef90_E4PFU1
UniRef90_Q46QM6
UniRef90_UPI00025588BA
UniRef90_UPI00036EEEA6
UniRef90_R6BB02
UniRef90_A3YDL9
UniRef90_UPI00039ED999
UniRef90_I1DTD6
UniRef90_C6CJS7
UniRef90_E7NVM1
UniRef90_R6PVF6
UniRef90_A3QGZ3
UniRef90_UPI00047B4B1B
UniRef90_UPI0003603DB9
UniRef90_F1TDM4
UniRef90_R5SCHQ9
UniRef90_I2EYE2
UniRef90_U2CW11
UniRef90_UPI000406F000
UniRef90_D1PY44
UniRef90_Q3J7L6
UniRef90_UPI000469EBFE
UniRef90_UPI00035C26F6
UniRef90_UPI00037A9333
UniRef90_UPI000378E6CF
UniRef90_G9EVI4
UniRef90_R5ANN5
UniRef90_F6CTL6
UniRef90_B8GLP6
UniRef90_M4RGB6
UniRef90_UPI000371F77C
UniRef90_M4U9D1
UniRef90_F9U705
UniRef90_R5UGZ1
UniRef90_U2MUGQ0
UniRef90_L1MBL1

90 100 110 120
E R V T D D G A F D P T V V G R L L E L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ L 7 Z H I 3 Q R S T D D G A F D D P T I V G G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ K 2 G Z B 9 R L T D D G A F D D P T I V G G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 8 D 1 7 1 T L T E G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ F 0 L U 6 8 T L T E G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ C 0 G E W 8 M T G G A F D D I T T V V G A P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ E 5 Y I G 1 K M T D G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ C 9 N N M 8 G L T L G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ U P I 0 0 0 3 6 6 B 4 6 2 W L T G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ U P I 0 0 0 4 7 0 6 8 6 3 G L T D G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ D 3 V 4 5 7 Q L T D D G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ L 0 M E P 0 R R L T D D G A F D D V T V V G R L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ H 8 Y Y 2 7 R L S G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ L 0 G Z S 7 H L S G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ B 4 E U U 0 K I L S D G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ G 8 M O R 5 E L S D G G A F D D A T I V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ L 0 W E H 1 Q Q S D G G A Y D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ R 1 G X A 4 L L S D G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ A 6 V W 1 4 E M S D G G E Y D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 2 1 J R 6 A Q S M G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ U P I 0 0 0 3 B 4 6 4 9 3 W L T G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ D 4 F 2 L 2 K L T D G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ I 3 V U W 9 K L S D G G Y F D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ M 7 C Q 7 5 K K T N G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ C 5 C F H 3 E K T G G A F D D P T I Y P P I T K L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ F 9 T M 7 9 Q L T R G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ I 4 W 5 J 4 K D S D G G A Y D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ V 5 H N N 8 K L T E G G A F D D P T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ U 3 B M U 7 E L T K G A Y D V T V V G P P L V N L W S F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 6 L T Y 3 E L T N G G A Y D V T V V G P P L V N L W S F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 0 V Q R 2 E Q T D G G A Y D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ K 6 Z Q C 5 T L S H G V L D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ S 7 V 5 H 9 E L T G G A W D G T V N P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ B 0 T Q Z 7 K K T D G G A F D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ A 0 Y H B 4 W L S G G A F D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 1 Y P 0 0 Q K S A G A F D P S A I G A L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ G 0 G G 0 6 R T S G G A F D P S A I G A L V N V W A G T D R A H I P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ H 9 U C F 4 R D T E G G A F D P A L G R L I Q L W G F F R E A T G T F T V V P S R E E E E E A E A R R K
U n i R e f 9 0 _ U P I 0 0 0 2 D B 7 2 9 8 H F T Q G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ P 4 4 5 5 0 K V T E G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ B 8 C Y 0 8 R M S Q G G A F D D P T V V G P P L M D L W G F F S K N R K N R R V P S P G E I E I K G V L S A
U n i R e f 9 0 _ V 4 J C 9 5 A L S D E K A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 8 2 S E 9 A R S E K A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ R 8 B 5 Y 8 S L T E G G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ U P I 0 0 0 3 B 7 9 A A 8 K M S N G A F D D I T T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ B 0 N D 3 9 E M S D G G V F D I T T I A P P V S N L W F W D F K A E T P L V P S P A E A I A E A V S
U n i R e f 9 0 _ A 8 F Y V 6 K V T G G A F D D I T T L G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 1 N 4 Y 7 E M T G G G Y F D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ B 5 F B 1 6 K V T L G G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ E 0 W S D 4 G I T E G G A F D D V T V V G S V V N L W G F F G G S E G R P D K V P T E A E E L E K R R A
U n i R e f 9 0 _ I 9 M F 7 6 D K L G G S F D I T T V V G P P L T K L W G F F G G H K G E Y V P S Q A E I D E V L P
U n i R e f 9 0 _ U P I 0 0 0 3 6 7 D 0 2 E K S N G A F D D V T V V G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ U P I 0 0 0 3 5 E 6 9 4 0 K E F E G G F D D V T L G P P L I N V W G F F G G P K G V I T K A T D A E I K Q L R T
U n i R e f 9 0 _ U P I 0 0 0 3 6 9 3 9 E 9 R L S G G A F D D I L S V G P P L V E L W G F F G A R Q R Q A K T P S V E E K L R E Q L A
U n i R e f 9 0 _ U P I 0 0 0 3 7 F 1 6 6 1 K L S E G R F D P A I S V G P P L V S L W N I G Q D N A K V P S V E E K L T E A L L Q
U n i R e f 9 0 _ A 3 X Q N 6 K L T D G A F D I S Y A S M D K I W K F D G S M T A M P D A Q T I T N S V L E
U n i R e f 9 0 _ E 4 P F U 1 T M T A G A F D D V T I G P P L V N L W G F F G G P T G N Y E N L R V P S R E E E E E A E A R R K
U n i R e f 9 0 _ Q 4 6 Q M 6 R D S G G A Y D P S A G P P L V N L W G F F G G P A P R R C A T P A P E D Q V I D S Q V R Q
U n i R e f 9 0 _ U P I 0 0 0 2 5 5 8 8 B A V L T G G A F D Y T V V G P P L V N L W G F F G G P D G R I T H A P E Q A E I D S L K S
U n i R e f 9 0 _ U P I 0 0 0 3 6 E E E A 6 H L T G G A F D D I T T V V G P P L V N L W G F F G G P D P M K F G V A P D N N V S I Q E R L N A
U n i R e f 9 0 _ R 6 B B 0 2 K E T N G A F D D I T V A P P L V N T W G F F G F F K K Q G K A P S K E T I D S L K A
U n i R e f 9 0 _ A 3 Y D L 9 K M S K G E Y D I T T V V G P P L V N L W G F F G G P G K K T D T E V P S V I D D I A I A K Q
U n i R e f 9 0 _ U P I 0 0 0 3 9 E D 9 9 9 Q Q T G G V L D I T T V V G P P L V E L W G F F G A R G R I T E R A P L P E Q L A M T I D
U n i R e f 9 0 _ I 1 D T D 6 E Q T G G V L D V T V V G P P L V E L W G F F G A K G R I T E R A P L P E Q L A M T I D
U n i R e f 9 0 _ C 6 C J S 7 R A T G G A M D I T V V G P P L V N L W G F F G Q K Q P V T I P S Q Q Q I D E A R R
U n i R e f 9 0 _ E 7 N V M 1 E K T N G A F D P A I G A I V K L W N I G F F D T A N V P S A D D E I K N R L S
U n i R e f 9 0 _ R 6 P V F 6 N E T H G A F D I T T V A P L V N E W G F F K K G V E P N K D E I D D L R K
U n i R e f 9 0 _ A 3 Q G Z 3 R K T D G G A F D D I T L G P P L V N L W G F F G G P D K R P T R V P S A E L I A E T K A
U n i R e f 9 0 _ U P I 0 0 0 4 7 B 4 B 1 B E L S E G A F D D V T I G P P L V N L W G F F G G P Q G R E P K R V P T A V Q I D N Q A M A
U n i R e f 9 0 _ U P I 0 0 0 3 6 0 3 D B 9 T L S E G A F D P T I G P P L V D L W G F F G A T H S E P S Q S V P T A Q S I Q N A L D
U n i R e f 9 0 _ F 1 T D M 4 K L S N G A F D I T T I G P P L V K E W G V F T D H P H V P S P S R I S S E L L K
U n i R e f 9 0 _ R 5 S C H Q 9 E E T D G A F D I T T V A S I D K R F W N F D R T M T A L P G K E T A K S L R Q
U n i R e f 9 0 _ I 2 E Y E 2 V L T D G A F D I T T Y G S I D K R F W N F D R T M T A L P G K E T A K S L R Q
U n i R e f 9 0 _ U 2 C W 1 1 R E T E G A F D I T T V A P L V N A W G F F K K G N F P D S D E T I D S L L Q
U n i R e f 9 0 _ U P I 0 0 0 4 0 6 F 0 0 0 E A T A G A F D D P T V V G P P L V N L W G F F G G P E E G R P E T P S D E Q V A Q S A
U n i R e f 9 0 _ D 1 P Y 4 4 K E T D G A F D D I T T V A P P L V N A W G F F K K G T P T K H V V D S L K S
U n i R e f 9 0 _ Q 3 J 7 L 6 R L S K G A F D D I T T V V G P P L V N L W G F F G G P G S Y T N E I P S R R E M E A E K E
U n i R e f 9 0 _ U P I 0 0 0 4 6 9 E B F E K E T D G A F D D I T T V A P P L V N M W G F F G F K T G L H P S K E K I D S L H Q
U n i R e f 9 0 _ U P I 0 0 0 3 5 C 2 6 F 6 K E S D G K F D L S I G V V T N L W Q I G S E N A R L P S D E E I K Q A L P
U n i R e f 9 0 _ U P I 0 0 0 3 7 A 9 3 3 3 A E M D G G L F D P T I G P P L V D L W N I G S G G D H V P P Q A E I D K V K A
U n i R e f 9 0 _ U P I 0 0 0 3 7 8 E 6 C F K R T D G K F N D P A I G N L V T L W N I G H E G A K V P D A D L E N A A K A
U n i R e f 9 0 _ G 9 E V I 4 A K T K G S F D I T T V E P L V L W G I G T D K A R I V P S K D E I N A A L K
U n i R e f 9 0 _ R 5 A N N 5 K A T N N A F D M A I Y P I V K A W G F T E N E Y T R E D R V P T Q E T L D E L L P
U n i R e f 9 0 _ F 6 C T L 6 Q M T K G E Y D V T V V G P P L V N L W G F F R Y P G N R R E D R V P S E A E I D E A K S
U n i R e f 9 0 _ B 8 G L P 6 E L S G G A F D D V T Y A S I V G Y R Y D N R P D D R T R E A L L P
U n i R e f 9 0 _ M 4 R G B 6 K I S G G L L D V T V V G P P L V N L W G F F G P Q S R P E K I P S D K L I Q A T R Q
U n i R e f 9 0 _ U P I 0 0 0 3 7 1 F 7 7 C Q L S G G S F D I T T V I G P P L M D L W G F F G G P K N E K K H V P S D S Q I Q K T L S
U n i R e f 9 0 _ M 4 U 9 D 1 K E S Q G A Y D I S V G P P L V N L W G F F G P T K K V P T D S M I A T Q K T
U n i R e f 9 0 _ F 9 U 7 0 5 A L S D G A F D I T T V V G P P L V N L W G F F G P E A R P A V L P T P E Q I Q A A R S
U n i R e f 9 0 _ R 5 U G Z 1 D L S D G G K F D I T T I A P L S E L W N F G H N D G Q I P D P A A I E E A R S
U n i R e f 9 0 _ U 2 M U G Q 0 K E T G G A F D I T T V A P L V N V W G F F F K S G V K P T R H V V D S I R S
U n i R e f 9 0 _ L 1 M B L 1 N E T E G A F D I T T V A P L V N A W G F F F K N K Q P L S N Q Q V D S L Q K

QUERY UniRef90_L7ZHI3 UniRef90_K2GZB9 UniRef90_Q8D171 UniRef90_F0LU68 UniRef90_C0GEW8 UniRef90_E5YIG1 UniRef90_C9NNM8 UniRef90_UPI000366B462 UniRef90_UPI0004706863 UniRef90_D3V457 UniRef90_L0MEP0 UniRef90_H8Y27 UniRef90_L0GZS7 UniRef90_B4EUU0 UniRef90_G8MOR5 UniRef90_L0WEH1 UniRef90_R1GXA4 UniRef90_A6VW14 UniRef90_Q21JR6 UniRef90_UPI0003B46493 UniRef90_D4F2L2 UniRef90_I3VUW9 UniRef90_M7CQ75 UniRef90_C5CFH3 UniRef90_F9TM79 UniRef90_I4W5J4 UniRef90_V5HNN8 UniRef90_U3BMU7 UniRef90_Q6LTY3 UniRef90_Q0VQR2 UniRef90_K6ZQC5 UniRef90_S7V5H9 UniRef90_B0TQZ7 UniRef90_A0YHB4 UniRef90_Q1YP00 UniRef90_G0GG06 UniRef90_H9UCF4 UniRef90_UPI0002DB7298 UniRef90_P44550 UniRef90_B8CY08 UniRef90_V4JC95 UniRef90_Q82SE9 UniRef90_R8B5Y8 UniRef90_UPI0003B79AA8 UniRef90_B0ND39 UniRef90_A8FYV6 UniRef90_Q1N4Y7 UniRef90_B5FB16 UniRef90_E0WSD4 UniRef90_I9MF76 UniRef90_UPI000367D02 UniRef90_UPI00035E6940 UniRef90_UPI00036939E9 UniRef90_UPI00037F1661 UniRef90_A3XQN6 UniRef90_E4PFU1 UniRef90_Q46QM6 UniRef90_UPI00025588BA UniRef90_UPI00036EEEA6 UniRef90_R6BB02 UniRef90_A3YDL9 UniRef90_UPI00039ED999 UniRef90_I1DTD6 UniRef90_C6CJS7 UniRef90_E7NVM1 UniRef90_R6PVF6 UniRef90_A3QGZ3 UniRef90_UPI00047B4B1B UniRef90_UPI0003603DB9 UniRef90_F1TDM4 UniRef90_R5SCHQ9 UniRef90_I2EY12 UniRef90_U2CW11 UniRef90_UPI000406F000 UniRef90_D1PY44 UniRef90_Q3J7L6 UniRef90_UPI000469EBFE UniRef90_UPI00035C26F6 UniRef90_UPI00037A9333 UniRef90_UPI000378E6CF UniRef90_G9EVI4 UniRef90_R5ANN5 UniRef90_F6CTL6 UniRef90_B8GLP6 UniRef90_M4RGB6 UniRef90_UPI000371F77C UniRef90_M4U9D1 UniRef90_F9U705 UniRef90_R5UGZ1 UniRef90_U2MQG0 UniRef90_L1MBL1

QUERY UniRef90_L7ZHI3 UniRef90_K2GZB9 UniRef90_Q8D171 UniRef90_F0LU68 UniRef90_C0GEW8 UniRef90_E5YIG1 UniRef90_C9NNM8 UniRef90_UPI000366B462 UniRef90_UPI0004706863 UniRef90_D3V457 UniRef90_L0MEP0 UniRef90_H8YY27 UniRef90_L0GZS7 UniRef90_B4EUU0 UniRef90_G8MOR5 UniRef90_L0WEH1 UniRef90_R1GXA4 UniRef90_A6VW14 UniRef90_Q21JR6 UniRef90_UPI0003B46493 UniRef90_D4F2L2 UniRef90_I3VUW9 UniRef90_M7CQ75 UniRef90_C5CFH3 UniRef90_F9TM79 UniRef90_I4W5J4 UniRef90_V5HNN8 UniRef90_U3BMU7 UniRef90_Q6LTY3 UniRef90_Q0VQR2 UniRef90_K6ZQC5 UniRef90_S7V5H9 UniRef90_B0TQZ7 UniRef90_A0YHB4 UniRef90_Q1YP00 UniRef90_G0GG06 UniRef90_H9UCF4 UniRef90_UPI0002DB7298 UniRef90_P44550 UniRef90_B8CY08 UniRef90_V4JC95 UniRef90_Q82SE9 UniRef90_R8B5Y8 UniRef90_UPI0003B79AA8 UniRef90_B0ND39 UniRef90_A8FYV6 UniRef90_Q1N4Y7 UniRef90_B5FB16 UniRef90_E0WSD4 UniRef90_I9MF76 UniRef90_UPI000367D02 UniRef90_UPI00035E6940 UniRef90_UPI00036939E9 UniRef90_UPI00037F1661 UniRef90_A3XQN6 UniRef90_E4PFU1 UniRef90_Q46QM6 UniRef90_UPI00025588BA UniRef90_UPI00036EEEA6 UniRef90_R6BB02 UniRef90_A3YDL9 UniRef90_UPI00039ED999 UniRef90_I1DTD6 UniRef90_C6CJS7 UniRef90_E7NVM1 UniRef90_R6PVF6 UniRef90_A3QGZ3 UniRef90_UPI00047B4B1B UniRef90_UPI0003603DB9 UniRef90_F1TDM4 UniRef90_R5SCHQ9 UniRef90_I2EYE2 UniRef90_U2CW11 UniRef90_UPI000406F000 UniRef90_D1PY44 UniRef90_Q3J7L6 UniRef90_UPI000469EBFE UniRef90_UPI00035C26F6 UniRef90_UPI00037A9333 UniRef90_UPI000378E6CF UniRef90_G9EVI4 UniRef90_R5ANN5 UniRef90_F6CTL6 UniRef90_B8GLP6 UniRef90_M4RGB6 UniRef90_UPI000371F77C UniRef90_M4U9D1 UniRef90_F9U705 UniRef90_R5UGZ1 UniRef90_U2MGQ0 UniRef90_L1MBL1

170 180 190 200

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

QUERY UniRef90_L7ZHI3 UniRef90_K2GZB9 UniRef90_Q8D171 UniRef90_F0LU68 UniRef90_C0GEW8 UniRef90_E5YIG1 UniRef90_C9NNM8 UniRef90_UPI000366B462 UniRef90_UPI0004706863 UniRef90_D3V457 UniRef90_L0MEP0 UniRef90_H8Y27 UniRef90_L0GZS7 UniRef90_B4EUU0 UniRef90_G8MOR5 UniRef90_L0WEH1 UniRef90_R1GXA4 UniRef90_A6VW14 UniRef90_Q21JR6 UniRef90_UPI0003B46493 UniRef90_D4F2L2 UniRef90_I3VUW9 UniRef90_M7CQ75 UniRef90_C5CFH3 UniRef90_F9TM79 UniRef90_I4W5J4 UniRef90_V5HNN8 UniRef90_U3BMU7 UniRef90_Q6LTY3 UniRef90_Q0VQR2 UniRef90_K6ZQC5 UniRef90_S7V5H9 UniRef90_B0TQZ7 UniRef90_A0YHB4 UniRef90_Q1YP00 UniRef90_G0GG06 UniRef90_H9UCF4 UniRef90_UPI0002DB7298 UniRef90_P44550 UniRef90_B8CY08 UniRef90_V4JC95 UniRef90_Q82SE9 UniRef90_R8B5Y8 UniRef90_UPI0003B79AA8 UniRef90_B0ND39 UniRef90_A8FYV6 UniRef90_Q1N4Y7 UniRef90_B5FB16 UniRef90_E0WSD4 UniRef90_I9MF76 UniRef90_UPI000367D02 UniRef90_UPI00035E6940 UniRef90_UPI00036939E9 UniRef90_UPI00037F1661 UniRef90_A3XQN6 UniRef90_E4PFU1 UniRef90_Q46QM6 UniRef90_UPI00025588BA UniRef90_UPI00036EEEA6 UniRef90_R6BB02 UniRef90_A3YDL9 UniRef90_UPI00039ED999 UniRef90_I1DTD6 UniRef90_C6CJS7 UniRef90_E7NVM1 UniRef90_R6PVF6 UniRef90_A3QGZ3 UniRef90_UPI00047B4B1B UniRef90_UPI0003603DB9 UniRef90_F1TDM4 UniRef90_R5SCHQ9 UniRef90_I2EYE2 UniRef90_U2CW11 UniRef90_UPI000406F000 UniRef90_D1PY44 UniRef90_Q3J7L6 UniRef90_UPI000469EBFE UniRef90_UPI00035C26F6 UniRef90_UPI00037A9333 UniRef90_UPI000378E6CF UniRef90_G9EVI4 UniRef90_R5ANN5 UniRef90_F6CTL6 UniRef90_B8GLP6 UniRef90_M4RGB6 UniRef90_UPI000371F77C UniRef90_M4U9D1 UniRef90_F9U705 UniRef90_R5UGZ1 UniRef90_U2MQG0 UniRef90_L1MBL1

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

QUERY
 UniRef90_L7ZHI3
 UniRef90_K2GZB9
 UniRef90_Q8D171
 UniRef90_F0LU68
 UniRef90_C0GEW8
 UniRef90_E5YIG1
 UniRef90_C9NNM8
 UniRef90_UPI000366B462
 UniRef90_UPI0004706863
 UniRef90_D3V457
 UniRef90_L0MEP0
 UniRef90_H8YY27
 UniRef90_L0GZS7
 UniRef90_B4EUU0
 UniRef90_G8MOR5
 UniRef90_L0WEH1
 UniRef90_R1GXA4
 UniRef90_A6VW14
 UniRef90_Q21JR6
 UniRef90_UPI0003B46493
 UniRef90_D4F2L2
 UniRef90_I3VUW9
 UniRef90_M7CQ75
 UniRef90_C5CFH3
 UniRef90_F9TM79
 UniRef90_I4W5J4
 UniRef90_V5HNN8
 UniRef90_U3BMU7
 UniRef90_Q6LTY3
 UniRef90_Q0VQR2
 UniRef90_K6ZQC5
 UniRef90_S7V5H9
 UniRef90_B0TQZ7
 UniRef90_A0YHB4
 UniRef90_Q1YP00
 UniRef90_G0GG06
 UniRef90_H9UCF4
 UniRef90_UPI0002DB7298
 UniRef90_P44550
 UniRef90_B8CY08
 UniRef90_V4JC95
 UniRef90_Q82SE9
 UniRef90_R8B5Y8
 UniRef90_UPI0003B79AA8
 UniRef90_B0ND39
 UniRef90_A8FYV6
 UniRef90_Q1N4Y7
 UniRef90_B5FB16
 UniRef90_E0WSD4
 UniRef90_I9MF76
 UniRef90_UPI000367D02
 UniRef90_UPI00035E6940
 UniRef90_UPI00036939E9
 UniRef90_UPI00037F1661
 UniRef90_A3XQN6
 UniRef90_E4PFU1
 UniRef90_Q46QM6
 UniRef90_UPI00025588BA
 UniRef90_UPI00036EEEA6
 UniRef90_R6BB02
 UniRef90_A3YDL9
 UniRef90_UPI00039ED999
 UniRef90_I1DTD6
 UniRef90_C6CJS7
 UniRef90_E7NVM1
 UniRef90_R6PVF6
 UniRef90_A3QGZ3
 UniRef90_UPI00047B4B1B
 UniRef90_UPI0003603DB9
 UniRef90_F1TDM4
 UniRef90_R5SCHQ9
 UniRef90_I2EYE2
 UniRef90_U2CW11
 UniRef90_UPI000406F000
 UniRef90_D1PY44
 UniRef90_Q3J7L6
 UniRef90_UPI000469EBFE
 UniRef90_UPI00035C26F6
 UniRef90_UPI00037A9333
 UniRef90_UPI000378E6CF
 UniRef90_G9EVI4
 UniRef90_R5ANN5
 UniRef90_F6CTL6
 UniRef90_B8GLP6
 UniRef90_M4RGB6
 UniRef90_UPI000371F77C
 UniRef90_M4U9D1
 UniRef90_F9U705
 UniRef90_R5UGZ1
 UniRef90_U2MQG0
 UniRef90_L1MBL1

290
 300
 F P N M G A H L L I V L E G G A I E R S E T F K L F E R E
 L L G T P V F M I V K T A D G G F E E Y S D A F K P Y L K K
 H D L A V L I V R E E D D G F E L M T D S F R R Y M E E
 L L G I P V L M I I K T D D D G F E E Y S D A F K P Y L Q
 N H L P V F M I V K T D D D G K E I A S S A F K P Y L N R
 L A D T E A I F I T D D D G Q V H T S S G L
 L L G T P V F M I V K T E N G F E R Y S E A F K P Y L
 N N I P V F M I V K T E N D G F K E M S E A Y K P F M N K
 Q G L A I Y L L V K T E Q G F A K Y S D A F R P Y L Q
 Q G L A I M L I E K Q D D D G K V F Y S D A F K P Y L K Q
 L K I P V F M I V K T Q D D G F E E Y S S A F K P Y L Q Q
 L L G I P V Y M I V K T D D D G F E E Y S E A F K P Y M N K
 Q G I A A F F I E R L E S G Q A H M S S A F E R
 Q L I P A Y F I T R E D E G R V V V T P S F Q R Y L R E
 L N I P V F M I V K T E N G F E E Y S K A F A P F L K K
 M E G V E A V F I T K D K V Y I T E G L
 H E L A V L F I V R T D K G E E L M T P A F K A L L D K
 E N I P A F F I V K T D N G F N E V S D A F K P Y L
 N G I A A Y L L V K T D D G F E E H S D A F K A Y L K
 L S L A A Y F I I R D E Q F T I K Y T P Q F Q P Y L K
 Q N M P V Y L I E K T E E G F V R Y S S A F K P Y L S E
 M N I P V Y M I V K G E H G F E E R T S A F A H Y L
 M P G V D A I F V T P D Y K V Y A T S G L K
 R E N L P A Y F I V R T D K G E T H Q T P A F S S Y
 F P R Y G A L V M L V M E D L S T Y K S P G F E V Y Q K K
 N N L A V M I V K T E Q G F E E Y S D T F K Q Y L N K
 H G L A V L M I V R T A Q G F E R M S P A F A A E L R R K
 N G L A V F M V I K T E D D G K E V Y S D A F A Q Y L N K
 E K L P V L I V K T E D G K E Y A S D T F A Q Y V T K
 E N L P I L L V I K T E N G K E Y L S D D D F V P Y L K K
 H E L A V F F I V R T E N G K E L S T P A F D A
 L H N D L A V L M I T R E N G K E Y T T P Q F E P Y I N Q
 L P D V E C L I L V E E A G S E H P S R G F R A
 R E H L A I M L I E K Q D D G K V F Y S E A F K P
 Q G L A V Y M I T K T E E G F V K Y S E A F G A Y L E
 Q S L A V Y M L V K A E D E T A V H S D A F K Q Y L
 Q H P E A E A L F I G E D H T I W M T P G L E
 F P K Y G A E V L L V T P K K Q L L R T D N F R I Y E
 N D I P V Y M I V K T P S G E E F T S S A F Q S Y L K
 N N L A V Y L I R T D N G F V T K S S A F K K
 I P D V E G L M I K N D Q I W L S K G F R
 K G L A A L L I S R D G E T R W T D A F Q A
 Q G I A V L F I V N Q G E G V I Y T S H F P A
 R E N I A A Y F I V R S D N G E T H Y T P A F T A Y L T D
 N K L S G Y M I S R A A N G N
 L D N V D A V F I T N D N Q I H Y S K N F Q
 E S L A I M L I E K Q D D G F V F Y S D A F K P F L
 H N I A A Y F I V R T D N G F Q E Y S E A W K
 H N I P V F M I V K T K D G K E I A S E A F K P F L K
 L L N L P V F M I I K T D N G E A R Y S T A F E P Y L R K
 F P G N E A V I V T L D G K I I T P G L E
 Q Q L A V F M L V K N G D D F I L Y Y T P E F E T Y
 H E Y A V M L V T K T K D G E E H Y S K A F L P Y V K
 N R T A A Y F L I H D N E A L T E Y S P A F L T F M K Q
 L P N V E A I F I T K D K N V Y I T S G L K
 L P G I E C I T V D D Q G N I H K S D H I E
 E N I P A Y F I V R T D E G E T H Q T P A F S S Y V T Q
 H G I A A R F L V R T P G G F E H L S P A F A A M L
 H E I D A F F I S K T D E G F A T R T P G F A N Y
 N N I A A F F I I K A A E G F K K S T P A F T R Y
 H P E L L A Y L I Y S D A Q G R V W Y S P S I K K I L A E
 N G L A V Y M L V K E N L G F V E Y S K A F E P Y L
 H Q L A L L I V K T A D D G F I E V S D A F K P F L
 H Q L A V L I V T K T A D D G F E L T S S A M L P Y L A E
 Q G L A V Y L I T K T D K G E A V M T P Q F K A F L
 F P S E V E A V F I F D D D T I K T T G L K
 H S E L M A Y L I Y T N D D G K V W Y S P S L K
 E H L A T M L I E K Q A Q G K V Y Y S D A F K P Y
 N N L A L L L I T R N D D F K E Y T S D A F
 L G I A A Y M L V R Q D D F V I T S D N F A P F I
 L D G V D A I F V T K D K V Y L T E N L K K
 N K S L M A Y F I Y S D E N G N V W Y S P S L R
 M K G I A C I I D D D N Q L Y T S S N I N
 H P T L E A Y F I Y S D E N G K T Y L T E G M K K F
 R A L A V Y L I E K Q G E E H I S D A F A P L I Q Q
 H P E L M V Y I I Y A D S N N K I W Y S P S M K D K I E E
 E Q I P A L F I I K M S G R F R E R
 H P E L M A Y F I Y S D T K G K V W Y S P S M E
 I E G V E A I F I T D K N H G I H L S N G L K
 L P E K V D A F F I T D D N K I Y A T S G I R D R L Q
 T P D T E A I F I S K E K K L Y A T S G L K E L L N K
 Q K D V E A I F V T K D K K V Y I T S G L K
 Q D D F E V I F V T E E G E V V A T E G L K
 N G T A A Y L L V K T D D G F E E R S S D A F K P Y L
 L P D V E A V I V D D E G R L W F S S G L
 Y D I A V L L I T K E K D G F N E Y T S N
 L Q G V G A I F V G A D K Q V I T F T G N L
 H Q L A V L I V K E G D K F L E Y T D A F K K Y L
 Q G I A A Y F I V R D G D A H G V A S P A F E A Y L
 L D E I E A I F V T D D G N I H R
 H P E L M A Y F I Y S D A R G H V W F S P S M K
 H K D I Q V Y F I Y A D E K G Q V W M S D G M K P L I

UniRef90_S6FB06
UniRef90_R5Q3T7
UniRef90_I2JM22
UniRef90_L1N1V2
UniRef90_UPI0004129A82
UniRef90_R9BT78
UniRef90_J9GR90
UniRef90_UPI0004633344
UniRef90_R4KJV0
UniRef90_F4LQM4
UniRef90_UPI0004778980
UniRef90_D0LJG3
UniRef90_D9QV33
UniRef90_W0E61
UniRef90_T0P7V2
UniRef90_UPI0000E117E7
UniRef90_C1DR08
UniRef90_F3PPI3
UniRef90_D1W3R2
UniRef90_UPI00028972B0
UniRef90_I8U744
UniRef90_L8JZD4
UniRef90_G2E3G5
UniRef90_X5E1K2
UniRef90_R6CKK1
UniRef90_E6U4G2
UniRef90_S5AJL2
UniRef90_W9T9L7
UniRef90_R6R855
UniRef90_UPI0003077B5F
UniRef90_I3CG31
UniRef90_D5ECH9
UniRef90_R5YH93
UniRef90_C6J7F6
UniRef90_UPI00025571C2
UniRef90_B5YE61
UniRef90_D6GRB9
UniRef90_R6SNT0
UniRef90_N9U1N8
UniRef90_V9W0B2
UniRef90_H1PX30
UniRef90_A1SSY9
UniRef90_R6SI46
UniRef90_Q67R06
UniRef90_U1S7L6
UniRef90_UPI00047C148D
UniRef90_I5AYC8
UniRef90_UPI00030B6A2E
UniRef90_A7HLP9
UniRef90_A0A037ZDB5
UniRef90_R5F9M6
UniRef90_R6FVB2
UniRef90_C4SZ68
UniRef90_UPI00037DDE87
UniRef90_B9NVH5
UniRef90_C7R8K4
UniRef90_U2CQ59
UniRef90_K5YEW4
UniRef90_D4M5Q1
UniRef90_R9JE45
UniRef90_UPI0003735254
UniRef90_E8SR78
UniRef90_UPI0003B5CA94
UniRef90_A0A058ZNT7
UniRef90_A6FIV5
UniRef90_B2A695
UniRef90_G1W8Z5
UniRef90_R7R0E9
UniRef90_E2ZBR8
UniRef90_R6IC53
UniRef90_R5T2G5
UniRef90_A0A023RGZ8
UniRef90_I7ZC99
UniRef90_A8U10
UniRef90_S2DWZ7
UniRef90_K1L1N9
UniRef90_R6BNS0
UniRef90_B4WXA6
UniRef90_R6MH94
UniRef90_UPI00030102A1
UniRef90_UPI0004668D64
UniRef90_K7A117
UniRef90_E4RPW6
UniRef90_G5GGI0
UniRef90_K8FDS8
UniRef90_UPI00036BDEC5
UniRef90_F4DFS7
UniRef90_D7NAD7
UniRef90_R2R480
UniRef90_UPI00046689CF
UniRef90_UPI00047D615F
UniRef90_A0A021W760

UniRef90_S6FB06 E K M S T Y I P T S 50 L S R F N Q N R N T P I E L S A D L A K V I G E A L R L I 80
UniRef90_R5Q3T7 N S L S M F Y I N K N S T E L I S N R R I L N R D N E H N E W Y P V M P D E M F L D V I F N L A S T Q D I N A
UniRef90_I2JM22 Q L L A S T F Y I N K P D R S S E L I S N R R I L N R D N E H N E W Y P V M P D E M F L D V I F N L A S T Q D I N A
UniRef90_L1N1V2 A S L S T F Y I N K P D R S S E L I S N R R I L N R D N E H N E W Y P V M P D E M F L D V I F N L A S T Q D I N A
UniRef90_UPI0004129A82 S L L S T N L E N G D S S D V Y D R I N N Q S A K E A V K V D D D R T F E V V I E K Q A I E T S S
UniRef90_R9BT78 N N L S T F Y I N E N G Q S L I V D T K I R V N H N S A V Q E A T E L V D D S F F V Q V F K Q G A I E T S S
UniRef90_J9GR90 H S L S P F N E N Q S S L I V D T K I R V N H N S A V Q E A T E L V D D S F F V Q V F K Q G A I E T S S
UniRef90_UPI0004633344 D H M S L H S S S S S D I A C V V N Q A G G E P V V V H N D T F F V V M E Q R A V K Y A
UniRef90_R4KJV0 K K M T L F S N A E S S E L A R L N A K A G A G K S V E V S S T D T F F V V I K R A V F F I S S
UniRef90_F4LQM4 K K M T L V N A E S S E L A R L N A K A G A G K S V E V S S T D T F F V V I K R A V F F I S S
UniRef90_UPI0004778980 Q E M S L N I E D S S E I N Q V N N F A G G K G V N V S H D T F Y Q V V I N K A L N Y A
UniRef90_D0LJG3 A L M T S W G E N D S S D V A R I N N A A A N G K P V R V E T D A E D V M G V L Q R T A K E Y I A G
UniRef90_D9QV33 D E A T R Y N E N S S L I S R I N N A G A N G K P V R V E T D A E D V M G V L Q R T A K E Y I A G
UniRef90_W0E61 A L L T F N A P E G D I Y K L N E N A G A G K A V E L V N S E T L K I L N K A Q R I S S
UniRef90_T0P7V2 D L L S T I N K L D G S T E L D K L F N N M S A N G K S P Y V K L V N T S Q E T A F V V A E A L R I G
UniRef90_UPI0000E117E7 Q I M S T Y R D D S S D I E T R I N N L N E D I V P D D T F F T N V F R R S K M E I S S
UniRef90_C1DR08 R Q V S T Y R S D S D I E T R I N N L N E D I V P D D T F F T N V F R R S K M E I S S
UniRef90_F3PPI3 G S L S P F N E N Q S S L I S T K I R V N H N S A V Q E A T E L V D D S F F V Q V F K Q G A I E T S S
UniRef90_D1W3R2 M T F S T F E E Q S L I S T K I R V N H N S A V Q E A T E L V D D S F F V Q V F K Q G A I E T S S
UniRef90_UPI00028972B0 N L V S I N K E N T E L D K V N N R N S G K S A V S Q L V T N Q D T Y N I I K S G I R S Y S S
UniRef90_I8U744 D L M S T Y R P A S S E L M S E F N R R N A I K P A K V L T P Q E T A T V I A E A I R I G S S
UniRef90_L8JZD4 K L I S S W P P A S S E Q T L M S E F N R R N A I K P A K V L T P Q E T A T V I A E A I R I G S S
UniRef90_G2E3G5 A E I S T Y D P T S E L S R L N R N P S T W I P I L S A E L Y R V V A E G Q E I S S
UniRef90_X5E1K2 R I E S H Y D K K T S T I T K V N N N S P V E L E E Q E F T T C F L K M A E S I S
UniRef90_R6CKK1 Q S L S P F N K S S V I T T Q V N N Q G K D I E V D E M F T E V F R M A E S I S
UniRef90_E6U4G2 Q K M S R F I P G S F I S R L N S S S D G E A F V K M D R D T F H V L K S A G R Y Y
UniRef90_S5AJL2 K M M S T Y R D P T S E L S R F N A Q Y A T D F A V P D M A V R E L V V A A G S R L S
UniRef90_W9T9L7 R Q L S T Y R S D S D V E R F N A L Y A G S C E V P M A V R E L V V A A G S R L S
UniRef90_R6R855 N R F S R T L S G S E V Y R L N H R A T G T Y P V S S D D M T D L L V A T A L Y Y C
UniRef90_UPI0003077B5F A S M N R T K D T S E L A K I R S A A S K T A V Q S I P E L S S Q E T F D V D A K S A L D Y A
UniRef90_I3CG31 N R M S T Y Q K D S E L S K I N Q N S G S S V P V H E D T F Y V V E K A I D Y A
UniRef90_D5ECH9 V H M S T H D P N S S D I Y K V N V S S G S S V P V H E D T F Y V V E K A I D Y A
UniRef90_R5YH93 S Q M S V T D S S Q L Y A L N Q N E G A V E T L T G E D T R T L V Q K A L S L C
UniRef90_C6J7F6 S Q E L S R T L E T S Q L Y A K V N Q E A K O A V E V S E D T M K V L K R S L S
UniRef90_UPI00025571C2 Q Q M S T Y R D D S L V S K F N Q A P A G S C P L P A S M L E L V K V G G E L S
UniRef90_B5YE61 D L L D R F N K K S E V Y K I N S N S G K V W K V S K D T D V I E K A I Y Y S
UniRef90_D6GRB9 N R M S N V I T A S E V Y K I N E N Q A I S P V K V S S E T F Y V I E R A L Y Y S
UniRef90_R6SNT0 Q L F S R T L E T S E L Y Q L N H G Q E H A Y T I V S S E T A E L I S K G L E Y G
UniRef90_N9U1N8 R E I L S T Y D P D S V I S R F N R R A Q D R A H P I P E R E M A K I V A Q G A E A G A
UniRef90_V9W0B2 Q K M S R T V E D S E L S K I Q N A A K E A V K I S D E T Y Y V I K T A M K Y A
UniRef90_H1PX30 N K F N S K I K T S I I G K L N S D P T V P V E L D D E G L M L F S K V R E V Y
UniRef90_A1SSY9 D Q M S T Y R P D S S E L S R F N R A E K S L S A A T R Q V I E A S L T I F S
UniRef90_R6S146 N S L S P F N K K S I I T H I N N N T D N T V S S M F T R V F L L S K S I S
UniRef90_Q67R06 S L W H P G R A D S D V S R I N N A A T G K P V V V A S P E T V E L V Q A A L Q V A
UniRef90_U1S7L6 A K M S T Y I K T S E L S Q E I N N A A Q T P V I E I S S D L L A K V I N E A I R I S
UniRef90_UPI00047C148D K L I S S W P P A S S E T S E I N N A A G E P V K V S S Q E L L Y D L I K E C L K I S
UniRef90_I5AYC8 A C L S M Y Q K E S E L S E R F N A A P D Q I F R V S A D F Y Q V L E Q C S R L H
UniRef90_UPI00030B6A2E H L M S E E I D T S E V Y K I N R Q A V E P V Q V S D D E L Y Q L I K A S L A Y G A
UniRef90_A7HLP9 S K Y D A Y S N S V L Y K I N H S Q D W I E V D D E T L A L V D L A L K I A
UniRef90_A0A037ZDB5 D K M S P S K P N S E V S L I N K N A G K S V K V S N D T F L V I K K A I E Y A
UniRef90_R5F9M6 S V I E S T F D P K S E I S R I N K N G E D F R V S D S F V Y V N L A E K I V S
UniRef90_R6FVB2 N A L S M F N K E S I I S H I N R G E N V E T N E M F E S V F N L A E K I V S
UniRef90_C4SZ68 D D I S T Y R K T S V L S R F N Y R G T Q P Q P I P Q G M A D L I L Q A Q R I G
UniRef90_UPI00037DDE87 H E L S T Y K N D S V L S R F N Y R G T Q P Q P V S S D G M A D A I V T A L R I G
UniRef90_B9NVH5 A Q M S N W D P N S E V S T F N S A S S T D A V P V S S D G M A D A I V T A L R I G
UniRef90_C7R8K4 Q L M S T Y I P D S E I N Q F N A T T D A C F Q F S E R T W T V L V I A A K D V Y
UniRef90_U2CQ59 V M A S P N N E K G D V W K I N Q G A K E Y V K V N P D T K M I Q M A V K Y S
UniRef90_K5YEW4 R Q L S T Y R A D S D I E R F N A L P A G R C E V P A V R L L V E T G E Q L S
UniRef90_D4M5Q1 Q L L S P T I D S S E I S Q I N N Q A Q G A S V S V S K E T A D L I E L G K Y Y G
UniRef90_R9JE45 N M L S P T K E N S D V W N I N H S A N G T P A A V S Q D T L A L L R A A L F Y A
UniRef90_UPI0003735254 R E M S P W E P L S D L S R Y N N A A G G W T P L P Q A F A R V L R A A L E V A
UniRef90_E8SR78 R Q M S T Y Q T D S E I S R F N Q H A G K P L R I S S D F A H V T A E A V R L N
UniRef90_UPI0003B5CA94 A R L S M Y D P K S E I S R F N R H A H E P F K I S R D F A S E V L T R S N Q V Y
UniRef90_A0A058ZNT7 A S M S N W D P N S E V S L F N A S S I A P V S I S S A F A H V V T Q G A N Q V H
UniRef90_A6FIV5 D Q M S T Y R S H S E L S R F N L S A V N D F P V S S E D T A R V V A E S I E I H
UniRef90_B2A695 N K M S R H V A G S E I D E V F N R N A G E P I Q V S S Q E T W E V V A E S I E I H
UniRef90_G1W8Z5 E E F S M F N K K S T V T R F N E G K K I V A S P M F V N L L Q L S Q T I H
UniRef90_R7R0E9 N L L S A T I E S S D V S K I N A A A N G S P V T V S P E T A E L I R E G I D Y G
UniRef90_E2ZBR8 R L A S A Q R P N S D L I G K L K A A A G K Y V V D P A V Y E M I D F A K E T Y S
UniRef90_R6IC53 L S L N A F N P N S T I S R L N N N E D V E V D E W F T E V F N K A E E I S
UniRef90_R5T2G5 T L L S V E N P D S E I S R L N N N S K E G K L I P S E D T A R L I S L A E S W N
UniRef90_A0A023RGZ8 Q E I L S T Y K D P D S L I S R F N R N A G K P M P I P A S M A R I V R Q G M D A G
UniRef90_I7ZC99 E Q M S H W P D D S L L S R F N R D A P A G S T Q V L P E F F E V L R C A C M D L A
UniRef90_A8U10 K L I S S W D E N S Q T S K I N R N A I K P V K V D K E L F D L V K R A V Q I S
UniRef90_S2DWZ7 N S L S T Y I L E D S E I S R F N R Q D T L Q F E S A Y F F P I L K S S D K V Y
UniRef90_K1L1N9 E S L S T Y I L E D S E I S R F N R Q D T L Q F E S A Y F F P I L K S S R E I F
UniRef90_R6BNS0 A L L S T G E T D S E I Y K L N Q N G G S I S E D T S Y L L E R A S L E I W
UniRef90_B4WXA6 A L L S P W V E S S E I A R V N A R A N G E T Q T I S A E F Y Q L L A R S L D Y Y
UniRef90_R6MH94 A R F S R T S E G S E I A Y E L N H A R A N G E P V T T L S G D T V D L Q K G V E Y S
UniRef90_UPI00030102A1 D L I S D W K P T S Q I A A V N R N A I K A V K I I D R E T V F E L T K R S L Y F S
UniRef90_UPI0004668D64 N K M S T K I S S E V N K I N A A S G K S I K V S D E T F W V I T K E A V Q Y A
UniRef90_K7A117 A L M S T Y D P D S S E V S K L N E A A G Q P F A I S E Q T E Y V L T E A I R L H
UniRef90_E4RPW6 Y L M S R T L E D S E I N Q I N M N P K E F I E L S Q E S K K V L E E A L Y F A
UniRef90_G5GGI0 N I E S A T F P E S E L D K L N H R T T Q P V K V S D S E L A Y Y I D R G L Y Y S
UniRef90_K8FDS8 A K I T S D P T S E V D K I N E R A T T K P V K V S K D D T L L V I R E G I K A G
UniRef90_UPI00036BDEC5 N R M S I N R E T T E I L E V N R H A G Q P V K V S D D T L L V I R E G I K A G
UniRef90_F4DFS7 K E I S T Y D P G S L I S R F N R Q G A N T P F A L P P A M A L V T Q Q G I D A G
UniRef90_D7NAD7 E E F S M F N K R S M V T A F N Q G R Q I E A S K M F M N V L T T L S Q A I N
UniRef90_R2R480 D K I T V N Q E G S E I D E I N K Q A I K P V K V T N D M Y Y L L K E A Y K Y S
UniRef90_UPI00046689CF A L L S T G D K N S E V S L L N D N A G G G K V S D D T E Y L I S R S L E L W
UniRef90_UPI00047D615F N L V S I N K N G T E L D S K L N E N A I K K V K L S E T S Y D I L R K S G L E Y S
UniRef90_A0A021W760 A Q M S T W E T D S H L S R Y N R A P A G T V D L P V E F A E V M G A A L T L A

UniRef90_S6FB06
UniRef90_R5Q3T7
UniRef90_I2JM22
UniRef90_L1N1V2
UniRef90_UPI0004129A82
UniRef90_R9BT78
UniRef90_J9GR90
UniRef90_UPI0004633344
UniRef90_R4KJV0
UniRef90_F4LQM4
UniRef90_UPI0004778980
UniRef90_D0LJG3
UniRef90_D9QV33
UniRef90_W0E61
UniRef90_T0P7V2
UniRef90_UPI0000E117E7
UniRef90_C1DR08
UniRef90_F3PPI3
UniRef90_D1W3R2
UniRef90_UPI00028972B0
UniRef90_I8U744
UniRef90_L8JZD4
UniRef90_G2E3G5
UniRef90_X5E1K2
UniRef90_R6CCK1
UniRef90_E6U4G2
UniRef90_S5AJL2
UniRef90_W9T9L7
UniRef90_R6R855
UniRef90_UPI0003077B5F
UniRef90_I3CG31
UniRef90_D5ECH9
UniRef90_R5YH93
UniRef90_C6J7F6
UniRef90_UPI00025571C2
UniRef90_B5YE61
UniRef90_D6GRB9
UniRef90_R6SNT0
UniRef90_N9U1N8
UniRef90_V9W0B2
UniRef90_H1PX30
UniRef90_A1SSY9
UniRef90_R6S146
UniRef90_Q67R06
UniRef90_U1S7L6
UniRef90_UPI00047C148D
UniRef90_I5AYC8
UniRef90_UPI00030B6A2E
UniRef90_A7HLP9
UniRef90_A0A037ZDB5
UniRef90_R5F9M6
UniRef90_R6FVB2
UniRef90_C4SZ68
UniRef90_UPI00037DDE87
UniRef90_B9NVH5
UniRef90_C7R8K4
UniRef90_U2CQ59
UniRef90_K5YEW4
UniRef90_D4M5Q1
UniRef90_R9JE45
UniRef90_UPI0003735254
UniRef90_E8SR78
UniRef90_UPI0003B5CA94
UniRef90_A0A058ZNT7
UniRef90_A6FIV5
UniRef90_B2A695
UniRef90_G1W8Z5
UniRef90_R7R0E9
UniRef90_E2ZBR8
UniRef90_R6IC53
UniRef90_R5T2G5
UniRef90_A0A023RGZ8
UniRef90_I7ZC99
UniRef90_A8U110
UniRef90_S2DWZ7
UniRef90_K1L1N9
UniRef90_R6BNS0
UniRef90_B4WXA6
UniRef90_R6MH94
UniRef90_UPI00030102A1
UniRef90_UPI0004668D64
UniRef90_K7A117
UniRef90_E4RPW6
UniRef90_G5GCI0
UniRef90_K8FDS8
UniRef90_UPI00036BDEC5
UniRef90_F4DFS7
UniRef90_D7NAD7
UniRef90_R2R480
UniRef90_UPI00046689CF
UniRef90_UPI00047D615F
UniRef90_A0A021W760

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

UniRef90_S6FB06 WVVGLEKLVKLSSESAGKFLYLEPELYLVDDLSAIAKGGFGLVDQVVAAR
UniRef90_R5Q3T7 ITTG YQKVIKYDGGKGEITIKKDNRILMLDDELSAIAKGGYGSMDMVAAR
UniRef90_I2JM22 TVVGFGEI ELDLIDRKKVLLKHPRILMLDDELSAIAKGGFGLVDVVAAR
UniRef90_L1N1V2 LVVGFDEKVSYSNNGRILKVKQDPRILMLDDELSAIAKGGFGLVDVVAAR
UniRef90_UPI0004129A82 YIN YKDI TLDKENRQT VYVTKKNGMTL DDLGSAIAKGGYADKVAARE
UniRef90_R9BT78 TI GFDNV EFD DDKTQVFLKRRNGMML DDLGSAIAKGGFTADVAISDR
UniRef90_J9GR90 LTI GYRDK IALDNDNQVFLKQDPRITL DDLGSAIAKGGFGLVDVVAAR
UniRef90_UPI0004633344 LVN YARSVIN KETKI ML L L Q K G Q M L DDLGSAIAKGGYAGDEVAQR
UniRef90_R4KJV0 DYKSL QI VNNDSGN P S V L V T T R P G G Q M L DDLGSAIAKGGYAGDEAKR
UniRef90_F4LQM4 LIDYT QVVKLDEE PNA VFLKRA GMA L DDLGSAIAKGGYAGDESVK
UniRef90_UPI0004778980 LVDYQLVVKLNP ETQNI STRA GMI L DDLGSAIAKGGYAGDEVI E
UniRef90_D0LJG3 VGYRGLVRLA P GSKRA G L R R A G M K L DDLGSAIAKGGYAVDRAVA
UniRef90_D9QV33 LVN YKVENINE D KRRT VMLAE P G M K L DDLGSAIAKGGYAVDRAVA
UniRef90_W0E61 L I N Y K D L E V D G N L A S L K R A G Q Q V DDLGSAIAKGGYAGDVAARD
UniRef90_T0P7V2 L I N Y N D I V L D E T N K T F K R E N M L DDLGSAIAKGGYAGDEVAAR
UniRef90_UPI0000E117E7 F S G L N D K L Q L N G L E L T K T V D G L Y L DDLSTIAKGGYGVDAIA SQ
UniRef90_C1DR08 R V G H Q Y L R I D G E R L C K D A P V Q V D D F N S I A A G G H A V D R V A A Q
UniRef90_F3PPI3 ITTGYT KVKLS DDEGK VVVKQD PR I M L DDLGSAIAKGGYAVDVAIAQQ
UniRef90_D1W3R2 L T W G Y D K V S V M G S T V V K K Q D S R I M L DDLGSAIAKGGYAGDAVAQS
UniRef90_UPI00028972B0 F I N Y K D V I L D D S N K T V F K N P N M I I DDLGSAIAKGGYAGDVAITD
UniRef90_I8U744 Y V G I D K I V L D D G L A L R K L E P R V M A I DDLGSAIAKGGYGVNRKLAES
UniRef90_L8JZD4 K V D Y H N I L D Q E N Q N A V F L K K R A G M K L DDLGSAIAKGGYAGDQKAAKS
UniRef90_G2E3G5 R V G W R K L E L R A D P A L R K A R G D I Y I DDLSAI L G E G Y A D R V G
UniRef90_X5E1K2 I C G Y E K L R F E N G Q I V K E N P H M T N M S A I A K G G Y T G D L I V A R
UniRef90_R6CCK1 L V G H E K V A L E K G R I L K Q N P K I M L DDLGSAIAKGGYAGDVAIA
UniRef90_E6U4G2 A V S G A G V L N E K D G S A R I G R H Q S V V DDLGSAIAKGGYAGDVAIA
UniRef90_S5AJL2 Y V T G Y R K L S T T P T G L K K S H P M L Y Q L DDLSTIAKGGFGLVDVAIA
UniRef90_W9T9L7 I T G H R H L R I D G E R L C K D A A V V Q L D D F N S I A A G Y A V D R V I A
UniRef90_R6R855 K V D Y K K L R L D G T R S T T F L D P G T S I DDLGSAIAKGGYADQKLAAD
UniRef90_UPI0003077B5F LVG Y Q K D V L T N A D K R E L K N R A G M E I DDLGSAIAKGGYAGDVAIAAD
UniRef90_I3CG31 F V G Y E K L H T T P D L A L K K D H P N M Y I DDLGSAIAKGGYGVDAIAAN
UniRef90_D5ECH9 L I G Y E E V Q L D R K N M S I R L P R S G Q L DDLGSAIAKGGYAGDVAIA
UniRef90_R5YH93 LV D Y K Q I Q V E P E S G E I S L P N D M E I DDLGSAIAKGGYAGDVAIA
UniRef90_C6J7F6 L V G Y Q D V V V D E A K R T V F K R P G M V L DDLGSAIAKGGYAGDVAIA
UniRef90_UPI00025571C2 Q I G H Q H L H I D G Q S L C K D V D I Q L D D F N S I A A G Y T V D K I G K
UniRef90_B5YE61 R V D Y K K I Q L K D Q S M V F V P K G M E I DDLGSAIAKGGYGLDRILS
UniRef90_D6GRB9 F I N Y K N I V L D K E K Q S T V F T E K T M K L DDLGSAIAKGGYADVAIA
UniRef90_R6SNT0 L V N Y Q D V Q V A K E Q V T F A K E G M M L DDLGSAIAKGGYADVAIA
UniRef90_N9U1N8 R V G D R K L E S D G P L L A K R R P D L Y I DDLGSAIAKGGYAGDVAIA
UniRef90_V9W0B2 L S D F D K L L H D E D K S V K L E E A G M A L DDLGSAIAKGGYADVAIA
UniRef90_H1PX30 E I D F D K V K T E G N K I Y M E P V N E I V DDLGSAIAKGGYAVARA
UniRef90_A1SSY9 I V G S Q Y L S V N G K T I S K A L P E L Y V L DDLGSAIAKGGYGVDAIA
UniRef90_R6S146 F I G I D K I N L N E N G K I T K K D P R V M L DDLGSAIAKGGFGLVDVAIA
UniRef90_Q67R06 L V S W R D V H V D P E G T V F L S R P G M Q L DDLGSAIAKGGFAARLVA
UniRef90_U1S7L6 WV G D K L T L T E K A G K F Y L T K A T Y V DDLGSAIAKGGYGVDAIA
UniRef90_UPI00047C148D NV G F Q N I N N T D T S V F L K R S G M K I DDLGSAIAKGGYADVAIA
UniRef90_I5AYC8 S I G F N K L K I G D H N L T K T M P G I T L DDLGSAIAKGGYGVDEIARQ
UniRef90_UPI00030B6A2E L I D H E K E I D D D Q D Q K S V L V D E G M Q L DDLGSAIAKGGYGLDRILS
UniRef90_A7HLP9 L S G H K N I A I D Y I Q K M V K T N G A W L D D F G G M L DDLGSAIAKGGYADVAIA
UniRef90_A0A037ZDB5 L T N Y K D I L L D E K T K S V K L K K E N E I DDLGSAIAKGGYADVAIA
UniRef90_R5F9M6 F I G F D K V R M E N R R I V K A N P N V M L DDLGSAIAKGGYGVDAIA
UniRef90_R6FVB2 I V G Y K K V K L V N H R I L T K T D A R V M L DDLGSAIAKGGYGVDAIA
UniRef90_C4SZ68 Q V G L I Q H L K L I S D N H G E W L I Q P D L Y V DDLGSAIAKGGYGVDAIA
UniRef90_UPI00037DDE87 E I G L S H I E T V D G D L Q K D K A N M Y V I DDLSTIAKGGYATDVAIA
UniRef90_B9NVH5 Q V G Q A R T L D R A A G D Y L A K S D A G V G I DDLGSAIAKGGYADVAIA
UniRef90_C7R8K4 T V G T D Q L E Y D S A K Q C K T N P K L T I DDLGSAIAKGGYADVAIA
UniRef90_U2CQ59 L V G Y D K L I K E S D N S V L K L E K E G M A I DDLGSAIAKGGYADVAIA
UniRef90_K5YEW4 R V G H K H L R I E G E D L K S A A V E V D D F N S I A A G Y A V D R V A Q
UniRef90_D4M5Q1 H I N Y K T I E V N G T T I T M S D P Y A K I DDLGSAIAKGGYADVAIA
UniRef90_R9JE45 H V G Y E G I I E G N E V S L A D P D A G I DDLGSAIAKGGYADVAIA
UniRef90_UPI0003735254 A A G W R E I V L D G D S L F Q P G G L R L DDLGSAIAKGGYADVAIA
UniRef90_E8SR78 Y T G D K I I L Q Q G K D Y S K T H P K A Y L DDLGSAIAKGGYADVAIA
UniRef90_UPI0003B5CA94 Q T G F N K L L L K N Q T L T A T A P H I T DDLGSAIAKGGYADVAIA
UniRef90_A0A058ZNT7 Q I G Q G T L L S L E G Q M L A K S L P E A S I DDLGSAIAKGGYADVAIA
UniRef90_A6FIV5 R V G I E H L S H T K N T L S K N I D M L Y V DDLGSAIAKGGYADVAIA
UniRef90_B2A695 L V M H N E I E M D E E K H I Y L P D S D M R L DDLGSAIAKGGYADVAIA
UniRef90_G1W8Z5 F M G M Q Y N H V D G K T I V S T K H P H L M L DDLGSAIAKGGYADVAIA
UniRef90_R7R0E9 T I N Y Q N I T V S G N T V T L N D P D E A I DDLGSAIAKGGYADVAIA
UniRef90_E2ZBR8 L V N Y K D L L R P E D H S V K A K A G M S I DDLGSAIAKGGYADVAIA
UniRef90_R6IC53 F V G Y Q K V R L E G K L I K A K E D P R I L L DDLGSAIAKGGYADVAIA
UniRef90_R5T2G5 K T G M K Y I S H N E E T G E Y F L K K G C A L DDLGSAIAKGGYADVAIA
UniRef90_A0A023RGZ8 R V G D R K L S L T P Q G D H F K S I P N L Y L DDLGSAIAKGGYADVAIA
UniRef90_I7ZC99 R C G W R L R L D E Q T R S I T Q P G G L A L DDLGSAIAKGGYADVAIA
UniRef90_A8U10 K V G Y E N I V L N E Q D L S V Y L K E G M K I DDLGSAIAKGGYADVAIA
UniRef90_S2DWZ7 L V N F K A V S Y D S L E V R K K E G M Y L DDLGSAIAKGGYADVAIA
UniRef90_K1L1N9 L V D F N N V I F D E K Q V K K T K A G V Y L DDLGSAIAKGGYADVAIA
UniRef90_R6BNS0 L A D S S K I D F N K D Q T V S F E Q D G M E I DDLGSAIAKGGYADVAIA
UniRef90_B4WXA6 H I G A D R I E L T A P D K V R F R D P R T R I DDLGSAIAKGGYADVAIA
UniRef90_R6MH94 H I G Y E N R V D G N T V Q L R D P E A A I DDLGSAIAKGGYADVAIA
UniRef90_UPI00030102A1 K V G Y Q N I E L D S A E C T I F L K K G M K I DDLGSAIAKGGYADVAIA
UniRef90_UPI0004668D64 L I S Y K N V L L D D K N S S V K A K E M K L DDLGSAIAKGGYADVAIA
UniRef90_K7A117 F V G I D K V E L N S G V V T K L H S K L Y I DDLGSAIAKGGYADVAIA
UniRef90_E4RPW6 F V D Y N Y L E I E G N R A R V T K E G V K I DDLGSAIAKGGYADVAIA
UniRef90_G5GGI0 K V G Y E N V E V N Q D T V T F K D P D T S I DDLGSAIAKGGYADVAIA
UniRef90_K8FDS8 L I N Y K D V K M N D Q T V Y L E K E G M E L DDLGSAIAKGGYADVAIA
UniRef90_UPI00036BDEC5 A L D F R S L V V D E E S R T V F P R P G M A L DDLGSAIAKGGYADVAIA
UniRef90_F4DFS7 K V G I D K L T L T S Q G D H F K T I P D L Y L DDLGSAIAKGGYADVAIA
UniRef90_D7NAD7 G M Q Y I K V E H T G E K N I V K T D H K G M L DDLGSAIAKGGYADVAIA
UniRef90_R2R480 L V N Y H D V E F D A E K T V Y L K Q A G M K L DDLGSAIAKGGYADVAIA
UniRef90_UPI00046689CF L V D S S A I L N E K K S T V T F E K E G L K I DDLGSAIAKGGYADVAIA
UniRef90_UPI00047D615F Y V G Y S K I Q M N D S T H E V F T Q K G M M L DDLGSAIAKGGYADVAIA
UniRef90_A0A021W760 R V G W R R L R W D A A T R E L I Q P G G A S I DDLGSAIAKGGYADVAIA

UniRef90_S6FB06
UniRef90_R5Q3T7
UniRef90_I2JM22
UniRef90_L1N1V2
UniRef90_UPI0004129A82
UniRef90_R9BT78
UniRef90_J9GR90
UniRef90_UPI0004633344
UniRef90_R4KJV0
UniRef90_F4LQM4
UniRef90_UPI0004778980
UniRef90_D0LJG3
UniRef90_D9QV33
UniRef90_W0E61
UniRef90_T0P7V2
UniRef90_UPI0000E117E7
UniRef90_C1DR08
UniRef90_F3PPI3
UniRef90_D1W3R2
UniRef90_UPI00028972B0
UniRef90_I8U744
UniRef90_L8JZD4
UniRef90_G2E3G5
UniRef90_X5E1K2
UniRef90_R6CKK1
UniRef90_E6U4G2
UniRef90_S5AJL2
UniRef90_W9T9L7
UniRef90_R6R855
UniRef90_UPI0003077B5F
UniRef90_I3CG31
UniRef90_D5ECH9
UniRef90_R5YH93
UniRef90_C6J7F6
UniRef90_UPI00025571C2
UniRef90_B5YE61
UniRef90_D6GRB9
UniRef90_R6SNT0
UniRef90_N9U1N8
UniRef90_V9W0B2
UniRef90_H1PX30
UniRef90_A1SSY9
UniRef90_R6SI46
UniRef90_Q67R06
UniRef90_U1S7L6
UniRef90_UPI00047C148D
UniRef90_I5AYC8
UniRef90_UPI00030B6A2E
UniRef90_A7HLP9
UniRef90_A0A037ZDB5
UniRef90_R5F9M6
UniRef90_R6FVB2
UniRef90_C4SZ68
UniRef90_UPI00037DDE87
UniRef90_B9NVH5
UniRef90_C7R8K4
UniRef90_U2CQ59
UniRef90_K5YEW4
UniRef90_D4M5Q1
UniRef90_R9JE45
UniRef90_UPI0003735254
UniRef90_E8SR78
UniRef90_UPI0003B5CA94
UniRef90_A0A058ZNT7
UniRef90_A6FIV5
UniRef90_B2A695
UniRef90_G1W8Z5
UniRef90_R7R0E9
UniRef90_E2ZBR8
UniRef90_R6IC53
UniRef90_R5T2G5
UniRef90_A0A023RGZ8
UniRef90_I7ZC99
UniRef90_A8U110
UniRef90_S2DWZ7
UniRef90_K1L1N9
UniRef90_R6BNS0
UniRef90_B4WXA6
UniRef90_R6MH94
UniRef90_UPI00030102A1
UniRef90_UPI0004668D64
UniRef90_K7A117
UniRef90_E4RPW6
UniRef90_G5GGI0
UniRef90_K8FDS8
UniRef90_UPI00036BDEC5
UniRef90_F4DFS7
UniRef90_D7NAD7
UniRef90_R2R480
UniRef90_UPI00046689CF
UniRef90_UPI00047D615F
UniRef90_A0A021W760

210 220 230 240
R S V E Q V V G L H N L A M A T S G D Y R N Y F E E N G V R Y S H H I I N P Q T G
R D I Q A V L K V T D M A M A T S G D Y R N Y F E E N G K K Y A H H T I D D P K T G
E N E P E T P L R L T G N L G A T A T S G D Y R N Y F E E D G V K R Y A H H T I D D P P N T G
Q E L Q A V L R S I L T D N A M A T S G D Y R N Y F E E D G V K R Y A H H T I D D P P N T G
G A T V G S V P E T H D S V V T S G I Y E R Y F E E V D G V K Y H H H I L D D P P K T G
D R E L V G T I L T S I V K N K S L V T S G I Y E R Y F E E K D G K K Y A H H T I D D P P K T G
Q E L Q T V L S I V S N K V G M A T S G I Y E R N F Y Y K G G K K Y A H H T I D D P P K T G
P R P L G I V K V S N C S V V T S G N Y E R F F E V E G K R Y H H H I F D D P H S G
P R Y L G L V Y V T D K A V V T S G G Y E R Y F E E K D G K R Y H H H I L D D T P A T G
G S I F A T V E V A D K T L V T S G P Y E R Y F E E N G K K Y H H H I L D D T P A T G
K N I L L G T V K V K N K T V V T S G N Y E R Y F I E D G V R Y H H H I L N P Q T G
D A A F A V A E I E N Q T F S T S G D Y E R S V V R D G V R Y H H H I L D D P S T G
D N Y S N I I G I K E T N V V T S G D Y E R Y F M E E G R R Y H H H I L D D P S T G
Q Q I V G T V T V T D K A V V T A G D D Q R Y F E E K D G K R Y H H H I L D A R K T G
A R G L G Y I E V V N K S I V T S G I Y E R Y F E E S N A G K K Y H H H I L D N P K T G
R A V Q R I I S V D G N H A V A T S G D Y R N F F E E A N G V R Y S H H I L D N P N T G
R V A Q R I I A L D G Y A V A T S G D Y R N F F E E Q N G K R Y S H H T V D D P R L G
Q E L Q T I L Q V T D G V G A T A T S G N Y R R Y Y Y K N G K K Y A H H T I D D P P R T G
D E L Q T V L N V T D K A M A T S G N Y R R F Y Y K N G K K Y A H H T I D D P P R T G
N S T V G N L L V N D K S T V T S G V Y E R F F E E N G K K Y H H H I L N P K T G
R S V Q R L L A L K K E M A L A T A T S G D Y R N Y F E E D G V R Y S H H I L D D P P R T G
N K V F A L L P V K K E G A V V T S G D Y E R N Y V T F N G V L R Y S H H I L D D P P R T G
R S V H R L I P V S N R A L S T S G D Y R N F F E E N G K R Y S H H E I I D D P M T G
N E L S A A L M L N N R A M A T S G N Y L N F Y E E D G K K Y A H H T I D D P P S T G
Q E I Q D V L D I T D A M A T S G N Y R N F Y Y K N G K K Y A H H T I D D P P S T G
T R G I A V F A I S D R S A V T S G D Y E K Y F E S G G K R F H H H I I D D P G T G
R A V Q K V I S I G G E N A V A T S G D Y R N Y F E E D G V R Y S H H I L D D P P T G
D E A Q K L V E L D G L G V S T S G D Y R N Y F E E R D G K R Y S H H T I L D D P Q S G
D R T F A Q V E V S D L S V V A S G V Y E R H F V E D G K N Y H H H I L D D P Q S T G
G N Q Q K M K V K D K T I V T S G V Y E R Y F V E E D G K H Y H H H I L D D P P T G
R A V Q H V I Y L S N K G L A T S G D Y R N Y F E E K D G V R Y S H H T I L D D P P H T G
P Q Y L G V L R V S N K S V V T S G N Y E R F F E E K D G K R Y H H H I F D D P A T G
N E E P M M V L I S D Q S V T S G G Y E R Y F E E D G K T Y W H H I M D D P P K T G
S R T M G T I R L S D Q V I D T S G I Y E R Y F E E D D V M Y H H H I L D D P P R T G
D E R Q K I L A L D G Y G I S T S G D Y E R N Y F E E N G V R Y S H H T I L D D P Q T G
D D Y I G S V Y I L N E G S V A T S G D Y E R Y F V K N G V R Y C H H I L N P K T G
S P L A A I P I E K T T A I V T S G I Y Q R F F E K D G K L Y H H H I L N P A T G
D R T I A V M D I T D K S V V S G I Y E R Y F E Q D G T F Y H H H I L N P A T G
Q P G Q A V V T P K G M A V S T A G S Y R N Y F E R D G V R Y S H H I L D D P V T G
G N Q I G N I K V D N Q T V V T S G I Y E R Y F V E D G K H Y H H H I L D D P D T G
P E I L G T I E L N D E G M G V S G D Y Q T Y V E I N G K R Y H H H I L D K T T G
Q S V Q R I I N V G D N A A T A T S G N Y R N F F E S D D G I H Y H H H I L D D P P R T G
Q E L Q T I L E I L T N V G M A T S G N Y R N F Y Y K D G K K Y A H H S T I D D P P R S G
P Q G Y I A T L S L D G G Y A T A G D Y Q R Y F E A D G V R Y H H H I L D D P P S T G
Q I A Q Q I I G I K D L A M A T S G N Y R N Y F E Q D G I R F S H H E I D D P P H T G
N K G F G L P V V N K A V V T S G N Y E K Y V V F S G K R Y S H H I L D D P P R T G
G F L Y K E I R L D N K A I A T S G N Y R N Y F E K N G H T Y S H H I I S P K T G
G E L V G R I E A T N K S V V T S G I Y E R Y F I E E D G Q K Y H H H I L D D P D T G
Q P N I K L V Y M K S G S I A T S G D Y E R F F I V D G V R Y H H H I L D D P K T G
G E Y F G I K T S H K S L V S S G N Y E R F F E K G G K R Y H H H I L D T K T G
D P L Q T I L N V T D K A M A T S G N Y R N F Y Y K A G R K Y A H H T I D D P K T G
D E L Q T V L N V K D R A M A T S G N Y R N F Y Y R G K K K Y A H H T I D D P A T G
N A V Q A L V D L Q G G Y S T S T S G S Y R N Y F E L K G Q R Y S H H V L D D P V T G
D A V E A I V D L Q G M G I S T S G S Y R N Y F E L D G K R L S H H I L D D P P E T G
Q S I Q L I V P I D D R G L A T S G D Y K N F F E Q D G I R Y S H H I I D D P P T G
N A S Q Q E I A L E S T S I A T S G D Y R N Y F E V A G K R F S H H T I D D P T T G
E G L L G V V K I L S D E A L S T S G D Y E R F F I K D N K R Y S H H H I L N P A T G
D Q A Q Q V I E L D G L A V S T S G D Y R N Y F E R D G R R Y S H H T I L D D P H T G
G T V T A V L P V S D K S I V S S G N Y E R Y F K K D G K I Y H H H I L D D P S T G
P D I A L V L P V T D L S V V S S G T Y E R Y F E L D N T I Y H H H I L D D T K T G
D G L R T L V A L H G L S V A T S G D Y R R Y F E H G R R Y A H H T I L D D P A T A
G N T Q I I V P L N N R S L A T S G D Y R F H V D K N G K R L S H H T I N P N N K
Q G L Y E I I S L D N M A L A T S G N Y R N F F V K D G K S Y S H H I I D D P K T G
R A I E M I L P V S D K G M A T S G D Y R N Y F E Q D G V R Y S H H I L D D P P T T G
H S V Q H V V A V G N N A T V T S G S Y R N Y Y D L N D E R F S H H T I D D P I T G
R Q Y F A V L E L N G E A V D T S G D Y E R Y F E E D G V K Y H H H I L D D P Y T G
N K L Q T V L N I T N K A M A T S G N Y R N F Y Y R G K K K Y A H H T I D D P P R T G
D T A L A T V S I P D G T V V S S G V Y E R Y F K K D G V L Y H H H I L N P K T G
D D Y L G T V A V S N E N I S T S G D Y E R F F E E N G V R Y H H H I L D D P K T G
D V E I L V Q L C Q K G G V A T S G D Y R N F Y I K D G K K Y A H H T I N P A T G
D K T A G T L S I L S D T S I V T S G D Y E R Y F M A K G R R Y H H H I F D P H T G
R Q I E D V V T P N G M A L S T A G S Y R N Y F E L D G R R Y S H H I I D D P A T G
P F E A P W L A L D G A V A T S G D Y R R Y F E Q G E R R Y A H H T I L D D P P R S G
N K V F T L L P V Y E R A V V T S G N Y E K Y V E I N G K R Y S H H T I D D P P R T G
D Q L V S I I A L D N K A L A T S G N Y R N F Y E A D G M K I S H H T I D D P P A T G
E D L F S I A L N D K A M A T S G N Y R N Y F E E G M K I S H H T I D D P P T T G
E N Y L G V L E T Q D R A V I T S G G Y E R Y F E Q D G K T Y Q H H I L D D P K T G
K Q D I A M L P M A N L A M S T S G D Y Q R Y F I Q D G R I H H H I L D D P K T G
Q N A I T S V K I K D Q S V V S S G I Y E R Y F K V D D K I Y H H H I L D P K T G
E K F I T L N L K R D A V T T S G S Y E K Y V E F D G K R Y S H H I I N P V T G
G N S L G S V Q A K D T S V V T S G I Y E R F F I K K E G K L Y H H H I L S P F D G
R A I Q K I I S I G N D S V A T S G N Y R N Y F E Q D G I R Y S H H I L E P T T G
G N V M A I I S E S D Q T I V T S G N Y E R Y F E E D G E I Y H H H I F D P P E N G
E S V F E T I V V N D S I V T S G V Y E R Y F T Y N G K N Y H H H I L N P A D G
P R V I G K L P E S N M S I V T S G I Y E R Y F I V D G K T Y H H H I L D P K T G
D R Y L G V L S S R D E S V V S S G A Y E R F F E E E G V R Y H H H I F D P A T G
Q P G A F I V P N G M A L S T A G S Y R N Y F E L D G Q R Y A H H T I D D P P R T G
Q N L Q T V L N V T D R A M A T S G N Y R N F Y Y K N G K K L A H H T I D D P P R T G
N V L L G S V P E S N M S L V T S G I Y E R Y L E A D G K T Y H H H I L N P K T G
T D Y L G V L Q A E D C A V I T S G G Y E R Y F E Q D G V T Y H H H I L D P A T G
G N V V G S I E V S D K S V V T S G V Y E R F F E K D G V K Y H H H I L N P K T G
N E A A A V I A L D G L S I A T S G D Y R R Y F D A D G Q R Y A H H T I L D P R S G

UniRef90_S6FB06 R P I Q H H A S I T V L V D P S S M T A D G L L S T G L F V L G E D E A L K V A E Q
UniRef90_R5Q3T7 R P V Q N H S L S S A T V L L A D A N C C A T A D A D A Y A T A F M V M G G V D E K T K L I L K N
UniRef90_I2JM22 R P V Q H N L A S S A T V L L A D A N C C A T A D A D A Y A T A F M V M G G V D E K T K Q L L A E N
UniRef90_L1N1V2 Y P V Q H N N I S A T V L L A D A N C C A T A D A D A Y A T A F M V M G G V D E K T K Q L L A E N
UniRef90_UPI0004129A82 Y P V Q E N D I S A T V L L A D A N C C A T A D A D A Y A T A F M V M G G V D E K T K Q L L A E N
UniRef90_R9BT78 Y P D N E V L A G L T I V L S K T S T D T D G D G F A T T T L F L L G V E E K G L A F V I N Q
UniRef90_J9GR90 Y P V Q H S L S A T V L L A Q D T S T D T D G D G F A T T A F M V M G G V E K A Q A F C A Q
UniRef90_UPI0004633344 Y P V S G L L S A T V V S Q R S I D G D A L S T T L Y I L G K E E G L A F T E H
UniRef90_R4KJV0 Y P A N S G L S A T V V S T K M S I L D A D A L S T T G A Y V L G L T E D G M K L I D S G
UniRef90_F4LQM4 F P L E N G L I M V T I I L A D A D A L S T T V V F S M G L S E D G M K L I V S G
UniRef90_UPI0004778980 Y P A R N V I S A T I I L A E S S F D A D A L S T T A V Y I L G V R K G M E L I S E Q
UniRef90_D0LJG3 R P A D K S R S S V T I V M A D A D A L S T T A L F V L M G A E R A G L P L V E K E
UniRef90_D9QV33 Y P A R G L A S V T I V M A D S F K A D I L S T T A L F V L G F D E A K A Y I Q E K
UniRef90_W0E61 Y P A Q S D L M V T L I T D S S F N A D A I D T T A F L L G L E E K G R E L I Q S
UniRef90_T0P7V2 Y P E N E T L G V S I V L D K S I D G D S L S T T L F A L G L I E K G L E F V I N S
UniRef90_UPI0000E117E7 Y P I H K T V S A T I V H P S S M T A D G L S T T A M M V L S P E Q K A K A L A E K
UniRef90_C1DR08 A P V H R L A A V T V V D P S A L R A D G L S T V L M V L G E E E R G L A F A E Q
UniRef90_F3PP13 Y P V Q H N I S A T V L A N T C C A M A D A Y A T A F M V M G L E E A E R F A D A
UniRef90_D1W3R2 Y P V Q H N I S A T V L A N T C C A M A D A Y A T A F M V L G L D E K T K E V L O R
UniRef90_UPI00028972B0 Y P E N D L L G V T I I S D K S V D G D A L S T T T F A L G L C D E G L K F L N S
UniRef90_I8U744 E P I H K T V S S T V L H P K D A M T A D G Y A T T L N V L P A D E A L A F A N Q
UniRef90_L8JZD4 Y P S R G L I S A T V F A P K A E L A D A L A T S V F V M G V Q V G L D R I N Q
UniRef90_G2E3G5 E P V D R R L S S V T V V D D S A M V A D G W A T A L M V L G D R R G P E A A K
UniRef90_X5E1K2 Y P V Q H S L S A T V L A R D C C M T A D A F A T A F M V L G K D A G A K E I A R L
UniRef90_R6CKK1 Y P V Q H N I S A T V L A R D C C A T A D A Y A T S F M V M G M E R Q G A L I L K K
UniRef90_E6U4G2 Y P A S S G L M A T V L S G S M E A D A L S T A V F V S G L E E R G M E L I L E K
UniRef90_S5AJL2 K P I H S L V S V T V V H P S S M T S D G L A T A F N V M G W E R Q A I A I A E Q
UniRef90_W9T9L7 R P L H S L A S V T V I L D A S T L R A D G L S T A L M V L G P E R G F A F A E Q
UniRef90_R6R855 Y P D N G L I S S V T I L S E R S T V D G D A L S T T C F S L G L S E R G M E L V E S
UniRef90_UPI0003077B5F Y P I H N L S S V T I V V A T T S T D A D A L S T T S T F A L G L E E G M K F V E S
UniRef90_I3CG31 K P I H N L V S S V T V V A T T S M T A D G L A T M F M V M G A E A S L A L A E R
UniRef90_D5ECH9 Y P A E S G L S S V T I L S D R S I D G D A L S T A L F V L G K E E G L K L A S S
UniRef90_R5YH93 Y P A N G L I S S V T I V G D D G M L C D A G L S T S L F V M G L E E K A A D F W G K
UniRef90_G6J7F6 V P A Q N N K S S V T I V L A D N A T D A D A L S T S F V Y V M G L E E G L Q Y I E D
UniRef90_UPI00025571C2 A P I H K L A A V T V A N R S T L M A D G L S T L L M V L G P E R G M A Y A K Q
UniRef90_B5YE61 Y P Q E E I M S S V T I V S K K A V E A D A L S T A F F V M G D K A M S Y W Q K
UniRef90_D6GRB9 Y P D N S L I S S V T V I T D N S T D A D A L S T T L F S L G L E E G L S I V N Q
UniRef90_R6SNT0 M P D N H L V S S V T I I S D K S V D G D G L S T S C F A L G L E E K G R D L V N S
UniRef90_N9U1N8 H P I H K L V S A T V I L T P S A L E A D A Y D T A L M V M G P E K A M A Y A R D
UniRef90_V9W0B2 Y P V N N L S S V T I L T D K S I L E A D A D A L A K T F T L G L E E K G L D F V E K
UniRef90_H1PX30 F P V R D K K M V V V I C E D A F L A D L Y S T A F F T M P V E K V M K F A E S
UniRef90_A1SSY9 K P I H K L V S S V T V I N K S S M L A D G L A T A T V L V L G P E S A K A F A K K
UniRef90_R6SI46 Y P V Q H N I S S T V V A R D C C A T A D A Y A T S F M V L G L D S A K A L C A K
UniRef90_Q67R06 Y P A R G M A S S V T V V A P R G E L A D A Y A T A F V L G M E G G Y R F L V E
UniRef90_U1S7L6 R P I Q H A A S I T V L A P S S M T A D G L S T G L F V L G E Q K A M E I A E Q
UniRef90_UPI00047C148D Y P S T G I L S S V T V F A P K A E L A D A L S T S V F V M G K D I G D R I N Q
UniRef90_I5AYC8 Y P V N G V V S A S V I S D T C T W A D G L A T A L M V M D V H Q A L A L I N S
UniRef90_UPI00030B6A2E Y P D N E I A G V T I I S E D S V D G D A L S T I V F A K G L E E G K A F L E A
UniRef90_A7HLP9 Y P A R G A I S A T V I S E D P V I J A D A F S T A A F V L G R E N W L L T R T L
UniRef90_A0A037ZDB5 Y P A D K G I S S T V I S D K S I D G D A L S T S T F V L G L D K G M K L I E S
UniRef90_R5F9M6 Y P V Q H N I S A T V L A N D C C A T A D A Y A T S F M V M G M G G A K Q V L K K
UniRef90_R6FVB2 Y P V Q H S I S A T V L A K R C A E A D A Y A T A F M V M G M E K A K Q V L E K
UniRef90_C4SZ68 R P I N H K V S A T V I A T S A L E A D G W D T G L M V L G T E K A L K L A E E
UniRef90_UPI00037DDE87 R P I H K L V S A T V I A P T A N A E A D G W D T G L M V L G T K K A L A L A E K
UniRef90_B9NVH5 R P I H R T T S S V T V L A D N A M M A D A W A T A M L A L G Q E K G L E A E T
UniRef90_C7R8K4 Y P I E H N L T V S V I H P S N M Y A D A Y A T A M S V L G G E A S L E F A D Q
UniRef90_U2CQ59 Y P A D N G V M S D T I A D A N M Q A D M L T T T V F V L G A D K G M K F I E S
UniRef90_K5YEW4 R P V H K L A S S V T V L D G S A L C A D A Y A T A L M V L G P E R G F E F A R Q
UniRef90_D4M5Q1 Y P I E N N L Q V T I I S D K S V D G D A L S T T C Y A L G L D E G L K L I R S
UniRef90_R9JE45 Y P V Q N N L S S V T I L S R S S M D G D A L S T T C F L L G L E E G M K L I E S
UniRef90_UPI0003735254 A P V H P T V S V T V L D E T C L R A D A Y A T A L T V M T P G A A L T F A N A
UniRef90_E8SR78 R P I H N L A S I S V V S D S A M T A D G L S T G L F V L G E T E A L R L A E Q
UniRef90_UPI0003B5CA94 Y P V N R V V S A S V I A P D C T F A D G L A T A L M V M E V D R G I E M I N H
UniRef90_A0A058ZNT7 Y P V H R T T S S V T V I A D S G M L A D A W A T A M M I V G D E D G L R I A Q
UniRef90_A6FIV5 K P A Q H N V S S V T V I H S A M T A D G F A T A F M A M G E V I Q G M T L A R Q
UniRef90_B2A695 Y P T E G M I S A T V M A D N A I R A D I L S T G A F G L G L E R S A L E L F E E
UniRef90_G1W8Z5 Y P V Q H S L S A T V I A N S C A E A D A Y A T A F M V M G V E R A K E V L K Q
UniRef90_R7R0E9 Y P E N D L T G V T I I C S R S V D G D G L S T T C F S L G L E D G M K L I E S
UniRef90_E2ZBR8 R P A R S G V M S D S V L V D S M L G D M L T T L L F V L G P E R G M E F A H S
UniRef90_R6IC53 Y P A Q N I L S A T I V A E D C M T A D A Y A T T F M V L G V E K A K L L A Q S
UniRef90_R5T2G5 A P V Q N G R A V T V I C K D S E K A D I L S T A L F V M G E K K A A L F W K E
UniRef90_A0A023RGZ8 E P V H K L V S A S V I T P T A L E A D A L D T A L M V M G P E Q A M A F A T E R
UniRef90_I7ZC99 Y P L N P P A A V S V V H P C M L A D G L A T A L M V L G L Q D G M A F A E R
UniRef90_A8U110 Y P S S G I V S S V S V F S A S A E L A D A L A T S I F V M G I D V G L D F I N Q
UniRef90_S2DWZ7 R P V H G L L S A T V I A N D C C M A D A Y A T A M M V M G T E K S A I A F Q K S
UniRef90_K1L1N9 R P V R H G L S A T V I A D D C M T A D A L A T A L M V M G T E K S A I E L Q K K
UniRef90_R6BNS0 Y P A D S G L T V T I V S A D G T L A D G L S T S L F V M G K E K A V A Y W R A
UniRef90_B4WXA6 K S I D G L A S V T V L C D N S I D A D A L S T S V F V L G A E K G L A L I N R G
UniRef90_R6MH94 Y P E N D L L G V S I V C D N S T E A D A L S T T C F A M G L D D G L K Y I E G
UniRef90_UPI00030102A1 Y P A I G T I S S V T V I G P S A E M A N G F S T S T M V L G A T K G L A L M H K
UniRef90_UPI0004668D64 Y P D N E L S G V T I I S S K S I N C D A D A L S T S V F G L G L E K K L L I N N
UniRef90_K7A117 Y P I H N L V S S V T V V H A S S M T A D G L A T A L N V M G A E K A K E L A N Q
UniRef90_E4RPW6 H P A R T G L S A T I I T E T S L D A D A L S T I A F I K G L E D G M K F V I E D
UniRef90_G5G10 Y P D N G V L G V S I V C K K S I D A D A L S T T C F S L G A E K G L E L L D S
UniRef90_K8FDS8 Y P D N D I A G V S I V S K K S I D G D G L S T A T F S K G V K G G M D Y I E Q
UniRef90_UPI00036BDEC5 Y P S E S G L T V T V V G P R A I T D A L S T A A F V M G L E A G M K L M E E
UniRef90_F4DFS7 Q P V H K L V S A S V I T P T L E A D A L D T A L M V M G P E A G M A F A K Q
UniRef90_D7NAD7 Y P V Q H S L S A S V L A H S C A E A D G Y A T A F M V L G I E K S K A V L D K
UniRef90_R2R480 Y P D N D I A G V T I V S K K S I D G D G L S T A V F S M G V K D G L K Y V I E
UniRef90_UPI00046689CF C P A N N G K S S V S E D G T L A D G L S T S L F I M G K D Q A V D F W R K
UniRef90_UPI00047D615F Y P K T E I A G V S I V A Q S E T D A D A L S T L I F I T K G L E G L K L V E D
UniRef90_A0A021W760 R P A N E V A S V T V A H A Q C M H A D A L A T A L S V L G P H A G L A Y A N R

UniRef90_S6FB06 Q Q L A V Y L I 290 T E T G F V K M S S A F K Q L I
UniRef90_R5Q3T7 N T E I M A Y F I Y S D D S G K V W Y S S D T I R Q
UniRef90_I2JM22 M A I P Q V Y L I E K S D D A G F A R Y S S E E F A P Y L E Q
UniRef90_L1N1V2 H P R I Q A Y L I Y T D P Q G G K V W F S S P A L K
UniRef90_UPI0004129A82 M D G V E A V F I D K E H G V H L S D G L K
UniRef90_R9BT78 L D G I N A I F V T K D N K V Y L T D G I R D L F K
UniRef90_J9GR90 H P E L M A Y F I C D G P G Y E V H Y T E G M K R Y I
UniRef90_UPI0004633344 I P G V E A L V V T E E K K I Y A T S G M S K M F R
UniRef90_R4KJV0 L D G V E A I F V T N D D K V Y L S S Q G L K
UniRef90_F4LQM4 Q K N I E A V F V T G D Y K V Y A S S G I N K Y
UniRef90_UPI0004778980 L D G V E A I L V T E E N E I Y I T D N L K K
UniRef90_D0LJG3 L P G V E A V F V D A D N R V H V S S G L Q
UniRef90_D9QV33 D D S I E G M L I T T D L N K W Q S E G F K K L I
UniRef90_W0E61 Q Q G G I E A V F I T K D K K I Y V T E G L K
UniRef90_T0P7V2 Q P G V E A I F V S K D D Y N L Y L T E G L K
UniRef90_UPI0000E117E7 R E N L A L L L V F K E S G D G F L E Y S P A F Q Q
UniRef90_C1DR08 R G I A A F L V I R D G Q A F V T K S T A T F D R
UniRef90_F3PPI3 H P D I D A C F I Y S D E K G Q S Y F T K G M K K Y
UniRef90_D1W3R2 D P D L M V Y L I Y T N A D G R V W F S P S L K
UniRef90_UPI00028972B0 L E N I D A I F I T K D N E I Y L S D G L K
UniRef90_I8U744 H Q L E A V L L I V K T D D Q G F E E Y S E A F L P F L
UniRef90_L8JZD4 L P G V E A C I I L D D Q G N I Q T S D N V K L E K Q
UniRef90_G2E3G5 A Q G L A A Y F I V R D T N D R G F G S P A F E S I M Q R
UniRef90_X5E1K2 V P G M E I Y F I Y A D E N G E V Y M S E G F E E M L R K
UniRef90_R6CCK1 H P D L C A Y L I Y A D E K G K I W Y S P S L K
UniRef90_E6U4G2 S P G A E G V V I T E E K K V F I T K G I K
UniRef90_S5AJL2 E Q L A V F L I R R T D D G G E Y A S P E F D K
UniRef90_W9T9L7 E A I A A F F V I R E G Q G F V T K S
UniRef90_R6R855 M D G V I Y A C F I D E D Y Q I H Y S D G M E K F L R K
UniRef90_UPI0003077B5F D P D V E A I F I L T I E H D V Y C T S G I K K
UniRef90_I3CG31 E K I A V F L V V K E K N G E V E K S S T F A T Y L Q
UniRef90_D5ECH9 I E G V E A L V V T K E K K I Y G T A G M D D F F K
UniRef90_R5YH93 S N D F E A V F I T D D G T V Y I T E G L K
UniRef90_C6J7F6 L N D G T E A M F I T K D N K I Y V T S G I K
UniRef90_UPI00025571C2 A G I A A F F V T R G A N G F V T H S S P A F E Q
UniRef90_B5YE61 F A D L G V I I V F K D R K I W Y S P N I
UniRef90_D6GRB9 L P N R V E A V F I D S E N N I Y L S N G L K R F E
UniRef90_R6SNT0 L P D V Q A V F I T D D Y E M H Y S D G F E E E I K
UniRef90_N9U1N8 H R L A A F L V I K T P Q G F A R H T P E F D P Y L A K
UniRef90_V9W0B2 L K G V E A V F I T K D K K V Y T T S G M K L
UniRef90_H1PX30 D K K M K V L V V D K D M N I L K T K N L D F F K K
UniRef90_A1SSY9 Y N L A V Y L I V K E G D N E Y T S E F I P F F I E E
UniRef90_R6SI46 H P E L D A Y F I Y S D E G Q K T F F T E G M K K Y I K K
UniRef90_Q67R06 R G V E G L L V S D A G E V R M T P G M
UniRef90_U1S7L6 E N L P I F M I I K K D K G R T E M S S A F K T L L E Q
UniRef90_UPI00047C148D L P N V E C I L I D E E G T V F K S K N I K
UniRef90_I5AYC8 L E N T E C L I I R Q E G R A L R S S G F K F I N K
UniRef90_UPI00030B6A2E M E G A E A I F V T R D R E I L L T A G L
UniRef90_A7HLP9 F P K Y G A E V F L V Y Q E K T
UniRef90_A0A037ZDB5 L K G V D A I F I A K D K K I Y T T S G L K
UniRef90_R5F9M6 H P E L M V Y L I Y T D K Q G K V W Y S P S L K
UniRef90_R6FVB2 H P E L M A Y L I Y S D D K G Q V W Y S P S M E D K I Q K
UniRef90_C4SZ68 K G L A V Y L I T K T D K G F A V M T P Q F K A F L R K
UniRef90_UPI00037DDE87 E H L A V Y L I T K E K D G K I T M T P Q F K A Y L R K
UniRef90_B9NVH5 N K L A V F F I S R D V T N G E E A Y I
UniRef90_C7R8K4 Y Q L P V L V I E R Q N D E L V T H A N N L F E K
UniRef90_U2CQ59 L P G I E C A V I T T D N K L Y T S S G F K K R L T D
UniRef90_K5YEW4 H R I A A F F V I R E G Q G F V T K T D G F E Q
UniRef90_D4M5Q1 M D N I E A V F I T D D N M I Y K S S
UniRef90_R9JE45 M E D T E A L F F T S D G N I H S S S G L K
UniRef90_UPI0003735254 H G L A A L I L A R G P A G E E R L S S P A L S A M L
UniRef90_E8SR78 E K L A V F L I V R D K D G R T A M S S E F A K L L R
UniRef90_UPI0003B5CA94 I D Q V E C L I I K K Q G E A F R S D G F R N F E Q
UniRef90_A0A058ZNT7 N N L A V Y F I S R A P A G S E F V T R A S S A F E K
UniRef90_A6FIV5 K K L A V Y M I Y K S D D F K E V Y T E T F S P F F Q K
UniRef90_B2A695 L D D V E A I I V D D N G E Y H M T S G L E
UniRef90_G1W8Z5 H Q E L M A Y F I Y V G P D G K V W F S P S L E
UniRef90_R7R0E9 L P D T E A I F I T S D G E L H T S S G I
UniRef90_E2ZBR8 I P G V E A M I T T T D G K I Y M T D G F K
UniRef90_R6IC53 I V N Q I E Y F I I Y A D N N G K V T Y S K G M L E Y L
UniRef90_R5T2G5 H R G E F Q M I L F R N D N T L I I T P D L Q K
UniRef90_A0A023RGZ8 H K L A V Y L I E K T D N G A F A R H T P E F A P Y L
UniRef90_I7ZC99 E N L V A A L F V M R N G A E Y A S T A W S R L L E
UniRef90_A8U110 L K D I D C I I V D N K G K V F Y S K N V K K
UniRef90_S2DWZ7 L N D L E I F L I Y N N D G E L Y A S E G I K P Y L
UniRef90_K1L1N9 H G G F E I L F L I Y N D G A G N L F V S E G L K A Y L
UniRef90_R6BNS0 H S E E F D A I L V E K D G T V S V T E N I
UniRef90_B4WXA6 L P E T S A I I I N R E G N V T Y S N D L
UniRef90_R6MH94 I K G A E A L F I T D D Y E I H Y S S G F P K
UniRef90_UPI00030102A1 F P E Y S C V I V T D K G M V I K S G N F K G R L K K
UniRef90_UPI0004668D64 L D D V D A I F I L T K D K K I Y L S N G A K
UniRef90_K7A117 R N D L A V F M I M K Q G D D F I E Y S P M F I R D I Q Q
UniRef90_E4RPW6 I E D V E V M F I T E E L D V Y I S S G L N
UniRef90_G5GGI0 I P D A Y G F F I L D D Y S I K Y S K G
UniRef90_K8FDS8 F E G V D A I F I S K E K K V Y E T S G L K
UniRef90_UPI00036BDEC5 L P G Y E A I I A T G D D R I I L T P G V D R F E R
UniRef90_F4DFS7 H P Q L A V Y L I Y K T E Q G K A E Y T P Q E A P Y L A E
UniRef90_D7NAD7 H P E L M A Y F I Y A D K D G K V W Y S P S L E K
UniRef90_R2R480 L K D T E A I F V T R D D K V Y V T S G L K
UniRef90_UPI00046689CF H N D E F D M I L V D D N S T I Y V S E G I
UniRef90_UPI00047D615F L E N V D A V F I L T K E K K V Y T T K G L K
UniRef90_A0A021W760 K H L A A L F V L R D G D S F V T R T P A F V A L Q R

UniRef90_UPI0004633A3C 1 I S E T M K L M G S R F D I T I V A E E S T A K K N I A D A V A E I S R I V 40
UniRef90_K4MBJ9 Y T S T R S I L M D S T T V T V T V L V G S E E I K A H E S I I A N E A F A G R E I I E Q D E I N
UniRef90_GOLCH8 EL M G S T R V F D I T S V V G S A N E N D L G Y L I D E E S F A E K L A H I Q V I D D
UniRef90_U5MLA2 K Y Y E K S N L V M D T V R V T L T S A Y G E N S K E A V E E S F K K L A H I Q V I D D
UniRef90_A9A0B7 T F S G K T M G T T E Y H V T V V T G M L S R T A L Q K K V E A R L A H I Q V I D D
UniRef90_E4PF36 E W Y R F S D T A M T T P I E L E F W A D D D E L A M N R V G K E V L A V F H Q R I D D
UniRef90_D4CVZ5 E K I E E S K F L F G T Y I K L L V V Y S D K E K A F N E I H Q R I D D
UniRef90_B3PEL9 W H G D T Q D I L M G T R V S A V L W H D D P Q A E A A L A A V M E E M R R I D D
UniRef90_R2RCC4 E P Y S D Q Q S L L F G T Y V V Q V L R I N G D D G K A E D S V L E K A F A R V M K E I D D
UniRef90_K4KSM9 H Y Q E T R R F L F D T E V S V L E V I N G W G A K E S I G L Q A L N R M K E I D D
UniRef90_UPI0004664003 E P V S K T E M F M G T T V I K V T L Y D H Q S D S E V M D K V F D K L K A E I D D
UniRef90_B4W8I3 R L L S L I G G P T M G T T Y W S A R V I V G P P G L S E A A Q A A V I E E K S L F A E L V
UniRef90_F4KPW8 Y L N I Q E G Q T M G T Y Y R I T Y R D E Q E R D I Q Q A I I E E K S L F A E L V
UniRef90_UPI0003B6A6F8 E M S G L T M G T S Y N I V A V D H N V D Q A E L Q A A I D N S L L A E L V
UniRef90_S3JPD3 R T V F A L G T V C S L Q L F T E K A P Q A E A V L Q T C L Q R R L L A E L V
UniRef90_M4S3M0 R V I A L G G R T M G T S W S A R I A A R A A L P P E D A G P A L Q A L L E D R I V
UniRef90_K1YC20 R L F K E S R T A L Y T M V S I T V S S S E E K A R K A I N E A Y E E L E R L V
UniRef90_UPI000368912B H V H A L T G R T M G T S W S V R L A G D P E R M P L D A L R A I Q A R E L D D A V
UniRef90_UPI0003775AA0 I E L T G P T M G T Y A V K V V Q P A A D T A A L R A G V E Q V L A A V
UniRef90_UPI00037A164C Q K F S T S L Q L M G N R F T I T V I V S S P D P A E T Q I Q I A I T E I L Q A R I V
UniRef90_UPI00041301EF T L Q G D L F G T F Y R V I T A D P A E R R D A L E Q G I L D E L L A E V
UniRef90_E1VCF1 Q A Y S M D T Y A M G S Y M N V A I Y S D E V V E D G V F D E I E S T I H A I D
UniRef90_T4VHH5 Q F G G P T M G S S Y S V K Y V A S G P S V E Q A R G E V I R G L L A E I D
UniRef90_UPI00047ED489 Y Q V N E P I O O 4 7 E D 4 8 9 Y Q V N E P I O O 4 7 E D 4 8 9 Y Q V N E P I O O 4 7 E D 4 8 9
UniRef90_UPI0003B300EE Q W F R R E E A I M G T A I T A E L W A D S A Q A Q E A L G L V M D E M H R I D
UniRef90_A5ZA68 Q K Y T S E L F A M D T Y M E I T A Y G S E N A K E A V A K A S A R I N E L D
UniRef90_R7LJB9 T A E G P L F G T Y Y H I K Y E A S E P L D S V I L A E L K K V D
UniRef90_R5DHP5 K E Q T R E V F A M D T Y M T L K A Y G K N A G K A L D A S V K E I E R I D
UniRef90_G7LY20 R S G Y V L G T L N L T R A Y G N A P E A A I D E A F E K L N D I D
UniRef90_X8K4B7 Q K S G F Y L D T V C N L R T Y I G N S E E N A S K V I E D A Y K L C K Y E
UniRef90_D9SQK0 Y E S K E I Y V L G T I I Q L K A N G R K A K D A I E E A V K K L Y Q I D
UniRef90_I4XQUO S F G G P T M G S T Y S I K A Y A G L A P N E V Q A Q V E Q I L A S D I D
UniRef90_Q896H7 K V I T K E N Y L L D T L I Q L K A Y G K N S E K A T N E A M D A I L A S D I D
UniRef90_COQLJ0 K K H T L M G K T M G T T Y A I T V M A D S I I D E Q L K Q R T D A R L E A M V N D
UniRef90_W4AJJ8 T E R Y F I F D T I V S L R V I D E R M T S H F D E V R G L E Q I D
UniRef90_R6M7G6 K K V S K D I F A M D T Y M T V T A Y G K N A E N G V N K A V D E I N R L E
UniRef90_K2MKT0 I E I S G A T M G T T Y N V T A V D Q K L G T S D L R Q M V E A A L A E V N D
UniRef90_U7UAS8 Q S Y D K S G L A M D T T I S L R A S G K E A K D A V E E S Y A K E I E E L D
UniRef90_G5GA01 W Y S D S R P I M G T N I R T E I W A E S P T G L A A V E A V M T E M E R I N
UniRef90_K6YBP8 E P V S K S D F K L N T V V T V T I Y D S E E K D A E E I I D K A L K L C K Y E
UniRef90_R5QYZ8 E P I S K T A F K L N T V V T L K I Y D S K D E T L L D A L A I C D K Y E
UniRef90_R6PK05 L Q G H T M G T I W R V L S L A G D P A R Q K T L Q N A I Q Q R L D N D D
UniRef90_V5ZA27 Y T Q D V F A M D T Y M S L T A Y G A G A K K S V E D A V T E I N R L D
UniRef90_R7I3Z7 Q E L Y L E G K T M G T Y S H I K V I F A E P S K L E D L H P E I K Q V L K E V N
UniRef90_Z5XUX3 R I S L I T G Q T M G T S Y Q I S Y L D P K G R D L K S S V D S L L V F N
UniRef90_UPI00045E7208 R E F R K P Q K L M G N A F E I T V V D N H E N A Y Q H I E A V D E I V O R I E
UniRef90_D7W3H8 L E G K T M G T F W R V S L A G D S T R G A A L Q Q T I Q Q Q L D E D D
UniRef90_UPI000344D081 R Y I H N E G Q T Q G T T Y S I I Y Q Q P Q E T D L Q E K I E K R L Y E F D
UniRef90_UPI00036B1173 Y Q H N K G M I F G T T Y S I V Y Q Y D R D L Q A G T L D Q L Q Q V D
UniRef90_R6WZ22 L S G P T M G T T W S V K Y T G P D E S V E A L K E D I E A A L E Q V N
UniRef90_U7FUF4 L S G P T M G T Y Y S L T L P G G Y P G A P A L K R E I D T L L G R M N
UniRef90_R1F300 E L S G L T M G T G Y S I V A V D H N I D R A E L S A A V D A S F S D V I
UniRef90_I1ATH5 L Q G K T M G T T F N I K V F V P Q Q Q L P Q L N A Q D V T E E L K K V N
UniRef90_UPI000347DBCA L E G K T M G T T Y H I K Y Y D E Q E S A L Q I Q E Q I D A V L V D V N
UniRef90_G7FQA5 F A M D T Y M T V K A Y G P N G D A A V E A A V D E I T R L D
UniRef90_D4J7K5 F C M G T I T S Q K I Y G E D K K E V L F K V E N E M R I E
UniRef90_F0K477 F K V T R N L M M T P I T I T I T D E T Y A Y E S I E R A F D K I E R I E
UniRef90_F7XPG8 K K T E R E I F A M D T I M N L T F Y G E N G E Q A M T A A V S E I Q Q L E
UniRef90_R7C721 T R S D F L L D T F V S I T L Y G E S D E S L L D G P F E R I E A L N
UniRef90_H6LDL2 E P I T K S S F M L N T F V I T L Y D T D D P D I L N G S L E L C R S Y E
UniRef90_D3AJA9 S Q S E F I L G T V C S V S L Y D R G R Q S V Y R E I F D R L R E I E
UniRef90_UPI0004744D7A F K R E L G L M G S N F D I T I A D S K K E A E N Y I D L A V V E M Q R I E
UniRef90_UPI0004744D7A E P I T A T A F K L N T V V F D I T I A D S Q D E K I L Q D A L A L C K Y E
UniRef90_R6ELI8 L H T A V T L Q I F H E G S E A E A A M T E A Y D Y M D R M E
UniRef90_W1Q651 R Y D F N G A V M G T R Y R A L F Y S P A T D D R E A L A Q Q L E L A V T Q V D
UniRef90_M4WZJ5 R V S G P T M G S T Y S I Q Y A A Q T P D D S Q R V K A E V E T I L G A L D
UniRef90_J3H1Y5 Y Q S I S G Q T M G T Y N V K I R T R K E D N M L P Q K I R Q R L D E L N
UniRef90_R6J5S1 K W H S D A Q D V M G T R V S L T F W E D D A K A A I A L A A V M A E M H R I D
UniRef90_I3IFH8 G R T M G T S W S A R I V A S T P L D G I A A A L Q A L M D R V V
UniRef90_UPI000248A3F6 Q S S K L H T R L M G S D F E L I A T G T E A I A N R R L E E Q G V A E K R I E
UniRef90_C7PU53 E K L S V A G L Y F D T V I Q I D A W G V R T S V L E E C K E I C E T Y E
UniRef90_N2A829 R V S I S G S T M G T Y R V Y M D A Q E R D F K K E V D S L L V F N
UniRef90_U5C4N6 E P F E R T E F L M G T V V K V T I Y N Q D K Q E A L D A A F N R I E L A
UniRef90_I6Z657 T G T T M G I V Y N V T Y L D D Q N R D F K Q S I D S V L V A F N
UniRef90_F4BRG1 K R T T L L M G G R F D I S I V A K D S T A E Q N I N E V I A E I T R I E
UniRef90_A2A022 Q R Y S L N G E T M G S T R Y T L F Y A G A G M D T D E L G Q Q L A R A V A R V D
UniRef90_A5FCI5 K R T T L M G S R W Q I T L V A D S I T A E Q N I D T C I A E V S R I E
UniRef90_A5W413 Q I Y N D T R S I L M D T I V T I K V V D D S T H A R M A I D N A F E K V H Y V D
UniRef90_H1YG35 Q I Y N D T R S I L M D T I V T I K V V D D S T H A R M A I D N A F E K V H Y V D
UniRef90_L0KX74 Q I Y N D T R S I L M D T I V T I K V V D D S T H A R M A I D N A F E K V H Y V D
UniRef90_R5YMT5 E Q I T L S G K T M G T T Y T V T K Y I L N G S E S P E K M K N E L D G L L E V N
UniRef90_S5FBV6 E V I K L S G A T M G T T F N I V A N G R R V E K A A L E A A V H S A L A D V N
UniRef90_UPI0002559366 Q T E Y V L G T V C L N L F T D K G S S E L Y R T L F G T R L R E I E
UniRef90_F8EWX7 Q K Y T N T D F A M D T V V S E T L Y T G D D L N T A I G F Q K R I E
UniRef90_R7D5G9 V H T L Q G K T M G T S W S V K L A A D A A R R L P L Q E L I Q H Q L D T V I
UniRef90_A4GAG1 Y Q Q N E G I F N T I Y H I T Y Q Y D S D L Q A E S E D E L H D E F D
UniRef90_R7DG53 K Y Y E K S N I V M D T A V T L S A F G P N A K E A V D E S F K R L D E I E
UniRef90_M1MN74 E P Q A K S L L L L G T V C K V T I Y D N P S E E A F A A A F A R L S E I E
UniRef90_G8QRE2

UniRef90_UPI0004633A3C
UniRef90_K4MBJ9
UniRef90_GOLCH8
UniRef90_U5MLA2
UniRef90_A9A0B7
UniRef90_E4PF36
UniRef90_D4CVZ5
UniRef90_B3PEL9
UniRef90_R2RCC4
UniRef90_K4KSM9
UniRef90_UPI0004664003
UniRef90_B4W8I3
UniRef90_U4KPMW8
UniRef90_UPI0003B6A6F8
UniRef90_S3JPD3
UniRef90_M4S3M0
UniRef90_K1YC20
UniRef90_UPI000368912B
UniRef90_UPI0003775AA0
UniRef90_UPI00037A164C
UniRef90_UPI00041301EF
UniRef90_E1VCF1
UniRef90_T4VHH5
UniRef90_S6AHU3
UniRef90_UPI00047ED489
UniRef90_UPI0003B300EE
UniRef90_A5ZA68
UniRef90_R7LJB9
UniRef90_R5DHP5
UniRef90_G7LY20
UniRef90_X8K4B7
UniRef90_D9SQQ0
UniRef90_I4XQU0
UniRef90_Q896H7
UniRef90_C0QLJ0
UniRef90_W4AJI8
UniRef90_R6M7G6
UniRef90_K2MKT0
UniRef90_U7UAS8
UniRef90_G5GA01
UniRef90_K6YBP8
UniRef90_R5QYZ8
UniRef90_R6PK05
UniRef90_V5ZA27
UniRef90_R7I3Z7
UniRef90_Z5XUX3
UniRef90_UPI00045E7208
UniRef90_A3ZZD9
UniRef90_D7W3H8
UniRef90_UPI000344D081
UniRef90_E4T2Y8
UniRef90_UPI00036B1173
UniRef90_R6WZ22
UniRef90_U7FUF4
UniRef90_R1F300
UniRef90_I1ATH5
UniRef90_UPI000347DBCA
UniRef90_G7FQA5
UniRef90_D4J7K5
UniRef90_F0K477
UniRef90_F7XPG8
UniRef90_R7C721
UniRef90_H6LDL2
UniRef90_D3AJA9
UniRef90_UPI0004744D7A
UniRef90_K4IPX8
UniRef90_R6ELI8
UniRef90_W1Q651
UniRef90_M4WZJ5
UniRef90_J3H1Y5
UniRef90_R6J5S1
UniRef90_I3IFH8
UniRef90_UPI000248A3F6
UniRef90_C7PU53
UniRef90_N2A829
UniRef90_U5C4N6
UniRef90_I6Z657
UniRef90_F4BRG1
UniRef90_A2A022
UniRef90_A5FCI5
UniRef90_A5W413
UniRef90_H1YG35
UniRef90_L0KX74
UniRef90_R5YMT5
UniRef90_S5FBV6
UniRef90_UPI0002559366
UniRef90_F8EWX7
UniRef90_R7D5G9
UniRef90_A4GAG1
UniRef90_R7DG53
UniRef90_M1MN74
UniRef90_G8QRE2

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

UniRef90_UPI0004633A3C
UniRef90_K4MBJ9
UniRef90_G0LCH8
UniRef90_U5MLA2
UniRef90_A9A0B7
UniRef90_E4PF36
UniRef90_D4CVZ5
UniRef90_B3PEL9
UniRef90_R2RCC4
UniRef90_K4KSM9
UniRef90_UPI0004664003
UniRef90_B4W8I3
UniRef90_F4KPW8
UniRef90_UPI0003B6A6F8
UniRef90_S3JPD3
UniRef90_M4S3M0
UniRef90_K1YC20
UniRef90_UPI000368912B
UniRef90_UPI0003775AA0
UniRef90_UPI00037A164C
UniRef90_UPI00041301EF
UniRef90_E1VCF1
UniRef90_T4VHH5
UniRef90_S6AHU3
UniRef90_UPI00047ED489
UniRef90_UPI0003B300EE
UniRef90_A5ZA68
UniRef90_R7LJB9
UniRef90_R5DHP5
UniRef90_G7LY20
UniRef90_X8K4B7
UniRef90_D9SQK0
UniRef90_I4XQU0
UniRef90_Q896H7
UniRef90_C0QLJ0
UniRef90_W4AJ8
UniRef90_R6M7G6
UniRef90_K2MKT0
UniRef90_U7UAS8
UniRef90_G5GA01
UniRef90_K6YBP8
UniRef90_R5QYZ8
UniRef90_R6PK05
UniRef90_V5ZA27
UniRef90_R7I3Z7
UniRef90_Z5XUX3
UniRef90_UPI00045E7208
UniRef90_A3ZZD9
UniRef90_D7W3H8
UniRef90_UPI000344D081
UniRef90_E4T2Y8
UniRef90_UPI00036B1173
UniRef90_R6WZ22
UniRef90_U7FUF4
UniRef90_R1F300
UniRef90_I1ATH5
UniRef90_UPI000347DBCA
UniRef90_G7FQA5
UniRef90_D4J7K5
UniRef90_F0K477
UniRef90_F7XPG8
UniRef90_R7C721
UniRef90_H6LDL2
UniRef90_D3AJA9
UniRef90_UPI0004744D7A
UniRef90_K4IPX8
UniRef90_R6ELI8
UniRef90_W1Q651
UniRef90_M4WZJ5
UniRef90_J3H1Y5
UniRef90_R6J5S1
UniRef90_I3IFH8
UniRef90_UPI000248A3F6
UniRef90_C7PU53
UniRef90_N2A829
UniRef90_U5C4N6
UniRef90_I6Z657
UniRef90_F4BRG1
UniRef90_A2A022
UniRef90_A5FCI5
UniRef90_A5W413
UniRef90_H1YG35
UniRef90_L0KX74
UniRef90_R5YMT5
UniRef90_S5FBV6
UniRef90_UPI0002559366
UniRef90_F8EWX7
UniRef90_R7D5G9
UniRef90_A4GAG1
UniRef90_R7DG53
UniRef90_M1MN74
UniRef90_G8QRE2

130 140 150 160
K V G Y Q K I Q L D K E Q L T V F L P D E M K I G F G A L G K G Y A A D K A K E
L V N Y S A I V I E N N N I T V L L G E D M M L T S F G G A L A K G Y A A D K A K E
R V G E D K I I L D P E E S S V F L A E K K G M K L D F G G A I A K G Y A A D K A K E
L V G C D K I I N E E S S V F L A E K K G M A L L D F G G A I A K G Y A A D K A K E
C V G Y D S L Q I D E A N R R L V K K T P C L F L D D F A G S I A K G Y A V D V V A E
R V N F S R D V L D E D D Q T V E Y R Q A G I L D T G S F L A K G Y A I Y R A K E
F V D F S K V H L S E D D G T L T L E E P V K E I D L G G I A K G Y A V D R A I A
I N Y R Y V H L D K H S H K L W F E H P R V Y I D L G G I A K G Y A V D R A I A
L V D Y R K K L N D E E K T V Y L E E K G M Q L D L G A I A K G Y A V D R A I A
L V D Y R K V V L D Q E K K T V F A Q K G M V L D L G A I A K G Y A V D R A I A
L I D Y D K Q I N E Y T K E V Y L E E K G M M L D L G S I A K G Y A A D E A V R
L S G W R K L R L N R E A R A V M Q L G G M R L D D F S G I A K G Y A A D E A V R
L V G F S K L N W T R G L I R K Q V P G I K L D D F N A I A P G Y A V D R V S D R
C C G Q S D A L R V E G Q R L H K M R P E A E L V Y L S A I A K G Y A V D R V A S
H T D Y G R V Q L L T G T A R V F L K K P E R M K L D D L G A I A K G Y A A D E L T R D
A S G Y R R M A I D L H G R R A C Q P G D L A L D D F S G I A K G Y A V D M L A D
L V G Y K N I V V D P A S T V Y L K K A G V Q I L D L G G I I K G F A A D K A V E
R C G W R R L A L D H S A G R R A L Q P G E L R L V D D F S G I A K G Y A V D R V A G
L T G L Q H L R T I N S A G R Q Q W L Q P E L Y I D D L S A L G E G Y A A D R L A A
R V G Y G K L E L R A D P A L R K Q R G D I Y I D D L S A L G E G Y A A D R L A A
L I D Y T N I L N S E N Q T V F L K E K M R I G F G S G V A K G Y A A E M A K K A
E V G M D T L E L D N E N R A R R L K D V F V D D L S A I A K G Y A A D Q V A A
H I D D S V L L D E K R S S V K A K E G M M I D L G A I A K G Y A A D K V K D
V V G Q Q H L T V R G G L C K D A P V Q L D D F N S I A A K G Y A V D R V V A
Q F V G M D F V T I Q D G V I V K N P G V M L D D G S A I A A K G Y V D V V A S
A I G W R G L L L D R A G T L R F A R P G M R I D L G G F A K G H A V D N A I A
N I N E S K I K Y D S K T R V A K L D K K M K D D F G G I A K G Y T S S E V M K
F V G Y Q R I E L T R S L L K K A D S R R M I D C G G A I A K G Y S V D C V A R
N M D A D K I I C D E K K G T V K L D Q K M K I D L G G I A K G Y T S G R V M E
L V N Y N D V I L E E S N S S I K L R Q E K Q L D D V L G G I A K G Y A A D K V R D
H V D Y R Q I K V N G N S S L S D P K G E I D L G G I A K G Y A A D K L A R E
L I N Y Q D V L D D K E K T V I L R N R N Q R L D L G A I A K G Y A A D V I R D
R V G Y T H L R I E G D L C K K D A A V E I D D F N S I A A G Y A V D R L A A E
L I N Y E N V L I D E K N K S I K L K S P K E I D L G G I A A K G F A G D K A R E
Q T G F N R I D I Q G K L S S K K S D S V T L L D L G S I A K G F G V D A V A
K I D Y K N V T L E P S S H I M L K K K G M S L D D L G A I A K G Y A A D V I A D
D V D S S K L I F D E K S G N I K L R Q E K Q L D D L G G I A K G Y T S S R V M Q
S A G Q E K T L Q I G A E T L R K T R P A A E I Y L S A I A K G Y A V D R V A R K
L V N Y H D I L L R P E N S V K L A K K G M Y I D L G G I A K G Y A V D E V A R K
L V G F S K V N L D G T V V K K T D P R V M L D C G G A I A K G F A V D C V A R
A I N Y R H V V L N E E D K T I K F K H P K K I D L G G I A K G H A V D N A L A
E L V N Y E N V T L E G D Q L R F A K E D G M G L E L F G A I A K G Y I A D K V K E
I T G L S H L Q V V N R A G Q Q K D L P E L Y V D D L S T V A G E G F A T D H L A R E
Y V N Q S K L I E F S E E D G A I T L G K G Q K Q L D D F S G I A K G F T S N R I A M E
K I G V D K L I Q L S D A G L I K T V D G L E L D D F S A T A K G Y G I D K V A Q
L V G F D K V V F D E K Q V S K T V T G L Y L D D F S A I A K G Q G V D V A D
N V G D A K L E V R L D P A L K K S R D A L Y L D D L S A I A K G Y A V D Q L A Q
L V N Y E N I L L N P E D Q T V F L K E K M R I D G F G G I A K G Y A A E M A K R
L T G L I Q H L K V I J Q T G E Q Q W L Q K D L Y V D L S T M G E G F A T D H L A R
F V G Y H K V K L D N H S V I K T D S R L L D N A N A I A K G Q S S D I I L G R
I V D Y K N I A I D G S V S L K K T G M S L D N L G A I A K G Y A V D Q A I G
I V G Y E K V K L S G R H V V K Q D A R T M L D C S A I A K G Y G C D V V A R
R V G W A K L L S L S G N Q L L Q P G N V Y V D D L S S I A K G F A V D K I A G
R V G D K L S L T R N Q G L L H K A I P D L Y L D D L S T L G E G A A D A I A Q
C C G Q G R S L E V Q G A A L R K L R P E T E I Y V S A I A K G G H G I D R V A Q
N I G V D K L V L S E Q Q L A K T V D G L E L S F S A T A K G Y G I D K V A E
A N I G V D K L V L S E Q Q L A K T V D G L E L S F S A T A K G Y G I D K V A Q
L A D P S L I D Y D K E T T V S F K K D G V Q I D L G G I A K G Y T S S R I M D
L V N Y K N V L N D Y K R T V S K L V E A D M K V D L G G I A K G Y A A D R A I D
L V D Y S S I E I E G N S I K I N P A M S I V L G G I A K G Y A V D M A I E
K K I D Y K K I E L L S D Y Q V R I P S G M A I D L G A A A K G Y L S Q K T I D
T D Y T K V L N P D D Q S V Y L T D A G M S I N L G A I A K G Y I A D E V M Q
K V N W K N L E L N G N T L T F G S P D T A I D L G A I A K G Y I A D R M K D
L V N W K D I V I D E T A S T V F L K Q P M G L D L G A I A K G Y A A D E A V R
A I G Y K N I K L D E K N S T V F T Q K G M K L G F G A I A K G Y A A D K A K S
H V G Y E K V E L K G N K I V F Q E D G M G L E L G G I A K G Y I A D G I R N
K I D Y H K I T L D E A A Q T V R E E E G M A L L E L G G I A S K G Y I A D G I R N
S S A A A L E F D F E G G R V R K H P V Q L D D L S G I A K G Y A V D Q L A R
R V G H Q H L R D G E K L C K D V A A Q L D D F S M V A G Y A V D R L G D
Y T G F D K L K F D G Y S R V K K S N D N T Y I N L S A I A K G Y A V D R I A K
A N Y R L I H L D K Q A R T W F E H P Q L Y I D L G S I A K G Y A V D R G I A
N A G H G R I E L D P H A R R A R Q P G G V A D L S G I A K G Y S V D R L A D
C T G F Q H I A L L D H Y C V Q L K R A G M H I D F G A I A K G Y A A D R V K A
H V D Y K S V L I D E E A C T T L Q D P Q A K I D D L S A I A K G Y A A D R L K E
L V D Y N S I V F D S N R V I K R K P G M Y L D D F S A V A K G Y A V D V V A E
T V G H R H L Q V V G E Q L C K D A A V E V D D F N S I A A G Y A V D L V A Q
L V E Y S K V K F D D E A Q T V Y L P E E M R L D L G A I A K G F A V D E V V E
F V G F D K Y L K F D E A Q K Q K N K P G V V L D D F S A I A K G Y A V D V I G E
K V G Y K N I L L D S V I Q S T I F L K K G M K I G F G A L G E G Y A T D K C R T
L L A S G A L I E V E P Q R N Q V R K R V P L S L D L S G I A K G F A V D E L A R
K V G Y K N I L L D S V N S T I F L K K G M K I G F G A L G E G Y A A D K L A R
L V N A S N I T I K G N D I F L E E G M K I T L G G I A K G Y A L D L A I D
H V N Y E N I S V N S S T V T L A D P E A K I D L G S I A K G F V A D K I K S
Y V G D K I L L E M S S K P K K S A N L Y L D L S S I A K G F A V D K L A E
T S G Q E R V L T L S G D R L H K S V D G A E I Y L S A I A K G H G V D R V A E
L I N W K D V V L D V Q A K T V F K P G M A L D L G A I A K G Y A A D E M A R
N V G Y Q K V S L D G K K V T L E K G A T L D L G A T G K G C D V V S D
Q C G W Q R I Q L D K A A H R V L Q P G N A T I D L S A I A K G F S V D Q I A R
F V G M D K I S L D N G S V I K Q D P R M S I N F S A I A K G Y A V D V V A E
L V G Y E R V L M D S A T H S L L A D K N M V L D L G G I A K G Y A A D E V A K

UniRef90_UPI0004633A3C
UniRef90_K4MBJ9
UniRef90_G0LCH8
UniRef90_U5MLA2
UniRef90_A9A0B7
UniRef90_E4PF36
UniRef90_D4CVZ5
UniRef90_B3PEL9
UniRef90_R2RCC4
UniRef90_K4KSM9
UniRef90_UPI0004664003
UniRef90_B4W8I3
UniRef90_F4KPW8
UniRef90_UPI0003B6A6F8
UniRef90_S3JPD3
UniRef90_M4S3M0
UniRef90_K1YC20
UniRef90_UPI000368912B
UniRef90_UPI0003775AA0
UniRef90_UPI00037A164C
UniRef90_UPI00041301EF
UniRef90_E1VCF1
UniRef90_T4VHH5
UniRef90_S6AHU3
UniRef90_UPI00047ED489
UniRef90_UPI0003B300EE
UniRef90_A5ZA68
UniRef90_R7LJB9
UniRef90_R5DHP5
UniRef90_G7LY20
UniRef90_X8K4B7
UniRef90_D9SQK0
UniRef90_I4XQU0
UniRef90_Q896H7
UniRef90_C0QLJ0
UniRef90_W4AJJ8
UniRef90_R6M7G6
UniRef90_K2MKT0
UniRef90_U7UAS8
UniRef90_G5GA01
UniRef90_K6YBP8
UniRef90_R5QYZ8
UniRef90_R6PK05
UniRef90_V5ZA27
UniRef90_R7I3Z7
UniRef90_Z5XUX3
UniRef90_UPI00045E7208
UniRef90_A3ZZD9
UniRef90_D7W3H8
UniRef90_UPI000344D081
UniRef90_E4T2Y8
UniRef90_UPI00036B1173
UniRef90_R6WZ22
UniRef90_U7FUF4
UniRef90_R1F300
UniRef90_I1ATH5
UniRef90_UPI000347DBCA
UniRef90_G7FQA5
UniRef90_D4J7K5
UniRef90_F0K477
UniRef90_F7XPG8
UniRef90_R7C721
UniRef90_H6LDL2
UniRef90_D3AJA9
UniRef90_UPI0004744D7A
UniRef90_K4IPX8
UniRef90_R6ELI8
UniRef90_W1Q651
UniRef90_M4WZJ5
UniRef90_J3H1Y5
UniRef90_R6J5S1
UniRef90_I3IFH8
UniRef90_UPI000248A3F6
UniRef90_C7PU53
UniRef90_N2A829
UniRef90_U5C4N6
UniRef90_I6Z657
UniRef90_F4BRG1
UniRef90_A2A022
UniRef90_A5FCI5
UniRef90_A5W413
UniRef90_H1YG35
UniRef90_L0KX74
UniRef90_R5YMT5
UniRef90_S5FBV6
UniRef90_UPI0002559366
UniRef90_F8EWWX7
UniRef90_R7D5G9
UniRef90_A4GAG1
UniRef90_R7DG53
UniRef90_M1MN74
UniRef90_G8QRE2

210 220 230 240
R K V F S W L P L D D E S S I A T S G N Y E K Y L V F E G E K H S H I I L D P R T G
I H E A V V V M D Q D M A V A T S S G N Y E R Y F N F E S A R V S H I I S D P R T G
E K I F S W L P L V E S S V L A T S S G N Y E R Y V V F N D N K V K Y S H I I I D P R T G
E N I L G I I K L S N E A S V L A T S S G N Y E R Y F I K D N K R Y S H I I I D P R T G
D R V R Q V V A L S S D R A M A T S S G D Y E R N Y F V I D D R T Y S H I V L D P R T G
E G R N A V V L P E D V A V S G V S G D Y E R F F D E A G E R V H H I L S D K P E T G
P E M I G V V P L K D R A M G V S G D Y E Q T Y V E I D G G K M Y H H I L S D K P E T G
E E V I S L P L E N C A T S T S G D Y E R Y F D E Q G G E R V H H I I M N D P R T G
N T V I G T V Q E S N K T L V T S G I Y E R F L E V D G G K Y S H H I L F M D P R T G
K K V V G Y Q M Q N Q D I D T S G I Y E Q F F W A E G G K Y S H H I L M D P R T G
G N A L G S L E V K N K T V V T T S G I Y E R F I E K D G V K Y S H H I L N D P R T G
S P A P R T V A A Y D M A M A T S G D Y R R A F E H N G R L Y P H H I L D N D P R T G
S G D I Q T T V P L Q D Q A L A T S S G D Y R R A F Y S I K G E K Y S H H I L N D P R T G
R G V Q Q V V G V S G M G M A T S S G D Y R N F F D Y E G K R Y S H H I I D A T T G
Q Q G Q P L I P I E D C C A T S S G S Y E R R Y F F E Q D D G I R Y A H H I D D P R T G
P V P P A R I A L H G L A V A T S S G S Y E R R Y F F D H G G R R Y A H H S L D P R T G
D Q L L A T V D L A T Q G A V A T S S G D Y Q R F F E I E D G V R Y A H H L L N D P R T G
S A L T T V V A L H G L A V A T S S G D Y R Q A F E H E G V R Y A H H I L D D P R T G
R E A Q A I V D L N G H G I V S T S G S Y R N Y F E L D G K R I S H H V I D P R T G
Q A V Q R L V P V T D Q A V A T S S G D Y R N F F E A D G R R F S H H I I D D P R T G
E N A F S Y L E I E S N K A I A T S G N Y E R K F V T I K G K Y S H H I I D D P R T G
P Q A E H V L P L E I D S V A T S G D Y R N Y F E V D G G H R Y S H H T I D D P R T G
K D Y L G T L E I V D K S V V T S G I Y E R N F I Q D G K L Y H H I L D S K T G
D R A Q K T V Q L D G L G V S T S G D Y R N Y F E K N G G K R Y S H H I L D D P R T G
D P L Q M I V G L S G Q A V L A T S S G D Y R N F Y V K D G I K Y A H H T I D D P R T G
E G V V A V L P L E D V S I S T S G D Y E R F F E R D G V R H H H L L D D P R T G
E S Y L G V L E I E A G N A V I T S S G N Y E R Y F F E K D G K T Y A H H I D D P R T G
D D L Q T V L E L E N A A V L A T S G G Y H N F Y V R N G R K Y A H H T I D D P R T G
K S Y T G V L S L R N Q A A I T S S G G Y E R Y F E K N G G K K Y H H I I D D P R T G
P R G I G I L S V K D K S I V T S S G T Y E R S F V E G G K R F H H I M D V K T G
G G I V G V E A H D K S L V T S S G T Y E R S F V E G G K R F H H I L D V K T G
G K F V G I S V E D K S I V T S S G D Y E R Y F L V G G K R Y S H H I L N P L T G
D R A E R V I A V D G Y G V S T S G D Y R N F F Q R D G Q R Y S H H T E D A R T G
D R Y F G L R V S N K S V V S S G N Y E R F F I K D N K R Y S H H I L D D P R T G
G S T Q S T L Y R T D K A L A T S S G D Y R N F V T I D N R S Y S H H I L N P T T G
Q R G Q H T L E V V K K A I V T S G V Y E R F F E S E G N V Y H H I L S P F T G
S D Y I G V V S V V K D K A I V T S G G Y E R Y F E K N G K T Y H H I L D D P R T G
R G L Q A V V G V S D L G M A T S S G D Y R N Y F E K D G A R Y S H H I L D D P R T G
D R Y L G I V S V S D T Y V S T S G D Y R N F F E K D G I R Y A H H I L F D D P R T G
D E V L S V M H L Q E K A L A T S S G N Y R N F Y V K N G R R Y A H H T I D D P R T G
R D K Q A V V I P E N I A M S T S S G D Y E R Y F E E D G K R F H H I I S P Q S G G
D R S E T V E I I A G T S V V S S G I Y E R Y F E K D G K L Y H H I L D D P A T G
E R T I A A L E I I N D K S V V S S G I Y E R Y F E K D G N F Y H H I L D P K T G
R E V Q A T V D L Q G H G I S T S S G S Y E R N Y F E L D G K R I S H H V I D D P V T G
Q D M I G V V T V K N K A V I T S S G G Y E R Y F E E N G K K Y S H H I L D D T K N G
R K V H K V I E P G T N G I A T S S G D Y R F Y F E M D G V T Y S H H I L D P V T G
S D L Y S I I A L D D K G M A T S S G N Y R N F Y V Q D S V K I S H H T I D D P K T G
R A I Q E L V E I L S N Q S L A T S S G N Y E R K F H F V E D G Q K I Y S H H I D D P Q T G
K Q P F S Y M N I T D M A V A T S S G N Y E K F V M I N G K K Y S H H T I D D P K T G
Q Q V Q A V V D L Q G H G I S T S S G S Y R N Y Y E L D G K R I S H H V I D D P V S G G
D E A Q S V I L I S N G A V A T S S G N Y R K F Y L N G K K Y A H H E I D D P H T G
P E I I A S L D V R D K A V A T S S G D Y Q R Y F I K D K V R L H H I L N D P K D G
Q E L Q T T I D V A D K A M A T S S G N Y R N F Y Y K N G R K Y A H H T I D D P A T G
R E V E T V V A L K G D L A V A T S S G D Y R N F Y E S D G K L Y S H H T I D D P R T G
K P G A F I V M P K G M A V S T A S G S Y R N Y F E S D G V R Y S H H I I D D P A T G
R G V M Q V V S L S G M G M A T S S G D Y R N F F E Q D G V R Y S H H I I D A T T G
P I H R V I E P G S M G T A T S S G D Y R I F Y E M D G E T Y T H H I L D D P Q T G
R E V H R I L P G T M G I A T S S G D Y R I F Y E M D G E T Y T H H I L D D P V T G
D E Y L G V L E A K D K A I I T S S G G Y E R Y F E K D G M T Y H H I I D D P A T G
G E I I G A I S V K N K S V V T S S G S Y E R Y F E K D N I K Y H H I L D D P R T G
Q E F I T I N I H D M S V A T S S G N Y E R Y F S D D A R V S H H I A D P R T G
G S I Y G T V K V K D K A V I T S S G I Y Q R N F K K D G K L Y H H I I M D K R T G
P G Y L G V L S L K D G S V V T S S G D Y Q R Y F D A A G Q K Y H H I L D D P F T G
D R T I A T L D I D G M S V V S S G V Y E R H F V K D G V N Y H H I L D P R D G
G R Y F G I A E V E N K T L V T S S G V Y E R F F E S D G K R Y H H I L S T R D G
N K N Y G L V D L K N N A V V T S S G N Y E K F L L T D G G E R Y A H H I L D P R T G
D R N E T V A T I R N D R S V V S S G I Y E R Y F E K D G K L Y H H I L D P R K S G
G Q V V G T K R V I D G T V V T S S G I Y E R Y V E V D G V R Y H H I L D D P K T G
R T A L G V L Q M G D G A L A T S S G D Y R H F H E R D G K R Y A H H T M D P L R G
Q Q V E R A I A L D D G Y S V S T S S G D Y R N Y F E E G Q R Y S H H T F D P R V G
T P E T A F V A D R N A A V A T S S G D Y R N Y Y K D G K K Y S H H T I S P K S G
D A V A I S L P L D N G V A V A T S S G D Y R Y F I A D A G E R V H H I I N D P R T G
S V V P A R I A L H G L A V A T T G D Y R R Y F D H D G Q R Y A H H S I D P R S G
P Q Q I S W L P V N N A S V A T S S G N Y E Q Y V E R N G I R Y S H H I I D D P R K G
E Q P I D T V E I Q D R S V V S S G V Y Q R Y F E K D G N L Y H H I L D D P E T G
D D I F S I A L D N Q A M A T S S G N Y R N Y F E A D G I K I S H H T I L D P A T G
R V A Q R V I E L D G Y G V S T S S G D Y R N Y F E R D G K R Y S H H T L D P Q T G
T R I I G S L A L S D R S L V T S S G I Y E R F L E V D G V N Y H H I L M N P E T G
S S V F S A I Y L D N R A M A T S S G N Y E N F Y V K K G K Y A H H T I D D P V T G
P K L L A V V P L N Q G A V T T S S G S Y E K F V I F N G K R Y S H H I I N D P A T G
R E V I G V M A L S D M S I A T S S G D Y R Q W V D I A G Q R Y A H H T M N D P A T G
D T I I A I V P L R Q G A V V T S S G S Y E K F V V F N A G K R Y A H H I I N D P A T G
E Q V I T V V G V T D M A I A T S S G N Y E R Y F S E E A K V S H H I A D P R T G
E E Y S A L V K G S N L S L V T S S G S Y E R Y F K Q D G K L Y H H I L D D P K T G
Q A A Q I T V P L H N L A M A T S S G N Y R N Y F E Q D G N R L S H H I I D D P K Q L
R S L Y G V A D V S G L G M A T S S G D Y R N F F D E A D T R Y S H H I I D D P T T G
E R Y V G I L E I K N K T M V T S S G V Y E R F L L Q D G I R Y H H I L S T Q T G
D Y L G A I T L E G G E F L S V A T S S G D Y E K Y F M E D G K R Y H H I L D P K T G
A S I A T I A A L Y N L S V A T S S G D Y R N Y F E E G D T R F S H H T I D D P R S G
D E I S E L V A I C D G A M A T S S G N Y R N F R Y E N G K R V A H H I D D P V S G
E S N A F V K I S N E A L S T S S G D Y E R Y F I E N K R Y H H I I M D P K T G
D R Y V M I L S L V D Q S L V T S G P Y E R F F E Q D G K V Y H H I L D T K T G

UniRef90_UPI0004633A3C
UniRef90_K4MBJ9
UniRef90_G0LCH8
UniRef90_U5MLA2
UniRef90_A9A0B7
UniRef90_E4PF36
UniRef90_D4CVZ5
UniRef90_B3PEL9
UniRef90_R2RCC4
UniRef90_K4KSM9
UniRef90_UPI0004664003
UniRef90_B4W8I3
UniRef90_F4KPW8
UniRef90_UPI0003B6A6F8
UniRef90_S3JPD3
UniRef90_M4S3M0
UniRef90_K1YC20
UniRef90_UPI000368912B
UniRef90_UPI0003775AA0
UniRef90_UPI00037A164C
UniRef90_UPI00041301EF
UniRef90_E1VCF1
UniRef90_T4VHH5
UniRef90_S6AHU3
UniRef90_UPI00047ED489
UniRef90_UPI0003B300EE
UniRef90_A5ZA68
UniRef90_R7LJB9
UniRef90_R5DHP5
UniRef90_G7LY20
UniRef90_X8K4B7
UniRef90_D9SQK0
UniRef90_I4XQU0
UniRef90_Q896H7
UniRef90_C0QLJ0
UniRef90_W4AJ8
UniRef90_R6M7G6
UniRef90_K2MKT0
UniRef90_U7UAS8
UniRef90_G5GA01
UniRef90_K6YBP8
UniRef90_R5QYZ8
UniRef90_R6PK05
UniRef90_V5ZA27
UniRef90_R7I3Z7
UniRef90_Z5XUX3
UniRef90_UPI00045E7208
UniRef90_A3ZZD9
UniRef90_D7W3H8
UniRef90_UPI000344D081
UniRef90_E4T2Y8
UniRef90_UPI00036B1173
UniRef90_R6WZ22
UniRef90_U7FUF4
UniRef90_R1F300
UniRef90_I1ATH5
UniRef90_UPI000347DBCA
UniRef90_G7FQA5
UniRef90_D4J7K5
UniRef90_F0K477
UniRef90_F7XPG8
UniRef90_R7C721
UniRef90_H6LDL2
UniRef90_D3AJA9
UniRef90_UPI0004744D7A
UniRef90_K4IPX8
UniRef90_R6ELI8
UniRef90_W1Q651
UniRef90_M4WZJ5
UniRef90_J3H1Y5
UniRef90_R6J5S1
UniRef90_I3IFH8
UniRef90_UPI000248A3F6
UniRef90_C7PU53
UniRef90_N2A829
UniRef90_U5C4N6
UniRef90_I6Z657
UniRef90_F4BRG1
UniRef90_A2A022
UniRef90_A5FCI5
UniRef90_A5W413
UniRef90_H1YG35
UniRef90_L0KX74
UniRef90_R5YMT5
UniRef90_S5FBV6
UniRef90_UPI0002559366
UniRef90_F8EWX7
UniRef90_R7D5G9
UniRef90_A4GAG1
UniRef90_R7DG53
UniRef90_M1MN74
UniRef90_G8QRE2

Y P S K G I S S V S V F S K S A E L C D A L A T A V F I M G I D T G I S L I N Q
Q P S T Q G L I S A T V I T A S A M D A D A F A T A V F V I M G E Q E G V S E M I N E Q
Y P S T Q G L I S A T V I T A S A E I C D A L A T A T A V F V I L G P K E G L A N L I N Q
Y P A D N G V I M S S D T M V F A D K N M L A D L L T T T V F V I L G P K E G L A N L I N Q
Y P V N G V V S A T V V A D T C T F A D G L S T T A L M V M G A E K P G T A L V N T R
K S V Q G V Q S V T I I G C D N A F E A D L L S T T F F V L M P I K K K A I E M I Y V N E R S
Y P V E D K K M V V L I G C D N A F E A D L L S T T F F V L M P I K K K A I E M I Y V N E R S
K S A R G I M S V T I I G P L G F D T D A L S T S V F V M G V E K K G L A L I E G
Y P D N D I A G S T V I T N E S Q A S Q A D D G L S T A V F A M G V K K G L E Y A E
Y P V Q G V I A G S T V I V S Q A S Q A D D L A T A T A V F V L G A E K K G L E L I D E D
UniRef90_UPI0004664003 Y P F D T N I S I S I I A D K S I N A D A L S T L I F T K G L E D G L R M V D D
UniRef90_B4W8I3 R P V N A L A S V T V L H A S A M K A D A Y A T A L T V M G P F E G P D Y A E A
UniRef90_F4KPW8 F P E R S N L S A T V I A P A D A M T A D A Y A T A L T V C M V M G L E K G L A L I E A S
UniRef90_UPI0003B6A6F8 R P V H S T A S V T V M T E N A M L A D A W A T A L L V L G T E R A T T A L A N D
UniRef90_S3JPD3 Y P V R N G N I A V S V F S A S A M K A D A Y A T A S F V L G Y E K A T T A L A E
UniRef90_M4S3M0 R P V R G G V A A V S V V H T R C M D A D A W A T A L T V L G I E A G M A L A T Q
UniRef90_K1YC20 F P E R L C R S V T V I A P T A T M T D A F A T A G I F I L G P E K G L A A L K R
UniRef90_UPI000368912B R P L R D P A S V T V L A H P Q C M L A D A Y A T A L T V L G V E K G L A F A E R
UniRef90_UPI0003775AA0 R P I Q R H K V S A T V I A P S T A L E A D G W D T A G L M V L G T E K A K E V A L K
UniRef90_UPI00037A164C A P V A Q R L A S T T V A D S A M M A D G F A T A L L V L G E Q R G P A L A E S
UniRef90_UPI00041301EF L P I T G L K S V T V I V S N N A E F A D A M A T P L A V M G I E N G L Y L V D Q
UniRef90_E1VCF1 R P I Q H R A S V T V I V D P S N A R A D A W A T A M T V L G E Q E G M A L A R R
UniRef90_T4VHH5 Y P V E N N I G V S I I S K K S T Q C D A L S T A V F S M G L E D G L K Y V N D
UniRef90_S6AHU3 A P I H S L A A V T V V D E A S A L R A D G L S T A L M V L G P E A S G E A Y A E R
UniRef90_UPI00047ED489 F P V N H S L S A S V I A A D C M S A D A Y A T A C M V L G I D E A S L A L I E S
UniRef90_UPI0003B300EE E S A R S V R S V T I L A P D G L T C E A L S K T V F V L G P A R G L A L I D T
UniRef90_A5ZA68 Y P A D S G K S V T I I A S P D G T L A D G L S T S L F I M G I D K A K E Y W R A
UniRef90_R7LJB9 Y P V H S L S A T V I A S P D C A T A D A Y A T A F M V M G L D K A K Q L E K
UniRef90_R5DHP5 Y P A N G L S S V T I V S K D G T L A D G L S T S L F I M G R K K A T T Y W K K
UniRef90_G7LY20 Y P S E E L I S A T I V S D N S I D G D G L S T T G I Y I L G V E K S L R I T I E S
UniRef90_X8K4B7 Y P V E D S V T I I G A G S D N S I D G D G L S T T C L I L G E K D G K K L I E S
UniRef90_D9SQK0 Y P D N E T V S A T I T S D N S I D G D G L S T T C G F V L G L E E G M R L I E K
UniRef90_I4XQU0 R P V H G L A S V T V I H P A A V M A D G L S T L L L I L G P E E G W D Y A E K
UniRef90_Q896H7 Y P S E S G I S V T I I S D K S I L D G D G L S T I T F I L G L E K S M E Y I E N
UniRef90_C0QLJ0 Y P V D T V V S A S V V A D N C T F A D G L A T A L M V M A P E K S L A I V N G
UniRef90_W4AJ8 Y P V N D L L S V T I V S D T S M D A D A M S T S V F S L G L A E G R R F L E
UniRef90_R6M7G6 Y P A E S G K S V T I V S D D G T L A D A L S T S L F V M G K E K A L D Y W H E
UniRef90_K2MKT0 R P I H N T A S A T V L T G N A M L A D A W A T A M L I M G R E K G M Q V A E A
UniRef90_U7UAS8 R P A G S G V M S D T I P H A G M L S D M L T T S V F I A G P E K G M A L T R S K
UniRef90_G5GA01 Y P V Q H S L S A S V I I A S D C A T A D A Y A T S F M V L G L D G A K E V L S K
UniRef90_K6YBP8 E S S Y E V Q S V T I I A S P K S T L N D G L S T A V F V L G V Q K G I D L I N Q
UniRef90_R5QYZ8 Y P E N G L V S V T V L S D E S A D G D G L S T T C F A L G L E K G L E L I N Q
UniRef90_R6PK05 Y P D N S L I S V T I I S D E S A D G D G L S T T C F A L G L E K G M E L I N S
UniRef90_V5ZA27 R P I Q H N V S A T V I S A T T A L E A D G W D T G L M V L G P E K A K A L A L R
UniRef90_R7I3Z7 Y P A D S G L T V S V I V S E D G T L A D G L S T S L F V M G K D K A I A Y W R Q
UniRef90_Z5XUX3 M P S R H D V S V T V L H P S A M T A D G L S T A L T V M G M E R A Q K Y A E Q
UniRef90_UPI00045E7208 Y P V R H N L S A T V I A S D C M T A D A Y A T A M M V M G L D K A I A L D E E
UniRef90_A3ZZD9 R P P H P P A S V T V L H A D C A A A D A F A T L M V M G P E R G Y N W A E Q
UniRef90_D7W3H8 M P V S G V K S V T I F C P A N A E I A D A M A T P V G I M G I K A A L D L V N Q
UniRef90_UPI000344D081 R P I H K L V S A T V I A T T A L E A D G W D T G L M V L G T E K A R Q L A I R
UniRef90_E4T2Y8 Y P V H N L L S A T V I A P T C I Q A D A Y A T A F M V V G V D R A L E I C K S
UniRef90_UPI00036B1173 W P G N Q T M S A T V I A D T V M D A D A L S T A L F I L G P N K G I G L I N S
UniRef90_R6WZ22 Y P V Q H S I S A T V L T N S C A R A D A Y A T A F M V M G L E R A Q E V L L A R
UniRef90_U7FUF4 Y P V H A L A S V S V L T H P S A M M A D G L A T A M T V L G P E K G L A F A K A
UniRef90_R1F300 R P V H R L V S A S V I T K D A L E A D A L D T A L V V M G P E Q A M A F A K A
UniRef90_I1ATH5 R P V H N T T S V T V M T D S A M L A D A W A T A L L V L G R D R G L E I A N D
UniRef90_UPI000347DBCA M P I H D L V S V T V L H P S A M T A D G L A T A L T V M G T E Q A K A Y A E Q
UniRef90_G7FQA5 M P I H D L V S V T V L H P S A M T A D G L A T A L T V M G M E K A Q A Y A Q A
UniRef90_D4J7K5 Y P A N G L V S V T I V S A D G T L A D G L S T S L F V M G K D K A T D Y W K A
UniRef90_F0K477 Y P A K E E L S V T V I F E N S M L C D A V S T A A F V I A G A D G G I E L V K R
UniRef90_F7XPG8 Y P S E E L S A T V I A E D A L S A D S L A I A V F V M G K D G L K M I E Q
UniRef90_R7C721 M P A N N L A S V T V L A E N G A M A D A Y A T A L S V M G E E K A I A F Q K K
UniRef90_H6LDL2 Y P S K S G I Q V T V S A S K S V D A D G L S T T L F L L G L D E G L K K V I E S
UniRef90_D3AJA9 Y P Y Q N G V S V T I I G Q S S I D A D A L S T T F F S M G L E K G K A L I D S
UniRef90_UPI0004744D7A Y P V D Q G L S V T I I G Q S S I D A D A L S T T L F A L G Y E K G S I L I E S
UniRef90_K4IPX8 M P T K G I L S V T V F A P K A E L A D A L A T S I F V M G S E K G L N M I N Q
UniRef90_R6ELI8 Y P E N G L T A V T I L S D E S V D G D G L S T V C F A L G L E K G L E L I N S
UniRef90_W1Q651 Y P V D N D L S A T I F T K V S L K A D A L S T T L F L L G T K D G L A F I E S
UniRef90_M4WZJ5 A P D N A V A S V S V L A P S C M L A D A W A T A L M V L G P E R G Y P Q V A E R
UniRef90_J3H1Y5 R P V H A L A A V T V V D P S G L H A D G L S T L M V L G P E E G Y A F A R
UniRef90_R6J5S1 Y P V H N L A S V T V F D N C M D A D A L A T A A M S M G E T K A I K F A A D
UniRef90_I3IFH8 K S T S G V N S V T I I G Q G F D T D P L S T S V F V M G P E K G L A L I N K E
UniRef90_UPI000248A3F6 R P V H G V A A V S V V H P R R C M D A D A W A T A L T V L G L D A G L A L A E
UniRef90_C7PU53 W P V P Y I K S V T V V S P S A E L S D A L A T A L T V M G P E V G L N L V N Q
UniRef90_N2A829 Y P A N G L L Q A T V I T D S S A D G D A L A T C C F A L G L E E G S A L A E S
UniRef90_U5C4N6 R P V H G L S A T V L A A N C M K A D A L A T G M M V M G V E K S I A L Q Q K
UniRef90_I6Z657 A P I H R L A A V T V V D P S A L R A D G L S T V L M V L G P E R G L A Y A A E
UniRef90_F4BRG1 Y P D N E L A G V S V I T K K S I L D G D G L S T S L F S K G L E K G L E Y V N T
UniRef90_A2A022 Y P V H S L S A S V L A Q D C M T A D A Y A T A F M V M G F E K A K A L L T K
UniRef90_A5FCI5 Y P A T G L C S V T V F G P N A E T A N G L S T S M M V L G Q T E G L L L L Q K E
UniRef90_A5W413 A P L C N A A A V T V M A T S C M L A D A W A T A L M V L G E T E P R L A Q E
UniRef90_H1YG35 Y P A T G L C S V T V F G P S A E R A N G F S T S M M V L G K D A A L Q F I K K E
UniRef90_L0KX74 Y P S Q N L I S A T V I A P T G I D S D A L S T S V F V L G E Q D G L K M I E E
UniRef90_R5YMT5 Y P V N R L L S V T I I S E D S L S G D A L S T T C F A L G L K K G M R L I E N
UniRef90_S5FBV6 R P V I N H N A S V T V F A P S T T M T A D G L S T G L F V L G A E K A L A V A E R
UniRef90_UPI0002559366 R P I H G T V S A T V M T D N A M M A D A W A T A M L V L G R E R G L Q I A E A
UniRef90_F8EWX7 Y P V Q N G L S V T I I G D S I L D A D G L S T T A V F A L G Y E K G R A L L E S
UniRef90_R7D5G9 Y P V W N G L D V T V V H S G L L A D G L S T A V F V L G M D D A L E L L E K
UniRef90_A4GAG1 E P A H G L A S V T V L H C D C M A D A W S T A L G V M G A A Q G L A F A D Q
UniRef90_R7DG53 Y P V Q H S L S A T V A P D C M T A D A Y A T A F M V M G I D K G L Q L A E K
UniRef90_M1MN74 Y P V D N G V S V T I I V D N G M I A D L L T T T V F S L G A E K G I E L L D S
UniRef90_G8QRE2 Y P V E E F T S V S I I T P R S F L A D A L S T S V Y A L G Y E K G M A M I D A

UniRef90_UPI0004633A3C L K E T E V I V V D S Q N K I F K S N G I
UniRef90_K4MBJ9 L E G V T E A C L I I T E D R R I I R S S G F S Q Y E S E
UniRef90_GOLCH8 L L G D T E A L L V D D A N K V H K S S G I
UniRef90_U5MLA2 L P N V T S C E I T T S D Y K I Y T S D D F K
UniRef90_A9A0B7 L E N V E S C I T V R R T D G T Y E W S T G F
UniRef90_E4PF36 L K G I D V V V I D D K M M H V S E G L
UniRef90_D4CVZ5 R D D L E I L I V D D K D M N I T S K N F E Y E E
UniRef90_B3PEL9 M P G Y D A V V I T E A G K V H Y S K G L T P P E
UniRef90_R2RCC4 L K N V D V I F V T K E D E V F V S K D I E K
UniRef90_K4KSM9 L N G S G L V I N S E G E L F F S S K M K E F K K
UniRef90_UPI0004664003 M K N V E A V F V T N D K Q V Y I T S G L K
UniRef90_B4W8I3 L G L A A H F V E R T E R G L V E M T P A F A A
UniRef90_UPI0004664003 L P N L E A Y F I Y G D P K G E V K Y T S G F K K S E K
UniRef90_UPI0003B6A6F8 R D M A A L F I D R S G Q
UniRef90_S3JPD3 L P G T E A L F I F S N D D N S I R V T S G L Q Q H I
UniRef90_UPI0003B6A6F8 K R L A A R F I S N E G R E A F S P A L
UniRef90_K1YC20 L G M D G V I V A D N G Q I L M T D T I K
UniRef90_UPI000368912B H Q L A A R F L I R D A R G Q E H H S P A Y A A M L E
UniRef90_UPI0003775AA0 E G L A V Y L I T K E G D G F T W M S P Q F K T F L
UniRef90_UPI00037A164C E I L A A Y F I R D D A G F R E Q T S T A F E R
UniRef90_UPI00041301EF L P D L Y C I I I D D F N T I Y T S K N I H L
UniRef90_E1VCF1 H D L A V L M L V R Q G D G Q S L A S P A F A E Y
UniRef90_T4VHH5 K E G I E A I F V T K D N K I Y L S D N I K
UniRef90_S6AHU3 Q G I A A F F V T R A G E G F V H G S S R F E L F E Q Q
UniRef90_UPI00047ED489 L P G V E A C F I Y H T E S G E V V Y T T G F D Q Y H Q
UniRef90_UPI0003B300EE L P E V D A V V I D A E G A M H V S Q G L
UniRef90_A5ZA68 N S D K F D A I L L T N D N K Q Y V T E G I
UniRef90_R7LJB9 N K S L K A Y L I F A D E D G K L K T
UniRef90_R5DHP5 H T Q A F D T V M V E D D G T I W V T E G I
UniRef90_G7LY20 I E G V E A I L V T E D K K V Y T T S S I N
UniRef90_X8K4B7 L D G Y E A I F V Q H D G T I T T T K N I K G F E K
UniRef90_D9SQK0 I K G V D A I F I T K D K V Y L T R G I K
UniRef90_I4XQU0 H D I A A F F V I R A D T G F V T R S N R A F D R
UniRef90_Q896H7 I D G V D A I F V T T D K K V H T T S N I A K D F K
UniRef90_COQLJ0 L D N V E C L I V V R K P D G T
UniRef90_W4AJ8 R D D A E A I F V T K D H Q I Y L T S G L
UniRef90_R6M7G6 H K N E F D T V L V E D N G D I T I T G L E K F K
UniRef90_K2MKT0 Q N L A V L F V
UniRef90_U7UAS8 M E G V E C E I T G T D G T V Y M T E G F K K
UniRef90_G5GA01 H P E K A Y L I Y E Q N G K Q V W M S P G L E K
UniRef90_K6YBP8 T R G Y E A I I L D N Q R R L H Y S K S F E A
UniRef90_R5QYZ8 T P D T E A M F I T E D G E M H F S K G F
UniRef90_R6PK05 L P D V Q A V F I T D D Y Q L H Y S D H F N
UniRef90_V5ZA27 E K L A V Y L I Y K Q G D T F T W M S P Q F A A F I Q
UniRef90_R7I3Z7 Y K D E F D T I L V E D D G S I Y V T E G L E
UniRef90_Z5XUX3 H D L P V Y L I A K S D N G L V T Y S P A F K P Y L
UniRef90_UPI00045E7208 M E E I K V F L I Y S D S T G E Y H V S E G L K P Y L
UniRef90_A3ZZD9 N K L A V L F L T R G A D D G V V R R T S L W P Q
UniRef90_D7W3H8 I H Q L E C I I I D D D N T V Y S S Q N I N L
UniRef90_UPI000344D081 E K L A V Y L I S K Q D D G F T W M S P Q F A A F I Q K
UniRef90_E4T2Y8 I P G M D C Y L I Y T D K D N Q V I Y T D G F K K Y L T Q
UniRef90_UPI00036B1173 L E G V E G M I L S K L G S A S Y S S G F R
UniRef90_R6WZ22 H K D M M A Y F I Y T D R E G R V W C S P A L R
UniRef90_U7FUF4 H E L A V F E I V R T D K G E E V M T P A F K A I Q E E
UniRef90_R1F300 H Q L A V Y L I K T D E G K A D Y S P Q F A P Y L V K
UniRef90_I1ATH5 R D M A V L F L E R D A A G D V V T T
UniRef90_UPI000347DBCA H N L P V Y L I S K T D S G Q T Y A S T A F K P Y L
UniRef90_G7FQA5 N N L A V Y L I A K S P D G L V T Y S P A F E P Y L
UniRef90_D4J7K5 H S D E F D M I L L T D D E K L Y V S E G I K
UniRef90_F0K477 F R D V T E A I F I T K D R K V I T K G I
UniRef90_F7XPG8 L E K T E C L I I T D D K Q I V R S S G F S N Y E
UniRef90_R7C721 H P Q I T Q I I L I R K D G T F Y Q S E
UniRef90_H6LDL2 L P D V E A I F I T D D N H I V V T S G L K
UniRef90_D3AJA9 I D G A Y G V F I T D D Y E I V Y S E G A E K F L D K
UniRef90_UPI0004744D7A L D N T E V I F V F A D L S V R G T S G F E H F
UniRef90_K4IPX8 L P D V E A I I V K N D G S L A T S
UniRef90_R6ELI8 L P D T Q A V F I T E D G E L H Y S E H F E
UniRef90_W1Q651 L D G V E A V L I D K D H G V H V T S G L K
UniRef90_M4WZJ5 H G L G A L F L L R E G R G
UniRef90_J3H1Y5 H D L A A Y F L M R Q G G F V R A T P R F E
UniRef90_R6J5S1 N N L A L V M F V R E E D G S L K T
UniRef90_I3IFH8 L P G F D A V I I T S Q G K V L Y S Q G L E
UniRef90_UPI000248A3F6 R G L A A R F I T N E G G E A F S P A L
UniRef90_C7PU53 L P G E V Y C I I I D G Q N K I V I Q S D N I Q I H A K
UniRef90_N2A829 L G D V Q A V F V T E D Y S L H Y
UniRef90_U5C4N6 E G G V F L F L I Y N D E Q G Q L F A S E G L I P F L
UniRef90_I6Z657 H R T A A L F V I H E E Q E F I S K S T A
UniRef90_F4BRG1 L E D V D A I F V T K D K E V Y V S E G L K
UniRef90_A2A022 H K H L D A Y L I Y A D D Q G K L Y M T E G A K K Y L A K
UniRef90_A5FCI5 F P D Y S C V M I T D N G K V I K S K N F K K F K A K
UniRef90_A5W413 R G M D A L F V L R E G E L F R
UniRef90_H1YG35 F P E Y H Y L M I T D K G R I F S S P Q L
UniRef90_L0KX74 L D G T I E C L L I T N D K R I V K S S G F E K Y E
UniRef90_R5YMT5 T P E I E A V F I D K D Y T L H T S S G L
UniRef90_S5FBV6 E K L A I F L I V K N G D K E T Q M S S E F S K L I Q
UniRef90_UPI0002559366 Q D L A V L F I E R Q P D A G F V I T T E
UniRef90_F8EWX7 L G N V E G L F I F E D G S L R A T S G
UniRef90_R7D5G9 Y N A E A V F V D E D K N V Y L T S G M K R F E
UniRef90_A4GAG1 H D L A A L F I Q R G K E G E E H M S Q A M A L L Q
UniRef90_R7DG53 L Q L N A Y F L Y A V D S N T Q V K M T P G M K
UniRef90_M1MN74 M P Q V S G E I T T S N K I Y T S Q N F K
UniRef90_G8QRE2 I P E V I E A V F F T K D K I L L S Q G I K

1 10 20 30 40
UniRef90_UPI0003639239 L E G K T M G T V W R V S L S G V E S G R R A L Q Q A L Q Q Q L D A D D
UniRef90_G4F9W3 R F D G N I F G T F Y Q V T I M D P L T Q G E E L E E G F K A E L L E S V D D
UniRef90_W2D5A6 F P T M G S T Y S I K Y V R T P P A A G S D L V L Q E Q A E S L L E E V L D
UniRef90_S0J6R1 K R Y E T T F F S F D T V T V I T G Y A E E E E Q A A G K L R Y Y H G E L F D
UniRef90_UPI00046EEE31 L S G K T M G T V W R V T V A G P A A R L P Q Q L Q E A I S R Q L S H D D
UniRef90_G0L843 F R R S V R L M G N A F E I T V V V D D S K A H R Y I D M A V A D I E S R R I E E E
UniRef90_C7PCX2 K K V E D N A F L M D T L V K V R A H G N G A E E K A V K E S I D Q I E A I E E
UniRef90_E3DQ29 E G K T M G T F W R V S L A G V A P E K A S A L E K E I Q A Q L R D A D D
UniRef90_H5UXM7 Q F F L N S I L T L D S L F D E G L D K A K L Q E V E Q A D R V L E L E
UniRef90_E0QHK6 K M Y Q F T G N V Y G T T Y H S Y R S A T D Y S A E I R Q E M E R V L N
UniRef90_UPI00039ADEDD F F L N S I L T L N I M D E D A D K E D E T Y K K V Q A E V M Q E L V E
UniRef90_G9XD23 Q Y R R I E G K I Y G T Y Y R I T Y E A K E I D D F S E K L K A E M E K V N
UniRef90_R5UVP8 F K R T L K L M G S R F E I T V V A D S T E A N N Y I D L A V G E I T R I E
UniRef90_I3YT27 F T G K T M G T T Y N V K Y F D K D T R N F K P Q V V D S L L R D I F N
UniRef90_L8JV15 G A T M G T T W S V K A L L P A T T D L V A L E A V Q R A L L R A D A V V
UniRef90_ROCVU6 R E F Y V L G T V V Q L K V Y G S N G K I A V E E A V N R L N D I D
UniRef90_C6PNX3 T R T E S L L H T V V Q L S I Y H E N Q K E T M D G A I E L I K E M E
UniRef90_UPI0003805891 E P Y S D E Q Y L L G T Y V R I R V Y D E N K E D A L E P A F E R I S D L G
UniRef90_UPI0003B49F9A S F G G P T M G S T Y S V K Y H P G T P G P V I E V Q K Q V E L I L A E I D
UniRef90_A0A010S0Z0 M G T Y T S A R M A L P G C D Q A A R M A L Q V A L D Q D L V
UniRef90_J4QQN2 E K T T R D L F A M D T Y I T L T A Y G N N A E A G I S A E A C I Q D D L D
UniRef90_R5VRS4 Q T I T L Q G E T M G T T Y T V K Y L S D G Q D P A E I Q K R I D D T L K E I V N
UniRef90_C5TL27 E F G G P T M G S T Y S V K Y V R S E G V A A E L K A A T E A I L A E I D D
UniRef90_A4XSP9 Q R F A L N G P T M G T R W T A L F F A P G L D P A P V R I T A L Q S A V D C I V D
UniRef90_A3W0B5 V H K R K L S M L G S P F E V T V V A Q D I K A N D W I D L A L A E V K R V E
UniRef90_UPI00047EB890 Q M I A F R G A T M G T T Y S V K V S D P D D G A E E A S L A V D A E L R R V E
UniRef90_M5T8D3 L Y T N S H S I M D T T Y T A A I Y D S D T D A V Q T V G K A F G R V L A Q T D
UniRef90_Q12W74 E Q I T L Q G K T M G T T Y T V K Y I D D G P T A E Q V K K Q L D D V L K V V N
UniRef90_Q7VNU3 S F G G P T M G S T Y S I K Y V A S A P D V Q T A K A A V E A I L Q A E V D
UniRef90_Q9HZL2 L F K K V L K L M G N R F E I S V L S D N I Y A D D C I Q S V V V E I L Q R I E
UniRef90_UPI00047A7B2D E A H R K V G F Y F D T V I T L T A Y D R D D N C E A F L D E C F A L C M R Y E
UniRef90_UPI00047B5ADB G R T M G T S W S L T A Y L P P N S D A S A L R A A L E A E L D I
UniRef90_F3L537 Q L Y E K N I I T M D T P M D L K A Y G P N D A K A V R A D E S V K K L Y Q L N
UniRef90_U5RXJ0 Q L Y R V T G P T M G T T Y H I K Y L A P G F D E D S V K K D I E I R L D E V N
UniRef90_T0C4V3 L N T A V I T V T I Y D S Q D R E L L T E C M N L C K T K Y E
UniRef90_R7CFR1 L S G K T M G T Y N I K V F E K S L S Q A Q L H D E V E Q A L K T V V N
UniRef90_U1K3G1 L S G K T M G T Y N I K V F E K S L S Q A Q L H D E V E Q A L K T V V N
UniRef90_U6ZSD6 E P V T K E S F Y F D T V C Q V T V Y D S E D N A K D V I D K A F S R C E K Y E
UniRef90_W2C0P4 K R Q A L N G S T M G T R W T A L F Y T A E A D F G P V R D A L Q A A V D E V D
UniRef90_UPI000475E660 K I S K T G F Y F D T M T V T L Y G T R D E K I L D D C F S L A G N Y E
UniRef90_R5V4C2 T L G G Y T M G T T W S V K L A A P R R D L H P L H N A I Q A R L D A Q I V
UniRef90_B2I7F2 L I K A T R P A M G S Y F E V R I A A N T P G G A D L V G R V L D R I D E L E
UniRef90_Q9A3Y8 Y T K T D F A M D T V V S E T L Y T T G E D I T A D L I S A L K K D V E
UniRef90_L0DB94 K P T E D T F L M G T V C T I K I Y N K N K S A A L D D G F A R I K K L A
UniRef90_UPI0004684ED4 I N G K T M G T F Y S V K V S G D A I S K D Q L Q Q Q S D A V L E R V N
UniRef90_R4I1S2 R Y T E G G I Y G T Y Y R I T Y R A D R D L G R E L I R Q Q Q R A M Q A V F T E M R I D
UniRef90_R5NQV5 W L S D S Q A I M G T S V R I V E L W D D E P Q G Q R A M Q A V F T E M R I D
UniRef90_UPI00031F68EC E V T G A M G S T Y S I K W V N A E P D T A T L H G E I F A L L A Q Q Y E
UniRef90_UPI0003B59A1D Q P I Q Q T G F Y F D T V I S V T L Y D P S K T E E L N H C F A L A Q Q Y E
UniRef90_N2B7C1 L S G P T M G S R W S A L L Y P S G A H D R D A L G A A L Q E V S R V D
UniRef90_B0UNI9 Q K I E N S K F L F G T Y S I T V Y D D E K L A N R A I E A A F Q E I E R I D
UniRef90_C3WG92 Y C L G T V I N L T A Y G K N A E T A I D E S I K V L E K I D
UniRef90_F0K473 T L G G H S M G T T W S V K L V A P R A D L H P L H A R T Q G A L D R V V
UniRef90_F0BEK1 S L S G E T F G T T W S L S Y R S P D V D A Q A I E E R L L E V F A L I N
UniRef90_B8KY17 E M H G E T M G T T Y N I K L F E T A I T Q G D L Q A K V D A A L I A V N
UniRef90_L8D567 S S T N F L M N T F V S Q T V Y G P H R E E A V A A V V E R L R Q F E
UniRef90_U2DTH5 T L G G Q T M G T T W S A R L A P S D L D L H R L H A L L Q G E L D R V V
UniRef90_G7UQR9 L Q N F G G P T M G S G Y S V S Y H P G Q P D I R V V Q P E V E A I L A E V D
UniRef90_W0H709 R Y A L N G P T M G T R W S V L F H A P G F D A G V V Q V D L Q A A M D E V D
UniRef90_D7A7N7 R Y E F Q E V H M G V Q Y R I V L Y A D K P I A N N A A Q N A F Q R V K E L N
UniRef90_A6C820 F R G A T M G T T Y T V K V S D P P A K N D S A E D A I D A E L R R V N
UniRef90_M5U4L9 I R L T G E A Q G T A Y H I K Y R D G R Q R T F Q K E I D S L L A D I D
UniRef90_F8EG00 H R E R F Y A L G T L V E V T I H G P E R T A L A A A D R V R R R L E D Y Q
UniRef90_Q0ABS9 S K T E L F M G T V V N I K I F D G D E Y V L D K A F R N R V K E I E
UniRef90_N9WH94 P Q R V S R P L M G T Q V D I V V D G D A P L G R H A I D Q A Y A E M A R L E
UniRef90_H0C4T6 L H T L S G Q S M G T T W I V R Y I H P D Q S S Q T V V Q L T Q R E L D L V V
UniRef90_Y0KFG4 H E T R F I M G T L V E F T V I D D D R D A E S A I A D A A V E M Q R I E
UniRef90_UPI0004772344 F Q H N T G F I F G T Y N I K Y Q S D N E D A I E K G F D R T K E L A
UniRef90_W7C3D7 G Y A G G S T Y Q I Y I T S S Q D D W T A Q F D S I F E Y I D
UniRef90_D8DTC1 E P V S K S G F L L N T Y V T V T I Y D N D D P K V L D G C L E L C R S Y E
UniRef90_G8R4G4 E I H R D R F I A F G T L V E L N I Y A D R E L V I A G A I D A A I A E V S Y M H
UniRef90_UPI0004668B4E R H H K K V L R L M G N R L E I S V V T D N V I A G A I D A A I A E V S Y M H
UniRef90_UPI00040B4B1C R H A L N G P T M G T R W S A I F Y A P G F D A E A V R A A L Q A A V D E V D
UniRef90_H5SRB2 Q E E Q Y L L G T Y F R I K A Q S R S Q D A H Q A V Q A A F A E A K R L S
UniRef90_F0SCT5 K R Q V T L M G S V F E I T V A H D R Q Q E A D K N T D L V I A E I S R I E
UniRef90_UPI000375D479 S L E G E A Q G T T Y H I K Y R D D R Q R N L K P A V D S L A D I D
UniRef90_A0NPT2 R H V I S G K T M G S T R Y S V V F Y S E D F D A E A L Q R E L Q R E A V D R V D
UniRef90_UPI0003667C1C L Y Q A G G A S M G S W S A R M M P G Q S G D A L Q G A L Q R E L D E I V
UniRef90_Q2NTU6 Q S W R A E G K T M G T Y Y R V L V A N P P A A A L T L N E A I E Q R L A E D N
UniRef90_R6Q1M6 Q R Y S T I F A F D T V T Q V I A Y C N S E E E M D A L H A D L L E Y H Q L Y
UniRef90_C4Z2W9 T Q E I F A M D T Y M S L T A Y G S N S E E A V S K A V Q E I N R L D
UniRef90_R6V2J7 Q E A S K D V F A M D T Y M T V T A Y G S H G E E A V E K A V T E I R L D
UniRef90_R6TDS4 Y S I T Y F Y F D T V T I I G Y E K K E E D F N Y I E N L L K E Y H R L Y
UniRef90_R6PN09 P Y K E E L F A M D T Y M N L C A Y G E Q S Q K A V E A A S T E I Q R L D
UniRef90_G0L1Y0 E A S G A A L G T S Y N L I Y L S P E K L D L Q K Q I D S V F D A I N
UniRef90_B4S8H3 R I Y E Q E K V M M G T I M K I K A V A P E D S T R A A F E A A F G E M S E L E
UniRef90_UPI00016C4774 H R D H V I G T S L D L V V A P D E P T A E A E L T V L N E V E R L R
UniRef90_UPI0004790F58 Q R H A L S G E T M G T R Y S V F F A G A G I D A S A V G A A L F A V D K V D

UniRef90_UPI0003639239 H Q I S T W K S D S V L S R F N Y Q G S E P Q P V S A D M A D I V T E A L R I V 80
UniRef90_G4F9W3 Q A M S T Y R D D S E L I A F N D A P D S E W Q P P L S N E L I E V L V A R T G S Q S V A S
UniRef90_W2D5A6 R Q M S T Y R D D S E L I E R F N D D A L A N S C Q P P M P Q E P I L L H L V K L V A R T G S Q S V A S
UniRef90_S0J6R1 D I Y H S Y D G I N N V I K E R F N D D A A N K E P V K V N P Q E P I L L H L V K L V A R T G S Q S V A S
UniRef90_UPI00046EEE31 Q E I L S T W K A D S A L L S R F N Y Q G T A P W P V V S E G M A D T V T M A L D R I I G S
UniRef90_G0L843 K L I S S W D S D S Q T S R F N Y Q N A Q A L R P V K V D K R E L F D L I E R R S I R I S
UniRef90_C7PCX2 S L L T T F S D S S Q T S R F N Y Q N A Q A L R P V H I K V D K R E L F E L I F E L I R R S I R I S
UniRef90_E3DQ29 N L M S K T V T K S D V Y K L N H N P K K E I I I A P E T M V V L K K A K K Y A
UniRef90_H5UXM7 W L L S T W K K D S A L M K F N R S S A T E P W P V V S E A M S D I V T L S L R I G G
UniRef90_E0QHK6 N K M S T K I A T S E V I S R L N R G A I D K V T V S D S D M T F T V I K E A L K Y G
UniRef90_UPI00039ADEDD Q S L S M F N K K S V I S R L N R G A I E T D Q V V S D S L F V R M F T K A G E V Y
UniRef90_G9XD23 E K F T I N A D S S E V S E L I N Q A I R P V K V S K D T Y Y V I K S I K Y S
UniRef90_R5UVP8 A S L S M F N P R S V V A R W N R G A I E S E E V D S L F M R M F Q A A E K I N
UniRef90_I3YT27 K L I S S W D P A S S Q T S E F I N R N A I K P V K I D K E L Y N L I G R S C F E I I S
UniRef90_L8JV15 Q S M S T Y I P E S E I T S R Y F N R A D A F Q F G L P A F F Y A V L Q N R S R E L I Y A
UniRef90_R0CVU6 A E M S P W E P L S D L S R Y F N R A A G T W T A L P A A T V A V L R R R A V L K Y S
UniRef90_C6PNX3 N K M S V F K E Y S E I S M I N E N A A G T S N V E V S K A D T Y F V V K E A V K Y S
UniRef90_UPI0003805891 N L L S T S V E S D I Y D E I N A N A S A K E P V K V S D N R T F E L I K E A V D K Y S
UniRef90_UPI0003B49F9A D R I T I N O K E S E I R I N A N A G E P V K V S D N D D I Y H L L K V A Y D Y S
UniRef90_A0A010S0Z0 R Q L S T Y R S D S D I S E R F N G L P A H S C Q P M P V L L Q L V K V G E Q L S
UniRef90_J4QQN2 A Q M S T W E A G S E I S L F N Q A G A G W R V L P D A F F H V L R H A M A L L A
UniRef90_R5VRS4 A R L S T G N S E S E I A K L N A T G S G T L S E D T S A I L Q E A L T L Y S
UniRef90_C5TL27 R Q M S T Y Q T D S E I S Q F N Q T V N Q T A M P I S Q D F A Y V T G E A L R L N
UniRef90_A4XSP9 L Q M S T Y R D D S L I E Q F N R A P A G T C Q M P K G V L R D L V L R A G D R L H
UniRef90_A3W0B5 A Q M S T W R P D S D L M R L N A A P V G W V P V P E H L R R D L L G L E I G
UniRef90_UPI00047EB890 N Q I S D W I P T T P I S Q V N K N A I Q A V K V D D E V F Q L V L Q R A L K I S G
UniRef90_M5T8D3 D Q M S T Y L K A S S E L S R F N E S T D W F D V S A E E L A E V V A F A L E V Y S
UniRef90_Q12W74 E L M S T Y L K A S S Q L N M L E N N R L E N A S E E L L F V I G R S I Y Y S
UniRef90_Q7VNU3 D E M S T Y Q L D S Q I S R F N A R E V N T P F E I S P D F A T V V A E A I R L N
UniRef90_Q9HZL2 R Q M S T Y R D D S L Y S R F N A L P A Q S C M E L P L P M L E L L R Y G E I S
UniRef90_UPI00047A7B2D S L L T T F R E D S E T N I N K Y A I S P V K V C S E L E Y D L I C R C R R I S
UniRef90_UPI00047B5ADB N L F S S T K E G S D I W N I N H A N G E V V T V D S P A T Y D L V E K A L Y Y A
UniRef90_F3L537 Q S M S T Y I A D S E I N L V S S A A N E P I K V V S S G F A Y V L D Q A L T L S
UniRef90_U5RXJ0 D M A S T T V N S S D I M K I N N A S G K Y V K V H P E I I K M I N L S Q K Y S
UniRef90_T0C4V3 K A M S T Y I K D S E I S L F N M T K N E K F Y P G P D F T R T L K H A L D V A
UniRef90_R7CFR1 K I F S R T A D D S E I Y Q L N H R A E L T P V K V S A S L A E L V S K G L D Y S
UniRef90_U1K3G1 Q O S M S T Y I P D S E I Y Q F N R A A N T V M P I S E D F R L V V A E S I R L G
UniRef90_U6ZSD6 R Q M S T Y R S D S D I E R F N A L P A H S C Q P M P V L L Q L V L G E Q L S
UniRef90_W2C0P4 K L L S K T K R G S D L M R L N A A P P T W V H V P N R L M E V L R L A L D V G
UniRef90_UPI000475E660 K K L S N T I T D S E V S K I N E A N G Q F V T V S S D T L S L I K D G I R Y G
UniRef90_B2I7F2 A E M S T W E P N S H I S R F N R A A P V R G W H P V P N D F D L V L R T A L D I A
UniRef90_Q9A3Y8 S Q M S P W A P L S D L S R Y F N R A A P G S W T V P P D T L T V L R R A L D V A
UniRef90_L0DB94 T Q L T V Y R D D S E V S R L N A A A H R P I E V E P G L F R L L E L A L E L G
UniRef90_R7CFE6 E N W S W T K E S S Q I Y D K I N Q A A G N T T T V S D E T A T C L K Q V L D L S
UniRef90_UPI0004684ED4 D E I T V N Q K G S E V Y Q I N E A G K K P V K V S A D V Y D L C K K A Y Y S
UniRef90_R4I1S2 D E I S T Y R P Y S V L S S F N H S R N N P Q I I P Y G M A N I I L M A Q Q I S
UniRef90_R5NQV5 A S L S M F N D S S V I S R L N R G Q T E R V D S D L E A C M F R V A V Q V N
UniRef90_UPI000475E660 K A M N P W D E H S E L A A I N Q A A I A P V L I S D E L V Q I I N K A L F Y S
UniRef90_UPI00031F68EC G E F S H Y E P S S R V L G R F N M R L G Q W Q P L S P E A M R V I D A A F A V C
UniRef90_UPI0003B59A1D A E V S T W R D D S D L A R F N M P A D S C A E V P T S L E L V G L G H I L A
UniRef90_N2B7C1 Q Y F S A K K P D S D V S K I N R A A G S P V R V Q K E T R E L I E K G L F Y S
UniRef90_B0UNI9 R Q M S S W D P A S D L N R L N A A P V T W V A I P P D L A A V L A A G I E I G
UniRef90_C3WG92 N K F N S K V K G S I I D N L N S G K E K K V K L D E E G V Y L E Q N L K K I
UniRef90_F0K473 D K F S A F K T L S E V S K I N R T A H N F I K L S S E A F S L I E N S I Y Y S
UniRef90_F0BEK1 A Q M S T W E A D S D I S R Y F N R A A G H W Q T L P D D F F T V L R T A L Q V A
UniRef90_B8KY17 V S M N N Y D P E S T I G T F N R A A T E T I V P I S Q D F R L V V E E S I R I G
UniRef90_L8D567 Q S M S T Y I P D S E I N Q F N A A N I Q M P I S Q D F R L V V E E S I R I G
UniRef90_U2DTH5 S V Y S L Y K D S S Q V E A I N R A A V A P V E V D A E V F T L I A R A K A L S
UniRef90_G7UQR9 A Q M S T W E A S D L L C H Y F N R A A G S W Q V L P P E D F A R V M A A L R I A
UniRef90_W0H709 A Q M S T W R S D S D I E R F N R A A G C Q Q V M P P A V L D L V R V G E H I S
UniRef90_D7A7N7 T Q M S T W R P D S E L M R L N G T A G E W V S V P A P L L D V L R V G L A I G
UniRef90_A6C820 K L L S D Y D P E S S L N K L C H G S G T P V P V P P L F A V L K R S Q A L S
UniRef90_M5U4L9 D Q M S T Y L K S S E L S R F N E S S T D W F E V S P E T A E V V K F A L E V G
UniRef90_F8EG00 R S L S I Y R S D S E I S E F N R S M S H R F R L P H F Y A V L K K S A E I F
UniRef90_Q0ABS9 Q R W H P A G D G E L G Q I N R A G E T S P A A S D E S L A L L A T A G R E L E
UniRef90_N9WH94 D L V S I N K V G T E L D K L N E N A I Q S V K L S D S S F Y I I K K G I E Y S
UniRef90_H0C4T6 A L L S R Y R P D S A V S R L I S R A A I Q P V E V P P E V M R L L Q A A Q Q M H
UniRef90_Y0KFG4 A Q M S T W Q A D S N L S L F N S A A A N T W H T L P S A F F Q V L D C A L T I A
UniRef90_UPI0004772344 D I F T I Y D Q P N A V K A F N T V P D S P V E L P D E V S Q L L L A L K V K
UniRef90_W7C3D7 A A I T T S D D G S E V D K I N Q N A I K A T S V D K D V F G L I Q E G I K Y S
UniRef90_D8DTC1 E S L S T F N K T S T I S K I N Q G K D V K V D D M F A E V L T L G E N I A
UniRef90_G8R4G4 Q S M S T Y K D E S L I S I N S G D T L V E V D H L F M E V L K R S S E I S
UniRef90_UPI0004668B4E N I L S K T I E G S E V Y K L N H R P Q Q T I T V S D D I K N L I T R A E Y L S
UniRef90_W8KM56 G A W H A W E P G P M G R T N Q L L A T G M E F S P S V L P L I E A K R L S
UniRef90_I0K6K9 A L L T T F R P D S Q T N Q I N M A G V V P V V V D A E V F A L I E R S K L S
UniRef90_UPI00040B4B1C A Q M S T W K P D S D L M R L N R A A G A W A T I P G R L L D V L I R L G L A V G
UniRef90_H5SRB2 E E L S R I G T P E T S L G E L N R R A S E P V T L S D D V F F V L E A A Q K Y R
UniRef90_F0SCT5 N L I S E W R P E T Q I S L V N R R A I Q P V K V D R E V F E L T Q R A L K Y S
UniRef90_UPI000375D479 R C L S L Y R P D S E L S V F N R G R E H R F R S E H F Y P V L Q K A A E V F
UniRef90_A0NPT2 E Q M S P W K A D S L L C E I L N M E P A S W I D L P D E T F E V C E A A L L T C
UniRef90_UPI0003667C1C A Q M S H W D S L L L A R Y N R A P G S W H A L P P Q F H D V A E Y A L Q V A
UniRef90_Q2NTU6 H Q I S T W Q D D T L L S R F N Y H G T E P Q P I T P G M A D I I S T A L R V A
UniRef90_R6Q1M6 D I Y N D Y D G V T N I K T I N D N A G T P V Q V D D K I L G M L E L A R Q M Y
UniRef90_C4Z2W9 A M F S V G N E D S D V T K I N E N G S G E V L E E T A F I M N R A M Q V S
UniRef90_R6V2J7 G L L S T G E E S S E I A Q V N A N G G G T L G K D A S Y L V E R A L E F G
UniRef90_R6TDS4 D I Y D S Y V I N N L Y T L N Q L E V G N E V V D A K I T D L L N Y A I D M Y
UniRef90_R6PN09 E L L S V T G E S G D V Y Q I N Q L G Q R Q V E A D T L A V I S R A V D M Y
UniRef90_G0L1Y0 H S L S T Y I P T S D I S R I N K G D S T L V V D H M F R E V F N L S Q E V Y
UniRef90_B4S8H3 S E L S E W Q S T A V S A V N R A A V K S V K V P D A V V I T E K A L E I A
UniRef90_UPI00016C4774 T I L S T Y D P A T E I S K V N R T R E P V P V S H E L I E V L R A Y E Q W Q
UniRef90_UPI0004790F58 R Q M S T W K S D S D L S R L N A A A Q Q W I A L P G E L M A V L D A A L R V G

UniRef90_UPI0003639239 Q K T D G E M D I T V G P L V N L W G F G P T K V P T H T P S D A E I L A A A K A
UniRef90_G4F9W3 E A S Q G G A F D I L T V G D L V N L W S F F G G P G S A R R P E E V P A D D A M L L A A E Q L A
UniRef90_W2D5A6 Q Q A T E G G A F D I L T V G P L V N L W S F F G G P Q R E R E Q V K K L P D P D E M L A A Q A R R Q
UniRef90_S0J6R1 Q K S T E G G A F D I L T V G P L V N L W S F F G G P V R E Y R H A K K L P D P D E M L A A Q A R R Q
UniRef90_UPI00046EEE31 K K T D G A F M D I L T V G P L V N L W G F F G G P V A A T P E H T P D P D E Q A I L D S A K A
UniRef90_G0L843 Q L T D D G A F D I L T S Y A S M D A L W K F D F G S M T T S L I L P A D P E A T A K R S M V R
UniRef90_C7PCX2 G V T D D G A F D I L T V G S I D K R L W N F D G S R M T M T S L I L P A D P E A T A K R S M V R
UniRef90_E3DQ29 N L T A G D F D I L T V G A L V N L W G F G G T P K N P T V P Q P E S A I I E K A K L K T
UniRef90_H5UXM7 Q K T Q G G A F D I T V G N L V N L W G F F G G T D K Q P V K T P S S E Q E I I A S A K T
UniRef90_E0QHK6 K I S Q G G A F D I T V G N L V N L W G F G G T E F R N E R V P S S P E K E I V D S L L A
UniRef90_UPI00039ADEDD K E T G G A F D I T V A P L V N A W G F G G F R N E R V P S S P E K E I V D S L L A
UniRef90_G9XD23 E L S Q G G A F D I T V G D L V K L W G F G G T D K Q N R F K V P S P D D E I L K S A L L A
UniRef90_R5UVP8 R E T K G A F D I T V A P L A N A W G F G G Y K N R F P L P S P D D E I L K S A L L A
UniRef90_I3YT27 K L T D G A F D I L S F A S M D K I W K F D G S M T E P S E E E A T K Q S V T
UniRef90_L8JV15 G L T K G A F D P T V M P L V N A W G F F G G P R K R M K Q P D D A E Y I I D S L R Q
UniRef90_R0CVU6 A A S N G G A F D P T L G A L V D L W G F F G G P R P F P P P P G D A E I I G S K L K
UniRef90_C6PNX3 E L S E G G A F D P T L I R P V V E L W G I G T S D K V K V P G D A E I I G S K L K
UniRef90_UPI0003805891 N I S N G G R F D L T I G V I N K L W N I G S F D Q A R K P E A A E I I A T A L P
UniRef90_UPI0003B49F9A V E S N G G F N M A I T Q L W R I L G F S D D A R K P E A A E I I A T A L P
UniRef90_A0A010S0Z0 E T S D G S Y D L T V E P L V N A W G F G G P Q S R D E K V P G A E A I A L A R Q
UniRef90_J4QQN2 Q D S A G A Y D P T V G P L V N A W G F G P H Q T R A F E P P P S A A I I Q S A L L A
UniRef90_R5VRS4 Q D T D G A F N P L M Y P I M Q A W G F G F H T H E Y R V P E D S A I I Q S A L L A
UniRef90_C5TL27 K L T H G A L D V T V G P L V N L W G F G P Q K E I T H E P T A Q E I I Q H A S E
UniRef90_A4XSP9 Q E S Q G G A F D I L T L E L L D L W G F F G G P K G Q G E A V D A E R I A E V R Q
UniRef90_A3W0B5 R A S Q G G A F D I S M G D A V T A W G F F G P P G E A P D R I A R K A M T
UniRef90_UPI00047EB890 E L T S G A F D I S Y A S M D K I W K F D G S M K A M A T P E A I A K S V E
UniRef90_M5T8D3 E A S N G G R F D V I T V G P L V D R W S F G G S E R N Q R D V P S S D T E I L E Q T I G E
UniRef90_Q12W74 N I S N G G A F D I T I K P P L V D L W S A K F P S E P G T Y R P P S S D T E I L E Q T I G E
UniRef90_Q7VNU3 K I T E G A L D V T V G P L V N L W G F F G P D R R L D K K Q P S S A A Q I I N Q R A A
UniRef90_Q9HZL2 E Q S Q G G A F D M T V E P L M N L W G F F G P Q A R L V E K V P S S A E Q I I A A V R R
UniRef90_UPI00047A7B2D E L T Q G G A F D I T V G S I D K R F W N F D L N M T E L P D A E L A K E T V R R
UniRef90_UPI00047B5ADB D L S Q G G I F D P T I G T V T E L W N F H A D S D K T L V P D E E S L K K A L S
UniRef90_F3L537 R L S N G G A Y D V T V E P L I L L W G F F G F F K K D D L P S D E S E I K S A A R A
UniRef90_U5RXJ0 K I S N K W D I T V G P L V N L W G I G T D K K A R L P S D S E I K S K L P
UniRef90_T0C4V3 K K T D G T F D P T I G T L V N L W G F G P N G K R K I P S K E D I V J A A K N
UniRef90_R7CFR1 V L S E G A F D I A L E P L T S L W D F T A E N P K M V P K D S A L I Q A A L P
UniRef90_U1K3G1 K S T K T G L D V T M G P L I D L W G F G P D D K R P T M R P S Q A E I L D D M R T
UniRef90_U6ZSD6 R D S D G A F D I L T V E P L L D L W G F G P Q G R V E K V P D V A A L A Q V R Q
UniRef90_W2C0P4 K L T N G G A F D I L T L G G K A Q D T W D F H N H K S K P P A K N A K L A K A M K
UniRef90_A0A011UPP9 R A S Q G G A F D I G M G D A V A A W G F F G Y S G N H K K P R L I R N A L D V A R Q
UniRef90_R5V4C2 K I S D G T F D I T I G T L S D L W N F S E I A E T A K V I P S P E A I I E A A L A
UniRef90_B2I7F2 M T S N G A F D P T V G P L V R L W G F F G Y S G N H K K P R L I R N A L D V A R Q
UniRef90_Q9A3Y8 A Q T D G A F D P T L G A L T D L W G F F G P R P F A G Q Q P P Q A E T L A P R R E
UniRef90_L0DB94 R A T G G A Y D V T T G A L S E A W G F F K G P R R V P S P Q D L A D A R E E
UniRef90_R7CFE6 K V S G G A M D P T M G R V I R L W D I D G E N P H I P S D D E L N S L L E
UniRef90_UPI0004684ED4 Q N S H E S F D M A I G P I T S L W R I G F P D A H K P T Q D K Q I D T R L P
UniRef90_R4I1S2 H D T G G A M D I T V A P L S N A W G F F G P D K H P V K V P N Q Q Q I V E A K K
UniRef90_R5NQV5 R E T E G A F D I T V A P L S N A W G F F G Y K R D S F P V P A K K I D S L L Q
UniRef90_UPI000475E660 Q L S E G A F D I L S F A S V S R F Y N F R A G K K P S E Q Q R K A M Q G A
UniRef90_UPI00031F68EC E R S D G A F D P A T G V L V D L W G F F G P A G G P R Q D L P S A Y A L G E A R S E
UniRef90_UPI0003B59A1D E D S G G D F D I T V G P L L R I W G F H G G N G S Q V V P D D A E I L Q A A L E
UniRef90_N2B7C1 R L S A G T F D I T V G K L T A L W D F H A E S P K V L P D D A E I L A D A V A
UniRef90_B0UNI9 A A S G G A F H I A A G A L V R A W G F G G A G R P N P G A T A A I A G R P L
UniRef90_C3WG92 E L S H G K Y D V T I G P P L L D V W N F G A K E N Q R E L P K L E I L K K A M E
UniRef90_F0K473 R L T N G C F D I T I K P P L V N L W N I G A K E N F R I P K E S E I S T A M S
UniRef90_F0BEK1 Q A S D G A F D P T V G P M V E L W G F G A S A S R R H V P S P E Q I A L A R L
UniRef90_B8KY17 A L T D G A Y D V T V P P L M A A W G F A P G G T P T V P D D A A V E R A R S
UniRef90_L8D567 Q S A K T L D V T M G P L I D L W G F F G P D D K R P A H R P S D D E A Q L S O M I A
UniRef90_U2DTH5 E E S G G A F D I T V A P L S L L W D I T G K N P R V P A Q G E I D Q A L A
UniRef90_G7UQR9 R D S E G A F D P T V G A L V H A W G F G A G G S R V Q Q V P P E A R E L Q Q A R A
UniRef90_W0H709 R E T Q G A F D I T V G L M N L W G F F G P Q G S R V Q Q V P T A R E L A R A R E
UniRef90_D7A7N7 R A S G G A F D I G M G D A V T A W G F G A E E A S P D R I R S A M E
UniRef90_A6C820 L E T E G A F D V T I S V V R L W R R A R R Q N K M P G S T R L A E A R A
UniRef90_M5U4L9 E A S Q D R F D V T V G P L V E D R W S F G P G K R N R D I P S D E I L E D L G R
UniRef90_F8EG00 R A A K G A F D P A T V L P L V E A Y G F F G P A R R P K G A P V K V D S L L Q
UniRef90_Q0ABS9 R L S G G L F P A I G E L I R L W G F E D D G P R D A Q R P D P Q A L E A W L S
UniRef90_N9WH94 K L S N G G Y D I S I G P L V L W S I G P E A K V P S S E D E I K E K L T
UniRef90_H0C4T6 G F S G G A F D I T V G S L K G W R F E A G H Q G A P S A S E I E S R Q L R
UniRef90_Y0KFG4 A D T D G A F D P T I G A V N L W G F F G P N G Q R I S P P S K S E V E A V H A
UniRef90_UPI0004772344 Q Q S G G A F D P A L G E L N L L W G F S G D D T P S S P P P V Q A I E D A I
UniRef90_W7C3D7 K A S G G D F D I S V G P L T D L W H I G F P D A R K P A D A E I K Q V L P
UniRef90_D8DTC1 K E T D G A F D M T V A P M V N T W G F F G F K T G K E P S K A V V D S L R N
UniRef90_G8R4G4 R E S D G L F D V T V G P L V E L W G F F G K T K N I D I D S S K V D S A K S
UniRef90_UPI0004668B4E K I S G G G F D I T I E P L S L W D F T S Q N P V I P P E N E I K E D V K
UniRef90_W8KM56 E A T E G L F N P A L T G E L F A L W G F Q S D D P Q G P P D E A E I Q A L L E
UniRef90_I0K6K9 G L T Q G A F D I T Y G G I D K R L W N F D T T M D A L P D P E Q V Q
UniRef90_UPI00040B4B1C R A S G G A F D I G M G D A V S A W G F G P A E A S P D R I R S A T Q A
UniRef90_H5SRB2 A L T S D G A F D P T I G K L V D L W G F T Q D W D M G R I P S P E E I L L V V
UniRef90_F0SCT5 K M T N G A F D V S I A A M D K L W K F D G S M D M T M P T A E A I K R S V Q
UniRef90_UPI000375D479 R E T D G A F D P T V M P L V E A Y G F F G A K N V A R T G E V D V D S L R K
UniRef90_A0NPT2 V E S E G A F D P F V G D L V S A W G F F G P E T D A P D L S K A A Q L Q G D W
UniRef90_UPI0003667C1C R D T D G A Y D P A G G A L V N L W G F G Y D Q A G F Y A P A A A A I D E V L A
UniRef90_Q2NTU6 A K T G G E M D I T I G P L V N L W G F F G P E K Q P T K T P D A K Q I E S A R A
UniRef90_R6Q1M6 N T T D G A K L N I A M G S V L R I W H D Y R E A A D N Y R V P S S E I D A A A R
UniRef90_C4Z2W9 K E T K G A F D I T I Y Q V M E L W G F T T K N Y R V P S S E I A D V L K
UniRef90_R6V2J7 K S T G G A F D I A Y P I M A E W G F T T G D F K V P S K E T L D G L L E
UniRef90_R6TDS4 N Q T S G M M N I A M G S V L K L W H D E R E Y A S Y H P N L E G K L E A A K H
UniRef90_R6PN09 K E T D G L F D C I T V M K L W H L R D E G N F R V P S P E E I L A E Q L A
UniRef90_G0L1Y0 T H T K G H F D P T V G I L V N A W G F G P G K Q M E M D S A R V D S L L R
UniRef90_B4S8H3 T M T D G A F D V T F K P V G Q L W N V K E R T A P P P Q D S I A T A L S
UniRef90_UPI00016C4774 L K S G G A F H G Q V G D L V R V W K E G E R A G R V P P E A V L D R I A A
UniRef90_UPI0004790F58 V Q S H G A F D I G V G D L V D A W G F G P A G P V P D E S R I G A L K Q R V R

UniRef90_UPI0003639239 K T G L Q H L R V I Q G V S G Q W L Q K D L Y V D L L S T M G E G Y A T D H L A R
UniRef90_G4F9W3 R V G F D A V E L D S Q N M Q A R R T R D V L F V V D D L S S G V A K G G H A T D D R V A T
UniRef90_W2D5A6 R V G F H Q S G L R I E A G Q L S T K K D A A V Q V L D D F F N S I A K G G Y A T V D R I A G E
UniRef90_S0J6R1 H T D I S G L I N E E A L C K F E D G E M S L D L G A I A K G Y A V Q R R L A E
UniRef90_UPI00046EEE31 L T G L Q H L K V I Q T S S T Q Q K D L P G L Y V D D L S S T M G E G Y A T D H L A R K
UniRef90_G0L843 R V G Y K K I V L N R E N T V F L K E K M K I G F F G G I G K G Y A A D H A K K A
UniRef90_C7PCX2 L I N Y R H L L D E A N T V M L K E K G M R I D D L G S G I G K G Y A A E M A K A
UniRef90_E3DQ29 N T G Y Q Y L D L N E E S A K L T Q A K V K I V D D L S G I V K G Y A A D S V R K
UniRef90_H5UXM7 R V G L S H L T V R Q T A Q G Q Y L Q K D L P V D D L G A I V G E G Y A A D N L A R
UniRef90_E0QHK6 T V D Y N K K V E I D E D A Q S V F K D K G M K I D D L G A I A K G Y A A D E I V K
UniRef90_UPI00039ADEDD Y V G M D K V K I E G E K L A K A V Q G G I Q M D A S S I A K G L G V D L V A D
UniRef90_G9XD23 K I D Y R K I V L D D T A Q T V F Q D E G M V I D D L G A I A K G Y V A D E I K
UniRef90_R5UVP8 Y I G M E K L L K I A G C H L L K E K E M E I D D A S S I A K G L G V D L V A E
UniRef90_I3YT27 K V G Y Q N T I L D P E N V T V F L K E G M K I G F F G S I G K G Y A A D K A K K
UniRef90_L8JV15 I V G F D R K I K F D G S M A W K E D P R V Q L L D D F S A S A K G Y G V D V A A D
UniRef90_R0CVU6 A S G W R K L T L D G D S L F E Q P G G L R L R D D L N G S I A K G F G V D Q A A
UniRef90_C6PNX3 L V N Y K D I L N E K D R T I K L R N K G Q I D D L G G I A K G Y A A D E V K N
UniRef90_UPI0003805891 Y I G Y R K V K L N S K E K T V Y I E E G M S L D E L G A I S K G Y I A D Q V A R
UniRef90_UPI0003B49F9A H V D Y R K V Q F D D Q N Q T Y L E D K G M I I D L G A I A K G Y I A D V A K K
UniRef90_A0A010S0Z0 R V G Y A H L R I E G D Q L C K D A P V I E V D D F S S I G A G Y A I D R I A A
UniRef90_J4QQN2 R C G W Q R K V L D D A E T A R Q A A F P G G G A Y L D D L G S I A K G Y G V D R A A M
UniRef90_R5VRS4 L T D P S K M Q F S A A E T G A V S F S V S M E L D D L G S I A K G Y T S S A M M D
UniRef90_C5TL27 M V G T D K L K L S Q D G Q Q P K T H P E V Y V L D D L S S I A K G F G V D K T A A
UniRef90_A4XSP9 R V G Q Q H L K I D G E L C K D A D V V Q V D D F N S I A A G Y A V D L T V E
UniRef90_A3W0B5 K R T S A Q D A L I S E I L G I R K S A P V I D D L N G I A A G Y G V D R L A D
UniRef90_UPI00047EB890 R I G Y K K I L L N E K E H S I F L K E G M K I V D L G S G I G Q G Y I A D K V K A
UniRef90_M5T8D3 R I G G E H I Q A R I D P A L K K A I G E R V V D L G S I A K G H A V D R Q V E
UniRef90_Q12W74 L V D C K K I V I E G N T I S T E P G M K V V L G S I A K G Y A V D Q A I E
UniRef90_Q7VNU3 F V G I D K L A L N I E H K P T L T K P N L Y L L D L S S I A K G F G V D K I A D E
UniRef90_Q9HZL2 D V G H R H L R I D G Q R L C K K D A A V Q L D D F F D S I A A G Y T V D A V G E
UniRef90_UPI00047A7B2D L V N Y R N I L N D Q N K T V F L K E K M R I D D L G S G I G K G Y A A E R A K
UniRef90_UPI00047B5ADB H V D Y K K V E L R K D S G E C S V R S A A R L D L G S G I A K G Y I A D R L K E N
UniRef90_F3L537 Q V G Y E A L E F D L A S R T L V K T S P R A L D D F S S I A K G F G V D R L A N
UniRef90_U5RXJ0 L V G Y D K I K V D E K N K V M L T Q P G M A L D D L G S I A K G F A A D E V L K
UniRef90_T0C4V3 K V G F E K I I F K D G A L T K T I D G V Y L D L S A S A K G F G V D A I I E
UniRef90_R7CFR1 K C N Y H N I S V D T D N E I T L K T D D T A I L E S F S A T A K G Y I A D R L K D E
UniRef90_U1K3G1 R I G V D K L I L N D T G L A K T I A G L E I D D L S S I A K G Y I A D R V A E
UniRef90_U6ZSD6 R V G H G L R I E G A Q L C K D A A V E V D D F N S I A A G Y A V D R I A A
UniRef90_W2COP4 Y V D Y K Q V R V N G K V Q M G T S K G E I D D L N G I A K G Y I A D G I A K E
UniRef90_UPI000475E660 P T H A V L K L D M P G A R V R K A M P I T I D D L N G I A K G Y G V D R L A E
UniRef90_R5V4C2 H V N Y K N I E I K G N Q V R L K D P Q A K I D D L G S I A K G F I A D E M R S
UniRef90_B2I7F2 R V G W Q H L E R T D D G H W L P G G G T E L D D L S A I A K G Y S V D A V A A
UniRef90_Q9A3Y8 A C G W K R L V L D T G E A H F Q P G G L K I D D L N G I A K G F G V D Q A A A
UniRef90_L0DB94 R T G Q H H L S L D P E A R R T T F D R A G V A I N L G S I G K G Y A I D A A A E
UniRef90_R7CFE6 N V G Y D K V T L D G N K V T M P E G V T L D D L G A A G K G I G C D A A Q K
UniRef90_UPI0004684ED4 L V N Y R N V K F D A E R T V Y L T R K N M K L D D L G S I A K G Y I T D Q V K K
UniRef90_R4I1S2 K V G L H H L H L L S N S K G E W L Q K D M Y V D D L S T L G E G Y G V D E L S R
UniRef90_R5NQV5 Y V G M G R L R L E E G R L L K E K E I S M D D A S S I A K G L G V D L Q A A D
UniRef90_UPI000475E660 L N Y R N I Q L D E N A E T L F F S D K R I S D D L G S I A K G Y A V D Q G I A
UniRef90_UPI00031F68EC M S G V R H L E Y D R E E R R I R R E A A Q V I D D L S G I A K G Y A V D A T A E
UniRef90_UPI0003B59A1D Q V G Q R H L Q V N G T Q N E L C K S A N V I D D V S A I A K G Y A V D K V V D
UniRef90_N2B7C1 A I D Y S N V V D G N E V T L T Q P D A A L D D L G S I A K G Y I A D K M K E
UniRef90_B0UNI9 P S G P D L Q I D R P G C R A R K R A P L A L D D L S G I A K G F G V D E M A R E
UniRef90_C3WG92 Y I G F S K I V L D G N E L Y Y S E D K A E S V D D T G S F L K G Y A V E K A K E
UniRef90_F0K473 L V N Y T D I V L D K K N S I M L K K Q K Q S I V D D L G S I A K G Y A A D K V K E
UniRef90_F0BEK1 R C G W Q R L T L D D Q R V L Q P G A T A L D D L S G I A K G F G V D C V R H
UniRef90_B8KY17 L V G A D K L V W S P T R R E G K T D D Q V G I D D L S A I A K G Y A V D L G A D
UniRef90_L8D567 K I G V D L D T T D G L S K S V D G L R L D L S F S A I A K G Y G I D R V A Q
UniRef90_U2DTH5 L V D Y R D I L L D E E G T V M L R R P G Q K L D D L G A I A K G Y A C A V A G Q
UniRef90_G7UQR9 R P R W S Q L A L R G Q P L A L L Q P G A V Q I D D L S A I A K G Y A V D L L L Q
UniRef90_W0H709 R V G Y R R L L S I D N R R L C K D S D V E I D D L S M A A G H T V D R I A A
UniRef90_D7A7N7 R V P A H D A L E I D G T R V R K R V P I T L D D L N G I A K G Y G V D R L A G
UniRef90_A6C820 K V G Y Q F K L S E Q N R T V E L L K S D D M R L D D L G S I A K G Y A A D V A L Q
UniRef90_M5U4L9 Q I G Q Q H L E A R I D P P A L K K S I P E R V D D L S A I A K G H G V D R V E
UniRef90_F8EG00 Y V G F Q Y I T F D S V I S V A K Q K P N T R L D D L N S I A Q G Y S V D Q V A A
UniRef90_Q0ABS9 A R P S L R D L R E E D G R L A S D H T G L R L D D L N S G Y A K G Y I A G Q A V D
UniRef90_N9WH94 K I N Y K D V E I N E E T K E I F K K G M L L D D L G S I A K G Y T A D E I V K
UniRef90_H0C4T6 R V D A R R L V L D R A G T A Y L A E Q G M A L D D L G S I A K L P I L E A G M Q
UniRef90_Y0KFG4 H T G W Q K L Q L D Q S A M R V L T P G N L Y V D D F S G I A K G Y S V D L T A Q
UniRef90_UPI0004772344 P P A H C I E H Q Q S A R W I R T D R R C L L D D F G A I A K G Y A I D R G I A
UniRef90_W7C3D7 L I G Y K Q V E L N E A D R T V F L P K K M S L D D L G S I A K G F I A D E V N Q
UniRef90_D8DTC1 I V G Y Q K I K M E K K H I I K Q N P N T M L D C S A I A K G F G S D V V A K
UniRef90_G8R4G4 L I G Y K I V V Q N N S V K V P Q N G F K I D D F N S I A Q G Y T V D V V A R
UniRef90_UPI0004668B4E K V D Y Q N L K L I E G N S L T F L S P D T T L D D F G G V A K G Y I A D R L K D
UniRef90_W8KM56 Q Q P A M D Q V W I D G I R M R S H N T A V R L D D L G A Y A K G Y G L H Q A M E
UniRef90_I0K6K9 L I D Y R K V Q L N D G R S V M L A E A G M R I D D L G G I G K G Y A A E R A R Y
UniRef90_UPI00040B4B1C R H A H A H D V L E I D G A R I R K R L P I T L D D L N G I A K G Y G V D C L A E
UniRef90_H5SRB2 K E Q R E V F L D R A A K T A R L S S A N V E V I D D L G S I A K G Y I A D K V V E
UniRef90_F0SCT5 Y V G Y Q F I V L D R A A K N S T I F S R A G M K I G F G S I A K G Y A D K G R E
UniRef90_UPI000375D479 L V G F G Q I E F D M K G I R K P G P A V R L D D L N G I A Q G Y S V D R V A R
UniRef90_A0NPT2 N S R R R E V E F D R K N R R L R Y R P A T C R L D D L C S I A K G Y G V D C L S Q
UniRef90_UPI0003667C1C R R R A H Q P R L D P E G R R R L R P G G A L D D F S S I A K G Y A V D R M A Q
UniRef90_Q2NTU6 R V G L A H I E T S E G Q W L Q K S M P D M Y V D D L S T V G E G Y A T D H L A A
UniRef90_R6Q1M6 H C D L N N L V M D E E A K T Y L A D P E M S I D D V G S V G K G Y A V E M V I Q
UniRef90_C4Z2W9 H V S Y T N V E V N G Q Q V T L S D G A S I D D L G S I A K G Y T S S R V I Q
UniRef90_R6V2J7 K T K L S D V V F D K E T S S I F K T D G M A I D D L G S I A K G Y T S T R I M D
UniRef90_R6TDS4 T N I L D V I D D E R N T V L L K D K L M R L D D V G A I A K G Y T S E E I A K
UniRef90_R6PN09 K V D G S K V R I E R N T V T L K D G V T V D D L G A I A K G Y T S Q Q I M E
UniRef90_G0L1Y0 Y V G F N K V K L T E R F T V Q K T E P D I Y F D D F N A I A K G Y S I D R L A K
UniRef90_B4S8H3 L V D Y R Q I R L D R A K R T Y T K K G M E I D D F G G I A K G Y A A W R A G E
UniRef90_UPI00016C4774 D L K R P G F K L D T D A S T V T R L T D Q P L N L N A V I A K G Y I A K A A D
UniRef90_UPI0004790F58 R S A S D I L E I D Q V I Q K R A R K S A P I A L D D L S G I A K G Y G V D A L A S

UniRef90_UPI0003639239 L M E R E G I T N Y L V S V G G A L L S R G K N P S G N A W R V A I Q K P T D
UniRef90_G4F9W3 Y L D Q Q G I I E H Y L V N L G G D L J A R G G V R D D D T P W R V I G L E E V T E D D
UniRef90_W2D5A6 R L E Q E A G G H R Y L V E V G G D L K A A G R K P D D D G T P W R V V A G I E E N P P R D D
UniRef90_S0J6R1 Y A Q E A G M D H L L F S V V T G G N V L C A V G S K K P D D G T P W R V V A G I E E N P P R D D
UniRef90_UPI00046EEE31 L M E S E A G V T N Y L V S V G G A L L S R G K S A G D G G R P W R V V A I Q Q N P T D D
UniRef90_G0L843 M L M S E G I V Q S G I N A S G D M N T W G Y Q Q A N D G A P W K I T T A H P M D H
UniRef90_C7PCX2 L L Q R E G I V Q S G I N A S G D M N T W G Y Q Q A N D G A P W K I T T A H P M D H
UniRef90_E3DQ29 I M K K N E V K H A F V N L G G A V L V I G D K V D G S A W K I V A I Q Q D P R K D
UniRef90_H5UXM7 L M E E E G N V K S R Y A L V N L G G A V L A S R G S T N K P E G R N S W R I G I Q Q N P T D
UniRef90_E0QHK6 L L E E E G N G V I K S A L I N L G G G N V Y Y V Y G V T N K G G K I G I L R N F P L A
UniRef90_UPI00039AEDDD F F E S K G I H D Y M V E I L G G E N V R V K G S Q W H I G I D K P I V D D E T A S R S
UniRef90_G9XD23 L L E E E N N I K R S A L V N L G G G E I R A K G E S K N G K D F K V G I L R D P F S
UniRef90_R5UVP8 F L E E G H K K V I K R N Y M V D L G G G E I R A K G E S K N G K D F K V G I L R D P F S
UniRef90_I3YT27 L L M E K G V I S G T I N A S G G E M N T W G K N Q P N G E F W K V V A I T L N P M D N
UniRef90_L8JV15 F L T E Q G G V E H L F V E V G G E L V T A K G A K P D D G N A P W R V V E M E L H P D D N
UniRef90_R0CVU6 A L D R A G V K S Y L V E V G G E L R G V G A K P D D G N A P W R V V E M E L H P D D N
UniRef90_C6PNX3 L L I K N N I K S A L I N L G G G N I Y A L G K K P D R T Q W Y I V G I Q Q N P F G
UniRef90_UPI0003805891 Y L E K Q G V S T A I I N L G G N V I V M G T S S P N Q E K G W K V G V Q Q D P D S K
UniRef90_UPI0003B49F9A V L K D Q G I T S A I V D L G G G N I F V V G H S W R G K D W N V A I Q Q D P D S K
UniRef90_A0A010S0Z0 K L Q E M G I D S F I A D A T G G E L K A V G K K L D G S P W M V A I L E E P R D A
UniRef90_J4QQN2 A L D A L G I T S Q Y L V E V G G G E L R A R G K K P D D G S P W R V V A I Q Q N P T D A
UniRef90_R5VRS4 C F R S N G V I T S G M V S L G G G N V Q T I G T K P D D G S L W K V A I Q Q N P T D
UniRef90_C5TL27 E L E K L N I V G N Y L V E A T G G E L H G K G H N A Q D G N P W R I G I E A Q P Q G
UniRef90_A4XSP9 R L G E L G V I T S Y L V E A T G G E L K A A G F K P D D G T H W R I G I L E A K P R D S
UniRef90_A3W0B5 T L Q A Q G I N A S G L V I D G G E M R A L G L R P D D G T A W T I A V I E A K P R D S
UniRef90_UPI00047EB890 L L V S K G C T S G I V N I S G G E I N A W G K Q P D D G T P W S V V A I V N P M N
UniRef90_M5T8D3 L L L A R G A K E N V F V E I G G E V R V F G A K T D S V I K W L V Q R N P D D N
UniRef90_Q12W74 S L I D N G I E S C F V D A G G D V G R Y I G T K P D P D G I K W T V G L Q R N P D D K
UniRef90_Q7VNU3 Q L E M L G L E N Y L V E V G G E L R G K G K N L Q G L N W Q I A I E A P Q Q G
UniRef90_Q9HZL2 R L K E L G V R S Y L A E I A T G G E L K A E G R K P D D G T P W R I G I E A P Q Q R S
UniRef90_UPI00047A7B2D L L L K H Q G I V K S G I V N A A G D L T A W G Q S S G G Q P W T I A I G A D P E S
UniRef90_UPI00047B5ADB L Y L E K G A N S G L I N L G G N V L L V G K K P S G G S D S F N V A I Q K P F A
UniRef90_F3L537 L L R S R G I D N F M V E I G G S E I K V Q G L N E P Q S G Q P W R I A V R S P Q A
UniRef90_U5RXJ0 I Y K K Y N I K N G F I D L G S S I Y A V G K N E S P W G I G I K N P R G N
UniRef90_T0C4V3 L L Q S R G I K N A L V E V G G E V R T M G E S L T R S P W R I G V E S P N N
UniRef90_R7CFR1 Y L V S Q N I V K S A L I N L G G E V L C I G E K T D D N S A F K I G I Q K P F A
UniRef90_U1K3G1 V I E S H D I H D Y M V E I L G G E L R V S G K K P D D G T P W R I G I E K P F A
UniRef90_U6ZSD6 R L G E L G I S S Y L A E A T G G E L K V A G R K P G G G A P W R V A I L E E P R D S
UniRef90_W2COP4 Y L K E Q G G V T A S A I I S G I D G G E M R A A G L R K G D G R P F N A I E E K P F S
UniRef90_A0A011U9P9 T L R G F G V I A S A I V S I G I D G G E M R A A G L R K G D G R P F N A I E E K P F S
UniRef90_R5V4C2 F L N K K G I T S G V I S L G G G N V L T L G K K A D H S S Y T I V I Q K P F S
UniRef90_B2I7F2 T L H A K G V E H A L V D I G G E L R Y G Y G H K P D D G T P W S V L V E R H P Y G
UniRef90_Q9A3Y8 V L D R A G V E R S Y L I E V G G E L R G I G A K P D D G Q P W W V E L E R P P P
UniRef90_L0DB94 V V K G Y W W P T S A L I H G G R S L Y A L G P G Q F D G G A W W E I A V R N P F Q
UniRef90_R7CFE6 I L D A D K N V T S G M I L N G G S V M S Y G S K P D D G S A W Q V A V I Q D D P R K
UniRef90_UPI0004684ED4 V L V K D G I V T S A I I N L G G G N V M S Y V L G P S P T N H N W T V G I Q Q D P R K
UniRef90_R4I1S2 L M M R N G I T N Y L V S V G G A V S T N G V N G Q G K P W R V A I Q Q K P T D
UniRef90_R5NQV5 Y L Q K Q G V E T S A Y M V D I G G E L R V K G V S D K N R P W R V G I D K P I D
UniRef90_UPI000475E660 L L A K H G I T S A I V S A G A G S R I L L G D K H G K P W V M G I R H P R D
UniRef90_UPI00031F68EC R L V S Q G I E D F L I E I G G E L R G E G T K P D G Q P W W V E L E A P G A
UniRef90_UPI0003B59A1D H L L S R G I T N S Y M V E I T G G E L K A A G V K E D D N T P W K I G I E E P R D
UniRef90_N2B7C1 Y L L S Q G I T K G I N L G G N V L A I G E K E D D G S A Y T I G I Q K P F D
UniRef90_B0UNI9 V L A G A G V T A F L V G I D G G E L R A R G T K P D D G R P W A V G H E R P E P
UniRef90_C3WG92 T M R N L G V T S A F I S S I I E T I N T K P D D R K N W R I G V I E N P E N S
UniRef90_F0K473 V F T N Y K V K H G I D V L G G N I F V V G K K D R S H N W N I G I Q N P F S
UniRef90_F0BEK1 A L Q Q A D I A S A L I D V G G E L S G Y G R K P D G S A W R V L V E S A P D
UniRef90_B8KY17 A L E E L G V T D Y L F E I G G E L R V G G Q S P R G D D D W R I A I E E Q P D G A
UniRef90_L8D567 L I E H G I T N Y M V E I G G E L R V S G R K A D N E P W R I A I E E Q P D G A
UniRef90_U2DTH5 V Y R Q Q G V E S A V L S I G G N V Y T V G H Q P G G K P F D I G V S A P V K
UniRef90_G7UQR9 A L G D R E G V I D D A L V E V G G E L A G R G R K P D D G T P W R V L V E A D H A
UniRef90_W0H709 R L R E L G I H D Y M V Q V T G E L K K V G R K P D D G S A W R V A L V E A P R D
UniRef90_D7A7N7 I L G V A G I R D G L V G I D G G E M R A M G L R P D D G E A W T V A V E A P E R R
UniRef90_A6C820 V L K A H G L K R A M I D A S G D V L V L G D S P P D S C G W K I G I S D A P Q A
UniRef90_M5U4L9 M L L S R G A K N V F V E I G G E V R V A G A K P D D T D R P W M V G I Q R P D A
UniRef90_F8EG00 L L E A Q N G I Q H Y M V E I G G E V R T K G Q K S N G Q P W T I G I E N P M P
UniRef90_Q0ABS9 D L R R Q G I E R A V V N L G G D L L T L G E E P R G R P W R I G I Q N P F S
UniRef90_N9WH94 I L K E E G V K K E A V V D L G G N V Y V L G E K E K D K P W K I G V Q N P H Q
UniRef90_H0C4T6 V L R N H G V G H A L I N G G G D V L V M G Q L Q G G R P W R V G L Q R D P R A
UniRef90_Y0KFG4 A L E A A G I E N Y A L I E V G G E L S G A G S L K P D D G Q P W W V A I L E M S P S
UniRef90_UPI0004772344 V L R Q H G I E R N A L I N G G G D I R L I G S H G K R P W H I G I R H P R G
UniRef90_W7C3D7 V F A K L G V R S A L I D L G G N I F A R G T N A R G N D W K I G I Q N P A R
UniRef90_D8DTC1 F L R Q K G I K N F M I E I G G E I V T Y G L N S K R V P W K I G V T K P V D
UniRef90_G8R4G4 F L E E D N G V N S A Y M V E V G G E V R A K G N S E K D H V W K I G V T K P A D
UniRef90_UPI0004668B4E Y L K E Q G V K S A I N L G G N V L C V G E K P D D G T P F K V G L Q K P F A
UniRef90_W8KM56 H L M Q D L G V E Q S A V L N A A G D L R A L G R P Q N R P W R I G I R A P D G A
UniRef90_I0K6K9 V M K Q L G I V E N A I N A A G D L R A L G T A W T P N G Q P W T I G I A D P N A
UniRef90_UPI00040B4B1C I L G S C G I R D G L V S I D G G E L R A I G L R P D G E A W T V A V E D P E H
UniRef90_H5SRB2 I L K R Y E L D S A L V D A G G D I R V F N D W Q D R R P F R I A V G H P R D
UniRef90_F0SCT5 L M K R I G I Q A G I V N A S G D I A A W G T Q P N G K P W L I G V N N P F K
UniRef90_UPI000375D479 L L E Q Q G I G Q Y L V E I G G E I R T K G P K T G T Q P W T V G L E N P H P
UniRef90_A0NPT2 V M H R W G L P N H L V S E A G G E L R A S G R K A G G S G W Q V A I E A P E A
UniRef90_UPI0003667C1C C L E R H G L R H Y L V E A G G E L R A S G R K A G G S P W W V A I E G V P D
UniRef90_Q2NTU6 L L E Q R G I T R Y L V S V G G A V L T R G L S C Q Q P W R V A I Q H P T D
UniRef90_R6Q1M6 A A E A R G L T S A L I S V G G N V L R A I G V K P D D G S Q W S G A I V E N P W D S
UniRef90_C4Z2W9 I M K D C G I E H A I N L G G G N V Q V L G T K T D D G S D W R I A I Q N P W D S
UniRef90_R6V2J7 I Y R E C G I V K S G L V N L G G N V Q A L G T K T D D G S K W R V A I Q Q G V E D
UniRef90_R6TDS4 K L Q R S L G V S T S Y M L V N L G G N V R L I G S K A N G E K W K V A I Q D D P D E
UniRef90_R6PN09 V Y R E N D V T S G I V S L G G N V Q T L G R K L D G S L W R V A I E D P R N
UniRef90_G0L1Y0 L M E M H D V E N Y L L E V G G E L V A K G N Q L K G K P W V V G I E D P D D Q
UniRef90_B4S8H3 V L K K H D I R D F I N A G G D L L Y V E G K K G E R F W T S G I K N P D M
UniRef90_UPI00016C4774 A V R K A H P V I T A L L I N L G G D L L V A F G S P G G T G W A V I G I Q N P F Q
UniRef90_UPI0004790F58 C L D G L G I T R Y L V G I D G E M R A R G H K P D D G R A W A I A I E K P V A

UniRef90_UPI0003639239
UniRef90_G4F9W3
UniRef90_W2D5A6
UniRef90_S0J6R1
UniRef90_UPI00046EEE31
UniRef90_G0L843
UniRef90_C7PCX2
UniRef90_E3DQ29
UniRef90_H5UXM7
UniRef90_E0QHK6
UniRef90_UPI00039ADEDD
UniRef90_G9XD23
UniRef90_R5UVP8
UniRef90_I3YT27
UniRef90_L8JV15
UniRef90_R0CVU6
UniRef90_C6PNX3
UniRef90_UPI0003805891
UniRef90_UPI0003B49F9A
UniRef90_A0A010S0Z0
UniRef90_J4QQN2
UniRef90_R5VRS4
UniRef90_C5TL27
UniRef90_A4XSP9
UniRef90_A3W0B5
UniRef90_UPI00047EB890
UniRef90_M5T8D3
UniRef90_Q12W74
UniRef90_Q7VNU3
UniRef90_Q9HZL2
UniRef90_UPI00047A7B2D
UniRef90_UPI00047B5ADB
UniRef90_F3L537
UniRef90_U5RXJ0
UniRef90_T0C4V3
UniRef90_R7CFR1
UniRef90_U1K3G1
UniRef90_U6ZSD6
UniRef90_W2COP4
UniRef90_A0A011U9P9
UniRef90_R5V4C2
UniRef90_B2I7F2
UniRef90_Q9A3Y8
UniRef90_L0DB94
UniRef90_R7CFE6
UniRef90_UPI0004684ED4
UniRef90_R4I1S2
UniRef90_R5NQV5
UniRef90_UPI000475E660
UniRef90_UPI00031F68EC
UniRef90_UPI0003B59A1D
UniRef90_N2B7C1
UniRef90_B0UNI9
UniRef90_C3WG92
UniRef90_F0K473
UniRef90_F0BEK1
UniRef90_B8KYI7
UniRef90_L8D567
UniRef90_U2DTH5
UniRef90_G7UQR9
UniRef90_W0H709
UniRef90_D7A7N7
UniRef90_A6C820
UniRef90_M5U4L9
UniRef90_F8EG00
UniRef90_Q0ABS9
UniRef90_N9WH94
UniRef90_H0C4T6
UniRef90_Y0KFG4
UniRef90_UPI0004772344
UniRef90_W7C3D7
UniRef90_D8DTC1
UniRef90_G8R4G4
UniRef90_UPI0004668B4E
UniRef90_W8KM56
UniRef90_I0K6K9
UniRef90_UPI00040B4B1C
UniRef90_H5SRB2
UniRef90_F0SCT5
UniRef90_UPI000375D479
UniRef90_A0NPT2
UniRef90_UPI0003667C1C
UniRef90_Q2NTU6
UniRef90_R6Q1M6
UniRef90_C4Z2W9
UniRef90_R6V2J7
UniRef90_R6TDS4
UniRef90_R6PN09
UniRef90_G0L1Y0
UniRef90_B4S8H3
UniRef90_UPI00016C4774
UniRef90_UPI0004790F58

210 220 230 240
R E V Q A L V D L Q Q G H G I V S T S G S Y R N Y Y E L D G K R L S H L I D P A T G
Q R A Q H I I P L Q E S M S G I V S T S G S Y R N Y Y F E V E G G E R F S H H T I D D P A R T G
D Q A E R T L A V L D D G S F T S G S Y R N Y Y F Q Q D G G R R Y S H H T I D D A R T G
K S Y V G T A E L S G S G T S G S Y R N Y Y V V V N G G R R Y C H H T I D D A R T G
Q E A Q A V V D L S Q G H G I V S T S G S Y R N Y Y E L D G K R L S H H I I D D P A T G
N K V F A L L P I T H G A V V T S G S Y R N Y Y V T F N G G T R Y S H H I I D D P R T G
A H L P S Y M N L T G L A V A V T S G S Y R N Y Y K F V V I G G T K Y S H H I I D D P R T G
G R V M A I V A A K D M T I V T S G S Y R N Y Y F E E N G K L Y H H I I D D P K T G
R E V S A I V D I N G N H G I S T A G S Y R N Y Y E L D G K R L S H H I I D D S T A S D G
P D Y L G I Y Q S Q N E S V V T S G S Y R N Y Y F E E K D G K R Y H H I I D D S T S D G
R E L Q F V L E M G E G A L A T S G S Y R N Y Y V V D G K K Y S H H T I N S T P K T G
Q D A N A Y F K T Q D E S I A V T S G S Y R N Y Y F I K N G G V R Y H H I I N S T P S T G
R E L Q M I I Q F T G G A I A T S G S Y R N Y Y L H E G K K Y A H H I I D D S T S T G
N K A F A L L P L K D N A V V T S G S Y R N Y Y V T F N D I R Y T H H I I D D P R T G
Q F Y T A L A S L E D R A M A T S G S Y R N Y Y V V D D G R R Y S H H I I D D S P A T G
L N L A A N V I L E D R A I A T S G S Y R N Y Y F D H D G R R Y A H H I I D D P A T G
K R G E G F I N V K N K S V V T S G S Y R N Y Y F I S N E K R F H H I I D D P K T G
G E T V G H V Y Q A T C S I V T S G S Y R N Y Y E R Y I E V D G G V Y H H I I D D S P A T G
U P I L G S I K E A T N K T V V T S G S Y R N Y Y L E N V D G H K Y H H I I D D S K T G
D Q V E R V I T L D G N G V S T S G S Y R N Y Y F M Q D G R R Y S H H T F D A R T G
S D D H A A L P L E D D R S I A T S G S Y R N Y Y H A G S G E A R Y A H H I I D D P A T G
A D F L G I L E T K D C A V I T S G S Y R N Y Y F E E N G G V R Y H H I I D D P A T G
G A T Q I T I P L D N K S L A T S G S Y R N Y Y H V D K S G R R L S H H I I D D P K T K
D Q A Q R I L Q L N G Y G I A T S G S Y R N Y Y F E E N G G R R Y S H H T I D D P L S G
R A A H S L L A L E N A A V A T S G S Y R N Y Y H W V E V Q G R R L S H H T M D P H R G
N N V F A T F P L E D S S V E T S G S Y R N Y Y K F V T F N G I R Y S H H I I D D P R T G
N K I A V A H P M K D S A M A T S G S Y R N Y Y F E V D G E R Y S H H I I D D P V T R G
Q E I I T V M R L E N M A V A T S G S Y R N Y Y F S D A A K V S H H I I D D P R T G
Q T V Q I T V P L H N L G M A T S G S Y R N Y Y F E E Q G N R L S H H I I D D P K A L
R V A Q Q V L A L D G G A V A T S G S Y R N Y Y F E E N G G R R Y S H H T F D D P R T G
R Q P F S T L N I T D A A V A T S G S Y R N Y Y K F A V I R G K R Y S H H I I D D P K T G
D D G E A M L P L T D K S L V T S G S Y R N Y Y D R F F E K D G R R Y S H H I I D D V E T G
P E V A T T I A L T D M G V A T S G S Y R N Y Y N F F R V G K N Y S H H I I D D P T T G
D D M L G T I V K L S N M G L V A T S G S Y R N Y Y F I K N G K R Y H H I I D D P S T G
N P V V K V V K I K N V A L A T S G S Y R N Y Y F F K E G G K R Y Q H H I I N F K S G
D R T L A V M D I L D K S V V S T S G S Y R N Y Y E R C F Y E M D G T L Y H H I I D D P K T G
P Q L H R V I E P G K N G I A T S G S Y R N Y Y F Y E M D G E T F T H H I I D D P T T G
D R A E R V I A V D G Y G V S T S G S Y R N Y Y H Y F E Q D G Q R Y S H H T F D A R L G
E R I V G A C D A L Q D N E T I V T S G S Y R N Y Y T K Y K G K R Y H H I I D D S K T G
R A P H S L L A L Q D A A V A T S G S Y R N Y Y H G V T V Q G R R L S H H T M D P A T G
E M S L I G T L N V S D A S V S T S G S Y R N Y Y R V N G K L Y H H I I D D T S T G
N P L P P C I L Q L D G A V A T S G S Y R N Y Y H H F F E H G G R R Y A H H I I D D P H Q G
F E P A A N V A L H D L A V A T S G S Y R N Y Y R F F D H G R R Y A H H I I D D P A T G
P T P L G I L R L R N R G M G T S G S Y R N Y Y Q R F F E S D G R R Y G H H I I D D P R T G
D R L G V V T L N G T E F L I T S G S Y R N Y Y E K Y F L E D G V R Y H H I I D D P A T G
S R A I G S I P E M N K T I V T S G S Y R N Y Y L K V G K T I Y S H H I I D D P K T G
N T V Q A L V D L Q Q Y S I S T A G S Y R N Y Y F E Q N G K C Y S H H I I D D P N T G
R Q L E L V V E L L T K G A I A T S G S Y R N Y Y H E G K K Y A H H I I N P L T G
K N K H A R I P L A D T A A T S G S Y R N Y Y F F M E G D V R H H I I N P K T S
R L A P L R I A L H G L S V A T S G S Y R N Y Y F F D H G G R R Y A H H I I D D P R T G
D Q R M A H V A L D G Q A V S T S G S Y R N Y Y F E Y E G K R Y S H H T F D P S S G
E D P A A V V S V R D R S V V T S G S Y R N Y Y F E Y E G V R Y H H I I D D V S D G
R S L A G V L E L T D C A V A T S G S Y R N Y Y H R R R I Q D R T V S H H T M D P R T G
P K L L G I V E L N N E G M G V T S G S Y R N Y Y Q T Y S L E L D G K R Y H H I I D D K T T G
E R Y I L G I L N L K N K S V V T S G S Y R N Y Y S L Y K G K R Y H H I I N P K T G
E D A G A A L P V R G L A V A T S G S Y R N Y Y H R F D A D G L R Y A H H T F D P R T G
R G V Q A A L S V S N D L G V A T S G S Y R N Y Y N F F I E M D G Q R Y S H H I I D D P R T G
P Q V H R V L E P S G N G I A T S G S Y R N Y Y F Y E M D G E T F T H H I I D D P Q T G
D R L L I G T L H A D G M V I S T S G A Y E R Y F E V D G R R Y H H I I F D P A T G
T L P A R V F A L D G L A V A T S G S Y R N Y Y H R F F E H D G V R Y G H H I I D D P R S G
D Q A K I L A L D G G C A V A T S G S Y R N Y Y H Y F E Y E H R Y S H H I I D D A L S G
R A P H S L L S L Q D C A V A T S G S Y R N Y Y H W T D V Q G R R L S H H T M D P A R G
A K I D R F L Y L H N M A V A T S G D A L Q H V V I D G K R Y S H H I I D D P H T G
N Q V A V A H P M K D N A M A T S G S Y R N Y Y F E V A N G Q V F S H H I I N P K T G
A Q L Q T T L K M H D R A M T T A G S Y R N Y Y E A N G Q V F S H H I I N P K T G
E G I T A S L E Y G D T A V E T S G S Y R N Y Y E R D F E Q D G E R Y H H I I D D P R S G
D R V V G A I Y V K D K S I V T T G I Y E R F L E K G D K Y H H I I D D P K T G
P E R L L G V L P V I Q G V V A S S G S Y R N Y Y F F M A A G Q R R H H I I D D P R T G
A S G I T I V A L H R L A V A T S G S Y R N Y Y F D Y Q G H Y A H H I I D D P R T G
E V I E R L N L Q G D V S I V T S G S Y R N Y Y F F M Y Q G K R Y H H I I D D P K T G
G K T V G S L E G K N L S V V T S G I Y E R Y L E I D G I K Y H H I I S P F T G
Q E I Q T I L N V T R K A M A T S G S Y R N Y Y K Y Y K N G K Y A H H I I D D P K T G
D R F Q M I L V E L R D K S L A T S G S Y R N Y Y R K Y W S E T G I K Y A H H I I D D P K T G
D R T I E T L N I N D M S V V S G S Y R N Y Y E R H F I K D G V N Y H H I I D D P K T G
Q G V L A A I D T K D E A I F T S G S Y R N Y Y E R Y F M H E G R R Y S H H I I D D P R T G
R Q A F S R I S I S G Y A V A T S G S Y R N Y Y K Y V L I G G K R Y S H H I I D D P R T G
R A P H S I L S L Q D R A V A T S G S Y R N Y Y H W V E V R G R R L S H H T F D P A R A
E Q Q I V G I L W G D R A L A T S G S Y R N Y Y C F E P G K T R Y S H H I I D D P K T G
P H I L K K I R M K E A A V A T S G S Y R N Y Y E K Y A E I N G Q R Y S H H I I D D P K T G
D Q L H T A L K L T N R A M T T A A H Y R N Q Y T V N G Q V F S H H I I N P K T G
D V R R E R L E V S D V A I A T S G S Y R N Y Y R K I F N A G G R R T V S H H T M N P Q S G
A V A A P V I A L H G L A I A T S G S Y R N Y Y F Q A H G P R R V T H H I I D D P R S G
E F V A A E V D L Q G H G I S T S G S Y R N Y Y E L I E G K R V S H H I I D D P V T G
S S Y V A A V N M S D M A L V I T S G S Y R N Y Y V V D D G V R Y H H I I D D P A T G
E S Y L G V L S T D M A V I T S G S Y R N Y Y F E Q D G Q V Y H H I I D D P Q T G
D D Y L G V L S I S D K A V I T S G S Y R N Y Y F E Q D G V T Y H H I I D D P T T G
N N N A I L E L Q D F A I V T S G S Y R N Y Y V D G V K Y H H I I D D P K T G
P D Y F G I L D V E N K A V I T S G S Y R N Y Y Q R N F T E N G K L Y H H I I D D P R T G
R K L K A T I L Q L Q D K A L A S S G S Y R N Y Y H F R E V S G V K Y V H H I I D D P V T G
D N V T T F N V I A T C G V A T S G S Y R N Y Y F F T W K S E R Y S H H I I D D L K T G
A F P V A G L R V T N Q A V A T S G S Y R N Y Y F Y T I D G K R Y S H H I I D D P R T G
R E A M G V M E L A D A A L A T S G S Y R N Y Y H R V E L A G T Q H A H H T M N P L D G

UniRef90_UPI0003639239 R P I H R L V S A T V I L A T T A L E A D G W D T G L M V L G E K R A Q A L A L R
UniRef90_G4F9W3 R P V H Q L A S V T V F H P S N A W A D A W A T T A L L V L V G E Q D E A M Q M A L E
UniRef90_W2D5A6 A P L H H L L A S V T V L D E P S A L S M A D A D G L S T A L L V L V L G P F E K Q D A G W D Y A E S
UniRef90_S0J6R1 M P P E N F P L V S V T V L T D E P S A L S G L J A D A W S T A L L F N M E F E K G L A L A E K S
UniRef90_UPI00046EEE31 R P I H K L A S A T V I A T T A M E A D G W D T T S G L M V L G T E K A K A L A I K
UniRef90_G0L843 Y P S A G I L S A T V F A P N A E L A D A D A T S V V T V M G K R A G L N R M I N Q
UniRef90_C7PCX2 L P V K G I K S V T V I I S S S S F D A D A D A L S T S I Y V M G L K K G M K F I E T
UniRef90_E3DQ29 Y P A Q N N L S V S V I I S S S S F D A D A D A L S T S I Y V M G L K K G M K F I E T
UniRef90_H5UXM7 H P I Q N N L S V S V I I S S S S F D A D A D A L S T S I Y V M G L K K G M K F I E T
UniRef90_E0QHK6 Y P I N N L I V S A T S V I I T K N S M D A D A D A L S T T T F A L G L E E K A K L I E N
UniRef90_UPI00039AEDDD Y P V Q Q M L G A S V Y A P T C M E A D A Y A T A F M V L G T E K A K E I V I E A
UniRef90_G9XD23 Y P I D N E L M T S V I L T K N S M V A D A L S T A T F F A L G V D E G L K L I E N
UniRef90_R5UVP8 Y P V Q R D I S S S V I Y A P T C M E A D A Y A T A F M V L G L E E S S K K I V E N
UniRef90_I3YT27 Y P A T G T I S A T V F P K A E I A D A L A T S I F V M G K D V G V D F I N Q
UniRef90_L8JV15 Y P I H P L L S A T V F A R D C M T A D A D G L A T A F M V M G H E K A I E M L N E A
UniRef90_R0CVU6 A P T N P T V S V T V L A R E D C M S A D A W A T A F M V M A P D A S L A F A D A
UniRef90_C6PNX3 Y P D S K I I S S T V I I S D Y S I D G D G L S T T G V Y I M G L D K S I K L I E S
UniRef90_UPI0003805891 Y P V E N D I L S V T V I T A K T S T Q G D G L S T T L F L Y G I R E G L D F I N D N
UniRef90_UPI0003B49F9A Y P E N D L A S V T V I T A K T S I D G D G L T T V A F D K G V K E G L F I E N
UniRef90_A0A010S0Z0 A P I H T L A S V T V I H P S T L M A D G L S T L L L T L G P E R G W D Y A E K
UniRef90_J4QQN2 Q P V N N V L A S V T V I H P V C M Q A D A D A L A T V L V L G E T D K G L A Y A R R A
UniRef90_R5VRS4 K P A E S D L T V S V I V S E N G T L A D G L S T A L L F V M G L D K A I A Y W Q A
UniRef90_C5TL27 Q P I H N L A S I S V V A E N A T L A D G L S T G L F V L G E T E A L K L A E Q
UniRef90_A4XSP9 K P V N A H K A A S V T V A D P S T L R A D G L S T A L L M V L G P D A G M A F A Q
UniRef90_A3W0B5 A P L A A P A S V T V V A P S C A E A D A W A T A L M V L G P Q T G A R R A K E
UniRef90_UPI00047EB890 Y P A T G I V S V S V F A K Q T E I A D A L A T G I F V L G V D V G L D L V N Q
UniRef90_M5T8D3 R P V R H D A S V T V I A E S T C M A A D A W A T A L N V L G P E R A I L A N E S
UniRef90_Q12W74 Y L S R E L I L S A T V I A E T T M D A D A L A T T V F V L G E K E T E L I E S
UniRef90_Q7VNU3 K P V N H K A S I T V L A P T S M T A D G L S T T G L F V L G A E K A L E V A E R K
UniRef90_Q9HZL2 A P I H H L A S V T V I D P S T R N A D G L S T L M V L G P E E G Y R F A E K
UniRef90_UPI00047A7B2D F P V S G I K S V T V I I C P N A E F A D A M A T P V M I M G A K V G L G M I N Q
UniRef90_UPI00047B5ADB L P I E N N I Y A T V V S D S S V D G D A L S T I C F S L G I E K G M E L I E S
UniRef90_F3L537 W P I H E V S V T V I V D P S N T R A D G L A T S L L V L G K D E A L A L A E E
UniRef90_U5RXJ0 Y P V D N G V M S V T V I D P S N T I A D I M S L L V F E L G P K D G V N L V N K
UniRef90_T0C4V3 S P V E S Q A S V S V I S D T C M D A D A W A T A L M A M G A K K A I A F A K E S
UniRef90_R7CFR1 Y P D N G L I A V T V I S D Q S V D G D A L S T T C F A L G L E E D G M K L A E S
UniRef90_U1K3G1 R P V H E L V S V T V L H P S A M T A D G L A T A L T V M G T E R A K A Y A T E
UniRef90_U6ZSD6 R P I H K L A A V T V V H R S A L M A D G L S T L L L I L G P E A G W D Y A E K
UniRef90_W2C0P4 M P V E S D V V S V I K S D H S G D G D G L S T T C L I L G S K E A G K R L T E K
UniRef90_A0A011UPP9 A P L R P P A S V T V I V A R N C A E A D A W A T A L M V L G V E A G C A L A V R
UniRef90_R5V4C2 Y P V E N H L Y V T V I S D I S M D G D A L S T T C F S L G L K K G M Q L V E Q
UniRef90_B2I7F2 T P I P D P A L V T M I A S S A M H A D A W A T A L N T L G R E A G L A L A N T
UniRef90_Q9A3Y8 A P I H A T V S V T V L A K C I L S A D A W A T A L T V M P P E R
UniRef90_L0DB94 E P A F G P A S V T V L A P T A A E A D A L S T A F Y L L G P A A A S Y V T A
UniRef90_R7CFE6 Y P A R S G L T V V V C D D G L N A D G L S T A C F V L G K E K A G E E L L K K
UniRef90_UPI0004684ED4 Y P F Q N N L M V S V T V I T K N S V D G D A L S T A T F D K G L E K A G E Y I E H
UniRef90_R41I52 I P I H E L V S A T V I A P T A L E A D G W D T G L M V L D T K K A L Q L A Q E
UniRef90_R5N9V5 Y P V Q R D I S S V Y A P T C M E A D A Y A T A F M V L G L E K S K E I V L K
UniRef90_UPI000475E660 Y S A P A V Q S V S V L A N K A L D S D A L S T T V F V L G V S K G L A L I N Q
UniRef90_UPI00031F68EC C P V N Q V V S V S V L H R E A M L J A D A W A T A L T V L G P A G M S V A E R
UniRef90_UPI0003B59A1D R P V H E L A A V T V I H N S A A T A D G L S T V L L V L K G P E K G W D Y A L E
UniRef90_N2B7C1 Y P E N D L L S V T V I C K N S V D G D A L S T S C F A L G V E K G M E L I E T
UniRef90_B0UNI9 A P A N R L V S V T V L A E T C M V A D A W A T A L L V L G E T E A V R L A E R
UniRef90_C3WG92 F P V A D K K M I V V I S D N A F F S D M Y S T A F F T M P V D E L L D Y S D K
UniRef90_F0K473 Y P E N E V L S V S V I S D N E S I D G D G L S T G L Y I M G V K K G I D L V N S
UniRef90_F0BEK1 A P I H A P A S V T V L A R D A M Q A D A W A T A M T V L G T D A G L A Y A A K
UniRef90_B8KY17 R P I H D V V S V T V L H P S T M M A D A W A T A L I V L G S E R G L A L A E S
UniRef90_L8D567 M P I H D L V S V T V L H P S A M T A D G L A T A L T V M G M E R A K E Y A E
UniRef90_U2DTH5 W P A Q S D L S V T V I S Q D G A L A D A M S T A L F V E G L D G I K E N
UniRef90_G7UQR9 R P V P Q A A S V T V V H S A M E A D A W A T A L T V M G A E A G L R F A Q A
UniRef90_W0H709 A P V H D L A S V T V I H P S A L M A D G L S T L L L I L G P K R G W D Y A Q Q
UniRef90_D7A7N7 A P A Q S P A S V T V L A P T C A E A D A W A T A L M V L G A G K G G E L A R
UniRef90_A6C820 L G L T D D Q S R V T V I A P N G M T A D S L A S A I S V L G P D K G I K L I N Q
UniRef90_M5U4L9 R P V H D M A S V T V I A P T C M A A D A W A T A L N V L G P D A F D L L A K K
UniRef90_F8EG00 E M E Q S A I S V T V F A E D A I T A D G Y D T A F F V M G L E A V K E F L R T
UniRef90_Q0ABS9 H P A R G L S A A T V V H S D P V R A D A A S T A L M L A G P E D W P A V A R R
UniRef90_N9WH94 Y P E S E I A G V T V I V S D K S I D G D A L S T L V F I K G I N E G M K F I N N
UniRef90_H0C4T6 Y P T G G V H G V S L L A R D V A E V N G L G A M M V R G A K A G Q A L V A R Q
UniRef90_Y0KFG4 F P I N R T S Q S V L H A Q S A M I A D A L A T A F T V M G T Q A A L S Y A E Q
UniRef90_UPI0004772344 W P A T K V S A T V I A S S A T J A D A W S T A F T I Q G A D G I K M
UniRef90_W7C3D7 Y Q F N N E A G V S I I S K K S I D G D G L S T A F A K G V K G G L A Y V E Q
UniRef90_D8DTC1 Y P V Q H N I S S T V F A D N C A T A D A Y A T A F M V T G L D G A K K L L A K
UniRef90_G8R4G4 F P A R N Q L S S V T I I A D N C I D A D A Y A T T C M V M G M Q A Q S Y I E G
UniRef90_UPI0004668B4E Y P Y R N G V S V T V I I T K I S G D A D G L T T A C F S Q G L E G G L K L V N S
UniRef90_W8KM56 H P A R G T R S V T V I H D H A A E A D V A S T A L F I A G T D D W P R I A A R
UniRef90_I0K6K9 Y P V L G L K S V T V I A P N A E L A D A L A T P I M V M G P Q V G L H L I N Q
UniRef90_UPI00040B4B1C A P M N P P A S V T V L A S T C A Q A D A W A T A L M V L G P D R G G E V A L R
UniRef90_H5SRB2 Q P A R G L I S A T I L A P T A M E A D A L S T A V F V L G E H R G L A L I E S
UniRef90_F0SCT5 Y P I S T G L T S V T I Y G P S A E F A N A L S T S I M V M G A R E G N K L L R Q
UniRef90_UPI000375D479 M M A G D L L S V T V F A P D A I T A D A Y D T A F L V M G L T E T K R F L A R
UniRef90_A0NPT2 A P V N E L L S V T V I A E S C M T A D A W A T A Y M V M G C E K A L A H A Q
UniRef90_UPI0003667C1C Y P V N G L A S V T V L A P T C M A A D A L S T A L T V L G P E E G L A Y A D A
UniRef90_Q2NTU6 G P I H K L V S A T V I A T T A L E A D G W D T G L M V L G T E K A K Q L A L Q
UniRef90_R6Q1M6 W P A A Y F N G V S V L A P D S G V A D C L T T G L F C M P L E E G Q K I V E S
UniRef90_C4Z2W9 Y P S E S D L T V T V I C S D G T J A D A L S T A L F V M G L D G A K E L Y R S
UniRef90_R6V2J7 Y P A D S G L S V S I V S A D G T M C D A L S T S L F I M G K D K A I E Y W R A
UniRef90_R6TDS4 M P E N K F I V S V S V A K D S A L A D A L S T A L F N L S L D D G K A L I K D
UniRef90_R6PN09 Y P A N G F I S V T V I V S E D G T J A D A L S T A L F I M G P E K A E A F W K E
UniRef90_G0L1Y0 F T K N N T L A A T V L A D N C A K A D A Y A T S F M A M D L D E V L K L L T V
UniRef90_B4S8H3 Y P A K G M K S A T V F S A N D P A K A D A Y A T A F F I M G Y E K A L A V V A E
UniRef90_UPI00016C4774 R P A E G V S S T V V I S N N V T A N A L A T T L C V L K P E E G L K L V A G
UniRef90_UPI0004790F58 Q P A N R L A S V T V V M P S C M L A D A W A T A L L V L G E T A G V E L A Q R

UniRef90_UPI0003639239 E H L A V Y L I T K E A D G F S W M S P Q F R N F I I E
UniRef90_G4F9W3 N N L K V L L L V R E G E Q W R S I A T P E F
UniRef90_W2D5A6 H V P E V E A L W I M E D G E I R C S G G F E F H E E K
UniRef90_S0J6R1 Q H L A V F L I T R E G N K F V W S S P L F K S F L
UniRef90_UPI00046EEE31 I P N V E A C I L I D D G K G N I H T S D K I E
UniRef90_G0L843 I H Y L G C I I I D D E N K I Y T S Q N I N L
UniRef90_C7PCX2 I D E V E A M F I T K E L D V Y L S S G L K
UniRef90_E3DQ29 Q K L A V Y L I T K E P N G F T W M S P Q F K T F L
UniRef90_H5UXM7 T P N T E A M F I T S D K K I Y M T S G L K
UniRef90_E0QHK6 N P R V E A C F I Y Q N E Q G E V W V S E K M K
UniRef90_UPI00039AEDDD T P N V E A I F V T K D K K V Y M T S G
UniRef90_G9XD23 N A E I E V C F V Y E Q E G N K V W M T E K F K
UniRef90_R5UVP8 L P K I E C I V I D E K G E I F T S E N I E
UniRef90_I3YT27 N P N L D A Y L I Y T D A D G E E R L Y A T A G I K
UniRef90_L8JV15 R D L A A L I V S R G P G G E E R L S S A L R A M L
UniRef90_R0CVU6 I K G I D A I F I T E N R E I Y I T S G I K
UniRef90_C6PNX3 L E G V E A V F I D K D H G V H L S D G L K
UniRef90_UPI0003805891 E T D P E T Q A I F V I T K E G V V Y V T D G I
UniRef90_UPI0003B49F9A H D I G A F F V I R T D T G F V T R T S Q A F D R
UniRef90_A0A010S0Z0 H D L A A L F I L R D A D E Y R V A A T P A F Q A
UniRef90_J4QQN2 H A S E F D A V L C T E D E T L Y V T E G I Q
UniRef90_R5VRS4 E N L A V F L I R T P Q G H T K M S S T F K K L L
UniRef90_C5TL27 R N G I A A F F V T R E G E G F V T Q G T T A F E Q
UniRef90_A4XSP9 R G L D A L F L L R N D A G E V T
UniRef90_A3W0B5 L K G L G C I I V D D K G M V H A S K N I
UniRef90_UPI00047EB890 N E G I E D L D T L L M T R G G
UniRef90_M5T8D3 L E K L A I F L I I K N G D G E T Q M S S Q F K K L I D Q
UniRef90_Q12W74 H R L A A L F I V S R Q G N G F D S R T T P R Y E Q
UniRef90_Q7VNU3 M Q K I A C I I D D S N Q I H T S N N I K L
UniRef90_Q9HZL2 I P D I H V L Y I T D D Y E I V S S A G F P K
UniRef90_UPI00047A7B2D N Q W A V L L A R T E A G E S F P S S A F A R
UniRef90_UPI00047B5ADB M P G I S C E V I T K D T K I Y T S S K F K
UniRef90_F3L537 N K L K A F F I Y R S D D G S E T S T P G F D K
UniRef90_U5RXJ0 L D D V Q A F F V T S D Y E I H Y T R D F Q K K I K
UniRef90_T0C4V3 H Q L P V Y L M Y K S P E G K S Y A S E A F Q P Y L
UniRef90_R7CFR1 H D L A A F F V L R A D T G F V T R G N P A F E Q
UniRef90_U1K3G1 M K G Y E A L F I L K N G K L V R T K G F E L K E E
UniRef90_U6ZSD6 R G I D A L F L M R D A D G
UniRef90_W2COP4 T D G V E A I F V S D D G T I T C S S G I N R
UniRef90_A0A011UPP9 L G L A V R Y L E H N N D A F T Y Y S P A F T R L L H K
UniRef90_B2I7F2
UniRef90_R5V4C2
UniRef90_Q9A3Y8 H P E I G A I F V
UniRef90_L0DB94 Y N A D G L F I V D D S D H V W M T E G M K
UniRef90_R7CFE6 K K G T D A I F I T K D K K V Y I T S G W K
UniRef90_UPI0004684ED4 K E L A V Y L V S K T N N H F T I M T P Q F K A F L
UniRef90_R41S2 H P G L E V C F V Y E R D G K E I W M S P A F E K
UniRef90_R5NQV5 L P G I D A I I I D D G K E L L H C S D D L
UniRef90_UPI000475E660 E G L A A H L V T R E A G G F A E Q S A L Q A M L
UniRef90_UPI00031F68EC H E V I A A L F V V R D G T R F V S R A T P T F
UniRef90_UPI0003B59A1D L D D T E A V F I T S D Q K L H T S S G I
UniRef90_N2B7C1 N N L G V L I V D K D M K I Y K S S K M N I E L K
UniRef90_B0UNI9 I K G V D C I F V T K K K E V Y L T N D I K
UniRef90_C3WG92 T D L A V R F L T R Y D G N L H M S P A F A Q H L
UniRef90_F0K473 R G L A V Y M V S R D G D D L V
UniRef90_F0BEK1 I N Q L P V Y L M S K T P S G E T W S S S A F K P Y L
UniRef90_B8KY17 L D R E E F S L L A V D A T G A V Y L S D N I R
UniRef90_L8D567 R Q M A A R L V V A S A S G Q E H M S E R F A A L L
UniRef90_U2DTH5 H Q I A A F F V I R A D K R F I I R S N P A F D Q
UniRef90_G7UQR9 R A G I D A L F L L R S T C G
UniRef90_W0H709 K P G T A C L L L R H E N G K M Y E S S C F S R Y E
UniRef90_D7A7N7 H N L D T L L M S R R N D N G G V E H T S N
UniRef90_A6C820 R K D M D V Y V L Y T D E A G R L F S T E G V K
UniRef90_M5U4L9 L G V Q R I M L V E P D G R I H L T E S M Q A H L R
UniRef90_F8EG00 L E G V D A I F V D V N K N I L Y L T D G I E
UniRef90_Q0ABS9 R P G V Q A L V V S Q D G G A W Y S A G M A A
UniRef90_N9WH94 H D V A V L L M E Q T P E G K E H L S P Q L
UniRef90_H0C4T6 Q Q E I N Q K A L L V D D Q G K V Y G S
UniRef90_YOKFG4 F K D V E A I F V T K D K I Y L T S G L K
UniRef90_UPI0004772344 H P E L M A Y F I Y A D D N G K V W Y S P K L R E K
UniRef90_W7C3D7 K D G V E A Y F I S T D E N G K V N F T K G F E A F I
UniRef90_D8DTC1 L E D V Y G I F I T D D Y E V Y S D G A K D F L E
UniRef90_G8R4G4 L G I E K V M L I D D A G V H M T P A M E K R V R
UniRef90_UPI0004668B4E L P N I G C I L I D D H D R L F T S K T I R L
UniRef90_W8KM56 L G L D A L F L L R D E E D S I R
UniRef90_I0K6K9 L P N V E C I L I T D D G R I V R S S G L K D I E
UniRef90_UPI00040B4B1C Y P A Y K G V F
UniRef90_H5SRB2 H P E L D A Y L L Y T G P D G Q L F A T K G
UniRef90_F0SCT5 H A G L D A I F V V R T P L G A V
UniRef90_UPI000375D479 R G I A A R F L R R P G A L L E T T S A W R A L L Q
UniRef90_A0NPT2 E G L A V F L I T K T D H G F T W M S P Q F S S F I
UniRef90_UPI0003667C1C L D G V E A L W C T D G Q V I T S S G W S S H E K K
UniRef90_Q2NTU6 G S L D F E M I L Y D G S K V Y M S E G I
UniRef90_R6Q1M6 H S D E F D M I L Y D K E N K V Y V S E G I
UniRef90_C4Z2W9 L N D V Y V M W L D M D N K I H Y S S G F E N F L I E
UniRef90_R6V2J7 H K D L F D A V M M T D D G K I L M T K G L R
UniRef90_R6TDS4 R R E L E A Y I F F D E K G E T H M T P G F E A L L T K
UniRef90_G0L1Y0 D P S V A F I L I D S D N K V M R S P N L D Q F I Q E
UniRef90_B4S8H3 V P G V A A C L I I T S D G K Q I R S P G L K L F E
UniRef90_UPI00016C4774 H G M N A L F V L H D G D G L R Q I S
UniRef90_UPI0004790F58

UniRef90_E8LKY2
UniRef90_UPI00036788C9
UniRef90_UPI00029AF280
UniRef90_D7UX57
UniRef90_A0A024IT44
UniRef90_UPI00039AB2F4
UniRef90_UPI0003821C86
UniRef90_E2NNP8
UniRef90_UPI000477422D
UniRef90_Q1QHD3
UniRef90_A6G5T6
UniRef90_R5QC77
UniRef90_UPI0004777781
UniRef90_J5UWF3
UniRef90_H7EKI2
UniRef90_UPI00042901B2
UniRef90_H1ZAY3
UniRef90_F2I773
UniRef90_C0EAE2
UniRef90_UPI0003698078
UniRef90_A0A024HKT0
UniRef90_I4N5F2
UniRef90_H0Q0B4
UniRef90_E0E3Q3
UniRef90_Q01TF1
UniRef90_UPI0004059A33
UniRef90_I9BU91
UniRef90_B1R410
UniRef90_A0A031GUB6
UniRef90_UPI0003568FC
UniRef90_D1Y205
UniRef90_R5DLI3
UniRef90_G6CGP6
UniRef90_A5W6F6
UniRef90_I0GMH5
UniRef90_D8GF39
UniRef90_G0VRC7
UniRef90_C6KV02
UniRef90_V6S8F3
UniRef90_W7UZ23
UniRef90_Q31EK5
UniRef90_C6W729
UniRef90_T1XM63
UniRef90_R6YKT1
UniRef90_UPI000329F847
UniRef90_D2ZE74
UniRef90_U2S685
UniRef90_A6DR08
UniRef90_U2D1S1
UniRef90_Q0F1W1
UniRef90_R6WJ31
UniRef90_UPI000255BF45
UniRef90_UPI00047EE1B3
UniRef90_UPI00046A4841
UniRef90_UPI000345A642
UniRef90_H1CT89
UniRef90_F8J634
UniRef90_Q52718
UniRef90_F5SQE8
UniRef90_W6T4N1
UniRef90_M9VZ78
UniRef90_D4LKL4
UniRef90_J0ML82
UniRef90_A1VQL2
UniRef90_A7IQ70
UniRef90_UPI00036B252B
UniRef90_I1ZLT1
UniRef90_I0QUJ5
UniRef90_G9WGT9
UniRef90_UPI00047D373C
UniRef90_R5PJY7
UniRef90_L0DDV9
UniRef90_UPI0002899AB5
UniRef90_I5AVS6
UniRef90_E1VME0
UniRef90_UPI0003A32CAD
UniRef90_UPI000372F288
UniRef90_UPI00046A04AB
UniRef90_A6GZN4
UniRef90_R9N672
UniRef90_Z4WZU9
UniRef90_UPI0003A938BB
UniRef90_D5BHR4
UniRef90_E4RU02
UniRef90_R6NK45
UniRef90_G4KU39
UniRef90_UPI0004632FB5
UniRef90_R6KB45
UniRef90_UPI00037A9B70
UniRef90_UPI00037D4909
UniRef90_UPI000349CA52
UniRef90_C2KUI0

1 10 20 30 40
K P A S R T Y Y L F S T I I T V T I P G T Y E G G E A L R K I E E A F K E V I S D
E R F S F A E P H L G T I V E I L K V L Y A P E E T A N E A A K A A Y A R L L G R E L D A
E Y I K S E V I M G T I V K I K V Y D K E D K E A A L D K G A Y K R I L G R E L A
R H A L N G P T M G T R W S A L F Y T E G F D P E P V R H A L Q A E M D E V D S
Q E T R L A M G T L A E S I T V L D T E S Q A K A A L E S E A G F A E E V I S N
G G A L G T S Y S I T Y L T E R E L D I Q S E I D S V F F E V I N
E P I T Q K E F C L D T I V S I T Y L Y D S S S K K I L N N C F D L C K K Y E
R F G G P T M G S S Y S V Q Y H A G S P A S P A L V L K R M E V E A I L A R G V D
R I R E I S G G A T M G T T W S V K F V G S S A S L Q T L H R M I P L A L A R V I
G P T M G T T F T V V V A G R D A D G E A L L A E A I Y A E L L E A V N
S H K E F C L D T I V Q I T Y L Y D S S S K N L L N N C F N L C K K Y E
Q Q S Y V F G T L V E V I S V Y D P E A Q S A R Q A L A A V L A R F D A L H
S E E F F A M D T K M T V K V Y G E G A P E A A R E A K E R L Q G L D E
S F A A M N T F M S Y S V F A D E K K G N E A C A D V R D E I A R L E N
T S G E T M G T S Y H I S Y Q L P D G T N E A A I Q A I D E R L Q R I E
F S R A F F L M G C N F D V T I V A N Q L E A H A L I D G A I A E M K R I E
E L M G T V I E M K V G H P E A E A L L E K S E A K L R D Y E
E R S L F A M N T Y M T F T S Y G E N S E I A L Q E A A D F V K K V E E
R E S R V L M G T R V D I V A S A Q G A D A H E A V R Q A F A E M E R L E
R F G G P T M G S S Y S V Q Y T A K S P S P Q R L Q A E V E T I L G E V D
S F S G P T M G S R Y T V Q Y V A H S P R P R Q V Q A E V E R I L G G E V D
E V H R Q E G Y V F G T R V D L T V Y G E S A D S A A A M N E V L S E F D R L H
F S T I N Y I L D T V N Q I V I N T A R K S K A D K V L P G S D K I V L D I H
R L Y E S V E H M G T L V R I K L Y A E D Q Q A A P A F R A A F D R I A Q L D D
Q I Q I M S G F A Q G T T W H V T V W D E E P N T T K L K E L V V K E L R L D D
R H A L N G P T M G T R W S L F Y T A P D F D P G P L Q A A L Q Q A V D T V Y
K G F Y F D T V V E I S Y Y C N N G E Y I L R K A F D L C K Y Y E
R L Y K T R G H V F G T T V D I T I Y G G S Q Q R A D L L A E V L R E F D R L H
A M D T V M T L T A F G S H R E E A L N A A Y E E I L G E V D
R K H S V S F Y A M D T P I T A Y G S P R G K R A L S L A R A R V K Q I E
Q V T G Y K L N T Y V A V S A Y H K T S E L K E T L N E A L R I C D T Y E
K P Y E K S D Y L G T I C T L R Q Y N K G D K E A V L D K A F A R I K K S E
R L G D G P T M G S S Y S I L Q V Y R E G P E P A Q V Q R A V E T L L H D I D
K K S D I V L D T A V I T L T A R G K D A Q A A I D E S M A R L K N I D D
P Y T Q N E F V M G T T C T L T I Y D K G K K S A L K D G F A M I H H V L D
M D T V L R A S G K E A K E A V D E G F D R L D Q L D D
R I A L N G P A M G T R W S A L F F A D R V D T D A I R A A L Q A A V D E V D
M G N R F E I S V V G P D Q N W L D K I N L A I E E I K R S L E
F A M D T F M N K A Y G S N A E K A L S E A E K R V Y S L E
E K V Q Q T F Y V F G T E V Q V E I V D P K E K A Q H A L Q T I E A R F Q K F N
R T F Q I T G E A Q G T T Y A L T Y Y A K R Q L A T K R E I D S A F K S L D
R I T S G A T M G T R Y T A R V V P P E E T D V Q A I V A G L E A A V T A V D
Y Q T D G G I V F G T I Y K I T Y Q S E E N L K D E I E A E L K A V D N S L
V Y S Y S A V L M G S P I L L K L F R H D E A L A G R V F A L T K R Y E
R V Y S Y S A V L M G S P I L L K L F S H D E A L A S R V F R L I R H Y E
E M Q S I Q V F A M D T V M G L R A C G G E T E A A L A A A E D E I Y R L D
Q K H V R S S F A L N G A E M T F T V F H H N S K A E Q A M D E A L V Q I D K V E
Q I S I R S I K L N A A V Q I T I Y D S Q D K A E Q A I S A A A D E M Q R I E
H E T R F L M G T L V D Y T V S G D Q D K A E Q A I S A A A D E M Q R I E
A M G T V I S Q T V Y V T G N S A E K I T D V L L Q K L N D L A
P Y S R T E F L M G T V V T V K I Y D K G R A D V L K P V F N R I Q A L A
V L G T S L E L K F A S N Q A D A N L A E E H A L K E I D R L D
Q R Y S L N G E T M G T R Y T A R V V P P E E T D V Q A I V A G L E A A V T A V D
Y E K T E K I L G T V V S G V A Y G D N A K E A L E K A F N R A K D I E
Q I G G E T M G T T W S A K M A L P R A N V G A L R C G I E R V L A Q V T
S E T F Y V F G T L E V E T H G P E A Q A R D A M A V L G A H F R Q M H
I S G E T M G T S Y H I T F Q N P K V D E Q E T K Q A I D K R L L E I N
K K Y V S Q F P M M G T V I S L L F T P N Q S I I E Q L Y D Y L Q Q M D
R L Y S Y S A V L M G S P I L L K L F S H D E A L A S R T F Q L I K R Y E
Q T Y T D T D F A M D T V V S E T L Y T T G D D I N S K L T A V L T D V E T
V Y G Y S A V L M G S P I L L K L F E P N E T L A S Q V F R L E K K Y E
R L Y A G A G L A F G T I K V K L H D R Q A E L A I E D A F H E A K Q I D
R R R A L S G P A M G A R W S A T F F A D G V D E T A L T R R L Q A A V E R V E
E P V S K R T V L V M D T V A Q L T A V D G E A R A A V D E S I A L L Q R L D
E L T S R S E R L M G T T I T V S I Y H H T L A D E I L A Q C F I E I L R S Y E
Q L T N R R V H L M G T V I D V S I Y H N Q P E P V L D Q Q V E A L L H L Y N
I H K S Y G A T M G T R L S L T L L P P A Q E A D L A A A Y D L I R D Y E
L S G P T M G A R W S A V F Y G D P L G W D L R L A I Q A A V D Q V D
T T F H M G T V V Q I K V F G K T P E E K R F A Q I V E D E V V R F D
R F D F A E T H M G T S F N L V L Y T D E P T A R S A S Q A F A R I A A L D
S Q T V Y L M G T I N T I R I Y D K G K A D V L K P V I Q R L R D L A
E R S G T F F D T V T G I R I N D E R A E E L L D G C F G I C E D M E
F H S M Q W T V K L D V L P A G E S A A S A T A E L Q K L D H A N
Q L Q F R A F G T L V E V A V A G E Y D L A E I E R E L Q A E L D L H
H S V Y E R L L G T E V E L Q I A G T S A Q A R H A E Q A A L A E L L T
R Q Y K I N G Y A Q G T D Y A I M Y A A T D S L V T K Q G I D S L N E I D
K T Y T E S I P S M T S I L S I S I V M D E N D E K E A L R K G F D K A K E I L
S V T G F Y D T I I S V T I Y D S S S D Q I L S Q C M D L A N H Y E
Y I S R S T H L M G A T I T I S L L P P S N D A E Q L L D A V F E L L S Y N
Q K Y E D S R F L F G T Y I K I I Y D K D I N A K S A D K A F Q E I E R I D
E E Q N Y S G N A L G T S Y H I K I F T G K E D L Q Q I E K G L D S V F Q Q I N
K L M G N R F V L S V D Q G E E H I L D A I E E I S R I E
T I L A M D T Q I S W V I Y E K P S L P L D L N A K I K T R I N E L V
H S A E F Y A M D T M S V T A Y G N G A K N A V Q K A Q T E I D R L E
R Y E A E F L V F D T V T K I V A Y T E T K E E S Q L I Y D N L K E Y H E L Y
P I S V T D Y K L N T Y V Q I S A Y T G V N K S V L T D A I A L C H Y Y E
L G T A W H I T T N P P P D A E Q L Q Q E L D K V L A H T N
R V V R F A G H S M G T S Q V L V A D G D P D F L A T G L Q Q V L D G V V
K L M R D T S Y A L G T N I S V T V V H E D D R A K A I S A L S E V H L I D
R Y Q D Q F M V F D T V L V I G Y E G N E G D F Q K N F K A V H K R L Q E L H

UniRef90_E8LKY2
UniRef90_UPI00036788C9
UniRef90_UPI00029AF280
UniRef90_D7UX57
UniRef90_A0A024IT44
UniRef90_UPI00039AB2F4
UniRef90_UPI0003821C86
UniRef90_E2NPN8
UniRef90_UPI000477422D
UniRef90_Q1QHD3
UniRef90_A6G5T6
UniRef90_R5QC77
UniRef90_UPI0004777781
UniRef90_J5UWF3
UniRef90_H7EKI2
UniRef90_UPI00042901B2
UniRef90_H1ZAY3
UniRef90_F2I773
UniRef90_C0EAE2
UniRef90_UPI0003698078
UniRef90_A0A024HKT0
UniRef90_I4N5F2
UniRef90_H0Q0B4
UniRef90_E0E3Q3
UniRef90_Q01TF1
UniRef90_UPI0004059A33
UniRef90_I9BU91
UniRef90_B1R410
UniRef90_A0A031GUB6
UniRef90_UPI0003568FC
UniRef90_D1Y205
UniRef90_R5DLI3
UniRef90_G6GCP6
UniRef90_A5W6F6
UniRef90_I0GMH5
UniRef90_D8GF39
UniRef90_G0VRC7
UniRef90_C6KV02
UniRef90_V6S8F3
UniRef90_W7UZ23
UniRef90_Q31EK5
UniRef90_C6W729
UniRef90_T1XM63
UniRef90_R6YKT1
UniRef90_UPI000329F847
UniRef90_D2ZE74
UniRef90_U2S685
UniRef90_A6DR08
UniRef90_U2D1S1
UniRef90_Q0F1W1
UniRef90_R6WJ31
UniRef90_UPI000255BF45
UniRef90_UPI00047EE1B3
UniRef90_UPI00046A4841
UniRef90_UPI000345A642
UniRef90_H1CT89
UniRef90_F8J634
UniRef90_Q52718
UniRef90_F5SQE8
UniRef90_W6T4N1
UniRef90_M9VZ78
UniRef90_D4LKL4
UniRef90_J0ML82
UniRef90_A1VQL2
UniRef90_A7IQ70
UniRef90_UPI00036B252B
UniRef90_I1ZLT1
UniRef90_I0QJU5
UniRef90_G9WGT9
UniRef90_UPI00047D373C
UniRef90_R5PJY7
UniRef90_L0DDV9
UniRef90_UPI0002899AB5
UniRef90_I5AVS6
UniRef90_E1VME0
UniRef90_UPI0003A32CAD
UniRef90_UPI000372F288
UniRef90_UPI00046A04AB
UniRef90_A6GZN4
UniRef90_R9N672
UniRef90_Z4WZU9
UniRef90_UPI0003A938BB
UniRef90_D5BHR4
UniRef90_E4RUM2
UniRef90_R6NK45
UniRef90_G4KU39
UniRef90_UPI0004632FB5
UniRef90_R6KB45
UniRef90_UPI00037A9B70
UniRef90_UPI00037D4909
UniRef90_UPI000349CA52
UniRef90_C2KUI0

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

UniRef90_E8LKY2 L M I G G V M D F S V G P L V N L W G F G P E G R P E K V P S E E E I S A V R A
UniRef90_UPI00036788C9 E Q S Q G G T F D V T T I G P L V D L W A G N G K G E I E V P R G D Q E E I Q A A V A
UniRef90_UPI00029AF280 E Q S D G G A F D V I T T I G P L I L K L W R R A R K F E K P D A K K P T P D K E I A S A K A
UniRef90_D7UX57 K E T G G S K D I T T I G P L I L L W H R I G F P D A K K P T D K E I L K E R L P
UniRef90_A0A024IT44 R A S G G A F D I I T V G D A V V A W G F G P Q A A D R A L T R R A L A T S R
UniRef90_UPI00039AB2F4 Q K L N G A F D I I T V G A V L P L Y R F R G D D S L R P K P A L S E I V K S R I P
UniRef90_UPI0003821C86 A N T N G Y F D P T V G A L V N A W G F G P G G D I L V K M D S L K D S L I P Q
UniRef90_E2NNP8 E L S K G A F D I T T I G A V S S L W D F K S D D K A T L P D D E T L I K E S L L Q
UniRef90_UPI000477422D V A S G G A Y D L T T V E P L M N L W G F G P Q S G G R A E K V P D D A A Q I A A V R Q
UniRef90_Q1QHD3 R E S G G A Y D P T M G A L V D L W G F G P G S P R R A P P P D A A D E I A A V R Q
UniRef90_A6G5T6 A D S G G A F D V T T I G P L V D A W G F G S D P S A R R R S L S A D D D L S V L D R
UniRef90_R5QC77 Q L S Q G A F D I T T I G S V S S L W N D T F K E N K L P D D A A Q I K T H L N K
UniRef90_UPI000477781 A R S N D L F N P A I G S V L I A L W G F H A D P Q G K G K V P D D A A A I A R W V K
UniRef90_J5UWF3 E E T K G A L D V T L L P L L K L W G F S D G G V H R V P T A E I E A A R A
UniRef90_H7EKI2 A K T G G L F N P A I Y P L V R E W G F T T E M T V E R L Q S P P E I E A Q L P
UniRef90_UPI00042901B2 E Q S G G A F D P T V M P L I D T W G F G S T G A M K K L P S F A E I K A A I R D
UniRef90_H1ZAY3 K L T E G A F D I T M A G L N Q L W I Y D G A M K K L P S F A E I K A A I R D
UniRef90_F2I773 V S T E G R F N L A I G P L V L K L W H L G F S D S K A R V P S Q E E I D E R L D Q
UniRef90_C0EAE2 E R T N G V L E P T L Y P V L T A W G F T T G S D A R Q V P K K E E I A V L L Q
UniRef90_UPI0003698078 R E S G G A F D I T T V G A L A G W R F E P G H E A V P T P A Q I G R A L R
UniRef90_A0A024HKT0 S A S D G A F D I T T V E P L M N L W G F G P Q S S R E E Q Q V P A P A D L T R E R A
UniRef90_I4N5F2 S A S D G A Y D Q T V G P L M N L W G L G A D E F V A R L P D P D G I R T V L D
UniRef90_H0Q0B4 E L G D S L F N P A L G E L I A L W G F Q A D E F V A R L P D P D G I R T V L D
UniRef90_E0E3Q3 D E K T K G K F D I S V G A L I S I W N I G N D A A R L P D S D Q E A L K K L L P
UniRef90_Q01TF1 E E T G G A F D V T L G P V I R L W R R A R L D H R L P A S S E A L A D A A S
UniRef90_UPI0004059A33 D A S Q G G H Y D L T L K P L Y D L W G F S G D H L T P P E E Q S M R E V L S
UniRef90_I9BU91 R A S G G A F D M G M G D A V R A W G F G P E A A D P Q G L R G A L A A A R V
UniRef90_B1R410 K L S Q G N F D I T V G P L L K L W N F K S E K K I I P N P A Q K D I D E N L K
UniRef90_UPI0003568FC V R S G L L F N P T I G H L R L W G F Q K N D I G A Q G P P A A G I K R W V D
UniRef90_D1Y205 R E T E G A F D I T V Y P L M Q L W G F P T K E F H H P S Q Q E L D A V L R R
UniRef90_R5DLI3 T L T G G A F D P T L Y P V L R A W G F T T E R N A V P P D D S D I Q N A L S
UniRef90_G6CGP6 D M A D G A F D I T I G S V S S L W D F T S D P A V P P D D S D I Q N A L S
UniRef90_A5W6F6 Q E S D G A F D M A I G A L T D L W G F G P Q A R H Q Q V P A Q A E L D Q A L P
UniRef90_I0GMH5 R K T N G A F D V T T K P L V D L W G I G T D H A K V P T P A E L A E V Q K
UniRef90_D8GF39 K N S N G S F D M A I G A V T N L W Q I L G N D P G A R V P A Q A E L D K A L P
UniRef90_G0VRC7 A K S Q G E W D I T V G V M T N L W R L I G N D D Q H V P S A D E I S R A L M
UniRef90_C6KV02 R A S G G A F D I G M G D A V T A W G F G P G A A A P E G I R A A M D A P R R
UniRef90_V6S8F3 K T T N G A F D I S Y G G I D K K F E W N F D L E M K E L P D A E T A K K S V E
UniRef90_W7U223 D K T N G A L D I L T L Y P V L K E W G F T G E E Y K I P D A S T A N E L L S
UniRef90_Q31EK5 A E S D Y L F D P G I G Q L N L W G F H S E D W H G P P P S K D V I N N E L L A
UniRef90_C6W729 R E T G S L F D I T V Y P L V R A W G F G P T A A G R V A M P P S S A S I R T L E
UniRef90_T1XM63 R E T G N A F N I G V G A L V D A W G F G P A A G R D C P R V D S T G F R A C R P
UniRef90_R6YKT1 Q E T H G A F D I T V A P L V N A W G F G P A F K N A A Q V D S I M I D S L H Q
UniRef90_UPI000329F847 V P K A S A F N L A I G P L V K R W K I G F Q Q G D S V P P E A D I Q A L L A
UniRef90_D2ZE74 L L K A S A F N L A I G P L V K R W K I G F G D S V P P A D D I A A L L A I T
UniRef90_U2S685 A A T D G A F D I T L A P V S S A W G F T E D T Y R V P E D A E L A L L A I P
UniRef90_A6DR08 K L S E G A F D V T I Q P L W R L F R K N A L K G P K A P D D A D I A K V K E
UniRef90_U2D1S1 R E S D G A F D L A I A P L T S L W D F T A E D P K A P D D A D I A K V L P
UniRef90_Q0F1W1 Q Q S G G A F D P A L G G L N L L W G F S L D P P P A S P P S A D A I R A A V
UniRef90_R6WJ31 E E S A G A F D V S I G R L S R L W D I D T W A G D Y E L P R Q E E I A E A L A
UniRef90_UPI000255BF45 E R S D G N F D L T L G P L T K L W H I L G Y D A R K P P R Q N E I D R V L P
UniRef90_UPI00047EE1B3 E L T N G A F D I L S F A A A E R I W K F D G S M K Q V P S A D E V R E S V K
UniRef90_UPI00046A4841 N L T N G A F D A S A A V T G N V W K K A S A E N R L P S A N E L E T A V N
UniRef90_UPI000345A642 Q Q S G G A F D I A V G D L V D A W G F G P G A S V T E Q T E D A L P S R S G
UniRef90_H1CT89 N L T E G A L D P T I G H V I D S W G I G T E H A N I P E K T L I D K Y K D
UniRef90_F8J634 E R T G G A Y D P T V G A L V D L W G F G P F H I A P G L P D S D A V L D A A R V
UniRef90_Q52718 C R S E G L F D P A V G G M V E A W G F H A D T P P E A L R D S D A V A K L A R A
UniRef90_F5SQE8 T Q S G G A F D P T V M P L V N L W G F G S V M T A D R P P S A D E I E A T K S
UniRef90_W674N1 K Q H A D S F N V L I G P L V K L W K I G F G G Q Q V P A Q A E I T A R L K L M
UniRef90_M9VZ78 M V Q E S A F N L A I G P L V K L W R I G F N G H S V P A A A D I A A R L A L T
UniRef90_D4LKL4 E D S D G A F D P T I G K L I R L W D I G G E N Q K I P E E A E I K N V L K
UniRef90_J0ML82 V L P D S L F N L A I G P L V K R W K I G F K G D S V P P A E D I A A L L P
UniRef90_A1VQL2 V L T D G A F D I T V P L W S K F N Q A A A R H S V P S E E R L N A R S
UniRef90_A7IQ70 R L S G G A F D V G V G D L V R A W G F G A S P G P D G G R I A G L A G R P S
UniRef90_UPI00036B252B A R T D G A F D V T A G P L V A L W G I G T D R A R V P A P E E I A A A A R S
UniRef90_I1ZLT1 Q A K N S H L N I A I G P L V Q T W R I G F S D A R R L P L S E E I A P L L S
UniRef90_I0QUJ5 C Q G G S H L N I A I G P L I Q T W R I G F S D A R R L P L S E E I A P L L S
UniRef90_G9WGT9 R L N L G F N A A I G P L V K L W R I G F S G A N G A R E G V P D G K S E I Q K R L S
UniRef90_UPI00047D373C E A S G G A F D V G V G E L V A A W G F G A D A R E G V P D G K S E I Q K R L S
UniRef90_R5PJY7 D M T H S A F E P M I G P L V N L W K I G F G G D H V P S D E A I K E A I R
UniRef90_L0DDV9 E Q S H G A F D V T V A P V V R L W R R A R R D R K M P D D R L A E A L A
UniRef90_UPI0002899AB5 K M S D G Y F D I T T I G P M T K L W H I G F P D A R K P S Q K D R I A E A L A
UniRef90_I5AVS6 E L S E G A F D I T I L P V R E L W D F E T E D H V S A V P E D N M I R Q E L K
UniRef90_E1VME0 E A S G G S Y D I T V G P L V N L W G F G P D V V P V K T P T S D Q T V E Q V R A
UniRef90_UPI0003A32CAD E A T D G A F N P A L G Q L I A A W G F H Q D E P A G P P P D A D Q L A E L L E
UniRef90_UPI000372F288 R K T G G A F H P G A D A F G A L W K Q A E T Q G H P P D P A A L T E L
UniRef90_UPI00046A04AB A D T K G L F D I T V A P L V Q A W G F G P K E A K S E P P D A T I K S L L S
UniRef90_A6GZN4 E L T N G L F D I T F A S I D K L W Y F D K P M Y K L P S A L E I A K S I S
UniRef90_R9N672 C L S D G L V D P T V G S L S Q L W N F G S D N A A V I P D Q N E I K T A L S
UniRef90_Z4WZU9 L L P A S H L N I A I G P L V Q A W R I G F S D A R I P N N A E V T H A L S
UniRef90_UPI0003A938BB L L S E G R Y D I T I G P L L K L W G F M I D S M T L K I P S K D E I F T K T
UniRef90_D5BHR4 K E T N G Y F D P T V G N L V N A Y G F G P D K S L E A L D V D T I D S L L Q
UniRef90_E4RUM2 E L T L G L F D I T S Y G S I D K R L W N F D K N L S L P S K E A K Q N L K L
UniRef90_R6NK45 E K T N G A L E P T I Y P V L R E W G F T T G K Y Q I P D E T K I R D L L N
UniRef90_G4KU39 A A T S G A F D I T I A P L V S A W G F T T D H Y Q V P D Q R E L D E L V T
UniRef90_UPI0004632FB5 K K T D S K V N I A F G A V L K V W H N Y R D E E N A K I P P D D L K K A S Q
UniRef90_R6KB45 R L S D G A F D I T I G S V S E L W D F T T D T P S V P D D T L I K N A S
UniRef90_UPI00037A9B70 Q E S Q G G L Y D V T V A P L L K L W G F K H D P A Q G A I P T A E I E A A K A
UniRef90_UPI00037D4909 A A S D G A Y N P A A G A L V N R W G F G Y D A A G F V P P S A D E A A A L L A
UniRef90_UPI000349CA52 R L S E G A F D I T V Q P L W Q V Y A R G Q E K G V L P S N S E A I A L A Q Q
UniRef90_C2KUI0 E K T D G E V N I A Y G A V L R I W H D Y R N P E N A S L P E E T A L L E A S K

UniRef90_E8LKY2 Y V G H D K Y E L R R R E N G K K K A D P R V K L D L S T V I G E G L G A D L L A Q
UniRef90_UPI00036788C9 L I N Y E D V E M D A T N A R T E I R L K S Q P M S Q L L D D F F G G V A K G G F A A D L I A E R
UniRef90_UPI00029AF280 S V G W Q D V V A L D K A T E H S V F L K K K Q G M K L D D F F G G V A K G G F I A A D Q M S Q K
UniRef90_D7UX57 L V G Y Q N L L N D K E H S V F L K K K Q G M K L D D F F G G V A K G G F I A A D Q M S Q K
UniRef90_A0A024IT44 Q P A H V A L E L D P V R A A V R K R A P T T I L D D F F G G V A K G G Y G V D R L V A
UniRef90_UPI00039AB2F4 Y I D Y R A Q L N L K S D G T I T T K K D P R R F M D D F F G G V A K G G Y A I D R L A
UniRef90_UPI0003821C86 F I G L D K V R L N D K S D G T I T T K K D P R R F M D D F F G G V A K G G Y A I D R L A
UniRef90_E2NNP8 S V N Y Q N I I C D H K R I L Y K N P D T M T D D L G A I A K G Y I A D K L K E S T
UniRef90_UPI000477422D R V G H A H L H V D D G E L C K D A A V Q V I D D F D S I A A K G Y T V E R I S T E
UniRef90_Q1QHD3 A C G W R Q L D L D T G A R R L R R H N C G P D D L C G I A A K G F A V D L V A E
UniRef90_A6G5T6 L V G D E K L I V D V E T Q T E K T V D E L R V I D D L S A I A K G H G C D R V A A
UniRef90_R5QC77 D L S Y Q N I L I L D N N Q I A W S D N E Q T M L D D L G A I A K G Y I A D Q L K S
UniRef90_UPI0004777781 A A P R M E D L H I E N N Q A W S D N E P A V Q I V I D D L G G Y A K G Y A L D E A V R
UniRef90_J5UWF3 L T G A G K L K L D E A A G T A R Q L E K G S S V V E L L G A I V A K G Y A G E L V A A
UniRef90_H7EKI2 L T D F S K M R V L S A E S G A S Q P A G M Q L D D F F G G V A K G Y A A D K A A G
UniRef90_UPI00042901B2 L V D F K S V V Q E G S L Y K T Q D G V G L D D F F G S A V A K G Y G V D V I A D
UniRef90_H1ZAY3 H V G Y Q K I Q L D R A N Q T L F T Q K K M K I G F G S I G K A Y A A D C A K A
UniRef90_F2I773 L V D P H R K V E L D P T H K Y L E K E G M E D D L G A I A K G Y F A D Q I V A
UniRef90_C0EAE2 N V D Y R R I E L A G K E L T V P N E M Q L D M G A V A K G Y T A D L I T Q
UniRef90_UPI0003698078 L V G M D G L V L D R A G T A R L A R P G M A L L D L G G V A K L P L L H A G L R
UniRef90_A0A024HKTO R V G Y R H L R V D G S L V C K D V A A Q L D D F D S I V A G Y A V D R V S Q A
UniRef90_I4N5F2 R V G Y R H L R I D G D Q L C K D A A V E V L D L N S V A G Y A V E R I S G A
UniRef90_HOQ0B4 A R P R M S D L V T E G N R V S S R N E P S V R L D L G G Y A K G Y A L D R A A A
UniRef90_E0E3Q3 L V S H K D I L N D K D K S V L K K K E G M K L D D L G A I A K G Y C A D K L A D
UniRef90_Q01TF1 R S G Y R K L H L D A S A R T V M L D P G M Q L D D L G A I A K G Y A A D A L S
UniRef90_UPI0004059A33 A I G Y R K L H C F P D C I G K A A S P D V R V L D L S I A Q G Y S V G C I S T
UniRef90_I9BU91 L V N Y K N E A L E V D G H R V L K K R G S L D D L N G I A K G Y G V D R L A E
UniRef90_B1R410 L V N Y K N E A L E V D G H R V L K K R G S L D D L N G I A K G Y I A N K I K E
UniRef90_A0A031GUB6 A R P S L S D L R Y S G N I I S S V N P A V M I V I D D L G G Y A K G Y A L D R A A A
UniRef90_UPI0003568FC S V I G S D Q M T F D D A S G K L T L A P G S S V L D D L G A I V G K G Y A S A R V M E
UniRef90_D1Y205 F A G A E H V H L D G R M L R L D E G S M L D D L G A V G K G F A G D E A L A
UniRef90_R5DLI3 Y V D Y T R T E N N D G T Y T V D K P D K T I I D D L G A I A K G Y I A D K I R N
UniRef90_G6CGP6 L V D Y H D V V L N K A K R T Y L K K K G M R L D D F F G G V A K G Y I A D Q V K A
UniRef90_A5W6F6 R V G Y Q H L R V K G R A L C K D A P V Q L D D F F N S I V A G H A V D L I A A
UniRef90_I0GMH5 K I G W Q K L E L D E K Q S A R L M Q K G M G V L D L G G V A K G F A A D E V R K A
UniRef90_D8GF39 L V N W R D V K L D K N N T A Y L T K K G M R L D D F F G G V A K G W V A D K V K A
UniRef90_G0VRC7 K V N Y K D I L L R P E D H V M L A K A G M A I D D L G G V A K G Y A V D E I R K E
UniRef90_C6KV02 L I N Y E N I L D E S G N T V F K K K G M R I D L N G I A K G H G V D R L A E
UniRef90_V6S8F3 Y V D Y S K I D I E G N T I V P K E K A E I D L G A V A K G Y T G D E I M K
UniRef90_W7UZ23 T R P S I K D I H F N G P R L F S D N P N V Q V L D F F G G N A K G L A L D I A I Q
UniRef90_Q31EK5 C V I G S D R L E T Q G N R L R L K T G A C V V Q V L D V N G I A Q G Y S V D I A I R
UniRef90_C6W729 L D E L L E V D L P G R R V K R H A C V A L D D L C G I A K G F G V D E L A R
UniRef90_T1XM63 F V G I D K V E L I D G K V V K K D P R L M L D D C S A I A K G Y G V D C V A R
UniRef90_R6YKT1 I T Q P Q D V L D D A R S V F A K P G M E I D D L G A I A K G Y I A D R V R D
UniRef90_UPI000329F847 R P Q E V V L D E T S S V F L E A K G M E I D D L G A I A K G Y I A D R V R D
UniRef90_D2ZE74 C V G A E H V H L E E G T A V S L D Q G T R I I D L G A I A K G Y A S D R M A A
UniRef90_U2S685 K V G W Q F M E I E D G D I C M N K A G G Q Q F S D L N G A I A K G L A A D V A Q
UniRef90_A6DR08 L C S S D G V T I G Q Q D I L T P S D D I Q F S D L N G A I A K G Y I A D R L K D
UniRef90_U2D1S1 P P S H C I R R S G A Q W L R T D R R C Q L D F F G G I A K G Y A I D R G I E
UniRef90_Q0F1W1 T T G W Q K I E Q Q A D G S V S P A E M Q L D D L G A I A K G V A L D E I L K
UniRef90_R6WJ31 L I G Y K R M I L N N Q D H T I F K D K G M R L G F G A T G K G Y A A D K T K E
UniRef90_UPI000255BF45 K I G Y K N I I V N Y Q D S T I F L K F P M K I L G F G A T G K G Y A A D K T K E
UniRef90_UPI00047EE1B3 L V K Q Q H Y L L D E K N K T V T R L D E V P L A N L N G F A K S Y I I N K A A D
UniRef90_UPI00046A4841 L S A T A A L I T V D E K R H Q V R K R A P L H L A N L N G I A K G F G V D E L A R
UniRef90_UPI000345A642 L K N Y K N I E L N P Q T K E I R F N E N I K L L D L G A I A K G Y A G D E M R K
UniRef90_H1CT89 A S G W R S V T L D K E N R R V F Q P G G V R L D D L C A I A K G Y A V D E V S
UniRef90_F8J634 G A P K M T D L T I T G T V R S S N P A V V Q L D L G A Y A K G A A L D L A E
UniRef90_Q52718 L L D F E G I K L S G N T V S K D N E K V Q L D F S A I A K G Y G V D V I A E
UniRef90_F5SQE8 Q L D Q V D L Q A H D H S V F L A K Q P G M Q I D L G A I A K G Y F A D Q I V E
UniRef90_W6T4N1 R P Q D V I L D D A G S V F L A Q P G M E I D D L G A I A K G Y I A D R V R D
UniRef90_M9VZ78 D S G Y Q K I F L D G N T V H M E E G C S L D L G A A G K G I G C D R I K E
UniRef90_D4LKL4 R T Q P H Q V V L D E E G S V Y L A H S G M E I D L G A I A K G Y A D R V R D
UniRef90_J0ML82 L V N W K N L R F T Q D Q V S F Q Q S G M A I T L N G I A Q G Y A A D L A L S
UniRef90_A1VQL2 F E P K T L Q L D P A S G R A R R L A P L R L D L A G I A K G F G V D E L A R
UniRef90_UPI00036B252B H V G W Q R L E L A G D G R A R L R S P G M I D D L G A I A K G Y A L D A V A R A
UniRef90_I1ZLT1 K I D P Q Q I Q L D P E N Q T V F K R S G M K I D D L G A L A K G Y S A D L I G A
UniRef90_I0QJU5 I I N P N A I V L S E E N Q S V F L K E K M K I D L G A L A K G Y I A D R I A D
UniRef90_G9WGT9 L I D P A Q I Q L D D D K R T V F L K Q G M E I D L G A I A K G Y I A D A V L G E
UniRef90_UPI00047D373C S V A L K N I E L D A E G R R A R K R P L R L D L S G I A K G Y G V D R L G E
UniRef90_R5PJY7 R V D H R H V R V T A E N G K W F M Q R D Q N V D M G A I A K G Y I G Q K L A E
UniRef90_L0DDV9 L V G S D K M L L D P A K T V Q L T K P S K L D D L G G L A K G Y A A D E A L R
UniRef90_UPI0002899AB5 L I G Y K K M I N D Q K Q T V F L K Q S K G M R L D D L G G I A K G F I T D E L V K
UniRef90_I5AVS6 R V D Y R K V H V E N R T V T F D S P D T M I D D L G G I A K G Y I S E Q L K S
UniRef90_E1VME0 R V G W E K L G I D P K Q H A L S R R G D V A L D D L G S I G E G V A V D V L S E
UniRef90_UPI0003A32CAD D P S M G D I E R N G V R L T G H H P D L Q L D D F F G L A K G A V E R A R D
UniRef90_UPI000372F288 A A Q L Q A A P W T L D G H C A T L H A A Y P L G L N A L A K G Y I V D R A A E
UniRef90_UPI00046A04AB C V I G M K N L K L K D G W L T K S K P C V H I L N G I A Q G Y S V D L T A A
UniRef90_A6GZN4 N I N Y K Y V E L D P E N K S I F I N K G T K L E L G A I G K G Y I A N E I K K
UniRef90_R9N672 H I N Y E S V H I K E N Q V M L S D P S A C M E L G F I A K G F I A D K I K E
UniRef90_Z4WZU9 L T D P Q F I E L D P S C T V F L A K E G M K L D D L G C L A K G Y A D K L A D
UniRef90_UPI0003A938BB F V D F E K V K I K D S K L Y L E K P V K E I D T G S F L K G Y A L S Q A K K
UniRef90_D5BHR4 Y V G F D K L K L T D E D R I A K E N P H I Y L D F N A I A K G Y T I D V I A E
UniRef90_E4RUM2 V N Y K N I Q L D Q E K S T V F L K E K G M R I G F F G A I G K G Y A A D K A V A
UniRef90_R6NK45 Y V D Y R K V H V E N R T V T F D S P D T M I D D L G G I A K G Y I S E Q L K S
UniRef90_G4KU39 H V G S S H I H L G G E S E V S L D N D T Q I D L G G I A K G Y A S D C V E
UniRef90_UPI0004632FB5 H T D L N K V K I D E K N S T V F E D P E M S L D V L G A V A K G Y A T E Q V S R
UniRef90_R6KB45 Y V D Y T K T I D S D G T H H I S E M P D G Y C I D D L G A V A K G Y I A D K I K A
UniRef90_UPI00037A9B70 K M G Y Q K Q V R L D P P A L R K T Q A D L H V E L S I A D G Y A T D Q A G E
UniRef90_UPI00037D4909 Q C R W Q A L Q L D A A N R S A L Q P G G V Q L D L S V A K G F S V D L L A R
UniRef90_UPI000349CA52 K V N W R D L D I S A K R I R F T K P G M A I T L N G I A Q G F A D R V L A
UniRef90_C2KUI0 H C N I E D L V L D E E N T V Y F Q D P E L R L D V G G I A K G W S V E R A E

UniRef90_E8LKY2
UniRef90_UPI00036788C9
UniRef90_UPI00029AF280
UniRef90_D7UX57
UniRef90_A0A024IT44
UniRef90_UPI00039AB2F4
UniRef90_UPI0003821C86
UniRef90_E2NNP8
UniRef90_UPI000477422D
UniRef90_Q1QHD3
UniRef90_A6G5T6
UniRef90_R5QC77
UniRef90_UPI0004777781
UniRef90_J5UWF3
UniRef90_H7EKI2
UniRef90_UPI00042901B2
UniRef90_H1ZAY3
UniRef90_F2I773
UniRef90_C0EAE2
UniRef90_UPI0003698078
UniRef90_A0A024HKT0
UniRef90_I4N5F2
UniRef90_H0Q0B4
UniRef90_E0E3Q3
UniRef90_Q01TF1
UniRef90_UPI0004059A33
UniRef90_I9BU91
UniRef90_B1R410
UniRef90_A0A031GUB6
UniRef90_UPI0003568FC
UniRef90_D1Y205
UniRef90_R5DLI3
UniRef90_G6GCP6
UniRef90_A5W6F6
UniRef90_I0GMH5
UniRef90_D8GF39
UniRef90_G0VRC7
UniRef90_C6KV02
UniRef90_V6S8F3
UniRef90_W7UZ23
UniRef90_Q31EK5
UniRef90_C6W729
UniRef90_T1XM63
UniRef90_R6YKT1
UniRef90_UPI000329F847
UniRef90_D2ZE74
UniRef90_U2S685
UniRef90_A6DR08
UniRef90_U2D1S1
UniRef90_Q0F1W1
UniRef90_R6WJ31
UniRef90_UPI000255BF45
UniRef90_UPI00047EE1B3
UniRef90_UPI00046A4841
UniRef90_UPI000345A642
UniRef90_H1CT89
UniRef90_F8J634
UniRef90_Q52718
UniRef90_F5SQE8
UniRef90_W6T4N1
UniRef90_M9VZ78
UniRef90_D4LKL4
UniRef90_J0ML82
UniRef90_A1VQL2
UniRef90_A7IQ70
UniRef90_UPI00036B252B
UniRef90_I1ZLT1
UniRef90_I0QJU5
UniRef90_G9WGT9
UniRef90_UPI00047D373C
UniRef90_R5PJY7
UniRef90_L0DDV9
UniRef90_UPI0002899AB5
UniRef90_I5AVS6
UniRef90_E1VME0
UniRef90_UPI0003A32CAD
UniRef90_UPI000372F288
UniRef90_UPI00046A04AB
UniRef90_A6GZN4
UniRef90_R9N672
UniRef90_Z4WZU9
UniRef90_UPI0003A938BB
UniRef90_D5BHR4
UniRef90_E4RUM2
UniRef90_R6NK45
UniRef90_G4KU39
UniRef90_UPI0004632FB5
UniRef90_R6KB45
UniRef90_UPI00037A9B70
UniRef90_UPI00037D4909
UniRef90_UPI000349CA52
UniRef90_C2KUI0

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

UniRef90_E8LKY2 K P L I H Y T V S V T V I A P L T L I T 250 260 270 280
UniRef90_UPI00036788C9 Y P F Q N D L S V T V I T E E S M A A D A L S T S A V F G L G L D Q G L A Y L E K Q
UniRef90_UPI00029AF280 L G L T K R S V T T I I V A R D K G A V A D A L S T A V A C F V Q G P E K N G L S L A E S K
UniRef90_D7UX57 Y P K N N I A G V S T I I V A R D K S L T G D G L S T A A A F S E G I K N G L A F I E K
UniRef90_A0A024IT44 A P L S S P A S V T V V A R T C A E A D A W A T A L T V L G P T S A G T E L A Q
UniRef90_UPI00039AB2F4 L P A E K C Q A V S T V I A N S S A E Q A D A M A T A G L F V I G A E A S G K Q V L E R N Q
UniRef90_UPI0003821C86 Y T R D S Q L A V S V I A N S S C A K A D A Y A T A M M M A M E L P E S A S K K V L E N Q S
UniRef90_E2NNP8 Y S D N G L A S V T V V S P S S M Q G D A L S T V C F S L G L E K G K A L L I E S
UniRef90_UPI000477422D A P L H D L A A V T V V H R S C M E A D A Y A T A L L M V L G P P D A G A D F A A R
UniRef90_Q1QHD3 W P A N G M V T A T V L H R S C M E A D A Y A T A L L M V L G P P D A G A D F A A R
UniRef90_A6G5T6 R P I T H R L V T V V H A Q S A A A D A W A T A L N V L G P K E G L A L A T
UniRef90_R5QC77 Y C D N D L S S V T I V S K S S L Q G D A L S T V C F A L G K E K G L A L L N S R
UniRef90_UPI0004777781 W P A S G M Q S V T I G D R A G T R S D A L S K P L F I D G G A R L A D H A S R E
UniRef90_J5UWF3 A P A S G A S A T V V A K A G G R A D A L S T A L F V M G A E R A A A F W R E K
UniRef90_H7EKI2 S P A E S D V E V T V V C A G K G M Y A D C L S T A L F V M G K E G A V D A F W R K
UniRef90_UPI00042901B2 E P L I G G A P V T V A A E S V G L Q A D A W A T A L T A M P Y E E Q A L A T A E Q
UniRef90_H1ZAY3 M P T T E I A S V T V F A P K A E L A N G I S T S I A V M G I E T G L H L T N Q
UniRef90_F2I773 Y P I E T D A S L T I T A P Q S V F C E I W T A L F A L N S E E A V A A L D D D
UniRef90_C0EAE2 R P A N S G L E V T V I G S E G R L C D A L S T A L F I M G A E E A G N Y W R E
UniRef90_UPI0003698078 W P T E G V H G V A L R A R T V A E V N G W G A A L M V R G A A Q A G A W H A Q
UniRef90_A0A024HKT0 T P V R H K A A S V T V V D R S T L H A D G L S T L L M V L G P P D E Q G F R Y A E Q
UniRef90_I4N5F2 R P V N H S A S V T V I H P S A L S A D G L S T L L M I L G P P E Q G W D Y A R G
UniRef90_H0Q0B4 A P A T A T Q S M T V R P N A G T L S D A S K A P F I A G D G W R E Y T R R
UniRef90_E0E3Q3 Y P E N N L S S V T I T S A K K I D G D A L S T S T F G L G L E E G M K F I E G
UniRef90_Q01TF1 I G I T R P I A V T V V A A K G I D A D S L A T A L V S V L G A E R G L A L I R R
UniRef90_UPI0004059A33 K P V H Q T V S V T V V A N D N P T M A D A W S T A L L C L G A D K G K D I A E R
UniRef90_I9BU91 A P L S S P A S V T V I A R D T C A E A D A W A T A L M V A G P D A G A T L A I R
UniRef90_B1R410 K P E T D L I Q V T I I S D R S C M D G D A L S T I A L S F G E S K G L D L I N S
UniRef90_A0A031GUB6 Y P I D L V A S V T I I A A P G L R S D G H S K P L F I T G P R D W Q A M A E K
UniRef90_UPI0003568FC Y P A E N G L T S A V S S E D G A L A D G L S T S L Y I M G L D G A S D F W R A
UniRef90_D1Y205 A P A R S V I S A T A V S S G S G K I C D A M S T A F F V M G A E K T A A F W K E
UniRef90_R5DLI3 Y P D N R L S D V T I I S D A S V T G D C L S T T C F A L G A D K G L E L I E S
UniRef90_G6CGP6 Y P E N N L A S V T I I S P K S V D G D A L S N A V F E N K G I V E G M Q L I N
UniRef90_A5W6F6 R P I H D L A A V T V L D A S A L L A D G Y S T L L L I L G P Q Q G W D F A V A
UniRef90_I0GMH5 W P A K S G A M V T I V A A D G M L T D I L S T A V F V L G P E Q Q G A R F L S S
UniRef90_D8GF39 Y P D N N L A S V T I I S K N S V D G D A L S N A A F D K G L K G G L Q Y M N A
UniRef90_G0VRC7 Y P A R S G V M S D S I I D G M L S D M M T I V F V L G P Q K G M E L V N S
UniRef90_C6KV02 A P I A S P A S V T V V A R T C A E A D A W A T A L M V L G A E R G A D L A R Q
UniRef90_V6S8F3 F P V R G L T K S V T I I A E N A E L A D A L A T P V T V M G I E V G L D F I N Q
UniRef90_W7UZ23 R P A N G L V S V T V I G D C G L D C D A L S T A L F V E G Y E N T K D F L R N
UniRef90_Q31EK5 Y P A D H F I S V T V I H K D A T T A D A A T A L M I A G P K H W Q K I A Q Q
UniRef90_C6W729 F P V R R G E I A V T V V A P D A I T A D G F D N A L L A A G I D G A F E I L K T
UniRef90_T1XM63 A P L R R G V I A S V T V I A P T C T C A D A D A Y A T A L M V L G V E A G R D H A R R
UniRef90_R6YKT1 Y P I Q H N I S A T V V A P D C A T A D A Y A T S F M V L G L D S A K Q I C N A
UniRef90_UPI000329F847 Y P L D N E L D V T I I S T K D S L D G D I W T T L L Y G A G V E A G R Q W L A R A
UniRef90_D2ZE74 Y P L D N A L D V T V V S K D S L D G D L W T T L L Y G M G A D K G C E A L R A
UniRef90_U2S685 H P A E S G L T V T V V A D N G T M C D A L S T A L F V M G E D R A L E L W R S
UniRef90_A6DR08 Y S P T E L S S V T V L A P S A M E A D A L S T A L F V L G Q E K G M S L T K Q
UniRef90_U2D1S1 Y P D N G L I S V T I I S D Q S V E D G D A L S T T C F A L G L K D G L K F A E K
UniRef90_Q0F1W1 W P A M Q N Q S T T V M A P S A M L A D A W S T A L F V A T P P E R P S
UniRef90_R6WJ31 S P A H D V A G V T I V T K R S T E G D A L S T A C F V L G Q E E G Q Q L L E K
UniRef90_UPI000255BF45 Y P F N N D A G V S V T V I T N R S T E G D A L S T V L F S D G V K G G L A Y A K K
UniRef90_UPI00047EE1B3 Y P S A G V S S V T V F A D S A E T A N G F S T A I M V L G K K A G L K L K K
UniRef90_UPI00046A4841 N P A S E I I S A T V I A A D A S E A G A L A T S F N V L S V S E I A I T A N A
UniRef90_UPI000345A642 A P L N T V A A V T V V A S C M L A D A W A T A L M V L G E I E G P R L A Q A
UniRef90_H1CT89 C P A E K G I S S T I I T K N G I D A D A L S T A T Y I L G A E K A K K L I E G
UniRef90_F8J634 F P A H D L I S V T V V T D N G C M T A D V L A T A L T V L G P E E G P
UniRef90_Q52718 R P M R G V V S V T V L S D N G A L S D A A A T A L C V A G E E D W P R I A A Q
UniRef90_F5SQE8 Q P I A G G A P V T V A A D T V S L A D A W A T A L T A M T Y Q K A L A T A T D
UniRef90_W6T4N1 Y P V E N Q V Q V T I I T G Q S E L A E V L T T V C Y F Q G A G R G S E L I E T
UniRef90_M9VZ78 Y P L D N E L E V T I I A D D S L D G D I W T T L V F G L G V E K G C A A L R H
UniRef90_D4LKL4 Y P A E S G V T V T V V C D S G L E A D A L S T A C F V L G V E K G T Q L L K A
UniRef90_J0ML82 Y P L D N D L D V T I V S T D S L D G D I W T T L I Y G M G L E K G G A V L A N
UniRef90_A1VQL2 D S P L E L A S V T V V A P T G L L A D G L S T A L F V M G P D K A M A L A A Q
UniRef90_A7IQ70 A P L E N D L C V T V L L G E T C M A A D A W A T A L L V R G A S E G P A L A R R
UniRef90_UPI00036B252B A P A S Y G V T V I L R G D H A M M S G L L T T A L F V L G E E K G R A L L K A
UniRef90_I1ZLT1 Y P V E T D A S I T I I S P R S V D G E I W T T R L F G E S P T S I L N I V E S
UniRef90_I0QJU5 Y P V T S N A S L T I I S P L S V D G E I W T T R L F G S S L E H I F Q E V S A
UniRef90_G9WGT9 Y P A N D L A S V T V I S P R S I D G D I W T T L A F Y A G L E S G L V M I E K
UniRef90_UPI00047D373C Q P D N G I A A V T V L A D N C M A D A W A T A L L V R G L D E G V A L A R R
UniRef90_R5PJY7 Q P V T D I A S V T I V D K N G A R A D A L C A L F A M G W E K A E A F L L A
UniRef90_L0DDV9 L G V V N R S N V T V F A R D G L T A D S L D T A I Y V L G P E R G G L P L V E S
UniRef90_UPI0002899AB5 Y S D N D I A G V S V I T K K S V T D G D A L S N V L F V G G V K G G R L A E K
UniRef90_I5AVS6 Y P A E T D L Q V T I I G E D D A A C D A L A T I G I I L G R E K T K K L A E K
UniRef90_E1VME0 R P I H K G V S A S V V L D D S L A D A W A T A L N V L G P D A G F E L A E S
UniRef90_UPI0003A32CAD R P T E G V R S A S V V L H G D G G L A D A A T T L M I A G P D H W P E Y A A R
UniRef90_UPI000372F288 Q P I E A V Q G V T V T A P T C L T A D A L A T V L S V L P I S E G L A C V D A
UniRef90_UPI00046A04AB Y P D N E M I S V T V Y A N D A I L T A D G Y D N A L M A M H L K K D A I A F V E S
UniRef90_A6GZN4 Y P V K G L Q S V T I I S P D P E L C D A I A T S V F L M G L E K G L A F V N Q
UniRef90_R9N672 Y P V D S G L Q V T I I S T S S V T G D A L S T L C F I L G Y E K A V S L L K S
UniRef90_Z4WZU9 Y P V D T Q A S I T I I S T S D N S L D G E I W T T R L Y G E K P R Q L L A R V E Q
UniRef90_UPI0003A938BB Y P V R D K K M A V I N N D A F L A D L Y S T T F F L M P I D K V L N F V E S
UniRef90_D5BHR4 K P E R S N L S A S V L A E S C M L A D G Y A T A F M A L G L E K A K K L S L E
UniRef90_E4RUM2 L P I S G L K S V T V I C P H A G E L G A D A M T P L S I L G V K D E G L N L N Q
UniRef90_R6NK45 K P A D K H I N V T K Q A E L G D A L S T A L F V M G V D E A I N Y W K Q
UniRef90_G4KU39 Y P A E S G I S V T V V A P H G T M C D A F S T A L F V M G E E K A V E F W R S
UniRef90_UPI0004632FB5 F P S E H F S A V T I V T H N S G M A D V L S T A L F N M P F E Q G K K L T D S
UniRef90_R6KB45 Y P Y E T Q L C V T I L S H E S T V G D C L S T T C F V L G A D K G M E L I E S
UniRef90_UPI00037A9B70 T P V Q H R A S V S V L A E T G L L A D A Y A T L L M V L G D E Q G R K F A E E
UniRef90_UPI00037D4909 Q S P V R G V A S V T V I H P E C M A A D A W S T A L T V L G V H A G M A L A E Q
UniRef90_UPI000349CA52 E S P R E L S S V T V L A P T G I E A D G L S T A I L V L G V E K G L A L A K R
UniRef90_C2KUI0 M P A D R H R S V S I L T K D S G L A D G L S T A L F I L D V E E G K A L L K K

UniRef90_E8LKY2 T D H A V Y A I E M D K D G K A A Y S R A F E P Y L K
UniRef90_UPI00036788C9 W K G V I E A I F V T T D H V V T L T P G L
UniRef90_UPI00029AF280 S P Q I E A L I V E A T E Q G R V I E T S G F K Q L E
UniRef90_D7UX57 Q K G Q V I E A I F V S K D K K V Y I T S G L K
UniRef90_A0A024IT44 H L G L D V L F L L R D A S G G V R
UniRef90_UPI00039AB2F4 F E E T Q A L W V R A D G Q L V A S R D F K K Y L
UniRef90_UPI0003821C86 Q E E L D A Y I I Y L E R A D G E V F M T P G F K K
UniRef90_E2NNP8 L D D V I E A C F I D T N N Q I T Y T K N F N
UniRef90_UPI000477422D H D I A A F F V I R A D K A F V T R A N A F D R L L K
UniRef90_Q1QHD3 H Q L A A A I I R F S G N D D A I
UniRef90_A6G5T6 R E G L A A Y F L I R T A E G F E A Q S T P A Y Q E
UniRef90_R5QC77 I K N V S G C F I D D H N Q I S Y S K N F K K Y L
UniRef90_UPI0004777781 L G I A D Y L A V D A A G Q I H A S P A M K A R L R
UniRef90_J5UWF3 R Q D F E M V L V G M D G H V W I T E G L
UniRef90_H7EKI2 T R D F D F I L I T K E R G I V Y S P G L
UniRef90_UPI00042901B2 Q D I A A M F V I L I D E D W Q I V E T S A M Q A
UniRef90_H1ZAY3 I P S A S C V I V D H K A N L F T S N N I K
UniRef90_F2I773 L K G I E G L V V T Q A G K I L V S R A L
UniRef90_C0EAE2 N G G F D M L L V T N E N E L L T E G I
UniRef90_UPI0003698078 H P G V D A L V A D A G G A R W L S P G M A A A L K
UniRef90_A0A024HKTO Q G L A A Y F V M H E G Q A F S T R V T P R F
UniRef90_I4N5F2 H D I A A L F V R R D G E V L S R P T P A F E R
UniRef90_H0Q0B4 Y G I E H A L R V A A D G H I E V T R E L R A R L Q
UniRef90_E0E3Q3 L E D V D A I F I T N D K K V Y T T K G L K
UniRef90_Q01TF1 H P G A E V F I V T S S A A G R V V E S P G W A R L S Q
UniRef90_UPI0004059A33 A G T A A L F I T E T D N G L A E T T S A W K
UniRef90_I9BU91 H G L S A L F L I R E D A G G I
UniRef90_B1R410 I D G V E G I F I N K N G N I R F T E N F P
UniRef90_A0A031GUB6 L D L K E V L M V D A Q R N V H M T A A M Q A
UniRef90_UPI0003B568FC H S D Q F Q A I L I D D T G T L Y V T E G L
UniRef90_D1Y205 R G G P G F V L L T E D G E L W I S E D L N A
UniRef90_R5DLI3 L S G I E A M F V M S D G T I K Y S S G F S S Y L K
UniRef90_G6CGP6 K P N I Q A I M I T K D N K I Y L S N G L K K M F K
UniRef90_A5W6F6 H D L A A V L V T R A E G G F V R A T P A F E R A V K
UniRef90_I0GMH5 Q E G I E G A I T D G R Y Q L W T T G N M
UniRef90_D8GF39 K N S D H I Q A I F I T N D K K I Y L T N G L K K
UniRef90_G0VRC7 M E G V D C E I T G T D N A V Y M T Q G F K
UniRef90_C6KV02 R G L D A L F L R D D E G N
UniRef90_V6S8F3 L K H L G C I I I D D N D R K Y F S N N I R L
UniRef90_W7UZ23 N D G Y D L I L V T D D N I F Y T E G L
UniRef90_Q31EK5 M H I T E A F M I D D N Q K T Y V T P D M
UniRef90_C6W729 H P E M Q V Y L I Y K K P D G T I T A S A G F G R Y I
UniRef90_T1XM63 R G L D A L F V T R E G N G L R T V G T G F
UniRef90_R6YKT1 H P E L D A Y F I Y T T D K G E I Y Y T T G M K Q Y L Q Q
UniRef90_UPI000329F847 R P D I E A I F V T K R R E I F L S S
UniRef90_D2ZE74 R P D I E A I F V T K S K E V V I S S
UniRef90_U2S685 G V Y D F D L I L V T E D G R L L A T A G I
UniRef90_A6DR08 I P Q A D A L F V N K K G H I Q H T E G F
UniRef90_U2D1S1 K G V Q A V F I T E D Y E L H Y T D G F Q
UniRef90_Q0F1W1 S V L L M R V D K A G H I H
UniRef90_R6WJ31 Y D A E G L F I D H E G T I T M T E G M R Q Y
UniRef90_UPI000255BF45 W G I K A V F I T R D K K V Y V T P N L K
UniRef90_UPI00047EE1B3 N P H L Q G I I I D D K G K I F Y S K K F K I K E
UniRef90_UPI00046A4841 R N D L A Y L L V T K N G K E I K S K T W A K Y E
UniRef90_UPI000345A642 R G M D A L F V L R E G E L K E I S
UniRef90_H1CT89 L D G V I E A L F L K D N M D F I E T S
UniRef90_F8J634
UniRef90_Q52718 M G V R A V L R I T D D G S I F A T P E M R A
UniRef90_F5SQE8 K N L A V L F V I P K D G K I H
UniRef90_W6T4N1 L P D T E A I F V D H Q R H V V V T S G L
UniRef90_M9VZ78 R E D I E A I F V T K N R D I L S S
UniRef90_D4LKL4 Y G A D G L F V D E D H H V Y L T E G M K
UniRef90_J0ML82 R P D I E A I F V T K R R E I L S S A
UniRef90_A1VQL2 L D R V D V F L V D K K G K V W K T T G L
UniRef90_A7IQ70 L D R V G L A A L F V R A D G A V E A T
UniRef90_UPI00036B252B A D L P A T V L F I S P D
UniRef90_I1ZLT1 L P G M D T L L V S K S G K I A Y T S G L Q S Y L
UniRef90_I0QJU5 H E D L E A I I I D K D N Y C F Q T S G
UniRef90_G9WGT9 E P D L E A I F V T R D R R V A V T N G L Q Q
UniRef90_UPI00047D373C L G M S A L F V D G Q D R V I S T
UniRef90_R5PJY7 H P D V H A V L R D N L E D V L V S E A L R
UniRef90_L0DDV9 T D E A A A L I V R L S P K G E
UniRef90_UPI0002899AB5 L K G V D A I F V T K G R K G V Y V T S G L K K
UniRef90_I5AVS6 L D A P V K I L F T G Q N N E L E W Y P
UniRef90_E1VME0 R G L R A Y F I W R D G S Q K A R H T R A F Q S V L P K
UniRef90_UPI0003A32CAD L G I D H A L V V L A D G R I E A T P A M A A
UniRef90_UPI000372F288 T A G A A A L I V T A D G T Q H R S Q R W
UniRef90_UPI00046A04AB R K N L E A Y F V Y H Q K D G K V T L T T G F K K L I
UniRef90_A6GZN4 F N D I Q C F M I D D K N Q Y Y S D N L N
UniRef90_R9N672 Y P D V Q A V F I A E D G Q I S Y
UniRef90_Z4WZU9 E K G I E A I I V T D N R V Y Y S S R I S P
UniRef90_UPI0003A938BB Q K D L E V M I L D K D M N I K S K N F E L E E V K
UniRef90_D5BHR4 L E D V D V Y F I Y A E N D S K V Y A S A G F Q
UniRef90_E4RUM2 M N Q L A C I L V D D H N R V Y T S N N I R A
UniRef90_R6NK45 N K D D A F E M I L I T D D K K I Y I T E N L
UniRef90_G4KU39 G T Y A F Q M I L V T E D G R V L V T D G L D E F E Q E
UniRef90_UPI0004632FB5 L P D T E A L W V A K D G K I K Y S N D F S K Y I N K
UniRef90_R6KB45 R D G I E A I F M L N D G S K L Y S S G A K Q Y I Q
UniRef90_UPI00037A9B70 H K L A A Y F I W R T E T G F S Y A T P T F Q P A L
UniRef90_UPI00037D4909 Q G L A A A F L L R D G E Q L Q A R Y S R A F
UniRef90_UPI000349CA52 I R G V I E A I A T C K D N R I L A T E N F P L
UniRef90_C2KUI0 I Q D S G A E A M W I E P D G T Q D Y T E N F

UniRef90_R7N805 1 P I S V T D Y K L N T Y V Q I D S Y T N V N K N V L S D A L G L C D Y Y E 40
UniRef90_F9UMN9 P I E D T Q F M M G T V V T L R T Y N K G K D N V L A G A F K L L K R T E A
UniRef90_I9KX84 K K Y V S Q F T M M G T V L S L L T L F E P N Q T A V E A V Y D Y L Q R N I M D E
UniRef90_UPI00047D4537 K L E T T T L F A M D T L M E L L Q I V G D P K T L L T E A E G K I R Q R N I E D
UniRef90_E8TV67 H R L Q L H G P T M A T T R W A V L S C D V P P V L D T N A L C Q A L A E V I R Q V D
UniRef90_Q04DL9 P Y E K N E F L M G S T I C T L T L Y Y K G K S A V L N K G M A T I R H F D F D
UniRef90_A0A031MHC7 E I L Y G S T M G S T Y S I K W V G S E P A A T E V K A S V G D Q L L E T F E
UniRef90_D1CH08 Q E V T R H F R A M N T D V R V A T A G D P K E A N R Y I D Q V E A L F A D T F E
UniRef90_UPI000471A485 R Y H Y S A V M M G T R V E L T Q L A A H Q P D L A R Q V E F H R I K Q M E D
UniRef90_R5L9W7 T L N L T A M D T Y M S I T C Y A G R E A D E A L E L A E Y E I K R R L D
UniRef90_M5RVQ2 R H A L N G P T M G T T Y M V K V H S P P E Q P D W A S E A T D R E L R S V N D
UniRef90_K2JV47 Q L S F Y A F G T L V E L Q T L H P P G A D I E Q I E S A V Q A E V L E V L H
UniRef90_UPI000365EC81 H K R E L T M L G S P F E I V V A D D P Q A D V Y I D L A V A E V S R L E E
UniRef90_UPI0004230F8C V Y E D T Q E F M G T Y M V R T Y G E H A Q A G A E A F A R A K E L L E
UniRef90_U2JSH3 R Y T T I F Y V F D T V T Q V I A Y C E S E E E Q A L H Q D L I A Y N K E L L Y
UniRef90_D4KD10 S R D F F L F N T E N H I E V I E T D D D T L D Q V E A L C Q H Y E
UniRef90_C7MLE1 I H I N G F A Q G T T Y H I S Y A G A D D S S M T R E A A D S I F R S L D
UniRef90_UPI00047728B2 I H I N G F T F F D T V S N I S Y Y A G D E D T F D A A A L V L E E Y H K L F
UniRef90_R5FTV3 V Q Q L K G F A Q G T S Y H I S Y W S P A P D A Q A V K K A V A D E F A S L D
UniRef90_H8GMA5 Y A L S G R A F A T G W S V R L Y A D A A P Q G L T E R L Q A R L A D S L D
UniRef90_V4PAP2 V Y E Q E K V L M G T V F K I K A A S P E E K V E A A F T N A F Q R I J A D S L E
UniRef90_Q3B3Q9 S I D G E A Q G T T Y H I R Y F D P K N R N F K H S I D S I L T E F D
UniRef90_C6W2G9 K P I R K T E M A I G T V V T L R T Y D E G K E E V M D A A F E R L H E L G E
UniRef90_E6U1E2 P Q R A S R T L M G T Q I D I V V D G E G P A T A R A I E Q A Y L E M R L E E
UniRef90_C57114 K M Y E Q E K I L M G T L F K L K A Y Y S R A Q L D S I A A L S F A E V D R L E E
UniRef90_B3QTB6 S W T S L H M G T V I S S K V Y G T A E D A K R Y A S L V E A E V R E F D
UniRef90_H3KG44 Y K Q T R F M L D T Y V T I H V F D Y E S V A N D A I I R A F N R M Q S L D
UniRef90_V2Y5N3 Q K V G F F F D T V T L T A Y D A E K S C E E F L S E C L T E C S R Y E
UniRef90_K1X9D8 Q T S T L F A M D T V M L Q I Q G D E E L L R E G E A L I R S L E E
UniRef90_UPI00032BFD10 K H Y E M S E K I L G T I V S G V G Y G E N S K K A L E K A F K R A N D I E D
UniRef90_T0CL05 E P L K I Q G F T Q G T T Y N I S L Y T S E S V S Q A Q L E E A I S K E L A H I D
UniRef90_B3PBT4 Q R I P G H V F G T A V E V I T I Y G E S E E R A G Q L G A V L K E F D R L H
UniRef90_UPI00034B27B0 Y Q K S M L A M G T V I N I Q V V A Y E E D R R A V L E D I F S I F Y D I E
UniRef90_W8QXS7 F F A F D V P C S I S T V A A F S G V E A L D S C V A E C Q R F E
UniRef90_A8AXE5 K I Y T S T I F A M D T V M E L Q I A G K K D Y T P E A E E Y I R R L E
UniRef90_C7MMV1 L D T P V N I T V W G N T Q F E V N D W E S E E V I L E D I D
UniRef90_UPI00047AB508 T S T I F A M D T V M Q L E I E G D D K L L A E A E K K I R D I E
UniRef90_UPI000363F4E1 K L T G A V F G T S Y S I I Y D S D I D Y E K Q F D S L F Y V I N
UniRef90_V4IIQ1 M G T I V N L V V T D H D N A H T A I D T A F V K M G A L A
UniRef90_B9MM66 K S M F A L G T D I H F I F Y Q S N F S A L D R A H S L I L D M E
UniRef90_G9Z4X1 R V Y S Y S A V L M G S P I L L K L F V H D E A L A S R V F Q L I K R Y E
UniRef90_UPI0004066513 Q R F H A E F L L F D T V T Q I V G Y A K K E E F T Q L A T D V H D Q L E T Y H
UniRef90_C6DJZ9 Y V Y S V H L M G S P L L K L F V H D E T A V R Q V F L R I K R L E
UniRef90_UPI000360F8A9 Q L Y T R V H P A M G T D F T L Y I Y A D T A T A D R E A E R V F S M V D Q L E
UniRef90_E1SSU7 T L K Y F G T S A I Q V Y D A G E D A K Q A L C D S A T I K R L H
UniRef90_A2TS66 I T I A G N A F G T S A G V K Y F G E V A E A P Q I K K G I D S V V A V N
UniRef90_UPI0003B4AC67 P Y K F S G F Y F D T Y I E I T I Y D N C N D N I V Q G L E D I C K K Y D
UniRef90_A1VWVK0 R L Q F I S L G T E V E I H I L D A G S D A E T A A K A A R Q E I D A I S
UniRef90_UPI00047EEDE1 M G T I S L A I V H D K A Q V L T E A K R C L L D Y E
UniRef90_UPI0003688C3A E I H T Q R I L A F G T L V E V S I Y S A D A E A R T A T E A V R Q D L E R M H
UniRef90_UPI000462EC6F H V Y S Y S V L M G S P I V L K L F E N N Q S A A Q T V F R L I K Q Q E
UniRef90_UPI00047610F2 E L Y I H G T Y V F G T R V Q L V L Y G P L D E A Q R D A D V F A R F Q A M H
UniRef90_BOTMN7 H I Q I H G N T M G T T Y S L T L D T A D I S E L E L Q I A V E Q E L N K V N
UniRef90_M2BRB5 K E Y S K T W L S I G T V C R V R I L T S E P Q A E E V L E K V Y A E L I K L D
UniRef90_UPI000362B193 K P Y E A V E P H M G T L F R I K L Y A P D A A A E H A F R A V F D R V A S L D
UniRef90_A1AV94 R Q T I T G T M G T S Y S I K I N N N Y V S Q L M I D R R L D E I E
UniRef90_S2S819 P Y S D T Q F L M G T V V T V K L Y D K D K Q G A L D A A F A R V Q L L A
UniRef90_I0WH87 L I T N T G F A F G R T Y T K Y Y A L D A E T D F K D E I E L L N E I N
UniRef90_B7X2L7 R I H R L S G Q T M G T H W S L R L V N P D Y L P M A V Q A L L Q Q V F E D V V
UniRef90_B9XT43 H R Y E L Y G E L H M A S L F R I T L Y A S Q A E A D E A Q T A A F Q K I E A L F
UniRef90_UPI0004725551 S L Y G E T Q G T Y F Q V K Y Y D G E K R N F Q T K L D S L L C A F D
UniRef90_UPI00047AFEE5 H V T F Q A M G T Q V D I V V P S T S T N V G I A V Q R A R D K V I E E L E
UniRef90_C0BFY3 K T Q R I N G F T L G T S F S I S Y S A P Q L S E I D L E R K V D S I F G V L N
UniRef90_E3PU52 L L N S V L D V K L L D E G K D I E K I N E R D I T M K V Q S L E
UniRef90_A5WBL1 I K G E T M G T S Y H I T F Q N P K V N Q D E I R Q A I D K R L Q Q I N
UniRef90_UPI0003B59A7 E F T A M A S A P C R I R L A G V A D E A Q A L A Q A M A D E V R R I E
UniRef90_UPI000349035F W R L R F Q A M A S A C E I L L C G P G P K A Q A A Q A M A E V R R I E
UniRef90_A0A023BXG8 N G K A F G T T F S V Q F I D N K E Y D F S K S Y D S L I N V I N
UniRef90_UPI0004021FF9 G E A L G T T Y S L I Y I A D E E L D Y Q T E I D S L I F K V I N
UniRef90_W8EWZ3 F T K E A R L M G S H F T Y T V A D D T L G W N A L A I A E T R R I D
UniRef90_F5X0S9 S H S V K M M G T I I D I V D S D T P H Q H I K E V C H L L T V Y K
UniRef90_C8VWMP3 M D T G M T L T V H A S Q A V A D D A A N A C R Q R V L E L D
UniRef90_L0WHY4 Y Q T V S G E T M G T S Y H I R Y A D H L S D T A S I Q A A I D E R L Q A I N
UniRef90_A2TYZ3 Y T L K G G V F G T T Y K I T Y L E A D K N Y Q K E I D S L F E V V N
UniRef90_W2UP22 E G Q A L Q T T F H I Q Y E V A H D S T R L D D E I Q T V F E N M N
UniRef90_C2M728 V Y Y I K G E A Q G T T Y S I T Y I A K A P V E K T A I D S I L Q V I D
UniRef90_R5EYN9 V Y E T T F L T F D T V T T I R G R A E S Q A A T E A A Q G V H D T L L H Y H
UniRef90_D41M2 V Y E Y S T V L M G S P L L K L F E F N Q T L A G N V F R L I K Q Q E
UniRef90_A6LEW5 Q Y E V S G R L H T P Y H I K F E H T K P L D K E I D E Q L K Y F Y
UniRef90_UPI0003779AAF H R Q Q F D A M G S R C E L R L S A P N A A A A A L A A R A I E V R R I E
UniRef90_L1NY15 Y L I E G E A Q G S T Y H K Y I S D T K E D L R P A I D S L L R V I D
UniRef90_F6IKR4 M A T T W S V R L V A P S L E V G R L K R D C Q S A L D R V V
UniRef90_A6VZ05 E L Q T V E G Y A Q G T T Y Q I S F W S E E E V P V I T V Q A A F D T L A Q I D
UniRef90_I7ZFV1 E P Y G Y T F R A L G G P C T L R T Y G S E S A C A A A D A D A V D S A E V L R I E
UniRef90_UPI000289B39D K L Y N E I G K A L G T T Y S I L Y I A P K K N E T L E K G L V D S I F E V I N
UniRef90_J2LHG1 V F S Y S A V L M G S P L L K L F D D N P T L A R Q V F Q L I K Q Q E
UniRef90_D0YYH5 K L E K I T G F A E G T T Y H V T Y W S K D D V P T K V L Q A F Q K R L A E I D
UniRef90_E4KME0 L Y S N Q Y R M M G T I S V M I G S S D P N A K T L T D V Q A M M A D E F E
UniRef90_D4IKY0 T V D G T M L G T T L H V V A D V K G V S R Q R L Y A V M E L D R E A K

UniRef90_R7N805
UniRef90_F9UMN9
UniRef90_I9KX84
UniRef90_UPI00047D4537
UniRef90_E8TV67
UniRef90_Q04DL9
UniRef90_A0A031MHC7
UniRef90_D1CH08
UniRef90_UPI000471A485
UniRef90_R5L9W7
UniRef90_M5RVQ2
UniRef90_K2JV47
UniRef90_UPI000365EC81
UniRef90_UPI0004230F8C
UniRef90_U2JSH3
UniRef90_D4KD10
UniRef90_C7MLE1
UniRef90_UPI00047728B2
UniRef90_R5FTV3
UniRef90_H8GMA5
UniRef90_V4PAP2
UniRef90_Q3B3Q9
UniRef90_C6W2G9
UniRef90_E6U1E2
UniRef90_C5T714
UniRef90_B3QTB6
UniRef90_H3KG44
UniRef90_V2Y5N3
UniRef90_K1X9D8
UniRef90_UPI0003B2FD10
UniRef90_E0RYJ2
UniRef90_T0CL05
UniRef90_B3PBT4
UniRef90_UPI00034B27B0
UniRef90_W8QXSX7
UniRef90_A8AXE5
UniRef90_C7MMV1
UniRef90_UPI0003B5230E
UniRef90_F7Q0L4
UniRef90_UPI00047AB508
UniRef90_UPI000363F4E1
UniRef90_V4IIQ1
UniRef90_B9MM66
UniRef90_G9Z4X1
UniRef90_UPI0004066513
UniRef90_C6DJZ9
UniRef90_UPI000360F8A9
UniRef90_E1SSU7
UniRef90_A2TS66
UniRef90_UPI0003B4AC67
UniRef90_A1WVK0
UniRef90_UPI00047EED1
UniRef90_UPI0003688C3A
UniRef90_UPI000462EC6F
UniRef90_UPI00047610F2
UniRef90_B0TMN7
UniRef90_M2BRB5
UniRef90_UPI000362B193
UniRef90_A1AV94
UniRef90_S2S819
UniRef90_I0WH87
UniRef90_B7X2L7
UniRef90_B9XT43
UniRef90_UPI0004725551
UniRef90_UPI00047AFEE5
UniRef90_C0BFY3
UniRef90_E3PU52
UniRef90_A5WBL1
UniRef90_UPI0003B59BA7
UniRef90_UPI000349035F
UniRef90_A0A023BXG8
UniRef90_UPI0004021FF9
UniRef90_W8EWZ3
UniRef90_F5X0S9
UniRef90_C8VWMP3
UniRef90_L0WHY4
UniRef90_A2TYZ3
UniRef90_W2UP22
UniRef90_C2M728
UniRef90_R5EYN9
UniRef90_D41M2
UniRef90_A6LEW5
UniRef90_UPI0003779AAF
UniRef90_L1NY15
UniRef90_F6IKR4
UniRef90_A6VZ05
UniRef90_I7ZFV1
UniRef90_UPI000289B39D
UniRef90_J2LHG1
UniRef90_D0YYH5
UniRef90_E4KME0
UniRef90_D4IKY0

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

UniRef90_R7N805
UniRef90_F9UMN9
UniRef90_I9KX84
UniRef90_UPI00047D4537
UniRef90_E8TV67
UniRef90_Q04DL9
UniRef90_A0A031MHC7
UniRef90_D1CH08
UniRef90_UPI000471A485
UniRef90_R5L9W7
UniRef90_M5RVQ2
UniRef90_K2JV47
UniRef90_UPI000365EC81
UniRef90_UPI0004230F8C
UniRef90_U2JSH3
UniRef90_D4KD10
UniRef90_C7MLE1
UniRef90_UPI00047728B2
UniRef90_R5FTV3
UniRef90_H8GMA5
UniRef90_V4PAP2
UniRef90_Q3B3Q9
UniRef90_C6W2G9
UniRef90_E6U1E2
UniRef90_C5T714
UniRef90_B3QTB6
UniRef90_H3KG44
UniRef90_V2Y5N3
UniRef90_K1X9D8
UniRef90_UPI0003B2FD10
UniRef90_E0RYJ2
UniRef90_T0CL05
UniRef90_B3PBT4
UniRef90_UPI00034B27B0
UniRef90_W8QXSX7
UniRef90_A8AXE5
UniRef90_C7MMV1
UniRef90_UPI0003B5230E
UniRef90_F7Q0L4
UniRef90_UPI00047AB508
UniRef90_UPI000363F4E1
UniRef90_V4IIQ1
UniRef90_B9MM66
UniRef90_G9Z4X1
UniRef90_UPI0004066513
UniRef90_C6DJZ9
UniRef90_UPI000360F8A9
UniRef90_E1SSU7
UniRef90_A2TS66
UniRef90_UPI0003B4AC67
UniRef90_A1WVK0
UniRef90_UPI00047EEDE1
UniRef90_UPI0003688C3A
UniRef90_UPI000462EC6F
UniRef90_UPI00047610F2
UniRef90_B0TMN7
UniRef90_M2BRB5
UniRef90_UPI000362B193
UniRef90_A1AV94
UniRef90_S2S819
UniRef90_I0WH87
UniRef90_B7X2L7
UniRef90_B9XT43
UniRef90_UPI0004725551
UniRef90_UPI00047AFEE5
UniRef90_C0BFY3
UniRef90_E3PU52
UniRef90_A5WBL1
UniRef90_UPI0003B59BA7
UniRef90_UPI000349035F
UniRef90_A0A023BXG8
UniRef90_UPI0004021FF9
UniRef90_W8EWZ3
UniRef90_F5X0S9
UniRef90_C8VWMP3
UniRef90_L0WHY4
UniRef90_A2TYZ3
UniRef90_W2UP22
UniRef90_C2M728
UniRef90_R5EYN9
UniRef90_D41M2
UniRef90_A6LEW5
UniRef90_UPI0003779AAF
UniRef90_L1NY15
UniRef90_F6IKR4
UniRef90_A6VZ05
UniRef90_I7ZFV1
UniRef90_UPI000289B39D
UniRef90_J2LHG1
UniRef90_D0YYH5
UniRef90_E4KME0
UniRef90_D4IKY0

90 100 110 120
Q L S Y G A F D I L T A I G S V S R L W D F N T D T P D V P D S S A I I A D A V A
K N S D E S F D L L A I G P L V T S L W H I G F F S G G E Y H D A K Q V P T S Q E A I E A D K N V K
Q R T E P T S F N V L L S I Y P P L V L K L W K I L G F F G G E Y H D A K Q V P T S Q E A I E A D K N V K
G R Y E G A G F D L L S I Y P P L V L K L W K I L G F F G G E Y H D A K Q V P T S Q E A I E A D K N V K
U P I 0 0 0 4 7 D 4 5 3 7
R L S D G G A F D D P A I V G A V L V D A W G F G G A C D T P D A E A R E A A R S N A K R
U N I R E F 9 0
K N S D D G S F D D M A I G A V L L N L W K I L G F F G G A P G G A Q N R V P S D D S Q Q E I A K S A M L P
U N I R E F 9 0
R N D S D G S F D D L T L L G P L V L A L W G F H G D G D G G Q N V V P P D D Q Q E I A K S A M L P
U N I R E F 9 0
R M T N G G I F D D P T V L P S L I J A G Y D R S F F E L L G D Q Q P A G R A A G W
U N I R E F 9 0
F S G G G C F N L A I G P L V R R W K I G F S G R G D S V V P P G A A D E I A K E D K L L A
U N I R E F 9 0
G T T D G G A F D D V T I G P P L V L E W G F F G A E E P A G P D R K A A M N T N R V L P
U N I R E F 9 0
E K T D G G A F D D V T V G P L V D R W S F F G A G E R K N D V P S E S E I L D K L K K
U N I R E F 9 0
R A S K G G A F D I L G M G D A V T A W G F G P A E E P A G P D R K A A M N T N R V L P
U N I R E F 9 0
D L S G G G L F N P A L G K L V A A W G F H Q D E P A G P P P D A A T L D A L L D
U N I R E F 9 0
K L T S G G A F D I T Y A S L D K I W K F D G S M K K M P S E E E I I R N S V A
U N I R E F 9 0
E K S G G M L L C I G D L I D L W H I G T S E H A A I L P A D D E I L Q A S L L R
U N I R E F 9 0
E L T G G K L N I A M G S V L L G I W G I G T S E H A A I L P A D D E I L Q A S L L R
U N I R E F 9 0
Q A T D G G A F D I T A M G T V T R L W N L Q D R I P C R E D L A A K L A H V I D W
U N I R E F 9 0
S A A A G G I F D I T V M P L V L K L W G F G P D D G R S K T I P D A R K V L K D L A
U N I R E F 9 0
S L T N G K M N I M L G A V L K P W H D A F N G E T P A V P P D D K A I A D T L K
U N I R E F 9 0
K A S Q G G Y D L T I K P L F T L W G F A K T V A P G V P D S P T E V I A S A L K
U N I R E F 9 0
A L T D G G A F D P A L L P A V L G R L W D I K R K S P P P P S S
U N I R E F 9 0
D S T G G V F D P T F L P L S E A Y G F G N K K N T D P E N S A N I D S L L S
U N I R E F 9 0
E A T G G A F D P T I M P L S E A Y G F G N K K N T D P E N S A N I D S L L S
U N I R E F 9 0
E D T S G G L F N I A V G P L T S L K W N I G F F D A G H Q T V P P S Q H E I D E L L P
U N I R E F 9 0
Q F S D G G A F D V T V G V L S L K G W N F E A G D A R K P P S Q H E I D E L L P
U N I R E F 9 0
E R T S G G A F D I L T I F K P L G Q L W N V I K Q R T V P P T K A E I D S A A K
U N I R E F 9 0
K L S G G G A F D P T I G P P V M N V W K I G F G G D E V P S D D A I A A V A K V
U N I R E F 9 0
K Q T G G L F D I T I Y P P L V M E L W G F P S G D E V P S D D A I A A V A K V
U N I R E F 9 0
R V T D G G A F D I T I Y C P L V E L W G F Y G E S P H V P N E N D I K D C L K
U N I R E F 9 0
E L S E G A F D P T I G T V T D L W N F H A D S E Y K A V P E P I M S D A L L H
U N I R E F 9 0
D S T N G A L D I T I Y P V L K T W G F T T T G E Y R V P P A D E I E L L E
U N I R E F 9 0
K L T N G A F D P T I G N L I D A W G I G T D H G K I P E K S T T D K Y K N L E
U N I R E F 9 0
I A S H G C Y D I T S K P L F E L W G F K K D V I F N K P S A D E A I R R A W D
U N I R E F 9 0
A R S D N L F N P A I G G L R L W G F Q S R L Y T T G Q T F S A S D D V P H T A V
U N I R E F 9 0
E L T N G K Y D P A I G K V M E Q K G F N R L Y T T G Q T F S A S D D V P H T A V
U N I R E F 9 0
L I P G S H L N I T L G P L I Q T W R I G F K D A R V P S A S E I E K V L S
U N I R E F 9 0
A A T E G L F D I T A G E L I A H L W N F H R A Q M P T S D D I R R A H S
U N I R E F 9 0
E R T G G A F D I T I Y P V L K A W G F T T G E Y R V P S D G E L A E L L Y
U N I R E F 9 0
E A T D G G K F D P T I G K L V E L W D I G N G E F S R V P P D D D I L Y T K S
U N I R E F 9 0
E A T E G S L D I S V Y P L V L K T W G F T T T G E F R V P S D D D E L K A L V S
U N I R E F 9 0
G L T E G A F D P T I G N V V N A W K F G A E N T I E V V D S L K I D S L M Q
U N I R E F 9 0
E L T D G G A F D P T V M P L L H I Y Q S Y R E T A T L P P Q S M I D K A L E
U N I R E F 9 0
L F S E G Y F D I T V K R L I D M W K E A K Q K N K M P S K E I L E L A L T
U N I R E F 9 0
M L P Q S A F N L A I G P L V K R W R I G F K G D E V P P A A E I A A L A L T
U N I R E F 9 0
E K T D G T V N V A M G S V L S I W H I D Y R D S P E T A K I P P M E S I L K A A A L
U N I R E F 9 0
L I E N S G F N V A I G S V V S K I W K I G F R S G S T I P P D S E S I L Q G A A L
U N I R E F 9 0
A R S D G A F D I T V G K L M K A W G F F R S A T G H V P T E A E L A P V R A
U N I R E F 9 0
R A T S K G Y F N I A V G P V L R Q Q W R Q K R N A C G C S L P Q A I E N S A M K
U N I R E F 9 0
K A T S G Y F D P T V G T L V R N A Y G F G D T E A F F E T L D E P T L D S L M Q
U N I R E F 9 0
D K T N G I D P S I N S V Y V L W T F S N E D K N N P L P S N V D I K N A L A
U N I R E F 9 0
A R T G G R F S P A I G G L T E L W G F S A Q E G P L E E P P A E E I E A W V
U N I R E F 9 0
L R S D A C L N I A I G P L I K L W Q V G F K G A N L P S E A A I Q D R L A
U N I R E F 9 0
R R S D G L F N P A M G D L I T L W G H G D D R P D D P P P A D A Q I R Q W L A
U N I R E F 9 0
L L E G S C F N V A I G P L V K R W K I G F Q F Q G D T V P S P E A L R A L L P
U N I R E F 9 0
L E T Q G L F D P G I G R L I R L W G F Q A D Q F Q D V V P P S D A V V R E A R S
U N I R E F 9 0
Q Q T E G A L D I T L E P V I E F W G F G V K A R D L K G K N R G Q L E Y A R S
U N I R E F 9 0
E L T D G G A F D P A I G P P V K L W N I G F F E N E S V P S P E A I K E V L P
U N I R E F 9 0
A E T G G E F D I T L G P L V I H L W R Q A R K D G R V P P D T A E L A R A S A
U N I R E F 9 0
K Q T Q G F F D S G M G R L I N I W R F G T I K V Q E K P S L E K I G Q A L A
U N I R E F 9 0
K N S E G A F D P A I G P I T S L W H I G F F A D A R K P A Q S K E I D E R L P
U N I R E F 9 0
T L T N G E F D P T V G G L V N A W G F G T E Q Q P I D N I P S Q S K E I D S I L L Q
U N I R E F 9 0
R L S G A A M D P C M G A L V S L W G F G P R Q N P L Q P H P G D E I Q R L L Q
U N I R E F 9 0
R E S D G A F D V T V I P Y V R L W R A A R K K K V L P T E A E L A E A R K
U N I R E F 9 0
D L S G G V Y D P T I L P L V E A Y G F G P G K H Q I Q P I D L D S I L P L V D
U N I R E F 9 0
E E T K G L F N P C L G H V L E S I G Y D V S F Y R L G D H P I V N V T D A L P
U N I R E F 9 0
E A T D G Y F D P T V G A L V N A Y G F G P G K P L I Q I S Q Q Q R D S L L F
U N I R E F 9 0
E L A D G S F D I T V G P L A N L W G I G T E A A K V P T E D E L K K A L S
U N I R E F 9 0
Q Q S G G A F D P T V M P L I N L W G F G T V M T A E R P P S A S E I A T A K A
U N I R E F 9 0
R Q S E G R F D L S S G V L R Q A W D F K A A R V P S E T E L V R C R E
U N I R E F 9 0
R L S G G R F D L S S G P L R R A W D F R Q G V P Q D A Q L A P L L P
U N I R E F 9 0
K A T N G A F D P T I G I L V N A W D F G P E G K I A F L D S L K I D S L L L
U N I R E F 9 0
N A T E G Y F D P T V G A L V N A W G F G P G K E L E M N R E R V D S L L Q
U N I R E F 9 0
E L S G G A F D V T F A S A D K I Y T F D R Q E H P L P P E V M K A A V A
U N I R E F 9 0
L L Q P S N L D I A I G P L V Q S W R I G F E D A K V P D K E N I Q K A I A
U N I R E F 9 0
S Q T G G A F D P T V Y P L T S A W F F T T G D H R V P S D E L A A L L P
U N I R E F 9 0
Q L S H R A F D P T V Y P L V Q L W G F G G Q M S I E R L P S P D D I A K A K Q
U N I R E F 9 0
K Q T D G F F D P T V G N L V N V Y G F G P E K E L L D I T E E V I N E E L K
U N I R E F 9 0
K E T N G L F D P T V G A L V N A W G F G P D K P L A R I E Q E Q V D S L L E
U N I R E F 9 0
W Q S K G A F D P S I G Q L I N A W G F G K K E N H T P T Q K Q I D S L L A
U N I R E F 9 0
D A T G G K V N V A M G G V L A L W H D A R D P A N A R L P D R A A L E N A A A
U N I R E F 9 0
M L P D S R F N F T I G P L V K R W K I G F N G E S V P P A T E L H A L L T L
U N I R E F 9 0
T E T N G A Y D V T C A P L I N L W G F G F S R K D S V T P A H I D S V R Q
U N I R E F 9 0
A A S G G L F D I T S G V L R R A W D F G K P R V P D A D T L G P L L A
U N I R E F 9 0
R E S G G L F D P T V G V L V N A W G F G K K I E E S L P T D E T L E K L K Q
U N I R E F 9 0
Q L T G G A F D P T V G G A S E A W G F G A S P A T L A P T C D D A L D T L A S
U N I R E F 9 0
A K S E G C Y D P T I G P L F D L W G F K T D K L H V P T Q E E L T A L K S
U N I R E F 9 0
A Q S D G L F D I T S G V L R R A W D F R S G R V P E Q S Q I Q E L L Q
U N I R E F 9 0
K V I S K G N F D P T V G V L V N A W G F G P Q M G I K Q M T P K V V D S L M Q
U N I R E F 9 0
L L P D S A F N F T I G P V V K R W K I G F Q G R A V P P A N E I A A L L K
U N I R E F 9 0
K D S G G C Y D P T I Q P L Y K L W G F Q G D K L H V P T H E I T T L Q G
U N I R E F 9 0
I A S D L A L N I A I G P L I K L W R I G F K D A H Q P Q A D E V T H A L T
U N I R E F 9 0
A L S D G R Y D V T V K P L V E A W G F A G R E R A E N P N V D S L E F V

UniRef90_R7N805 YVDYTKV[SL]STDN[H][H][S][P]140DGY[C]L D L G G A I A K G Y [A] D K [K] A
UniRef90_F9UMN9 LVDYK K K L N D K K R T V Y L E E K G M Q L L D D L G G A I A K G Y M T D D Q Q V K T
UniRef90_I9KX84 LMDLRH E V L L D E A Q S S V Y L E E Q P M Q L L D D L G G A I A K G Y F A D D Q Q V K T
UniRef90_UPI00047D4537 NVDYR Q V S L N K N Q S D N T F P R E E M Q M Q V L D D L G G A I A K G Y T S T M L S D
UniRef90_E8TV67 LPTPQA L E L N D L A A G L A R K H S P L Q L L D D L G G A I A K G Y A V D D R M C A
UniRef90_Q04DL9 L L N Y H D V L N K G K H T Y L T R D K G M R L L D D F G G I A K G Y [A] D D Q V K K
UniRef90_A0A031MHC7 QTGH Q H Q L H I R N D K G Q L C K D V A L Q L L D D L G G A I A A G Y M V D E V V K
UniRef90_D1CH08 RGSWRDI R L D P S A R S T I T I P Q G G A V L D D L G G A I G K G W A V D D R A V E
UniRef90_UPI000471A485 L T D P H A I R M D P Q G S V F L T R S G M S V L D D A G G A I A K G Y M A D D Q L C M
UniRef90_R5L9W7 L C G F D K I K M D Y E T I T M E S G M G L V L D D A G G A I A K G Y T S D R L L M A
UniRef90_M5RVQ2 S V G Y Q H L E A R L D P P A L K K D [A] N R V L D D L S S I A K G H G V D R V L V D
UniRef90_K2JV47 A S E A L L D L D V A A G R L R K T A P V A L L D D L N G G I A K G Y G V D R L L A E
UniRef90_UPI000365EC81 N P P G M G D I E R N G V R L R G T H P D L Q L L D D F G G I A K G L A V E R V L E
UniRef90_UPI0004230F8C K V G Y Q N I V L N P K D H S I F K N E G M K L L G L G G I G Q G F I A D K I K A
UniRef90_U2JSH3 P E G W S D V R Y D V Q S S L S F S D V T L N F V G G A V A K G Y L S D E M K K
UniRef90_D4KD10 H C D I N D L V I D E E A K T Y L S D P E M S L D V G G I A K G Y A V E M V C R
UniRef90_C7MLE1 E A I T L S G S A G Q R T I T I S D A D A C L L D D L G G I A K G Y I T D S I T R
UniRef90_UPI00047728B2 Y V G Y Q K L Y F K G D S L L K K D P R L T L D D V N G A I A Q G Y T V D V S I A T
UniRef90_R5FTV3 H T S I D L E I D K V N K T V R L D S K A S L D D L V G A V A K G Y A V E R S A Q
UniRef90_H8GMA5 Q I G M E K L T V V D D T H L G K K Q A T L Q T D D L S S I A Q G Y S V E S L S R
UniRef90_V4PAP2 S G G W R D L T W R A D G M I K P S E V R I T G F G G I A K G Y A V D E V L R
UniRef90_Q3B3Q9 L V D Y R A V R L E R K K M T Y L E K K G M K L D F G G I A K G Y A A R E A G R
UniRef90_C6W2G9 L I G F K Q I E F N E K E V Q A A R P G G V K L L D F N G I A Q G Y S V D I L G A
UniRef90_E6U1E2 L M D H T K I E I N D E K E Q T V E A E E G M R L D D L G G I A K G Y I A D L L A E
UniRef90_C5T714 L V D G H R L V L D E Q A T A Y L A E E G M A L L D D L G G I A K L P I L L E A G M R
UniRef90_B3QTB6 L V N F K N I V L Q P D S L T L F L K Q K M R L L G L G G I A K G Y A A K K A G E
UniRef90_H3KG44 D V S R V R V T E E K A T H Y V Q L D P G Q F L D M G G I A K G Y I G E T I A E
UniRef90_V2Y5N3 N V G S D K I I F D E A T G E I V F K N K M G K I D F G G I A K G Y I T D E L V K
UniRef90_K1X9D8 K I G Y K N L K L S E D K L E R L T E V I K I L D L G A L A K G Y I I S Q A V E
UniRef90_UPI00032BFD10 Y K N V I E L N E D D G E Y T V R L D D K G A E L D L G G I A K G Y I A D K L K Q
UniRef90_E0RYJ2 N V D Y H D E L S D A G I I C E I L P S G T Q V L D D L G G I A K G Y T S M S L Y N
UniRef90_T0CL05 N Y K N I R L N K Y T K E I R F L D E N V K L D D L G A I A K G Y I G D E M K K
UniRef90_B3PBT4 I V G M D K L I P S D T Q L R S Q R V P E L R L D D S N G Y A K G Y S V E R V V K
UniRef90_UPI00034B27B0 A K P R M S D L R Y D D G N R L S S R N R A V M L D L G G Y A K G Y A L D R A A A
UniRef90_W8QXS7 H Y R D V Q L N E T N R T T Y L N K P L I L D D F G S I A K G F A C D L A A K
UniRef90_A8AXE5 L T N P E I E L D P T A R S V F L K Q R A R M K I L D L G A I A K G Y I A D K I R S H
UniRef90_C7MMV1 H T D F R Q V H V N G Q A V V C I D D A A A R V V L D G G I A K G Y I A D K L R D
UniRef90_UPI0003B5230E S V G Y R K V V L E R G G A H V I L P D G M E I D L G S V A K G Y T G T A V S D
UniRef90_F7Q0L4 L V N Y K N V I I D Q K V D V K I D S N L N L D D L G A I A K G Y A G E I L K K A
UniRef90_UPI00047AB508 N V G Y D R L D V E Y A G C N V K L E D N M Q I D D L G S V A K G Y T G S Y L A E
UniRef90_UPI000363F4E1 Y V G Y D K T Y R L K R S I I K S N P N V Y L E F N A I A K G Y G V D L I G E
UniRef90_V4IIQ1 L V D Y R K I V I E N Q T T I R Y T L P G M Q V L T D G G L A K G Y I V D A G V G
UniRef90_B9MM66 F S G S E N I Q L S N Y R V K L N K V K L D D F G G I A K G F L A D K I R E
UniRef90_G9Z4X1 R P Q D V I L D D A A G S V F L T R P G M E L D D L G A I A K G Y I A D R V R D
UniRef90_UPI0004066513 H T D F S K V I I D E A A T V Y L E D P D M R L D D V G A I A K G Y A T E Q A A E
UniRef90_C6DJZ9 L T H P E R I I L R E Q D C A V L L E S G M E I D L G A I A K G Y I A D I V R D
UniRef90_UPI000360F8A9 E T G W K R V V L N A G T R T V R F K P G V I E L D P G G I G K G F A V D A A I E
UniRef90_E1SSU7 Y T D I S K I N L Q V E D A N T V T L G E G M S L D F N G I A K G W M A E K V K A
UniRef90_A2TS66 Y V G W S K V Q L Q D E G T I S K T A S T I Y F D F N A I A K G Y G V D R V A A
UniRef90_UPI0003B4AC67 T V D Y R N I K V D K N T V S I G K N Q T I N L G F I A K G Y I T D Q I K E
UniRef90_A1VWV0 E R A P R D L S W D A E R V T S S N D G V R I D L G A I A K G F A G E R A V A
UniRef90_UPI00047EEDE1 L T H P A D L I D D A K Q T V Y L A K Q G M E I D L G A V A K G Y F A D L I K D
UniRef90_UPI0003688C3A R A P S M A H I E L D G L R A R A T R P G L R L D D L G G F A K G Y G V D R A M Q
UniRef90_UPI000462EC6F L T D P A H V V L D A Q A C S V F L T Q G M E I D L G A I A K G Y I A D R V R E
UniRef90_UPI00047610F2 H A H T D I L A I S P T G V V S A N R A V S I D L D G G Y A K G W S L D E A A V
UniRef90_B0TMN7 K T G M D G Y V L D N G M I V K V I P D L A I N P S A V A K G Y G V D R V A N
UniRef90_M2BRB5 L L D Y K N I L L S E A N K A F L Q K E G M R L D D L G G I A K G Y A A D K L A K
UniRef90_UPI000362B193 N C G Y R K I H V D P A S T V E L D D A G M E L D V G G I A K G Y A A D E A L K
UniRef90_A1AV94 I S S I E Y L R L D N S R V K K L K D V H I N L S A I A K G Y G V D V V T N
UniRef90_S2S819 L V H Y P D V V L N K K G T V I L K K K G M A I D L G G I A K G Y I T D E V V K
UniRef90_I0WH87 F T G F D K V V T L T K E G R L I K T H P Q V T L N F S G L A K G Y A I D R I G A
UniRef90_B7X2L7 T S G C R H L H W N A Q T R Q L Q Q S G G L E L D F C G I A K G F A V D W A V Q
UniRef90_B9XT43 E V G Y Q K L L Q N A R G K T L T V P N M K L D L G G I A K G Y A A D K A L Q
UniRef90_UPI0004725551 F N H I Q N D A T V T K K H Q A V R L D D F N G I A Q G Y A V D L L S
UniRef90_UPI00047AFEE5 F L A P C P F E V D T T K S E V F L Q P G Y K I D L G G I A K G W I V Q Q A A D
UniRef90_C0BFY3 F T G W D K T Q L T E Q Y T I K K A H P Q Q V Y F D F N A I A K G Y V D V I A D D
UniRef90_E3PU52 L V G Y E K V L D K N A K T Y L E K G M A L D D F G A I A K G Y V T D E I N S
UniRef90_A5WBL1 L L D F K G I K L T E D K L S K D K P N V A L D D F S A V A K G Y G V D V I A E
UniRef90_UPI0003B59BA7 R I G W D R V V W T G E A I A L P R A G M E I D D F G G I G K E Y A V D R A A T
UniRef90_UPI000349035F L I G W P Q V E R D G P R L R L P R A G M A L D L G G I G K E Y A A D R A S
UniRef90_A0A023BXG8 S V G L H K V I T L K G D R I V K D A P K T Y I D F N A I A K G Y G V D V F A E
UniRef90_UPI0004021FF9 Y V G F N K V N L T P E H K I T K T N P N I Y F D F N A I A K G Y S V D R L A V
UniRef90_W8EWZ3 R I N Y R N V L L D A E R K T V L K D K G M R M N L A G V L Q G Y G I R R R A Q
UniRef90_F5X0S9 L A N P E H I I L N A E K S V F L N R K G M K I D L G A L A K G Y I A D K I M D
UniRef90_C8VWMP3 R V G Y A A V Q V D E T A G T V T L E G G A Q I D V G G V A K G F A A D E L R A
UniRef90_L0WHY4 W V G L D K V I T L N E A Q L T S K S I D G V G L D D F S A I A K G Y A V D V I A N
UniRef90_A2TYZ3 Y V G L D K V S L K N Q V I V K D D P K V Y L D F N S I A K G F G I D V I A R
UniRef90_W2UP22 F T G F D K V S I T E E G Y I L K N H P Y V Y F D F N A I A K G F T D L I G R
UniRef90_C2M728 L T G M D K V H S I D E P R I L K K D N P N I Y F D F N A I A Q G Y T S D V I A E
UniRef90_R5EYN9 H M D F D A V I I D E D A S T V F I D P E T R L D V G A V A K G W S A Q R A A E
UniRef90_D41M2 D P R Q V D L D D A T A S V Y L Q R Q G M E L D L G A I A K G Y I A D V V R D
UniRef90_A6LEW5 F I G F Q K V R L E G D R I V K D D P R L M M N F S S L A A D G T V C D M I A Q
UniRef90_UPI0003779AAF L V G W R H V H C E R Q Q V Y L L Q P G M E I D F G G F G K E Y A A D R A A A
UniRef90_L1NY15 Y V G F D K V Q L T D D N H I R K K D S H I L F D F N A I A K G Y T S D V V I A A
UniRef90_F6IKR4 P Q G W K R L D F A P D P A R L R Q P G G I A L D L C A I A K G Y G V D R L A E
UniRef90_A6VZ05 E L G I N K I E V D E E N R V R K T R P F L Q L D F S S M G E G Y T I G K L S H
UniRef90_I7ZFV1 L V G W H R V K W D R P R I K L P L P E M Q L D F G G F G K E Y A A D R A A A
UniRef90_UPI000289B39D Y V G F D K V D L K N N K S I Q K T N P N V Y L D F N A I A K G Y C L D R I A
UniRef90_J2LHG1 L T D P H Q V V L N S A D C S V F L Q S G M E I D L G A I A K G Y I A D R V Q A
UniRef90_D0YYH5 D M G I N N I E I D P T H L K T R K A L P Q Q I D L S S M G E G F A I S Q L S K
UniRef90_E4KME0 L I D P H F I E L D P A Q R T Y L S Q A G M E I D L G A L A K G Y F A D S Q A K S
UniRef90_D4IKY0 G R E K V R V I E G G R I V K D D P R V I Q L D F N S V A K G Y T V D L L A G

UniRef90_R7N805
UniRef90_F9UMN9
UniRef90_I9KX84
UniRef90_UPI00047D4537
UniRef90_E8TV67
UniRef90_Q04DL9
UniRef90_A0A031MHC7
UniRef90_D1CH08
UniRef90_UPI000471A485
UniRef90_R5L9W7
UniRef90_M5RVQ2
UniRef90_K2JV47
UniRef90_UPI000365EC81
UniRef90_UPI0004230F8C
UniRef90_U2JSH3
UniRef90_D4KD10
UniRef90_C7MLE1
UniRef90_UPI00047728B2
UniRef90_R5FTV3
UniRef90_H8GMA5
UniRef90_V4PAP2
UniRef90_Q3B3Q9
UniRef90_C6W2G9
UniRef90_E6U1E2
UniRef90_C5T714
UniRef90_B3QTB6
UniRef90_H3KG44
UniRef90_V2Y5N3
UniRef90_K1X9D8
UniRef90_UPI0003B2FD10
UniRef90_E0RYJ2
UniRef90_T0CL05
UniRef90_B3PBT4
UniRef90_UPI00034B27B0
UniRef90_W8QXSX7
UniRef90_A8AXE5
UniRef90_C7MMV1
UniRef90_UPI0003B5230E
UniRef90_F7Q0L4
UniRef90_UPI00047AB508
UniRef90_UPI000363F4E1
UniRef90_V4IIQ1
UniRef90_B9MM66
UniRef90_G9Z4X1
UniRef90_UPI0004066513
UniRef90_C6DJZ9
UniRef90_UPI000360F8A9
UniRef90_E1SSU7
UniRef90_A2TS66
UniRef90_UPI0003B4AC67
UniRef90_A1VWV0
UniRef90_UPI00047EEDE1
UniRef90_UPI0003688C3A
UniRef90_UPI000462EC6F
UniRef90_UPI00047610F2
UniRef90_B0TMN7
UniRef90_M2BRB5
UniRef90_UPI000362B193
UniRef90_A1AV94
UniRef90_S2S819
UniRef90_I0WH87
UniRef90_B7X2L7
UniRef90_B9XT43
UniRef90_UPI0004725551
UniRef90_UPI00047AFEE5
UniRef90_C0BFY3
UniRef90_E3PU52
UniRef90_A5WBL1
UniRef90_UPI0003B59BA7
UniRef90_UPI000349035F
UniRef90_A0A023BXG8
UniRef90_UPI0004021FF9
UniRef90_W8EWZ3
UniRef90_F5X0S9
UniRef90_C8VWMP3
UniRef90_L0WHY4
UniRef90_A2TYZ3
UniRef90_W2UP22
UniRef90_C2M728
UniRef90_R5EYN9
UniRef90_D41M2
UniRef90_A6LEW5
UniRef90_UPI0003779AAF
UniRef90_L1NY15
UniRef90_F6IKR4
UniRef90_A6VZ05
UniRef90_I7ZV1
UniRef90_UPI000289B39D
UniRef90_J2LHG1
UniRef90_D0YYH5
UniRef90_E4KME0
UniRef90_D4IKY0

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

UniRef90_R7N805 E T Y M E V L H I N D N D Y S V V V T S S G T Y E R Y F S D D G T F Y H H I L N P A T G
UniRef90_F9UMN9 S R A I G S L P A K N K S V V T S S G I Y E R Y F K K N G K V Y S H H L M D P Q T G G
UniRef90_I9KX84 P Y P A L Q V E E A P A R T A V I T S S G I F E R Y F F K Q G N R Q Q Y H H I L D D P P K T G G
UniRef90_UPI00047D4537 D S I Y G V L E E A A D T A I V I T S S G G L F E R Y F F E Q G N Q Q I Y W H I L D D P V I T G G
UniRef90_E8TV67 R A A H G V L E E Q D L A V A T S S G D Y R H F V Q V G Q A R L A H S M D N G R S T G G
UniRef90_Q04DL9 S R G V G Y V R E S D M S I V T S A G D T Y E Q Y L I S H G H K Y I Y L M N P K V I T G G
UniRef90_A0A031MHC7 R I A Q L L L P L R G L G V S T S S V V I R R R W V R G G E V M H H I L D D P R T G G
UniRef90_D1CH08 P R D L L Q L Q L E D R A V A T S S S V I R R R W V R G G E V M H H I L D D P R T G G
UniRef90_UPI000471A485 L L G S I R L S Q G S V I T S S G V Y E R Y F V H Q G G I H Y H H I L D D P R S G G
UniRef90_R5L9W7 K D Y A G S I N V S Q G K A V I T S S G G Y E R Y F V D D G K K Y C H H I L D D P H T G G
UniRef90_M5RVQ2 G G Q K L M V A H K D A A M A T S S G D Y R N F F E V D Q Q R Y S H T I L D D P R T G G
UniRef90_K2JV47 R S A H S V L A L Q D A A V A T S S G D Y R H W V J E V G G R H L S H T I M D P H R S G G
UniRef90_UPI000365EC81 G T L G S L E L G A G E A L V A T S S G D Y E R G Y D W E G E Y I L H H I V I D P R S G G
UniRef90_UPI0004230F8C D K I F A T F P L E N S A V E T S S G S Y E K Y V T F N G V R Y S H I I L D T R T G G
UniRef90_U2JSH3 P E L M G S V T V T G Q A V V T S S G N Y E K Y F F E E N G K R Y H H I L D D P C T G G
UniRef90_D4KD10 A I F G S P I N M S D L A L V T S S G D Y Q R Y F V V D D G K R Y H H I L D D P E T G G
UniRef90_C7MLE1 S S S M G V V E I A D A S A V T S S G I Y E R A A E L E G V F Y H H I L D D P T T G G
UniRef90_UPI00047728B2 P V L I K T V F V L K E G A I T T S S G K Y R N F Y R N G N K K V S H I L D D P R E T G G
UniRef90_R5FTV3 S K Y A M Y L S L T K D S V I T S S G T Y E R Y F I V D R V K Y H H I L D D C E T G G
UniRef90_H8GMA5 H K I L A M P K A S P L A I T M T S S G T Y R H Y F D A D G R R Y G H L L D A R T G G
UniRef90_V4PAP2 K R T V A A L C G C G A V A T S S G E I R H F S H G G Q L Y S H T M D G A T Q G
UniRef90_Q3B3Q9 P L I R F N I R R E C G J A T S S G G Y E N F F I W N G R R Y H H I L D D P S T G G
UniRef90_C6W2G9 N A L A A T V R L T D R A M T T A G N Y H N H I I R N G I T Y N H I I D P S T G G
UniRef90_E6U1E2 S R G Q G T I D A T D E S I V T S S G I Y E R I L L K E E D G E Y H H I L N P F D G G
UniRef90_C5T714 P L L G A L S V T Q G Q A V A T S S G I Y E R F F F V Q G G R E H H I L N P R T G G
UniRef90_B3QTB6 A P V M T F E I R K K L G I A T S S G D Y E N F F M Y Q G E K Y H H I L D L R T G G
UniRef90_H3KG44 D R Y F A V V E A T D E S V I T S S G A Y E R Y L E K D G K R Y G H I L N P K T G G
UniRef90_V2Y5N3 P N Y M A A V K L E D C A V I T S S G G Y E R Y F E E G G K Y H H I L N P K T G G
UniRef90_K1X9D8 E A S L G Y L E I S D A A I G G S S G D Y E R F F M E N G I R Y H H I L S P K T G G
UniRef90_UPI0003B2FD10 D D S I L T I L S L S D K S V V T S S G I Y E D R Y F F E K D G E L Y H H I L D D S K T G G
UniRef90_E0RYJ2 D S I L G V L S V S D L A V V T S S G G Y E R Y F E E N G K T Y W H I L D D P K T G G
UniRef90_T0CL05 E N I V G S L K T S D E V V V T S S G N Y E R Y F I K N G V K Y H H I L D D P K T A G
UniRef90_B3PBT4 Q K I V S F D A G E P M S L I T S S G T Y R H Y F D S E G K R Y S H I L D A R V S G G
UniRef90_UPI00034B27B0 A G A V A R L E L R D E A I G T S S G D Y Q R Y F D M N D G K R H P H I I D P R S G G
UniRef90_W8QXSX7 Q T N I S V I Q T T N C A I C T S S G S Y E R I S R N D P H T H H I L L P Q T K G
UniRef90_A8AXE5 G N N L A L L S I T D Q S V V T S S G I Y E R N L K A A N G K I Y H H I F E D R N T G G
UniRef90_C7MMV1 A G N A A F V L V C D A A V I T S S D V Y E R F F E A N G K R F H H I I V D P R T G G
UniRef90_UPI0003B5230E D S A S G M I G V M D A A I V T S S G G Y E R Y F F E D N G K R Y W H I L N P T T G G
UniRef90_F7Q0L4 G V Y I G T V E T S K D K A I V T S S G N Y E R F F F I D Q D K K Y H H I L D T D T G G
UniRef90_UPI00047AB508 D S V L G V I F T S D M A V I T S S G G Y E R F F F E E N G K Y W H I L D D P K T G G
UniRef90_UPI000363F4E1 Q S I L K A I S L K N E A M A T S S G T Y R K F V D E N G N R Y A H I I N T E T G G
UniRef90_V4IIQ1 D N L T Q M I G L S D K A T A T S S G D Y L R Y F S D D K T V L S H I I N P R S T G G
UniRef90_B9MM66 E D V L G F L E L G S T S V V T S S A S Y E R Y F T I D G K K L S H I I N P K T G G
UniRef90_G9Z4X1 Q E T L G T I T V N H Q S V V T S S G T Y E R F F E Q D G R R Y H H I L D S R S G G
UniRef90_UPI0004066513 D T A I D T L A L D G L S L V S S G D Y E R F F Y M V D G V K Y H H I L D D P A T G G
UniRef90_C6DJZ9 D R L L G I L K V K N K S V V T S S G V Y E R F F T V D D R I Y H H I L D D P R T G G
UniRef90_UPI000360F8A9 G D A I S T V T L R D T S L S T A N C S E K H F V A G G H Q Y C H H I M D P R T G G
UniRef90_E1SSU7 Q Q F H E T V A G E N L T L V S S G N Y L K Y Y R V G D K E Y H H I I N P N T G G
UniRef90_A2TS66 R T A S V L V S I T D K A M A G S S G N Y R R V D K A T G K Y V H T I N P L T G G
UniRef90_UPI0003B4AC67 T E Y Y C T L I I K D K S V V T S S G I Y E R Y L Y N G K Y Y H H I L D K N N G G
UniRef90_A1WVK0 G T V L A A V E H A D E T V E T S S G D Y E R T F T H E Q D R R Y H H I L D D P T T G G
UniRef90_UPI00047EEDE1 N H L R G I I Q F D G S V V T S S G I Y E R H F E Y D G R K T Y H H I F D S Q T G G
UniRef90_UPI0003688C3A E G I M A S L E R G D E S V V T S S G D Y E R Y F V Y D G I R Y H H I L D D P R T G G
UniRef90_UPI000462EC6F P N M L G V I A V T G K S V V T S S G I Y E R Y F F E K D G M L Y H H I L D D P K T G G
UniRef90_UPI00047610F2 P G T L A T L E L R D G A I G T S S G D Y E R F Y K A D G V R Y C H H I L D D P R S G G
UniRef90_B0TMN7 M Q I Q E V V S L N N M A I A T S S G S Y V N Y L E S G E S Q L S H I I N P N T G G
UniRef90_M2BRB5 Q N P V I S M N L Q D A S L V T S S G N Y E R F I E K D G I T Y H H I F D S K T G G
UniRef90_UPI000362B193 A P F T R V L H L S N A A V S T S S G D T E Q H L D A G G K R Y S H I I V D P K T D G
UniRef90_A1AV94 S M P I A I E L Q N Q A V A T S S G D Y R N Y L K W Q G K K Y Q H I I N P H T G G
UniRef90_S2S819 P R A L Q K T L P A S N M T V V T S S G I Y E R Y L K V D G K I Y M H L M N P K T G G
UniRef90_I0WH87 Q N P Q Q K F T M E N Q S L G T S S G N Y R R F R S E T G E H Y V H T I N V K T G G
UniRef90_B7X2L7 T E A E S I V A C R E G A F A T S S G D F W H Q F T H A G K R Y S H T I L D D P R T G G
UniRef90_B9XT43 A K V T K T V L L K N A G I S T S S G D T E Q F V J E I G G K R Y S H I I V D T Q T G G
UniRef90_UPI0004725551 P R L I A T I P I L E D R A M T T S S G N Y R N H F T K N G R R Y N H I I V P R N G G
UniRef90_UPI00047AFEE5 P G G A H V L K V S D M T V A T S S G T Y R R K W T F N G Q T V H H I L D P F L G G
UniRef90_C0BFY3 R K L T I Q V L T L N N E A L A T S S G N Y R K Y S V N D G G E W V H S I N S T K T G G
UniRef90_E3PU52 E H Y L G I Y R D T D F S M V T S S G T Y E R Y F E Q D G K Y V H H I L S T T D G G
UniRef90_A5WBL1 D S I R Q P L L S N K L H L A T S S G N Y R N S V V F D G R R Y S H T I L D D P T T G G
UniRef90_UPI0003B59BA7 P G A V A E W A V H D G A L A T S S G D Y E R Y F F E Q D G R R Y C H H I L D D P R T G G
UniRef90_UPI000349035F R e V C A Q V A L Q Q G A L A T S S G D Y E R F F T P D G R R C C H H I L D D P R S G G
UniRef90_A0A023BXG8 D D T Q S Y I S L H D E A M A T S S G G Y R K Y I D E N G E R Y T H H I L N A K T G G
UniRef90_UPI0004021FF9 R T S K Q T V N L K D N A M A S S G G Y R K F K I E T A G D K Y V H T I L D D P L T G G
UniRef90_W8EWZ3 P S I S S W V Q V T D V A V V T A G N Y E Q Y F T S A G K V Y G H I L N P A T G G
UniRef90_F5X0S9 Q N N L I G T L T L K D K S V V T S S G I Y E R H L Q V G D K D Y H H I F D R H T G G
UniRef90_C8WMP3 P K L A G L L E V R D A T V S T S S G A Y Q R S F E K D G T R Y H H I L D D P S T G G
UniRef90_L0WHY4 D T T L T Q P I G E P M H L A T S S G G Y R N S I E Y D G V R F S H T I N P V I T G G
UniRef90_A2TYZ3 N T G Y K T I N L S G K S M A T S S G N Y R K F V T D D G K K Y V H T I N P K T G G
UniRef90_W2UP22 R T L T A K I K L K N K A M A T S S G N Y R K F R L D S G E R F V H T I N P K T G G
UniRef90_C2M728 R E L V A T V E L T D C G L A T S S G N Y R K L W T D S G Q K Y V H T I N P K T G G
UniRef90_R5EYN9 G D Y L H T V C V T G G S V V T S S G D Y Q R T Y L V D G E S Y H H I I L D P E T G G
UniRef90_D41M2 D T P L G I N V T D K S V V T S S G I Y E R Y F M R D G R C Y H H I L D D P Q T G G
UniRef90_A6LEW5 D A A G M N Q E P K P L G M A T S S G N Y R N F Y I K D G R K Y A H T I D P R E G G
UniRef90_UPI0003779AAF P G A I A S I P I S S G A L T T S S G D Y E R F F E L D G V R Y C H H I L D D P R T G G
UniRef90_L1NY15 K E L I A T I Q F S D K G L A T S S G N Y R K V W D S N G R K Y V H S I N P I T G G
UniRef90_F6IKR4 E G L T P R I A L S G C A G A T S S G H T R R F H Q V D G M G R L G H T I D P A T G G
UniRef90_A6VZ05 P K V Y Q V I T V K D E T L D T S S G T Y N R H F D D N G V E Y S H I I N P S T G G
UniRef90_I7ZV1 A R A M A V V D L E A G A V A G S S G D Y E R Y F E Q D G K R Y C H H I L D D P M T G G
UniRef90_UPI000289B39D R T L V T T L K L K D K A M A T S S G N Y R R F R V D S G K K Y V H T I L D P F T G G
UniRef90_J2LHG1 D E L L G V L Q V Q G K S V V T S S G I Y E R Y F E R D G R C W H H I F D P Q S G G
UniRef90_D0YYH5 Y Q V V T I F D Q S G V S L N T S S G T Y H H N F E Q G K K E Y S H I L D D P R T G G
UniRef90_E4KME0 N K H L G F R I K V N Q S V V T S S G I Y E R Q L E T N G R Q F H H I F D S K T G G
UniRef90_D4IKY0 E Y L Q K R I Q M T G G L A T S S G N Y R R F Y D G E G N K V A H T I L D P R T G G

UniRef90_R7N805 Y P D N N L C D V T I I S S E S T V G D C L S T T C F V L G L D D G M K L I N S
UniRef90_F9UMN9 A P Y Q N N L M V V T I I S S K K S V D G D A L S T A T F D K G L K G G M K Y I N G
UniRef90_I9KX84 Y P V E N Q L V Q V T I I T S E Q S E L L A E V L S T V A Y F E G P K E E G A Q L L E P
UniRef90_UPI00047D4537 R P A H A G L S V T V V I T G S D G I L V C D A L S T A L F V K G L K E S S V R L L W Q A
UniRef90_E8TV67 K P V N N V A S V T V L A P R C M D A D A W A T A L L V A G S G K Q G L A L A H R K
UniRef90_Q04DL9 Y P E N N L V S V T I I S K K S V D G D A L S T N A A F D K G L K K G L K Y A M N K
UniRef90_A0A031MHC7 R P V H D L A A V T V L H P S S A A W A D G L S T V L L V K G S K L G W E Y A I E
UniRef90_D1CH08 N P A S R V I A A T V V A D S V A Q A E V L A K A A I I L G E E Q G L R L I E
UniRef90_UPI000471A485 Y P D N D L S V T V I V S P Y S I L D G E I Y S T A Q L Y G M G L E K G C E W L A T
UniRef90_R5L9W7 Y P V E S D M D I T V I V S V D G T L A D G L S T A L C Y V M G L D K K T G L E Y W H N
UniRef90_R5RVQ2 R P V N G L A S V S V I T D S C M L A D G W A T A L N V V G R E E A M R L A R E
UniRef90_K2JV47 A P M N S P A S V T V V A Q T C A E A D A W A T A L M V L G T E E Q G A A L A R A R
UniRef90_UPI000365EC81 R P S Q G V A S A T V L H H D P A L A D G A A T T L M I A G P E A W P E Y A R R
UniRef90_UPI0004230F8C Y P A S G V I S V S V F A T S T E L A D A L A T G L F V L G V D I G I D L I D Q
UniRef90_U2JSH3 A P S E D V V G S T I T I A D K G D G D A L S T A T F L M G A D A G M Q L I D S
UniRef90_D4KD10 W P A E Y V N G S V T V L C P G D S G M D C L L T T A L F C M P L E E G Q K L V E S
UniRef90_C7MLE1 M P A E T D V S A T V I A P Q S I D A D G Y T T A L I V M G A K R A L E C I E S
UniRef90_UPI00047728B2 F P S N E M V S V T V F A K D S L T A D A Y D N V M M G M H L D E E G A F A L L E R K
UniRef90_R5FTV3 M P A N Y F I S V S I T I T S V D G T L A D A L S T A L F C M S Y E E G K A L I E K
UniRef90_H8GMA5 R P V H D L V S V T V A H P D P T V A D A W S T A L L C L G E A Q G L K T A N A
UniRef90_V4PAP2 S P T R D V V S A T V F D P A C W R A D A L A T A L T V M G G T R A L S R A A K
UniRef90_Q3B3Q9 Q P A S Q G M K S A T V F A H D P A K A D A Y A T A F F I L G P E L S R A R T
UniRef90_C6W2G9 G P R P G G R R V T V F A Q D A I T A D G Y D T A F F V M G L E A T K T F L K N
UniRef90_E6U1E2 Y P T M N E L A G V S I V S E E S I D G D A Y S T A V F G M G V N E G F E Y V E N
UniRef90_C5T714 Y P T A G V H G V S L L A R D S V I Q I N G L G A T A M M V Q G A K A G Q M L V A R K
UniRef90_B3QTB6 F P A K G L K S V T V F S E D P T L A D A Y A T A F F I L G Y K P A L Q I V K Q
UniRef90_H3KG44 K P A T D L S V S V I V S D H D G A M A D A L C T S I F A M G W E K K A T A F L K A
UniRef90_V2Y5N3 K P S D S D K S V S L V S K D G T L A D A L S T S L F I M G E K K A I E Y W K
UniRef90_K1X9D8 Y P A K G T I A C T T I H K E P L I V D V W N T T L V A M G P V K A I E T A E Q
UniRef90_UPI0003B2FD10 F P I K N N L V V T I I S D S S A D G D A L S T I C Y I Y G I E K G M K L I E S
UniRef90_E0RYJ2 K P A N G L V S V T I I S G K D G L L C D G L S T A L F V K G L D E A I R Y Y Q E
UniRef90_T0CL05 Y P S E S G I S T T I V T K N G I D A D A L S T A T Y I L G V E E A K K L I E S
UniRef90_B3PBT4 K P V H N T V S V T V A I H P N P T L A D G W S T A L Q C L G S G E G M S L A K A
UniRef90_UPI00034B27B0 D T V D L V A S V T I I A A G G A H S D G P S K P L F I A G P K R W R S L A R R
UniRef90_W8Q5X7 Q S E Q S L L S C T V I A P L G M L A D S L S T A A F L L G R E S G G Y S F L A E Q
UniRef90_A8AXE5 Y P I N Q L L S V T I V S D K S V D G E I W T T R L F E G E S P S S I E K V E Q
UniRef90_C7MMV1 Y P A Q S D V A S V T V I A R D A L D G D G Y S T A L L I M G L R R A Y E F V E A
UniRef90_UPI0003B5230E K P A E S G V S V T I V G K D G L L C D G L S T A L F V E G L D K A I E E Y K I
UniRef90_F7Q0L4 Y P V R N N A S V T I I T E N S T A A D A L S T S M Y A L G I N K G L E V T E K
UniRef90_UPI00047AB508 K P A K S G A S V T I I G R N G T V C D G L S T A L F V M G E E R A E K F Y K E
UniRef90_UPI000363F4E1 Y P S K T N L S V S V I A E N C M T A D A Y A T A F K V M G I E K V K T F L K R
UniRef90_V4IIQ1 F S P I E L A S S I V A P S V V Q A D G M A T A T M V M G A A K S L E I F I Q D
UniRef90_B9MM66 F P V D D I A S I T V V D T N S T F A D A M S T A L F A M G F K K A I N F I Q D
UniRef90_G9Z4X1 Y P L D N E L D V T V V S A D S L D G D I W T T L L Y G L G V E K G C A A L E K
UniRef90_UPI0004066513 M P A A Y F R A V S I V C R N D S G W G D A L S T A V F N M P Y E R G L A L V E S
UniRef90_C6DJZ9 Y P L D N E L H V T V I S R D S L D G D I Y T T L L Y G M G V N A G I E F L Q H
UniRef90_UPI000360F8A9 R P V E G R L Q A T V I A P S A T D S D A L S N A M F V L D E D G R K R L M G S
UniRef90_E1SSU7 Y P K T E G V S V V M A N E Q H I Y A D V L S T T L F L M P M K E A M D M A E S
UniRef90_A2TS66 S A E R S D V S A T I I N D Q C A T A D A W A T S C M A M G L E R S K E A L K
UniRef90_UPI0003B4AC67 Y P I D N N I Y V T V I G D S S T I C D G L S T T L F A L G T K E G L K F L K D
UniRef90_A1WVK0 Y P A M G S R S M T V I H D D P V H A D A A A T A L F L A G P D D W Q A L A E E
UniRef90_UPI00047EEDE1 Y P V N D L A G L T I I S K S S L V G E I Y T S L Y F I A G S Q D F L A K L S V
UniRef90_UPI0003688C3A Q P A R E A R S V T V L H H D G A E A D A A T A L F V A G P G R F A E I L A A G
UniRef90_UPI000462CE6F Y P D N E L L S V T V I S D N S I D G D I Y T T L L Y G M G V E K A L H H L T T
UniRef90_UPI00047610F2 F P A T Q S E S V T V L V K P G P H A D G A S K A P F V A G A T T A M S L A R K
UniRef90_B0TMN7 M P V N N V S A T V L H K Q C A V A D A F A T A L M V L D V E R S L Q I A D S
UniRef90_M2BRB5 Y P V Q N R I L A S I I S E S S T L A D A L S T S S Y V L G E E K T R A L L Q K
UniRef90_UPI000362B193 V G L T K G I T V T I I A R H G I E A D G L A T A V S V I G A T R G M Q F I D S
UniRef90_A1AV94 L P A S T N L S V S V I H N S A M I A D A Y A T A M M A M G S Q K A Q I L A Q
UniRef90_S2S819 Y P D N N L M G V S I V T K K S V D G D A L S T A T F D K G L A G M A Y I E K
UniRef90_I0WH87 Y P S N V L S V L V S T G S A M E A D A Y A T A L L V M K L E D A K Q L I K K
UniRef90_B7X2L7 W P V H D L A S V T V F H E E C M H A D A L A T V L T V L G P Q Q G M D F A L Q
UniRef90_B9XT43 L G L T I R I Q A T I T G P N A T I T D G L D N T V C A L G V E R G L A L I D S
UniRef90_UPI0004725551 D M E T S N I S V T V L A H D A I T A D G L D T P F F L M D L E T V K S F V E
UniRef90_UPI00047AFEE5 I P V E D V V S C T V V H Q D L V Q A E V M A K V G L V L G R E R G S T W L N
UniRef90_C0BFY3 E A I P S V L A S V L A P D S C I L T A D A Y A T A L M V M P F E R G S K A L I Q S
UniRef90_E3PU52 Y P V N E L A A V T I I S K S M M A D A L S T S V F A L G T E K G S F E L I D S
UniRef90_A5WBL1 Q P I A G G A P S V S V A D S V S A D A W A T A L T A M T Y E K A L A T A K Q
UniRef90_UPI0003B59BA7 W P V S H W Q S V T V A P S C L A A G A L S T L A M L A G P Q A P A F L Q S
UniRef90_UPI000349035F R P V Q H W Q S V S V I A P L C S A A G A L S T I L A M L M G P A A L D F L R D
UniRef90_A0A023BXG8 Y P L K S N L A V S I I A N T C M E A D A Y A T A L M S M G L E G S K K F L E T S
UniRef90_UPI0004021FF9 F T K N S N I A V T V A N D C A T A D A Y A T A F A M M D L K H S K D I L N S
UniRef90_W8EWZ3 M P A T G L R S V T I I C P D V E L A D C L D E V V F V K G S V D G L A F I N T
UniRef90_F5X0S9 Y P I E N M A S L T I V S D L S V N C E I W T T R L F G L P I K Q A F E T I Q S
UniRef90_C8VWMP3 Y P A A S D A S V S H G A D G A Q C D A L S T A C F V L G L D G A L D L W R A
UniRef90_L0WHY4 W P V A N N A P V T V L H D T V A L A D A W A T A L T A L P Y T E A L A L A N A
UniRef90_A2TYZ3 L A T E S N L S A S V I A P D C A D V D A Y A T A F M A M G L E K T K A F L E D
UniRef90_W2UP22 Y T Q K S D V S V T V I A S T C M E A D A Y A T A F M A M P F E E S K A L L E K
UniRef90_C2M728 R P S N L L S A T V I A P S A M L A D G Y A T T L M A L G G E K A K D F L A Q
UniRef90_R5EYN9 M P S R Y W R S V T V V C A D S G I A D A L S T A L F L M P Q D E G Q T L L T R
UniRef90_D41M2 Y P D N E L L S V T V I C P D N A I D G D I W T T L M Y G Q G V R K G L E T L R R
UniRef90_A6LEW5 C P V Q R D I L S A T V I V A P D A M T A D A Y A T A F M V L G S E E A K S L C A K
UniRef90_UPI0003779AAF M P V R Y W R S V S V M A P M A V A A G S C S T I A M L K Q H E G H T F L K T
UniRef90_L1NY15 K S T P S D V S A T V V A P T T M Y A D G Y A T M F M V M G L E K S K M F L E K
UniRef90_F6IKR4 A P I R N G A Q V T V L A E T A M R A D A L A T A L M V M G E A E A E D F A R Q
UniRef90_A6VZ05 K P I H N L I S A S V F G T P R V S D A W A T T M L C L G P V I E G A K I A K N
UniRef90_I7ZFV1 Y P V G E L S A V S V I A S N C L V A G T A T I A M L K E K D G K A W L
UniRef90_UPI000289B39D W T P S D I L S A S V I A N N C A T A D G Y A T T S F M A M S L E Q T K A V L K T
UniRef90_J2LHG1 Y P D N E L L S V T V I S D R S I D G D I Y T T L L Y G M G V E R G L A Y L A D
UniRef90_D0YYH5 S P I H N L V S A S V F G N D P I K G D A W A T T M L C L G P Q A G M E A A N K
UniRef90_E4KME0 Y P I N D L A S V T V I A D Q S L A C E A W T I L F N L N H P Q A A I D L I N Q
UniRef90_D4IKY0 R S A S R L L S V T V A A P T C A E A D A L G T M F L A M G A D D A L A A V E R

UniRef90_R7N805 L E G L E A V F M T N D G S K Y Y S D N A K A Y
UniRef90_F9UMN9 K A D Q G G I G A I F I T K D K V Y V S N N L K K
UniRef90_I9KX84 L P K T E A I F I D H D Q H V V T S G L
UniRef90_UPI00047D4537 S S D F E A I F I T E D G E V Y I T E G L
UniRef90_E8TV67 H G L D A L W L L R R G E A L V E L G S G
UniRef90_Q04DL9 K N K Q N I Q A I F I T K D K K I Y L T N G L K
UniRef90_A0A031MHC7 H E L P A L F V I R E G D G F V S R S
UniRef90_D1CH08 G V G A R G L L V L A N N D Y V M S T T L Q
UniRef90_UPI000471A485 Q T D L E G E A I F V T R D R E V V I
UniRef90_R5L9W7 H K S E F D F I A L S G N T A Y V T S G L
UniRef90_M5RVQ2 N E
UniRef90_K2JV47 R G L E A L F L L R T
UniRef90_UPI000365EC81 M G V E Y A L L V L D D R I E A T A G L
UniRef90_UPI0004230F8C L P G V G C I V V E N N G K I T A S K N L K K Y S D E
UniRef90_U2JSH3 L D G G I E A V F I Q S D G S V V T S K H I D K Y Q
UniRef90_D4KD10 L D G V E A W C T P D K Q A T T S S G W D S H L K K K
UniRef90_C7MLE1 L D G L E A I V T T H G D V I G T S G L
UniRef90_UPI00047728B2 H P E L E C Y F I Y T K K D G T V T A S A G F E A
UniRef90_R5FTV3 L E N V D V L W I Y S D G S L K Y T S G L K P E Q
UniRef90_H8GMA5 E H L A A L F I R L Q N D Q L V E Q S D S F A A
UniRef90_V4PAP2 H D I A C L L S L R E G A T V R L S P A L E A W L
UniRef90_Q3B3Q9 M R D T T L A Y I L I D S T G R I H R S P N L S A F I E E
UniRef90_C6W2G9 R K D M D V Y M L Y T N E E G Q L F A T D G I K D F I E E
UniRef90_E6U1E2 V D G V D A V F V T R D R E I F V T S G L
UniRef90_C5T714 Q P G V H A L M V A A D G T P W Y S V G M
UniRef90_B3QTB6 L P G L A F V M I D T E N Q I L L K S P N V A E F I S E
UniRef90_H3KG44 H P E V H A V L L
UniRef90_V2Y5N3 T K G K N F D I I L T E D N R L L V S E G
UniRef90_K1X9D8 V K D L Q A I I V T D D G S V L C T S E L N K
UniRef90_UPI0003B2FD10 I P D T Y V M F I T D N Y E V V T S E G F P
UniRef90_E0RYJ2 N R D K E F D M V L V T D D R E V Y L T E G
UniRef90_T0CL05 L N E V E A F L I
UniRef90_B3PBT4 N H L A V L F I D Q H G R E L K S P A L E A L Q
UniRef90_UPI00034B27B0 L G L T H V L L I D A T G A V A M T P A M R A
UniRef90_W8QSX7 H G L E I P A V M V D Q D A D M T L T P E M K
UniRef90_A8AXE5 E N G I E A F V I T E D N Q I F Y S S G L
UniRef90_C7MMV1 H D G L E A L F F R E K G A P I A T S G L R
UniRef90_UPI0003B5230E S D D F E A I F V T E D R E V Y V T E G I
UniRef90_F7Q0L4 L N G T E V I F I T E D R E L T K S S G V D K I F K
UniRef90_UPI00047AB508 Y K G I A A F L I M V T D D R K V Y V T E G
UniRef90_UPI000363F4E1 H P E L K V F L I F V N D N Q E L E T
UniRef90_V4IIQ1 L P D C E G Y F I D K S M N T H H T E G F
UniRef90_B9MM66 S K T I E A V V A T S F R E I Y I T P G L
UniRef90_G9Z4X1 R H D L E A I F V T K D R R V L S S
UniRef90_UPI0004066513 M K G V E A M W V M P D E S I R T S S G Y E A Y
UniRef90_C6DJZ9 Q P D I E A I F V T K S K E I I F S S
UniRef90_UPI000360F8A9 L P A A D A V L I V L A N G S V E K
UniRef90_E1SSU7 I P Y L E A V W Y L D E Q G N K V S T S G F E K Y Q I E
UniRef90_A2TS66 G Q N I E A Y L V Y D G G V F M T S G F N Q Y I Q K
UniRef90_UPI0003B4AC67 Y P G Y E C M Y I L D D Y S P V Y S S G F E D Y L
UniRef90_A1WVK0 L E I G Y A L L V D R D G A V W M T E A M
UniRef90_UPI00047EEDE1 I S G V E A V I I T R D G E V V L T E G I K P F
UniRef90_UPI0003688C3A L G I S K A M L L D P Q G N M H M T P D M
UniRef90_UPI000462EC6F Q P Q L E A I F V T K A G Q V I C S S
UniRef90_UPI00047610F2 T G V D A V L L V D T Q G H V F A S P
UniRef90_BOTMN7 L G L A V M L I E Q T D K G S V H F S R G I F R Y L
UniRef90_M2BRB5 L V T V D F P L I
UniRef90_UPI000362B193 K P G V A A L I V K P G A N G E V L E S S R F
UniRef90_A1AV94 Q L N L S V V L I L
UniRef90_S2S819 L K Y A D A I F I
UniRef90_I0WH87 I D H I E G F I V S A D A D G D I Y T T Q G F R E A E K
UniRef90_B7X2L7 H G I A A V L T S H L A S D G Q V I K T P A W
UniRef90_B9XT43 L P K T A A L V V T E N E Q G R V Y Q S K R F K A L K
UniRef90_UPI0004725551 R D D L D I F I V Y S D P D K G I Y A S T G I R S I I R
UniRef90_UPI00047AFEE5 D Q T V A G W V L V L N T G E V I H S W N F
UniRef90_C0BFY3 H P E L E A Y W I V S D S L D G G V V E S K G F
UniRef90_E3PU52 L P D S D A I V I T K D K I I L S K S M
UniRef90_A5WBL1 H N L T V L F V I P K D G K I H
UniRef90_UPI0003B59BA7 Q G V A Y A A L D P R G E L V A P G L E P
UniRef90_UPI000349035F Q A A F L A I S P E G Q
UniRef90_A0A023BXG8 H Q E L K A F F I Y E D Q N K E L K T
UniRef90_UPI0004021FF9 D E V L D G Y I Y L D D A G E V Y M T D G F K A M L
UniRef90_W8EWZ3 L K G V D C T L I T D D N R T L V S K N M Q R Y L R
UniRef90_F5X0S9 T P N I E G I I I T K D N R F A V T S G L K Q
UniRef90_C8WMP3 D G D A A F D L V L I A S D G R T F V T D S I
UniRef90_L0WHY4 Q G L M A M F V I E T K T G F I V Q T D A M Q Q
UniRef90_A2TYZ3 Y K N I E V I L L F S D K D G N L
UniRef90_W2UP22 L N D V E A Y F I S A A D S L K E Y K T E G F K K L L V K
UniRef90_C2M728 H K E L K A V L L Y S D E K G Q I Y V T E N L
UniRef90_R5EYN9 Y N A E A M W V D A D G G E F F S P G F R A L L R
UniRef90_D4I1M2 N P S I E A I F V T R N R Q I I C S S
UniRef90_A6LEW5 V P G L E Y F I C I G D G Y H P E Y S E G F R Q Y L
UniRef90_UPI0003779AAF S D M G Y L A I D E H G Q T L Y
UniRef90_L1NY15 H P D M A V L L V Y S N D K N E I F K T K S F E K L I
UniRef90_F6IKR4 H G I A A R I V A E T E
UniRef90_A6VZ05 E N L D V F F I E R K N D K L I N S S S
UniRef90_I7ZV1 G N L G L P W I A A H R D G T V T G S
UniRef90_UPI000289B39D Q P L D A Y I Y S D I S G K T Y I T S G F Q A L I N E
UniRef90_J2LHG1 Q P D I D A V F V T R D R Q I I C S S
UniRef90_D0YYH5 L N L P V F F I Q D E E K G F I S S S S
UniRef90_E4KME0 T K A I E G V V V D R G N Q V Y I S N G L K
UniRef90_D4IKY0 M P G V K A Y F I L A G D G G E E Y V S P A M E A L I

UniRef90_A1B775
UniRef90_F3A4R1
UniRef90_G5I173
UniRef90_D7DNH0
UniRef90_B4RG98
UniRef90_F0SPK3
UniRef90_UPI00035FC7FA
UniRef90_UPI00047DE082
UniRef90_S7VVS3
UniRef90_UPI0003B531CD
UniRef90_UPI00025591B4
UniRef90_D6YQL8
UniRef90_C8RZQ2
UniRef90_UPI000372216C
UniRef90_A0A031JEM0
UniRef90_Q01TE4
UniRef90_R6DUV1
UniRef90_L7WAM6
UniRef90_A0A024FH87
UniRef90_UPI0003B3DE9B
UniRef90_B0TIQ2
UniRef90_B0RQJ8
UniRef90_R3W2D3
UniRef90_Q2LXT5
UniRef90_UPI00041FB835
UniRef90_E7RTJ0
UniRef90_Q21C78
UniRef90_UPI000363F57C
UniRef90_UPI0003B3E604
UniRef90_A3UA07
UniRef90_UPI00047AD9A1
UniRef90_I3I8R2
UniRef90_Q3JBS0
UniRef90_UPI000377BA24
UniRef90_A0A024IFR3
UniRef90_V5BYM9
UniRef90_UPI00047268A4
UniRef90_UPI0003941158
UniRef90_K1Z144
UniRef90_Q315K8
UniRef90_G9YVT2
UniRef90_UPI000476A465
UniRef90_UPI00045E74F6
UniRef90_UPI0003722D94
UniRef90_R6DVD4
UniRef90_H6P8R1
UniRef90_G2IVP4
UniRef90_UPI000406E02C
UniRef90_N8YX03
UniRef90_UPI0003942DD9
UniRef90_R7CZ02
UniRef90_UPI000368EE5D
UniRef90_UPI00047B5DEF
UniRef90_K4Q929
UniRef90_R6P4P9
UniRef90_T0ITK7
UniRef90_F0SR89
UniRef90_UPI00047D7FC4
UniRef90_F8EUM5
UniRef90_A0A031GVW9
UniRef90_C7RDN8
UniRef90_UPI00037A566F
UniRef90_D5EK98
UniRef90_R7BJI0
UniRef90_UPI0003B62256
UniRef90_R5CW81
UniRef90_U2NK42
UniRef90_L0NBW5
UniRef90_B4DBG9
UniRef90_UPI00046352E8
UniRef90_V5BZK8
UniRef90_UPI000401D109
UniRef90_A3N9S2
UniRef90_F9YTN6
UniRef90_R5VNX4
UniRef90_J0D4Z8
UniRef90_UPI00037E32C9
UniRef90_UPI000365B5F6
UniRef90_U2K3T1
UniRef90_UPI00036E9DD9
UniRef90_UPI0003B49063
UniRef90_J6PHL3
UniRef90_B7RXQ1
UniRef90_R7JHY3
UniRef90_UPI0004793B58
UniRef90_UPI000463427B
UniRef90_A0A011QQN2
UniRef90_I9WKV7
UniRef90_U3A654
UniRef90_F0RSF3
UniRef90_L1QK37
UniRef90_UPI0004641E2C

1 10 20 30 40
R H A L N G P T M G T R W S A L F H A D G L D P A P V Q A A L Q A A V A D V D
R K T L K L M G S H I D L L F A D S L D A E N I L D D A V E M L K M Y E
Q L F D T I T S M V G Y A D D K E D A Q E L H D E L E V Y F Q S L Y
Y Q S Q G Y L F G T L I D T I T Y G E T E D R A H L L D K E L H D F H Q S L H
S L S G P T M G V A W T L K A R A P A G L S D A A V A A V Q A C D R V V
M G V P W Q L Q I Y A D D P Q A L E A S E L A F D R V K E L D
Y Q S L E G K T M G T S Y H I S F E M P K T D L A S I Q A S I D K R L L D I N
G F F F D T V I T L T A Y E K D F I S E D F L D K C S D I C T R Y E
K I S S G P V F G T A Y N I S Q Y Y T T R D D S D Y K L Q F D S L F A V I N
L Q Q Q E S Y V F G T R V E I S I A T R P E T A Q Q A I R A A L Q E L D R L H
Y K T L Q G N V F G T T F H I K Y A R E T E R N T E E D T A Q L F E K I N
R V I A Y S A V L M G S P L L K L F A E D N Q T L A G Q V F R L T K Q Q E
L I T L N G P T M G T R W T L R L A P P G L D L G A L T D A C A A A M A R I E
Q P V R Q E S F V F G T R V E V V L G A S E P Q L R D A L G E V L R E F D R L H
M G T S W S A R I V D A P S G G A A L A D V L L A S V T
R V E V E D E A M G T T F A L T L Y G D R T A L N A A A A S A F E L H A R L D
K R E T L E L F A M D T Y M T F V A I G D G A D D V L T D L S R T V N T L E
E P Q E F V G Q A I G T T Y S I K L F A E D E V T L K S D V D S L F N D M F N
K T I K V S G V F G T T Y S V I Y L G Q E N H N Q Q F D S L F N V I N
F Y S M A W Q V K L R E L P S G V T A T A L Q A E L Q T E L D A I N
M G N S Y N I K W K E K K I S A N R I N T K V K A K L T E L N
T L G G R S M G T W S V K L V A P G R D L H P L H A V I Q A G A L D R V V
H L M G T I T I Q L Q V E H D T P E I L L D E A Q R A L S D F E
E P L V R S R L M M G T I L E I T A Y D R N G A E A I L T A A F A R M Q Q I E
Q T R L M M G N T F F E I A L A P N E E I G H E Q I A V G V E E V K R I E
Q L S G P T M G S S Y H I S Y A S G T P E P E A V Q A E I R R Q L D Q L E
E P L R W Q G Q A L G A Q V S L E L Y H P S D A A A E R L I A L S L A E V R R L E
V L G T S F D L K E V M A P S Y D A R Q A E T A A L A E I S R R L S
M G T A W S V K L V V P R T H L Q E L Q A R I Q A A L D R V V
R I S G N A L G T Y Q I I Y F D N L D E E V F T K D M D S L L Y A V N
H R T V N L M G S K F Y D I T V V A E N E E I G Y V I E E A I S E I R I D
K I E G F A Q G T T Y N L T F T D S N L P V E K I E T A I S E E L A R M D
L Y R E A F K A M G T P C E I Q L Y A K K V Q A Q R A A G L I A D V R R L E
R V I Q R L R G E S M G T P C E I L L Q H D M A L C R Q L T E L A T E A E R I E
M G T P C E I Q L F A P Q T K A N N A F L A V I A D A D V E R L E
R Y A M N G P T M G T R W S A L F H P S D F D V Q R A R K A M A D A T E V D
E L Q K L E G Y A Q G T T Y H I S W W A S D V S S D D I R P L F D Q Q L A N I D
Y K T I D R G F T Q G T T Y H I V Y S Y K G G D T L N S L V A E E L E R V D
T Q T R L Q M G T L V T L T V H T S R L Q A E E A L G R A F E E L D R L A
K R Y E A T F L T F D T V T T V V G Y A E S E E D F E A L H D A L L E Y H Q L Y
E R H S L D M M G T R C D L M I E A E N A K E L M K E A C Y L L E V Y K
Q F Y R H V F K A M G T P C E I Q L F A N G Q A A R R A E A A M A D V A R L E
Q V E R Q E S F V F G T R V E V V Y G D R A V A R E A L G E V L R E F D R L H
S K T S V A M G T V V T V K L F G D F G A K N D L D K I E T E L N G L E
H S I Q M M G T I D L I D S D T P K E H I S E V C R L T L Y K
K R Y L F S G A T M G T R Y S A Q C Y A Q D F D H L S L G A E L D L V V R V D
F Q G E A L G T T Y S V Q Y F S E E N I E F T R A M D S I V N L V N
E L H Q I R F T A M A S P C Q V L D H D W M S A A H I A Q A V Y A E C L R I E
E L M G T K I R L Y F K G E Q A E Q W V A E A C A L L R H Y E
Q Y R V T E R G H T H T Y Y R I T Y N Y D R T L D D E I R G E I R R F Y
T R F L M G T F V A I T A L H E S R D A K E A T A R A F G E I E R L S
E T Y E I K G Y T Q G T T Y S I K Y Y A S K A L I A E A E T E A I L A E L N
T Q Q L K L M G T V D I H I A S N K A P Q Q L Q T V I S L L H A Y N
Q E Q K K T V Y A M D T L M D L T A Y T D N S D V L N D A E S K K I N E I D
V I E L G G E T M G T T W R L R L A A P K E D R A A T A Q A I A A R L Y D I V
R L S T R A M M C E F S I V L N A S G D R K Q V L A S D G L E Q V H D G V E
F A G R S M G T S W S V R V A A P T V T V S H L L Q Q G L Q Q L D S V V
W H G T T L G A S S T I K L Y H K D E A A Q R A I D A A L A E L E R M E
L R G L S M G T S W S V R L L E S R A G S A D L Q Q G L Q Q L D L V V
F D T V T T L T Y S D D E E S F K K Q C D V L E E E L A R Y H
R L H S G A A L A F G T T I S L S V A H D D A D A R R A I A D G L M A A Q A V D
Q A V Q W N G Y T M G S E G S F T L Y G D D T S A Q R V I D A C Y K E M Q R L E
K Y S K S F L L F D T A S S V T A Y D S Q S E F D K Y E K L Y A K K L F
Q K H E W T F F A F D T L C S I R I M P S R S A A A P L L K D A W E T A H L V E
Q K Q V F A M D T V M T L T A Y G K N A K S G L D A A A G V I N S L N
Y T K I I Y L M G T K I L T Y I K G K D A E K L A E K A C D M L I H Y E
M G A R W S A L F F A P P E D P T P V R S A L Q T A V E A V D
Q L F T F H H E V L G T S L D L Q V Q A S D A Q Q A A A V E A I L D E I E R L R V
T F Q G Q A L H T L Y S V K I T G T P E N S A E L E H E I K D V L E R V N
E L S G E T Q G T T Y H I K L V D T S T S L E K I Q H E I L A T L A D I D
M G T S W S A R I V D A P P G S A A A M E T V L G R I T
Q V Y V Q G T Y V F G T R V Q L A L Y G P L D R A Q A T N A V F A H F Q A M Q
K L H T I S G L A Q G S T Y Q I K Y I S D R E E I K K S S V D S I F E V I D
T L N T T V M G T T A S I Q I V Y G R N G S D I I D D L M D L E N N L D
S R A F R A M G T V R I Q I A A E T Q Q D A D G L D D S E R L V R H Y E
E T Y S E R R F M M N T V I E L Q L Y E P V V K E T I E K T F A V F K R I D
Q V S S R R I R L M G T P L D I K L W H E P E P L L D Q V V E E L L Y F Y K
Y T R L S G E V F T T F S I Q Y D L P K D Y S L A V D S T F H A F S
K I Q T I R G E A Q G S T Y G I K Y I S N S D K N L Q Q S V D S I L E V I D
I E L K G N T M G T Y Y L L S L V D K N L S K K E I E I E I K N T L L K A N
Q M M G T I T L Q V G H E E P S R L L A E L K G E W L H V Y E
Q S F E H S F K A M G G P C K I H V I S P E K T A V A A L A A C E A E V R L E
E Y L T A S G A M L G T T F Q A T G D I T D C T A Q E L Y R A I M Q I D A E A K
L Q G E A Q G S T Y N I K Y I A N E E V V S K A Q I D S I L L A F D
R I Y T S T L F A M D T V M E L E I A G P S D Y T L Q A E Q M I R A L E
L H Q Q E A F V F G T R V E V L I A G P E A Q A R P A A A A V L R E F D R L H
E L G G E T M G T S W R V K I A A P G F D R A E V L A S I E T R L E A V L
R L D G E T M G T Y W S L S V V D P A I D D G V V R A L L L R G F D R I I
H W Y E A S L A V M H Q L T C K A Y G K P E A A V E A A F A E V Q R L E
Y L E K E D F L F N T K V Y Q K I E Y N N E I E A L K A D K V Y E I M N K F E
E V S R L S G Q A L G T G W R I T M P A G I E T P G L A Q R L G Q L F D G I D

UniRef90_A1B775 T A S G G A F D I G M G D A A R A W G F G S E P A N A E A M R A A M A T A R
UniRef90_F3A4R1 C A P N S F L N I A I G S P L V Q T W R I G F N D V K V P T K Q E I L D S L L E
UniRef90_G5I173 A R T N G Y F N V A M G S V L S I V W H E Y R D N P M T A E L P P M E K I L K E S A G K
UniRef90_D7DNH0 V K S N G L F N P A I L S H L I G V W G F G R Q R D N F S P V N I Q R D P T A L R A R A
UniRef90_B4RG98 R T S D G A F D P T I G D L V D L W G F G P A N G P A A T I P D P T A L R A R A
UniRef90_F0SPK3 R R T D G G A F D V T V G P L I T L W R F A M R W R K R A M P A A D D L Q N T A L E S
UniRef90_UPI00035CF7FA Q A S K G A F D P T I V M P L V S L W G F G K E M R I D R L Q S P A P A P A R S
UniRef90_UPI00047DE082 K L S E G A F D P T I G T V T D L W N F H A D T D K A V P D E E A M Q E A L S
UniRef90_S7VVS3 R A T E G A F D P T I G S V L V N A W G F G Q P E H A A P Q P P D S A T T L D S L M R
UniRef90_UPI0003B531CD R L S D G G L F N P A I G L L I R E W G F G Q Q E H A A P Q P P D S A T T L D S L M R
UniRef90_UPI00025591B4 L D T D G G Y F D P T I G K T A S V W G F G A K K I T Q E P P T Q N E I L D S L L Q
UniRef90_D6YQL8 L L P D S G L F N L A I G P L V K W K I G F Q G H S V P S E A D L Q A R M T
UniRef90_C8RQZ2 R D S D G V F D L G V G A L V R A W G F G P A Q G G R A D P A R I K A L I G Q R
UniRef90_UPI000372216C K Q G D Y L F D P A V I G K L V Q L W G F H T D N F V P H L P S P E A V E A L R L
UniRef90_A0A031JEM0 R L S G G A F D P A V G R L V D S W F G P G E G L L P R K T E S G A S A P A T R P
UniRef90_Q01TE4 R E S D G G A F D P T I V G P L M K I W G F Y K G E G L L P R K T E T T A L R
UniRef90_R6DUV1 Q E T D G G A F D I T V I A P L V E L W G I T S D S P R V P S Q A E I D A L L P
UniRef90_L7WAM6 R K T D G G Y F D P S I G N L V N A Y G F G A D E E N K F L T D S T I L D S L K K
UniRef90_A0A024FH87 R N S E G A F D P S I G N V N A W N F G A E E N K F L T D S T I L D S L M K
UniRef90_UPI0003B3DE9B A A T D G R Y D V T I G P L V N L W G F G A Q G R P E R V P D A A A I A A A R A
UniRef90_B0TIQ2 H V T H G A L D I T V D P L I S L W G F G A T D G R E Y N V P S H T Q I A S K T L K
UniRef90_B0RQJ8 R A S D G A F D P T V G P M V D L W G F G A G G P R K V P S A E Q I A L A R Q
UniRef90_R3W2D3 K V P G S F L N I A I G P L I Q A W R V G F S D A K Y P E P T T I Q S L L K
UniRef90_Q2LXT5 Q K T D G G A F D V T V N P L L E W G F G Y D G M G N F P E P A A Q A A L P K
UniRef90_UPI00041FB835 A L T Q G L F D L S Y G S L D K D F W F N R A M T Q F P H P D E A K K S V R L
UniRef90_E7RTJ0 A D S E G A Y D V T L L P V L D A W K F G P K A A A R E K A Q D A D T L A S L R A
UniRef90_Q21C78 Q L T G G A F D P T V G L W R L Y Q A H F A A A A R S P D P S E A E A Q A M A S
UniRef90_UPI000363F57C A Q T G G V I N A A A E A L N Q L W Q R A A A R S E T V P S E S D R T A D A V S
UniRef90_UPI0003B3E604 R A S A G A F D P T V G A M V D L W G F G A T G R R R Q V P T A T Q I A Q A R Q
UniRef90_A3UAE7 K E S S G Y F D P T V G N L V N A Y G F G S K K F T T V V D S T V I D S L T T
UniRef90_UPI00047AD9A1 K V T N G A F D I T S Q E G M N V V W D F N R D M D D E P V A D D L T L N L T
UniRef90_I3I8R2 R A S N G C Y D L T I K P L F D L W G F K N D V F T P S S E D A L L G V A L A
UniRef90_Q3JBS0 G Q S K G L F D I T S G I L R R A W D F K S G E L A S R V Q V Q E L L D
UniRef90_UPI000377BA24 Q L S A G L F D I L S G L L R R A W Q F D G S A N L A S Q Q Q L D T L L P
UniRef90_A0A024IFR3 D A S S G A F N P A A G A L V N L W G F G P A P P G F A P P D A A A V Q A A L A
UniRef90_V5BYM9 E Q S D G G L F D I T S G I L R H A W K F D K G G D A S E D R I K A A R L A R R
UniRef90_UPI00047268A4 Q A S G G A F D I T G L G D A V S A W G F G P A D A S E D R I K A A R L A R R
UniRef90_UPI0003941158 Q K T Q G C Y D P T I G P L F N L W G F R K H D F K V P D S Q Q I A A V K A
UniRef90_K1Z144 D L S G G N F D I T S A A P L F D V W F F G A K E K K D V T Q E H M V D S L L A
UniRef90_Q315K8 S L T D N A F N I T V K P V V D L F S S R Q N L A G S V Q L Q E D V S H A L S
UniRef90_G9YVT2 E G T G G Q V N A A L G G V L A L H W D A R E A G I S D P A S A A L P D A A A L
UniRef90_UPI000476A465 L Q S H P S N L N I A I G P L V R Q S W R I G F D D A R V P D D M T I Q A T V A
UniRef90_UPI00045E74F6 E Q S G G L F D I T S G I L R R A W F D S G A L P E Q G L I D A L L V
UniRef90_UPI0003722D94 A R G E Q L F N P A A G A L I A A W G F H A D E F V P H R P D P A F R E R W L A
UniRef90_R6DVD4 D D C G G V E F D I T I G N V T K L W F G G N D N Q R L P S P D D E I K T A L G A
UniRef90_H6P8R1 L A T P S N L N I A I G P L V Q S W R I G F D D A R V P S P D Q E I Q K A L A
UniRef90_G2IVP4 R E T G N A F N I G V G D V V G K W G F G P G S P G L V D H S K T T V V G S A L H
UniRef90_UPI000406E02C T Q S N G F F D P T V G V L V N A Y G F G P G K S I T D L Y A E R L D S L N Q
UniRef90_N8YX03 Q L S D K K F D I T S G V L G K I W R F D G S E Q V P L P L D Q I N Q L L P
UniRef90_UPI0003942DD9 L E P D S F L N I A I G P L I K L W R I G F K E A R V P S Q E E I N N V L C
UniRef90_R7CZ02 R R T D G M F D I T C A P L I N A W G F G F K N M G E V T P A M L D S L K T
UniRef90_UPI000368EE5D R R S G G A F D S T V L P L V E M K G H A D A D G R I N L S E K D M K D A L G
UniRef90_UPI00047B5DEF K A S N G A F D I T V F P L V E A W G F L G K P K Q S L P D S L T V K K I L K
UniRef90_K4Q929 L A A P S N L N I A I G P L V Q T W R I G F P D A N L P S P E L I S Q Q L A
UniRef90_R6P4P9 K K T S G A F D I T I A P V M D L W G F Y N Q N F Y V P T D D E I K N A L K
UniRef90_T0ITK7 E V S D G A F D P A V G V L V N A W G H G P V A V Q E P P T P A Q V E R A R Q
UniRef90_F0SR89 E Q T G G A F N P V A R A L N A L W R T C R K A G R L P E E T E L N A A L A G S
UniRef90_UPI00047D7FC4 R A S G G A C P C A G T L V N L W G F G P H G R F D H P D F I A P L D A I A
UniRef90_F8EUM5 K L T D G G L F D P T I Q P L W S V Y F N H F M Q E N A N P P S Q Q A I Q Q A M T
UniRef90_A0A031GVW9 Q A S G G A Y D P C A G A L V N L W G F G Y D E P G F L P K D D S V A L L L A
UniRef90_C7RDN8 E L T D G N L N I A M G S L L G L W H Q Y R E M S I D N P P E D E I L K K S E H
UniRef90_UPI00037A566F Q M S D G A F D V T V Q P L W R L F S E S A A R G G L P S V A E R R R A Q A I V
UniRef90_D5EK98 T T T E G L F D P T L Q N I W K A Y Q S H F E Q T P D A L T T P D L Q A A L E
UniRef90_R7BJ10 E R T K G L V N I A M G S V L S I W F Y R E E G K S L P S R T I L I D A S K H
UniRef90_UPI0003B62256 A L T D G G Q F D F T V G A L I K L W D F L A D N P E V P A K E K I A N L L Q
UniRef90_R5CW81 K Q S G G A L D I L S V Y P L Y L A W G E F D S E K G I T P S D K E L K N V R F
UniRef90_U2NK42 L C E N T Y L N I A I G P L I K L W R I G F D S E A H V P D K E S I K K V L E
UniRef90_L0NBW5 H E S G G L F D I G L G D A V G A W G F G P A A A D T H A I K A A M R A
UniRef90_B4DBG9 A K S R G A Y N G H L G E L I G A W K A A K A G A P P A A A T L I P I V R A L A
UniRef90_UPI00046352E8 N E S H E A M N V T V G E P L V N L W G F G P D K S K R I P S Q A Q I D Q T K Q
UniRef90_V5BZK8 E R S N G C Y D L T V K P L F D L W G F S R H Q N R V P T D Q E I D E L L P
UniRef90_UPI000401D109 R L S G G A F D P A V G R L V A K W G F G P D G L T G L S E G P
UniRef90_A3N9S2 L D T Q G L F E P G I G R L I R L W G F Q S D N Q F R V A P S P D A V R R E L A
UniRef90_F9YTN6 Q Q S E G L F D P T V G I L V N A W G F G K N N A K K P P T S S E I D S L L L
UniRef90_R5VNX4 E D N G D L L D I T I R P L A E V W G I E S G S T N V P S Q T D S D V D V T Q V
UniRef90_J0D4Z8 R I P S G N L N I A I G P V V K L W H I G F S D A A V P P S Q T D S G R A V R E R L S
UniRef90_UPI00037E32C9 D F M Q G A F D I T I G A V T D L W G I G H N G K F V P S K Q A L K K I L P
UniRef90_UPI000365B5F6 C A P D S H L N I T L G P L V Q T W R I G F S D A K V P D Q E T I V K K L A
UniRef90_U2K3T1 R Q T G G S Y D V T C S P F I N L W G F G F E K K N S V S H T I D S I R A
UniRef90_UPI00036E9DD9 K Q S D G M F D P T V G I L V N A W G F G A N K N Q N N L T Q I Q I D S L K N
UniRef90_UPI0003B49063 T K S N G Y F D I T L D P L I E L W G F G Y S K G K I R V P S K N K I R D T L T
UniRef90_J6PHL3 C A R N S Y P L N I A I G P V V Q K W H I G F E D A L V P T K A E I T E L L L
UniRef90_B7RXQ1 R E S A G L F D P T S G L L R Q A W D F R S G K I P D P E L V K S L L R
UniRef90_R7JHY3 R L S E G H Y D V T V K P L V N A W G F A G H E A E R T P N L D S L Q F V G Y
UniRef90_UPI0004793B58 K E T N G L F D P T I G V L V N A Y G F G P S H Q R K D L N Q T Q V D S L L N
UniRef90_UPI000463427B D R T E G A L D I S I Y P V L R A W G F T T G E Y R V P S D D E I E K L L A
UniRef90_A0A011QQN2 R L S D G L F D P G I G R L I G L W G F Q S D E L L P G S L P D E T A L A W R S
UniRef90_I9WKV7 E R S A G A F D P A I G V L V D L W G H G P V T L E R L P T L G E V A A R G
UniRef90_U3A654 A A S G G A F D P T L G E V S E Q W G F G A G P A P G W L P T P G K E A T
UniRef90_F0SF3 N L T S H G L F D V T I A P L M N L W D F T H A K S S P S P R A I E E V L M
UniRef90_L1QK37 K L T N G I F D I T I A P L V K E W A I N S Q Q P K F L T N K E I R V N K K L F
UniRef90_UPI0004641E2C E A S G G L F D P T V G P L V A R W G F G P N S Q Q P K F L T N K E I R V G E S

UniRef90_A1B775 R P A Q E A L E V D P L A G L A R K H A P L A L D L N G I A K G H G V D R L L A K
UniRef90_F3A4R1 I T D P N Q I T I N E E E Q S V Y L A K A K G M A L I N D L N G A V A K G Y T A D L M I E
UniRef90_G5I173 H M D P N D V I I D K E A T V Y L A D A D M S L L D D V L G A Y A K G Y A T E M V Y C
UniRef90_D7DNH0 A N P K M T D I V L L K G E A T A Y S N N P S V K L D D L G A Y A K G Y A L D V A A A
UniRef90_B4RG98 G W A D L R L K D A G R L F Q P G G V A L L D D L S G V A K G Y G V D L L A A A
UniRef90_F0SPK3 Q T G Y N K S V Q L N R K R V L T L A R A G S D M Q I L D L G A V A K G Y A A Q E A L K
UniRef90_UPI00035FC7FA I D F D P S V V L Q A N Q L S K N A K G V A L D D F S A I A K G Y G V D V V A D
UniRef90_UPI00047DE082 H V D Y N K V V L S E E S G K Y T V D K D A R L L D L G G I A K G Y T A D K L K N
UniRef90_S7VVS3 A V G Y N R M G L R D N K L Q A K S S K S F L D D F N A I A K G Y G V D V I G E
UniRef90_UPI0003B531CD P P P T T L A I E L N G N Q A H S R Q A H T A L L D D F G G M A K G W A L D R V A Q
UniRef90_UPI00025591B4 Y V G F D K V H V E N N V L L K E N K E I Y L L N F N A I V A K G Y G V D A V G V
UniRef90_D6YQL8 L I N P Q D V I L D A A T R V M L A R P G M E L D D L G A I A K G Y T A D V V Q
UniRef90_C8RZQ2 L A T A S A L E L D M A G G R A R K L A A V D L S G I A K G F A A D V L A G
UniRef90_UPI000372216C A H P S I A D L D I D G H R V S S R N K D V E L L D D F S G I A K G Y A L D R A R E
UniRef90_A0A031JEM0 N H P S P W T A I E V E H G Q A R R L Q A D V T L D D F S G I A K G F A V D A L A R
UniRef90_Q01TE4 L V G Y A H V Q L D A A S Q S V S F L Q S V E L L D D P G G I A K G Y A V D N M V A
UniRef90_R6DUV1 L V G Y E H V H Q S E F C S I S L D E G C S V L D D L G G I A K G Y A S D C A A V
UniRef90_L7WAM6 F V G F Y K M N I T P S K V K D S F Y I K M Y I E F N A I A K G T L V D Y M A R
UniRef90_A0A024FH87 F V G L N R I G L I G N K I K K P K E A Y I E F N A I A K G Y G V D V I T E
UniRef90_UPI0003B3DE9B R V G W Q H L Q L D A A M R E L T R Q R D L F V L D D L S S V G E G V A V D R L V A
UniRef90_B0TIQ2 F V G M D K L N V A D G A L T R T S T K V L L D N L S S I A K G F A V D A V T
UniRef90_B0RQJ8 R C G W R L Q L D A D R A L Q P G A L A L L D L S G I A K G F G V D C V Q R
UniRef90_R3W2D3 I T N P E K I V L D K S K Q T V F G E K G M A L L D L G G I A K G Y F A D K V I A
UniRef90_Q2LXT5 I D G N K L L V L P E K T R E I V L Q V K P G M S L D V G G I A K G Y A A E E A K R
UniRef90_UPI00041FB835 I D Y R N I L V L D A Q R C T V F L K N K G M R I G F G G I A K G Y A A D E C A K R
UniRef90_E7RTJ0 H T G M G H L K I I T G D R L C K D A P I T V E F N S I A A G Y T I D R L A E
UniRef90_Q21C78 R V G H D G L R V T P D R V V L L K P G A I T R L N G I A A G Y A T D K V V A
UniRef90_UPI000363F57C A V Q Q Q H G W L L D L E A Q T A S H L T D T P L R L H T F A K S Y I M D Q A A N
UniRef90_UPI0003B3E604 R C G W Q R L Q L Q D G Q L Q T Q P G G L V L D L S A I A K G F G V D C V R H
UniRef90_A3UAJ7 Y V G L D K V V L N K N R T I S K K H P E V Y L E F N S I A K G Y C L D R L S T
UniRef90_UPI00047AD9A1 K V G Y Q N I L N G K D L T V F K N K G I K I G F G A I A K G Y A V D M A K E
UniRef90_I3I8R2 S I G L D N L E T V N T T Q L R K Q L P N L R I D V S S I G Q G Y A V E R M V K
UniRef90_Q3JBS0 K I G W E K L R W A P V L E F P I A G M E L D D F G G I V K E Y A A D R A A S
UniRef90_UPI000377BA24 L G W Q K L K R E A N R L W L P A G M E L D L G G I A K E Y A V D K V A L Q
UniRef90_A0A024IFR3 G T D W R A L R F D A A T R E A T Q P G G L R L D D F S A I A K G H A V D R V A R
UniRef90_V5BYM9 K V G W H K V S W K R P V L A F S V P G M E L D D F G G V V K E Y A V D R A A S
UniRef90_UPI00047268A4 S P A H D V L E L D K A A G R A R K H S D M C F D D L N G I A K G Y G V D Q L T R
UniRef90_UPI0003941158 E V G L D K I Q V D E Q G K R I R K T P Q V Q I D D F S S M G E G Y T I G K L S A
UniRef90_K1Z144 F V G M D K V Q L E N G S V K K S D P R V T L N M N A I A Q G Y T S D V L A A
UniRef90_Q315K8 L V D A R G V W L G R D S I R L Q R E G M G V L T L D G I A K G Y I V D K A S S
UniRef90_G9YVT2 A E A A R H I I D E A A S T V Q I T D P A L R L D V G A I A K G Y A V E Q V C R
UniRef90_UPI000476A465 L T N P Q N I L L D E A Q Q S L F T E K G M K I D L G A L A K G Y T A D K L M T
UniRef90_UPI00045E74F6 K V G W D K V V W Q P V L E F P L P G I E L D D F G G V K E Y A A D R A A G
UniRef90_UPI0003722D94 A R P S M A D I P E G G A R L T S R N R A V Q F D D L G G Y A K G Y A L D R A A A
UniRef90_R6DVD4 S V G Y K N I V S I S G N A V Q I K K G Q S L D D L G A L V G K G F V C D K I K E
UniRef90_H6P8R1 L S K P E N I L D A T K Q S V I S Q K G M K I D D L G A L A K G Y I A D K I M D
UniRef90_G2IVP4 P V D E W L E V D V N G G R A R K R A S M T L D L C G I A K G F G T D E L G R
UniRef90_UPI000406E02C L V G L N K V K L R E N S T K V S K E H P E F I D D F N A I A K G Y T I D L V G D
UniRef90_N8YX03 H I G W D K V K W N Q S T K V I Y L P Q E M S L D D F G G I A K E Y A V D R C A E
UniRef90_UPI0003942DD9 L D P A N I V L D D A R H S V F F A Q E G L E I D L G A I A K G Y F S D K V M E
UniRef90_R7CZ02 F V G Y E K V R L E G N R V V K D D P R L L N T F S A V G D G C I C D R L A A
UniRef90_UPI000368EE5D L V D T E A V R I S D N G I R F D K Q G M G V L T L D G I A K G Y I V D R A S D
UniRef90_UPI00047B5DEF N V G Y Q L I L K K D S L I K S N P A V K I D V N G I A Q G Y S V D I L A D
UniRef90_K4Q929 L T N P Q N I R I N Q S N D N V I S T R S G M S L D D L G A L A K G Y T A D N I M A
UniRef90_R6P4P9 N V D Y S K V S I K D N Q V I S K P K E T Q V L D D L G G I A K G Y T S D T I I K
UniRef90_T0ITK7 R S G F R K L R F D L E R Q C L R Q P G G L H L D D L S G I A K G F A V D A V A A
UniRef90_F0SR89 R L A D V S C A A E H C K I S F A H P E G L E F D L G G M G K G Y A L D R V A
UniRef90_UPI00047D7FC4 S A R A Q L A A A R K D A R R A F A P G E G I E D D L S A V A K G Y G D R L A Y
UniRef90_F8EUM5 H I G W Q H I D I D N K G R V A F N R P N M A I T L N S I G Q G Y T T D R V S H
UniRef90_A0A031GVW9 Q G Q R R L E L D K L P A R R A R Q P G G L Q L D L S A I A K G Y G V D R L A R
UniRef90_C7RDN8 E N I D A I E I D K E N S T V Y I N D P D V D Q I D I G A I K G Y A T E K M A E
UniRef90_UPI00037A566F G W R Q L E I D D A I R F G R P D M A L T L N G L A Q G Y A A D Q A L A
UniRef90_D5EK98 R T G W H I V N F S K Q R I E F E K P D I Q L S D L N G I A Q G Y T T D R I T E
UniRef90_R7BJI0 T D I D D L I D T D K S T V Y F K D S K L K L D D V G A I A K G F V C N K I Y Q
UniRef90_UPI0003B62256 S V G Y Q H L S L L P E R R S V V I D C K I Q L D P G A S G K G F A L D K V S
UniRef90_R5CW81 S E T S I T E F S G E S N Y S V R M P A G T Q I S F G A A A K G Y C A S D R A I E
UniRef90_U2NK42 L L R P E N Q L D D E E K S V Y L R E G M E I D L G A I A K G Y F A D R A I M E
UniRef90_L0NBW5 R R R A T D E L L E L H E G R I R K L A P V R L D L N G I A K G Y G A D R L A K
UniRef90_B4DBG9 L P G W K L D R T A H T V Q R L T S G T L D D V S L G K G Y I S K A V S
UniRef90_UPI00046352E8 K V G L K Y L K L S E S S G Y S L Q K E I Y V D D L S C L G E G Y A T Q L S
UniRef90_V5BZK8 H I G M D L L E I D E V N R I I K K D P K I K I D L S S I A Q G Y S V G A V A H
UniRef90_UPI000401D109 H H P S P W T A I A I E G D R A R T A D V T L D D F S G I A K G F A V D A M A
UniRef90_A3N9S2 R G A R I A D L A I P D G V T S A N R A V A L D L G G F A K G W A L D D A A A
UniRef90_F9YTN6 R V G F Q K V T L L P N K Q I V K Q H S E I A F D F N A I A Q G Y T V D V L A D
UniRef90_R5VNX4 T C I S A K N S D G K A R V N I A R E G M S I D D F G A V A K G Y G C D V A A D
UniRef90_J0D4Z8 L T D P S D I L D D A R H T V F A H E G M E I D L G S L A K G Y I G D I V A D
UniRef90_UPI00037E32C9 L I N Y K M M E M G T Q S V F L P Y S G M K I D L G G I A K E Y A L H L A A E
UniRef90_UPI000365B5F6 L I N P Q D I E L F P D E Q M Y L K K E G M A L D L G A L A K G Y T A D K I M D
UniRef90_U2K3T1 F V G Y E K V T F D G L R M I K A D P R M K M D D F S S I A K G Y C S D L V A R
UniRef90_UPI00036E9DD9 F V G F N K V Q L T D E K F I E K E N P A T F F D F N A I A Q G Y T V D V I A D
UniRef90_UPI0003B49063 L V N Q N L E I N S N N Q L T K K N V R L N L S A I A K G Y G I D L I G K
UniRef90_J6PHL3 L T D P H Q L Q L D E K M K T V T K P G M M I D L G A L A K G Y I A D K L I T
UniRef90_B7RXQ1 K V G W K G L R W T K T S A F L L E A G M E L D D F G G C V K E Y A T D S A A G
UniRef90_R7JHY3 R R V H I R N D G R L V K D D P R V Q L D D F N S I A K G Y T V D V A A
UniRef90_UPI0004793B58 F V G F D K V K L N A N K T I S K L H R K E T Y F D F N A I A Q G Y S V D V V A D
UniRef90_UPI000463427B N V D Y R K I V V E K E G A G G T I P E G A M M D L G S V A K G Y T G T Y V A D
UniRef90_A0A011QQN2 A R P G I A D L R L A S E T Q V S S R Q R E L A L D D F G G Y L K G V A L D R A A G
UniRef90_I9WKV7 V S G Y R R L A F D S E T G R L R Q P G G L R L D L S G I A K G F A V D A L A D
UniRef90_U3A654 R Y R W A D L Q Q D E T G R H I L Q P G G L R L D L S G I A K G F A V D Y G M R
UniRef90_F0RSF3 H V D Y R K L E V S H A H R A G L R E S G M L D V G G L A K G Y A A D C A K Q
UniRef90_L1QK37 L V D Y E D V V L E S N L V M L L R E N Q Q I D L G G I A K G Y I A D K I I E
UniRef90_UPI0004641E2C Q P G G W R L S A A G A R L S K Q E N G M T L D L C G I A K G H A L D R M V S

UniRef90_A1B775 T L Q G F G I T A F L V G I D G G E M R A S G L R P D G M P W T V A V I E D P E R
UniRef90_F3A4R1 Y L K K R G G V D A G L I N V G G N V L T F G G K H N D D L M W R L I G I Q N N P V E
UniRef90_G5I173 K L R E E D Q L T K G A L I N S V G G G N I R A I G T K Q D D G S K K W K L G G I Q N P D D
UniRef90_D7DNH0 Y L R E Q H V K K G A L I N S V G G G N I R A I G T K Q D D G S K K W K L G G I Q N P D D
UniRef90_B4RG98 A L R G L G V V R D F L L E I G G G E I R G E G V K G D G D E P W W V V E I F E R P P P D G
UniRef90_F0SPK3 V L A K S E Y K I S N Y M V E I G G G E V A T L G K N K P V K S P Y T T G V I Q Q K P F F G
UniRef90_UPI00035FC7FA L Y T E S G A T S G T I N I G G G E V L L I G N K P V K S P Y T T G V I Q Q K P F F G
UniRef90_UPI00047DE082 L Y T E S G A T S G T I N I G G G E V L L I G N K P V K S P Y T T G V I Q Q K P F F G
UniRef90_S7VVS3 F L E S K N V T Q D Y A L I N I G G G E I R V R G N K L D K K S P W K V G G I D D D P N F Q
UniRef90_UPI0003B531CD I L R Q H Q V T Q D Y A L I N I G G G E I R V R G N K L D K K S P W K V G G I D D D P N F Q
UniRef90_UPI00025591B4 L L E G L G I Q D Y M V E I G G G E V R A R G T N D K G Q F W S I G I E E P N T Q
UniRef90_D6YQL8 A F L R Q Q Q V S S A L I N L G G G E V Q T V G A P P D E E A G W A I G L K K E P F F G
UniRef90_C8RZQ2 V A Q G F G L T D V L A G L D G E V V A R G H R P D D G R P W A V A G L Q Q H P R R G
UniRef90_UPI000372216C I L L R R G V K N A L I N I G G G E V M A L G D K N G G Q A W T V A V I Q Q H P R R G
UniRef90_A0A031JEM0 R L R D L G A R H F L V S E I G G G E L R G D G V K P D D G Q P W W V D R I E S R A P P D D
UniRef90_Q01TE4 V L K A H G V G T A L V S A G G S S I Y G L G P P E T P A G K W V R I Q D D P A D D
UniRef90_R6DUV1 L F H R S A L T G G C A N L G G G E V Y V Y G T N E A Q N K P W S V A I Q D D P A D D
UniRef90_L7WAM6 L L D D K G V N N Y L V E I G G G E V R V K G M N E K N S G K W S V A I Q D D P A D D
UniRef90_A0A024FH87 F L E T K A V N N Y L V E I G G G E V R V K G M N E K N S G K W S V A I Q D D P A D D
UniRef90_UPI0003B3DE9B V L E R R G V Q D Y L V G V A G T L R T R G L R P D D G Q S W Q L A V I D E Q P D D G
UniRef90_B0TIQ2 I L L E K N H I A S A L I D V G G E L R L N G R T N L N D K S A W N V G I V D K S A F F A
UniRef90_B0RQJ8 A L A Q A G I A S A L I D V G G E L R L N G R T N L N D K S A W N V G I V D K S A F F A
UniRef90_R3W2D3 Y F Q K M E A K S G F I D L G G G N V L T F G P T H E D G G K W R V G I Q N S A F F R G
UniRef90_Q2LXT5 V L K R N G I K N A M I N G S S I K V G D G Q E D G G S G W R V G I Q N S A F F R G
UniRef90_UPI00041FB835 K M M L A G V E N G I V S A S G G D L N A W G Y Q E D G S P W T V G I A N P N K
UniRef90_E7RTJ0 R F A N Q G I H D Y L I E V T G E I R A A G E K P G G G H P W L I A I E A P H D
UniRef90_Q21C78 L L R G A G L S T T L V D I M G G E I R A L G A R T D E G S T P W R V I A D A D D Q
UniRef90_UPI000363F57C R A L A V P G V A S V V V N I G G G E L V V R G N R T E S V A I A N P R A D A D A E N
UniRef90_UPI0003B3E604 A L R Q A D V T C A L I D V G G G E L F G Y G R K P D D G S G W R V L V E E S T P D
UniRef90_A3UAE7 Y L K E K D I S N F L I E L G G G E L V A S G S K A Q E N K L W V G I E E P G S
UniRef90_UPI00047AD9A1 L L V R K Q V I S G G A I N G G D F T T W G V K A N G E K W M I A I E A N P V G
UniRef90_I3I8R2 I L E Q F G V Q N Y L V E I G G G E L K I Q G K K T D G E A W R I A I E A N P V G
UniRef90_Q3JBS0 L S L Q A G V R R G L V N I G G G D L M R V G P R P R D D G S P W R I G I R E N H P K
UniRef90_UPI000377BA24 L Q F T D A A I P S V L V N F G G D L K V C S R P R D D G S L W R I G I E E P P K
UniRef90_A0A024IFR3 R L G E L G I A H T L V E V G G G E L L G Q G L R P D D G M P W W V D L E T P H A
UniRef90_V5BYM9 L C Y G L G I E R R G V I N L G G G D I K V I G P R P R D D G S P W Q V G I E E P P K
UniRef90_UPI00047268A4 A A R Q H G I E A G L F A L D G G E L R A L G T Q P D D G R G W T V A V E H M P E T
UniRef90_UPI0003941158 I L E S H G V S N Y L V E F G G G D M K I K G H K P D D G S K W R I A I E E R P I H
UniRef90_K1Z144 E F D K R G V V E N Y L I E V G G G E I F C K G L N A P K G K E W S V A I D K Q P Q G
UniRef90_U315K8 V L S A C G V R N H M I N A G G G E I R T S G E K A G G K P W V I A I Q Q D P D K
UniRef90_G9YVT2 A A P D G L L L S V G G G N V R A T G P K P G G E N W V V G I Q Q A P G G K
UniRef90_UPI000476A465 Y L K N K Q I S A M I N L G G G N V L V Y G P K R E D S G S E W V I G I Q H P K K
UniRef90_UPI00045E74F6 L C W S A G I R H G M I N L G G G D I N V L G A R A D S P W R I G I R H P H K
UniRef90_UPI0003722D94 L V R A R G L C C A L I N I G G G N V M A V G A K G S K P W R I A I Q H P R K
UniRef90_R6DVD4 L L D K G R T K S A V V S V G G S L L I Y G N R T F S V G I V N P N D
UniRef90_H6P8R1 Y L K S E K V T K S A M I N L G G G N V L V Y G P R N D K G T W R I G I Q N P O K
UniRef90_G2IVP4 V M D R H G I R S W L V G L D G G E M R A K G M K P L N S L W A I A I E R P D H
UniRef90_UPI000406E02C F L E S H G V S G Y L I E L G G G E L K A R A G V N S T S G K E W L V G I D E T H P Q
UniRef90_N8YX03 I I E Q L S Q Q A Y L V N F G G G D L R A R G P R K S G L A W R I G I E T P O N
UniRef90_UPI0003942DD9 F F K E K Q P V A A M V D I G G N L L V Y G E S P K N N L D W D V G I Q N P F R
UniRef90_R7CZ02 R L D S A N G V E D Y L V N I G G G E M T A K G R N A K G L P W H I A I E N R P V D
UniRef90_UPI000368EE5D V L A A N G V V E D H L V N A G G D I R A R G R A P I G K A W K I A I E E D P A G
UniRef90_UPI00047B5DEF F L E Q R G I K R Y I V N A I G G G E L R M K G K K P D G S Y P K I G I E A P N L
UniRef90_K4Q929 Y L I E D G V E F A L I N L G G G N V L V H G P N P D D K T F R I A I Q E P F G A
UniRef90_R6P4P9 L L K D E G V T S A I I S L G G G N V Q T L G T K P D D G N L W K V A I Q Q D P D
UniRef90_T0ITK7 L L R G R G C N H F L L E I G G G E L V G A G L R P D D G D P W W V D L E T P T T
UniRef90_F0SR89 F L E Q G E E V I E S F L I H G G H S S M L A R G T H Q D G G W P I A I E R N P F P
UniRef90_UPI00047D7FC4 Y L K S Q G I D E F V V E V G G D L R G A G V K P D D G Q P L W V A I E Q V E Q
UniRef90_F8EUM5 I L R Q H G F D S M L V D M G E P R A L N S R P D D G K P W H V G I A N P A D
UniRef90_A0A031GVW9 Y L D S Q G I H Y L V E V G G D L R G A G S K P D D G Q P W W V M L E D H A F
UniRef90_C7RDN8 K L K E A G F E R H A L L D T G E F V A R G R K S R R H P W I L G V R D P R D
UniRef90_UPI00037A566F A V Q A H G I R H A L L D T G E F V A R G R K S R R H P W I L G V R D P R D
UniRef90_D5EK98 M L R E E G F E S A L V E L G E T R A L G C H P E Q R P W S I G I K D P S R S
UniRef90_R7BJI0 F I T D N D L W Q S A V I S L G G G N I T V G N K P D N T N F I L G I E N P S S
UniRef90_UPI0003B62256 V R L R Q H H V Q H A V L D F G G N I F T I G G K W D G R P W I T A L R N P T D
UniRef90_R5CW81 A M R N A G V E S G I V S L G G G N V Q T L G L K P D D G S K W T V A V I Q N P N D
UniRef90_U2NK42 F F K E N G A V S A M V D M G G N V L V F G E S P S E G G D W K V A I Q N P F R
UniRef90_L0NBW5 T H Q A L G I C Q A L V G I D G E M R A I G T R P D D G E G W T I A V E D P D R
UniRef90_B4DBG9 A G R T K P G V I P G L L N V G G D I F A S G A S A P G M P W M I A N V A N P D N
UniRef90_UPI00046352E8 Y L L D H K G I T N Y L I S V G N A T F A R G V N A K N K P W K I A I R T P D
UniRef90_V5BZK8 R L E A L G I T N Y L V E I G G G E M M V K G R K A N G N N W R V A I Q A P T P
UniRef90_UPI000401D109 A A L R Q L G A A H F L V E I G G G E L Q G Q G V K P D L Q A P W W V D V E A P P G
UniRef90_A3N9S2 I L R R Q G I A N A L I D V G G G N L L A L G S K G L G A W R V G V Q Q D P R K
UniRef90_F9YTN6 F L K S K G I E N F L V E V G G G E I F L S G K N D D K K W T I G V D D P T N
UniRef90_R5VNX4 Y L E E T S V T G A C V A L I G G G E I M V Y G S K S D G S D W K I G V K D P R A
UniRef90_J0D4Z8 R L R E C G V S S A L L D F G G G N I T V G N K P E G R A W N I G I Q Q D P A G
UniRef90_UPI00037E32C9 V A F Q N G V T R G L I S A G G G D L C T I G E K P N D E T W C I G I Q H P R R
UniRef90_UPI000365B5F6 H L K R I G V T A G L I N L G G G E V L T M G K A T H N D D W R I G I Q H P K R
UniRef90_U2K3T1 M L L G K G A K N G L V E L G G G E I A Y Q G V N P Q G K P W V I G I D K P V E
UniRef90_UPI00036E9DD9 F L K S K G I T N F V V E V G G G E I Y L S G K N D D K K W T I G I E D P D K
UniRef90_UPI0003B49063 K L D Y L N A N N Y I N I D I G G G D I F A K G H N K N K N D W V V G I E N P N E
UniRef90_J6PHL3 H C R E R N A A F A L V N I G G G N I V V F G P R R S D G A W R I G L R N P K G
UniRef90_B7RXQ1 I L R N R G I D H A L V D L A G D M A S V G G R G D G E P W V I G I R H P N S
UniRef90_R7JHY3 L M E R C G A K N Y L V E I G G G E C R C G V S S K G I P W R I G I E T P F E
UniRef90_UPI0004793B58 F L K S K G I E N G I V E I G G G E L I G F G K N I D N K N W I G Q S P F E
UniRef90_UPI000463427B E L R K M G V E S A L L N L G G G N V Q C I G T K P N G D K W K V A V K S P F E
UniRef90_A0A011QQN2 I L R A Q G V S N A L L N I G G G N V M V L G S R D G Q R W R V G I Q E T P R Q
UniRef90_I9WKV7 L L R A R G C D H A L I E I G G G E L V G R G L R P D G D P W W V D L E T P A G
UniRef90_U3A654 Q L E Q A G T R H A L L E I G G G E L R G A G V Q A D G L P W W V D I D I P P G
UniRef90_F0SF3 V L K V W G I T A S Y I N I G G G N V M L L G A K P D E S A W K V G I R H P R A
UniRef90_L1QK37 F Y K N N V A S A V I N I G G G N I K V L G S K G E E N L W N V G I Y E P H S
UniRef90_UPI0004641E2C L M M S S G H D S F L I D I G G G E L A A R G R H P S G R V W Q V G I E D P R M

UniRef90_A1B775 R A P H S L L K L A D A A V A T S G D Y R H Y V T L R G R R L S H T M D P T T G
UniRef90_F3A4R1 P N H L F T I G I A K N Q S L V V T S G D Y E R N Y T E N G K T Y H H I L N P K T G
UniRef90_G5I173 T K F L A T M I A V L A D M S L V T S G D Y Q R Y F M L G G V Q Y S H H I L N P P D T G
UniRef90_D7DNH0 T S T A I L A T L A D L A D G A I V G T S G D Y Q R Y F M L G G V Q Y S H H I L N P P D T G
UniRef90_B4RG98 A D L A E P V A L H G L S V A T S G D W R R A F V S D G R R Y A H H I L D P P A T R G
UniRef90_F0SPK3 Q E E G E W L Q L K N A S V A T S G D A K R R F I E L D G V R Y S H H I L V D P P K T G
UniRef90_UPI00035CF7FA R N T J A L I R E P K Q G L A T S G G N Y R N S L V Y N G G V R Y S H H I L D P P D T G
UniRef90_UPI00047DE082 E A N E T L V T L S D S S L V T S G I Y D R F F E K D G E I Y H H I L D D S N T G
UniRef90_S7VVS3 E G E Q S Y I P L L Q D E A M A T S G T Y R K F I D D N G N R Y A H H I L D T P K T G
UniRef90_UPI0003B531CD G V A M A I L N L A D E A M G T S G D Y R Q R Y F V Y Q N R R Y A H H I L I L P K T G
UniRef90_UPI00025591B4 R S L Q K V T R L Q N E A I A T S G N Y R K F R V D P G K K I A H H I L N P K T G
UniRef90_D6YQL8 D A L T G V I G V T N N R S V V T S G I Y E R Y F E L D E V C Y H H I L D P P Q T G
UniRef90_C8RZQ2 R T V R G V I E L T D R A V A T S G D Y R H F V Q V G A G Y L A H S M N P R L G
UniRef90_UPI000372216C G G A M A T L A L Y D G A I G T S G D Y Q R F F D V A G Q R Y C H H I L D P R T A
UniRef90_A0A031JEM0 L A V P T R V A L C G L S L S T S G D Y E R F F L E G G R A L S H H I L P A S G
UniRef90_Q01TE4 P R T A A E V L K D M S L S T S G D Y E R K F F L A E G R T Y S H H I M N P R T G
UniRef90_R6DUV1 E G Y V C I L S L S D A F V V T S G G Y Q R Y F T P D G T V Y Q H H I L D P K T G
UniRef90_L7WAM6 R V Y V T V L E L K N R S A I A T S G N Y R K F K E E S G E F V H I L V N T P L T G
UniRef90_A0A024FH87 Q S V Y K A I L E L K D E A M A T S G T Y R K F I D K N G N R Y A H H I L I N P K T G
UniRef90_UPI0003B3DE9B R V A R R L N L P G G G A T S T S G S Y R N Y F E Q D G V R Y S H H I L D P R S G
UniRef90_B0TIQ2 Y S T I E I V K L K N R A I A T S G N Y R Y F E S N G K H Y A H H I L I N P K N G
UniRef90_B0RQJ8 E D A R V L A L D G L A V A T S G D R W H R F E A G G V R Y A H H I L D P R L G
UniRef90_R3W2D3 G N F A L V L A T E N V S L V T S G I Y E R S F E W N G R T Y H H I L F D S R T G
UniRef90_Q2LXT5 R L V G V I L H S G D A M G T S A D N K R F I R D S H R Y S H H I L D P R T G
UniRef90_UPI00041FB835 H T F F S T L N I T N K S I A T S G D N Y E K F I D N Q N R Y S H H I L D P R T G
UniRef90_E7RTJ0 R K A Q R L I R L K D E A I A T S G D Y R N Y R E E N G R R Y S H H I L D P R T G
UniRef90_Q21C78 V G A I T T I D L V D R A V A T S A G A G R F R D H E G R F T S H H I L D P A T G
UniRef90_UPI000363F57C E K P L A W L T L Q K N R A I A T S G N Y R G V L V D G V W Q S H H I L V D P R T G
UniRef90_UPI0003B3E604 E E D G A L P T R G A A I A T S G D R W H H F D V D G Q R Y A H H I L D P R T G
UniRef90_A3UAE7 R A I A K T V K L K D I A M A T S G N Y R K Y K I D S G Q K Y V H I L I N P L T G
UniRef90_UPI00047AD9A1 E K M F S W L P I L E S S V S T T E S Y C K D F V S L E N E R F S S I L D P R T G
UniRef90_I3I8R2 N E R K M H K I V S P M S L I S S G T Y R H F F D D N G K R Y S H H I L D A R S G
UniRef90_Q3JBS0 E A A M G M L L H K G A I A S S G D Y R R C I V L D G V R Y S H H I L N P Q T G
UniRef90_UPI000377BA24 D Q A L S A V G L S N G A L A T S G D S R R F L K D G V R Y S H H I L N P T T G
UniRef90_A0A024IFR3 R P R A T R V A L H G L S V A T S G D Y R R A Y L H G G W R L P H H I L D P R T G
UniRef90_V5BYM9 D A L L D T V Q L Y E G A L A S S G D Y E R C I M V D G V R Y S H H I L N P K T G
UniRef90_UPI00047268A4 R A A H S V L V L E D T A V A T S G D Y R H W I D V G G R R L S H H I L D P H L G
UniRef90_UPI0003941158 K K I V T I Q D E Q G V T L D T S G T Y R R S F D A D G Q S Y S H H I L D P R T G
UniRef90_K1Z144 E Q L Q D L N L S N R G L A T S G N Y R K F Y K E G D K V Y S H H I L D P K T G
UniRef90_Q315K8 R N Y P A T I A L R D G A I A T S G G Y E V F Y D R K R M Y S H H I L V S P A T G
UniRef90_G9YVT2 E S G L H T L Y V R D V S V V T S G D Y Q R Y Y T V G G V R Y H H I L D P T T C
UniRef90_UPI000476A465 K N N L Q T L R V K N K S V V T S G I Y E R H L K V I E G D K D Y H H I L D R P T G
UniRef90_UPI00045E74F6 D A L L G T V E L A R K G A M A S S G D Y E R C L T I E G V R Y G H I L N P R T G
UniRef90_UPI0003722D94 P E A L A T V E L H D G A T G T S G D Y Q R Y F E M D G G E R Y C H H I L D P R T A
UniRef90_R6DVD4 K Q S M G T L K L K D T C V S T S G N Y E K Y F E Q D G K R Y H H I L N A Q T G
UniRef90_H6P8R1 P R H I G I L T L K N Q S V V T S G I Y E R R L K V G N K E Y H H I L F D Q K T G
UniRef90_G2IVP4 R E A M A V I E L T D V A I A T S G D Y R H W K N H E G K R V C H H I L D P R T G
UniRef90_UPI000406E02C Q G Q Q A K V K L Q N V A M A T S G N Y R K Y R I T G Q R F V H I L V N P L T G
UniRef90_N8YX03 N Q A Q A Y F D L N T G A M A T S G D S K R Y L F K D G V R Y S H H I L N P T T G
UniRef90_UPI0003942DD9 G N C V A K V A I R N Q S V V T S G I Y E R T L K H D G N Q Y H H I L F D S H T G
UniRef90_R7CZ02 D S T Q L N T D I E Q V I G L A T S G D Y R N F Y L K D G K K Y A H H I L N P K T G
UniRef90_UPI000368EE5D K G G Y P S V I H R D A A V A T S G G Y E V Y Y D A N R T H H H V I N P R T A
UniRef90_UPI00047B5DEF Q E T Q K T I P K K G A I T S G S Y R K F V E T K G L K Q T H H I L D T K T G
UniRef90_K4Q929 R R H L G L I K V N N H S V V T S G I Y E R Q F T A K G K Q Y H H I L D R Q T G
UniRef90_R6P4P9 Q N Y V G G V K V S D K A V I T S G G Y Q R Y F V K D G V T Y E H H I L D P K T G
UniRef90_T0ITK7 A V A P L R L A L H Q L A V A T S G D Y Q R Y F V K D G V R G R H H I L D P R S G
UniRef90_F0SR89 Q K R L A T L V L E D C G F S A S G S G V Q F F R H Q G K R Y A H H I L D P R T G
UniRef90_UPI00047D7FC4 G Q Q G S N L A L H G L A V A T S G D Y R R R Y F E R D G K R Y A H H I L D P R S G
UniRef90_F8EUM5 P Q A T T E V N V R D K C Y A T S G G Y G T L F D D A G K F T H I L N P K T G
UniRef90_A0A031GVW9 H P A E M L V A L H G L S V A T S G D Y R R F F F E D G T V N R F S H H I L D P R S G
UniRef90_C7RDN8 N P Y S T V V N V K N T S V V T S G D Y Q R F F F T V D G K N Y H H I L D P A T R
UniRef90_UPI00037A566F A G A L A T L Y A Q G C S V A T S G D Y E C T F T P D Y R H H H I L F D P T A G
UniRef90_D5EK98 S E A I G R I V J A D N Q A L A T S G G Y G S T F S A D G T R H H I L H P R T G
UniRef90_R7BJI0 S E Y L D K V I A D D K S V V T S G S Y Q R Y Y T V G G K K Y C H H I L D K N T G
UniRef90_UPI0003B62256 P S V I G S V P L V D A G I A T S S W Y E H C F K K D G E V Y Y H H I L N P Y T G
UniRef90_R5CW81 G S Y V G T L K V G E T A V V T S G N Y Q R Y F I S D G V K Y H H I L D P S T G
UniRef90_U2NK42 G N A V A L V K I R N Q S V V T S G I Y E R V L E K N G S K Y H H I L F D S T G
UniRef90_L0NBW5 R A P H S L L A L Q D A A V A T S G D Y R H W V I E V Q G R R V S H H I L N P Q T G
UniRef90_B4DBG9 A P P L T Q L K L T D R A I V T S A A Y E R G Y T F F G G K H Y S H H I L D P R T G
UniRef90_UPI00046352E8 E D F D V Q I N L Q G F D V S T S G S Y L N Y F E K D G K R Y S H H I L D P A T G
UniRef90_V5BZK8 Q R V I D V R E Q V I G T A I M T A G T Y R N F F E E N G Q S Y S H H I L H P K T G
UniRef90_UPI000401D109 L A L P T R I A L C G L S V A T S G D Y R R F F R Q A E G V R L S H H I L D P A T G
UniRef90_A3N9S2 P G T L A T L E L R D G A I G T S G D Y E R F F Q A E G V R Y C H H I L D P R S G
UniRef90_F9YTN6 R T L I T T L Q F T N K G L A T S G N Y R K V W T D S G E K Y V H I L I N P K T G
UniRef90_R5VNX4 G E G S I M G V I S A K G V A T S G D Y E K Y F E K D G K R Y H H I L D P K T G
UniRef90_J0D4Z8 G N Y C R I V H V A D G S A V T S G I Y R K L T A G G R T Y H H I L S P V T G
UniRef90_UPI00037E32C9 K N T I K V F L H N W N T V E T S G D Y R R Y I K V N G N Y Y T H H I L F D S P T G
UniRef90_UPI000365B5F6 A R G T N A I T I K E E S V V T S G I Y E R T L E F E G Q K Y H H I L F D S E T G
UniRef90_U2K3T1 G Q V R I Q L P T A G G V A T S G N Y R N F K L V D G Q K V A H H I L D P R T G
UniRef90_UPI00036E9DD9 R E L I T T V Q F E N Q G L A T S G N Y R R T D S L T G E K F V H H I L N P K T G
UniRef90_UPI0003B49063 K L I K E T V N V S N K G V A T S G E Y E R N Y F S K D G S K Y S H H I L N P K N G
UniRef90_J6PHL3 E E S L A V V K L N N Q S L A T S G I Y E R Y L Q N G S S V Y H H I L D P K T G
UniRef90_B7RXQ1 P H A A A T L E L S G Q A L A S S G D Y E R A L E F E G N R Y G H H I L N P R T G
UniRef90_R7JHY3 R Y L T G R I R M S E G G L A T S G N Y R R F Y D A A G N K I S H H I L D P T T G
UniRef90_UPI0004793B58 G T L I A K V K I E N L G M A T S G N Y R K V V T I T G E K F V H H I L D P K T G
UniRef90_UPI000463427B D S T T G M V E A D D V A T I T S G G Y E R Y F E E N G V K Y W H H I L D P E T G
UniRef90_A0A011QQN2 P G P M A T V E L H D D G A V G T S G D Y Q R Y F E G E G R R Y A H H I L D P R S G
UniRef90_I9WKV7 K I A P L R V A L H Q Q L A V A T S G D Y R R R R S A E G R S W S H H I L D P V G A
UniRef90_U3A654 S T I H A R V A L T G W S I A T S G N Y R R R R S A E G R S W S H H I L D P V G A
UniRef90_F0RSF3 S S L V I G A I A E R D V S V T S G D Y E R F F D S E G T W Y H H I L N P K T G
UniRef90_L1QK37 K D V I C S I L V K D K S I V T S G G Y E R A F D M S E G M E Y H H I L N P K N G
UniRef90_UPI0004641E2C D D L A G V L L L D G M A V A T S G D R A N G Y D L G G R R Y S H I I D P A T S

UniRef90_A1B775 G P L R S P A S V T V V A R T C A E A D A W A T A L M V L G P Q A G G E L A S R
UniRef90_F3A4R1 Y P V E T E N A S G L S I I S T A S V D G E I W T T R L F G K N V E D G M D E I D S
UniRef90_G5I173 M P W F E Y D Q A S V T I L C P K D S G M A D A L S K P A V F N M K Q E D N G Q A L L E S
UniRef90_D7DNH0 Y P T Q H T I Q A S V T V L V P A G V G L S D V V S K P I F I E A P E N D K S K A A Q S A
UniRef90_B4RG98 A P L P D V A A A T V V H P R D C L H A D A L C T A L L V L G P S R A E A F A R E
UniRef90_F0SPK3 L G L T N G A S S V T V I A G D T G M I A D A L A S A L S V L P P E A G L M L L K R
UniRef90_UPI00035FC7FA S P V N G A S S V T V V H D T T A L A D G W A T A L T A M P Y E K A L K T A Q D
UniRef90_UPI00047DE082 M P V R N N I Y T T I V S S S A D G D A L S T A C Y C L G M E K G M K L I E S
UniRef90_S7VVS3 Y P S K T N I S V S V L A E D C M T A D A Y A T A F Q A M G V E K V K A F T E R
UniRef90_UPI0003B531CD Y S T C Q R Q S A T V L I H G D V G A D V A S K P I Y F S A P A Q V V D Y A Q R
UniRef90_UPI00025591B4 S P S E T D L V S V I T N G S C A E A D A Y A T G L M S M G Y E K A T S V V A K
UniRef90_D6YQL8 Y P D N E R L S V T V T S E R S L D G D I Y T T L L Y G L G V E K G I A C L L A D
UniRef90_C8RZQ2 G P A Q N R A S V S V L A E R N C M T A D A W A T V L L V L G E D A G P A L A R A
UniRef90_UPI000372216C A P V R H T Q A V T I Q A N A G M L S D V A S K P V F L A A D A W R A M A S R R
UniRef90_A0A031JEM0 M P V N D V A S V T V L H D S A R M M A D A W A T A L T V M G H E R G M A L A T R
UniRef90_Q01TE4 Y P A Q G T S S V S V V A P D G E V W A K P Y F V L G R A W T A A
UniRef90_R6DUV1 Y P V Q S D L T S V S F G G Q G T R A D A Y S T A L Y V M G E Q A A V D F W R A
UniRef90_L7WAM6 M A P S N V L G V N V I A K N C T L A D G F A T A F M A M P L E E K S R K L L K N S
UniRef90_A0A024FH87 Y T K T S I S V S V I A P D C T T A D G Y A T A F Q A M G I E R V T W F L N S
UniRef90_UPI0003B3DE9B R P V H H G V S V T V M G K A V A T A D A W A T A L N V L G P Q D G L V L A N R K
UniRef90_B0TIQ2 Q P V E Y K I V A T V T A E R C M T A D G F A T A F M V L P V K Q S L D I L A N K
UniRef90_B3R3W2D3 P V A Q A A A A V T V L A H D A M H A D A W A T A M T V L G V D A G L A Y A T N
UniRef90_Q2LXT5 Y P L Q T D L S S T I V S K E S L T G E I W T T R L F G M N A K E A L R Q T I N Q
UniRef90_UPI00041FB835 W P A P E K M T V T V V T R N A A T A D I L T K A L F L N D L N W S M R F L E Q
UniRef90_E7RTJ0 S P V K G V I S V S V I T T N A E L A D A M A T P V L S I M G V K D G L N F I N Q
UniRef90_Q21C78 R S P A R Y R S V S V L A P T A T E A D A L S T A F S L L P R P D K I E G I V G E
UniRef90_UPI000363F57C N P A Y E V I S A T V V H P D A S T A G A L A T A F N V L T P P A D S V Q L A A T
UniRef90_UPI0003B3E604 A P L D A P A A V T V L A E D A M H A D A W A T A M T V L G A E A G L A Y A R D
UniRef90_A3UA07 F P E N D M L S A S V F A Q T C A E A D A Y A T A F M T M G F K K S K Q L L D S
UniRef90_UPI00047AD9A1 Y P A V G V I S V S V F S K S A E L C D A L S T A V F V L G V E R G L V L I N Q
UniRef90_I3I8R2 K P V H N T V S V T I L H P D A T L G D A W S T A F S C L G S R E G L K V A N A
UniRef90_Q3JBS0 W P V R H L A S V T V L S D L C V A G S A S T I A M L K E A N D S A F L Q N A
UniRef90_UPI000377BA24 W P V T D P R S V T V A A P N C L L A G M L A T T A L L Q G R D A E A F L Q A
UniRef90_A0A024IFR3 Q P V H G L A S V S V L H A E C L W A D A W S T A L T V A G R E A G V A L A E A
UniRef90_V5BYM9 W P V R H L A S V S V V A A D F C V A G S A S T I A M L K E D R G L V E W L Q
UniRef90_UPI00047268A4 M P L H P P A S A T V I A C D C M S A D A W A T A M M V L G E E R G L A A E T
UniRef90_UPI0003941158 A S V H D L V S A S V F G Q T P A E S D A W A T A M L C L G P K A G Y Q V A Q
UniRef90_K1Z144 F P A Q N L S A S T I T A K D A M T A D A Y A T Y F M V V G L E K A K E I L A S S
UniRef90_Q315K8 S S P H S V L S A S V T A P T V M E A D T L A T A V Y V M Q A R S G L Q F M D S
UniRef90_G9YVT2 R P A A Y W R A V T V L C A D S G L A D A L S T A L F T L P Q A E S G Q A L L D R
UniRef90_UPI000476A465 Y P I E T M A S V T I V A D K S V D C E I W T T R L F G L P L L E S L A T I Q K S
UniRef90_UPI00045E74F6 W P V R H L A S V S V I A D F C V V A G S A S T I L A M L K E A E G P A W L E S
UniRef90_UPI0003722D94 E P V R H T Q S L T V L M P A A P D A D A D S K P L F I V G R E G W H A L A Q R K
UniRef90_R6DVD4 Y P A T E F K S V T V V C E S G L T S D A L S T V C Y I A G Y R K S V E L L K K
UniRef90_H6P8R1 Y P I D T M A S V T I L S E L S V D C E I W T T R L F G L P V M Q A L A T I Q A
UniRef90_G2IVP4 T P L N N I A S V T V L S R T C M D A D A Y A T A L M V L G E Q R G V A F A R D
UniRef90_UPI000406E02C F A E K S N L S A S V Y A E N C M F A D G Y A T A L M A M G L D R S L T M L K E
UniRef90_N8YX03 A S V D A P R S I T V Y A Q T C I Q A G M L A T L A M L E G A G A K Q F L A E
UniRef90_UPI0003942DD9 Y P V N N V A S L S I I A D Q S L D C D I Y T T K L F G L A P Q S L E T V N Q
UniRef90_R7CZ02 Y P A G G D I S A T I I A R D C I V A D A Y A T A C M A L G R E G A K A L Q A R
UniRef90_UPI000368EE5D H S P T Q S V S V S V T A P T V M Q A D A L S T S A F V M P P K D G V H F V D A
UniRef90_UPI00047B5DEF Y S I K K N I S V T V Y A K T A M L A D A Y D N V L M G M D V A E A L H F L K K
UniRef90_K4Q929 Y P L E D M L S L V M A P S S L D C E I W T A R L F G L D K A T V I S C L N S
UniRef90_R6P4P9 K P A T S G L S V T I V T D K G L E D G L S T A L F V M G L D K A T E Y W R E
UniRef90_T0ITK7 L P V A H A M A V S V V H R S A M L A D A W A T A L S V E Q P G A M R G L A V
UniRef90_F0SR89 W P V D H M L S V A V C A P T A A Q A D A L S T A F S V L S Q A E T E T Y C E K
UniRef90_UPI00047D7FC4 L P I N G L A S V T V V H A Q C A A A D A W S T A L T V L G R V D G E L A E R
UniRef90_F8EUM5 L T V P A M F G V S V I A P T A T I G D S L S T A M L L V P P A K R R D L L V A
UniRef90_A0A031GVW9 M P A N Q L A S V S V V H E Q C M A A D A W S T A L T V L G V E A G M A L A E E
UniRef90_C7RDN8 Y P S D K W K S V T V K A D S I A L A D T L S T A Y F F I V D H E T H G L K K A E E
UniRef90_UPI00037A566F D S P D E L A S V T V L A P N A L L A D G L S T A F M V M G W D R A S A L A A K
UniRef90_D5EK98 H S E T R Y R S V T V I A P T A T E A D A L S T G L I L A S E S K I Q Q V L Q T
UniRef90_R7BJ10 F P A F T S V T V I C N N S A L A D A Y S T A L F C M N L S D G L Q F A
UniRef90_UPI0003B62256 F P L P M E L K S M I I S P S A L Y S D I L S T A F F V L G L E K G M R L A E A
UniRef90_R5CW81 E P A N N G V S V T V V C A E D G T M A D C L S T A M F V L G V N G A L N Y W R N
UniRef90_U2NK42 Y P I K N V A S L T I I A D K S V D C D I Y T T K L F G L D A I S I I R R V N K
UniRef90_L0NBW5 A S L S S P A S V T V V A R T C A E A D A W A T A L M V A G P E A G P G L A M R Q
UniRef90_B4DBG9 L P A E G V A S A T V I A G N S A N A N A L A T L C V L G P E E G L E L V R Q
UniRef90_UPI00046352E8 K P I H N L A S A T V I A P T L E A N G W D I S M M V L G P E K A I L A L A K E
UniRef90_V5BZK8 R P V H H L R S V T V M H D D P V W A D A W D T A L L C V G E Q E A M R I A E A
UniRef90_UPI000401D109 A P I N D V A S V T V L H E S A M L A D A W A T A L T I M G H E R G M A L A T R
UniRef90_A3N9S2 F P A V Q S E A V T V L V A P G P H A D G A S K P P F I A G R A A M P L A R R
UniRef90_F9YTN6 L A K Q S N I S V T V V T S N A M L A D G Y A T M L M L M D F E R S K Q F L K E
UniRef90_R5VNX4 Y P A W K H I A A T V V C D N G L S D A L S T L C M L Q D R E A A M E A V N R
UniRef90_J0D4Z8 Y P V T D M A S I T V L A G R S V T C E L W T V L F G A S A S V I R I A D E
UniRef90_UPI00037E32C9 M S T T D L T S V S L I Y R R N G T A I P I T S G I M V L G L E K S L R L R T
UniRef90_UPI000365B5F6 Y P V T D V A S L T I V S K S I L D G E I W T T R L F G C S V L D I P N T V V A
UniRef90_U2K3T1 Y P I Q T D I S V T I L A P S C M L A D G L A T A C M T R R A E E V P A L V K H
UniRef90_UPI00036E9DD9 L A K Q S N L S A T V I T D S A M Y A D G Y A T M F M V L G T E A S K A F L I E N
UniRef90_UPI0003B49063 M P I H S T K S V T V V D K N A M S A D G W A T A L I A M G S K V G L K V A E E
UniRef90_J6PHL3 F P V N D V A S V T I L S D S S V D G E I W T T R L F G A S S L E V L K A L E E
UniRef90_B7RXQ1 W P V Q G F A A V S V S A P Q C L V A G S A T V A M L K P Q E E S L Q W L S R K
UniRef90_R7JHY3 R S V T S R L S A T V V A D N C A E A D A M A T M Y L S L G A N K G I A L S R K
UniRef90_UPI0004793B58 K P Q K G N V S A T V L A P T C M M A D G Y A T A F M V Y D I K Q G I E F V Q K
UniRef90_UPI000463427B K P A D S G L E V T V V G R D G L V C D G M S T A L F V K G L D E A T E V W R E
UniRef90_A0A011QQN2 R P A A G T Q A V T V R P A A G T L S D A A T K P L F I A G S D W P H F A R R
UniRef90_I9WKV7 L P V E H A A S V S V I H G S A M L A D A W A T A L S V I Q A P D E M Q A L A T
UniRef90_U3A654 V P S D Y M L S A T V L H Q G C M Q A D A L A T V I M V L G P D H G L A F A D A
UniRef90_F0RSF3 Y S A R S G L S V T V V C P R S L H A D A L S T T L F I A G L E K G A I K L L E R Q
UniRef90_L1QK37 Y P V K S D K S V T V S N D S L E G D A L S T P L F I A G L N K G I E F M R K
UniRef90_UPI0004641E2C E P V A G A A S V S V L M P V A R E A D G W A T A L M A A G E D G P V L A E S

UniRef90_A1B775
UniRef90_F3A4R1
UniRef90_G5II73
UniRef90_D7DNH0
UniRef90_B4RG98
UniRef90_F0SPK3
UniRef90_UPI00035FC7FA
UniRef90_UPI00047DE082
UniRef90_S7VVS3
UniRef90_UPI0003B531CD
UniRef90_UPI00025591B4
UniRef90_D6YQL8
UniRef90_C8RZQ2
UniRef90_UPI000372216C
UniRef90_A0A031JEM0
UniRef90_Q01TE4
UniRef90_R6DUV1
UniRef90_L7WAM6
UniRef90_A0A024FH87
UniRef90_UPI0003B3DE9B
UniRef90_B0TIQ2
UniRef90_B0RQJ8
UniRef90_R3W2D3
UniRef90_Q2LXT5
UniRef90_UPI00041FB835
UniRef90_E7RTJ0
UniRef90_Q21C78
UniRef90_UPI000363F57C
UniRef90_UPI0003B3E604
UniRef90_A3UAE7
UniRef90_UPI00047AD9A1
UniRef90_I3I8R2
UniRef90_Q3JB50
UniRef90_UPI000377BA24
UniRef90_A0A024IFR3
UniRef90_V5BYM9
UniRef90_UPI00047268A4
UniRef90_UPI0003941158
UniRef90_K1Z144
UniRef90_Q315K8
UniRef90_G9YVT2
UniRef90_UPI000476A465
UniRef90_UPI00045E74F6
UniRef90_UPI0003722D94
UniRef90_R6DVD4
UniRef90_H6P8R1
UniRef90_G2IVP4
UniRef90_UPI000406E02C
UniRef90_N8YX03
UniRef90_UPI0003942DD9
UniRef90_R7CZ02
UniRef90_UPI000368EE5D
UniRef90_UPI00047B5DEF
UniRef90_K4Q929
UniRef90_R6P4P9
UniRef90_T0ITK7
UniRef90_F0SR89
UniRef90_UPI00047D7FC4
UniRef90_F8EUM5
UniRef90_A0A031GVW9
UniRef90_C7RDN8
UniRef90_UPI00037A566F
UniRef90_D5EK98
UniRef90_R7BJI0
UniRef90_UPI0003B62256
UniRef90_R5CW81
UniRef90_U2NK42
UniRef90_L0NBW5
UniRef90_B4DBG9
UniRef90_UPI00046352E8
UniRef90_V5BZK8
UniRef90_UPI000401D109
UniRef90_A3N9S2
UniRef90_F9YTN6
UniRef90_R5VNX4
UniRef90_J0D4Z8
UniRef90_UPI00037E32C9
UniRef90_UPI000365B5F6
UniRef90_U2K3T1
UniRef90_UPI00036E9DD9
UniRef90_UPI0003B49063
UniRef90_J6PHL3
UniRef90_B7RXQ1
UniRef90_R7JHY3
UniRef90_UPI0004793B58
UniRef90_UPI000463427B
UniRef90_A0A011QQN2
UniRef90_I9WKV7
UniRef90_U3A654
UniRef90_F0RSF3
UniRef90_L1QK37
UniRef90_UPI0004641E2C

290 300
L G L H A L F L I R E A G
L P D I E G V V V T I E G K I Y Y T S G
L D G V I E A M W L Y P D G S E K Y S S G F Q A Y M E D
F G I G I E N Y M V I D D K S H I F V S P K M
H D V A A L T L R R A A G G E E V L T P A F E R L L
Y K A H A F L M L G T E Q G
N Q L A V L F I V
I P D T Y V L Y V T D K Y E I V T S D G F P
H S E L K V F I I F E N E A K E L E T
F G V A G V L L V E G N G E V
H P E L K V F F I Y L D N N E K T Y A S K G L
K P G I E A I F V T R D R Q I I C S S
R G L E A I F L V R D
M G V S H V L R V A G D G K I A V T E A L R A R L R
H G L A A R L I R R E G G G Q E Y M T P A L A A M L
H R P K D F K I F L C D D
Q D M S F D M V L I T R D G R V V Y T P G L
L P D L N V V I M Y T D E S G R F E T T P D F E K F V K K
H P E L K A Y F I Y E D E A K N L Q T
L N L A A L F I A R E Q G R F T H Y S D A A K P L L
H N I P V M L I E D K F G K L H Y S V P F N R L Q E K
A G L A V R F L R R G A D L Q E S M S P A F E T H L
L P E I E G I V I T N E G E I A Y S R G I G A M I Q K
E N L K A V L I D T Q G K I H T T P G F Q L L R Q
I K G I E C V L I D D A K L Y V S N N I K L I K
H K L A A L L V S R T P Q G Q T R T T P A F D A
R P G V Q A R M M D L D G R L
L P G T D Y L I V T R E G Q Q F T S P G W
A D L A V R F L L R R S G T L H M S P A F E
L Q S L D A Y L M Y L N T D N E V Y V T K G I E P F I
L D G A E A V I V D N N N V M K T G G I
Q N L A V L F I D Q E G D Q L I E T S D A L K
Q Q
H G I A A L F V Q R E P D G T E T L T S A M E R
D L G L P H L W V D V R G E
F G L P V L F I
R E N L E V F F I R A E Q G K F I Q Q S S A L E H S K R
N P E L E G Y L V Y G E N G R V F S T P G I E
L T G R E C L L L G R N G A A Y T S R N W
Y G A E A M W V D A S G G E V F S P G F S A Y L R
T P D I E G I V I T Q D N R I A V T D G L K Q
L V I L P H L W V D V N G E V
M G V A M A L R V D V D G S M D M T D A M K A
F P D A E A V F I F N N N A V R V T D G L
T P R I E G I L I T K D N R L A L T N G L R
R Q L D A L F V M R E G E G
L K S V E V Y L I Y S D E N G R T F V T P G F
Q S E G Q A W I I
I D G L E A V V I T V D G Q F A V T A N L R
H P E L E Y F F I Y A D S T G R T E Y S P G M E K Y L V K
Q P G S D C L I V G K S G A N V T T R R W S R L S R
H P E L E A F F I Y
L K H L E G L V V T K D Q K I W M S K G L R P Y F Q
N Q D F Q A V L I T T D G K I Y V T D G L K
R E N L A V R A L M R T G S G R E W I S P A L Q
H P E V A V I L M
Q G L A A R F V E R T D H G H V T Y H E Y L S T H L R
G G N K A I F V T P N G
Q G L A A R F V Q R D G H G
N K V E A Y W I D Q E G N E Y K T E G W E K I E D K
L P A V D L M S I D K Q G H E K R S S G F P
R P T L Q V
K D N D I E V I W M D N S G K I T K T S G
L K D I G L E Y V A V T K D D R I L S S P G
Y G G F D M V M I T D E N E V L C T S G L
I N N M G A V V I T V D G N L A H T D N L K
N R L Q A L F I M R Q P G G S
I Q D A D C L I V T A D G R Q L R S P R F A T Y E
K G L A I Y L I M K T E K G T T Y M S P Q F K Q F L
E N L K V L L I Y E K E K T E Y M S K A F
H G I A A C L I R R V D D R G Q E Y M T P A L A A M L
L G V Q A V L I V D A G R V W A T D A M A
N P T L D A M L I F N N T Q N E I F T T E G F K K Y Q T E
Y G A E A I L I D D Q M D V Y V S D G L R
L S G I S V I T V D R Y G T V K R
I P Q V I E A I F I M K N Q E I I T S G L K K Y
Q E G I E A I I T K E D Q L I Y T P G L
F P G V E Y M L I L G D K D G R T L M S P G F E R
H P E L N V L L I Y N N E N N E V F A T K G F Q
E K I A V M F L D Q V I E D K L L I K S S E F K F F K
Q P G L E G A V V T K E N Q F L Y T K G F E K
L G L P W V A I D P A G E V F
I P D A K V Y E I L D D K D G E I Y C S P A M Q
H K D L F V L L I Y I D E N N K V F K T E N F K S L V Q
S N D F E A V F V T K D R K V Y V T E G L
L Q V A H V L R V D G D G R W Q I S K A M Q
R E G L A V R A L T R K D D A R E W I S P A L
H G I P A R M V S A D G T V C S A A W R
L P G V G I F A I D E T M H G W I T E S P A F Q P
H N I S G I I V T E N D E L I V T R D L
L G I S A L F L F R D G E G R R V A T G A F H R H L

1 10 20 30 40
UniRef90_E6T6Z5 Y V G E F R A M A S P C E I L I A C D Q L D A D D M L D M A V T E A L R L E
UniRef90_R2NV09 H L M G T V I K L W V Q H P E A E S L L V N A E T R L R D F E
UniRef90_R7EWN2 Y H T K N I G M V W N T Y T Y H I T Y N G S P E E E L D D S I T A T L N A V G
UniRef90_R5SV55 H S K N I M K M D T Y T S I K L Y G S K N K K V D K I L N D V I E S I Y N K V D
UniRef90_UPI0002EB850C Q T T L R M M G T V I D L M I E H P K S A N L L N K L I Q K L T I Y E
UniRef90_G5K3D8 T D R I K L M G T V I D L Q L I S D K A D T Q Q L Q M A R E L L I T Y K
UniRef90_U2U7T6 Q R F Q S Q U F M V F D T V S V L T G Y D D E K S F Q E K A E A V H K E L R D Y C H
UniRef90_F4QN54 R K Y V L E G E A F A T A W K V I L L A D P G L S E R A F A R L E T K L D Q V D
UniRef90_B6WV85 Q Q T A L F M G T M V S I T V A C P S T Q A H D A M D L A F A E G R R L E
UniRef90_C2BI27 F D T I T N F I A Y T K D Q E E F D V L K D E L K I Y H R L E Y
UniRef90_UPI00016C48D8 R V S R R A M A T R F E V A I V G T H H D P V A A A E D A L D L I D E L E
UniRef90_K2E2B2 R Y A Q E E S I F G T R V R L L V V H S E R R E E E A I R L A F E E A H R I E
UniRef90_UPI000464B9F2 H T K I I Y L M G T K I S L Y V K G N N S E I L L N K A E D M L I H Y N
UniRef90_C7LHC3 Q P V I W Q G Q A L G A P A K I I F Y H P D R K A E R L V G E S A R E A E R L E
UniRef90_G5H5B3 G F A Q G G T Y C H I V L V G D S T S G G L K G Q L D S L L W R V D
UniRef90_D3RVJ1 H L V F K A M G S P E E L H L H G P D A A E R R V A E S V I A D V Q R L E
UniRef90_E4RZ06 H R K Q T V L M G S V F E V V I E E D S A K A Q E Y F K Q V I E E I D R L E
UniRef90_V71H1 K Y S N T F F A F D T V I T V I G Y T E T E E E D L R R Q Y G D Y H K L Y
UniRef90_V4NTU0 F V Y Q F G A M G S P C E I R M E T H D A S A L S L G E I A E A L R L E
UniRef90_U2J912 H L L S G R A Q G T T Y Q I K Y I G E E R V S K C Q I D S V L K V L D
UniRef90_B9Y6Y7 F D T V M T L T G Y T E T E D F N Q Y F A E M K Q L F L H Y N
UniRef90_B8CP11 T L K Y F G T S I S I N I Y G E N S S E K I M C N A V I Q K Y H Y L A
UniRef90_I8EYG6
UniRef90_X1JCK0
UniRef90_UPI00047165AE R R T K L C M D T V V D I Q I V V R D E E E M D Q A E R A F E A F R K I E
UniRef90_F5ZH26 R M M G T I I D I E I N S Q N A D Q Q M V T V C Q L L E T Y K
UniRef90_Q1LDJ5 H A S R R L L G T R V D L V T D G P A D A A A Q A I D A A F A E M G R L E
UniRef90_A4VWK9 Q A S S R S L R L M G T I I E T K I W H P D A E P I L D Q V E E L L Y L Y K
UniRef90_W4C549 K P F T R T L P L M G T N I S L Y I E G T D A E E L A E E A V N M L V H Y E
UniRef90_UPI00030343D9 K Y T E S F F T F N T M T T V V A Y T K E E E F K T Y M W K I H S E F E R L H
UniRef90_UPI000475C017 E L Q S A A A L G F G T T L R I V V V H P D R Q A A R I M A Q A F E Q A H L V D
UniRef90_R5XW35 T A T D T G F D T I V S F V A Y T K E A Q F E E Y S S F L K K A F K R Y D
UniRef90_R7G6I2 R A S G A T M G T R Y G V Q A Y A P P A D A K A I A A E L D A A V R A V D
UniRef90_W6B752
UniRef90_UPI00046F93C1 Y Y T Y S G R L H T P Y H I K Y Q Y D K P L D N E I K A E L D R F Y
UniRef90_R7J5K0 T H E I K A M G T I I S L S I E H Q S A G L F K K A E A K I K E W E
UniRef90_K9AVB3 F V L K G F V F G T T Y K I T Y L N A D K N Y K K S L D S L F L L V N
UniRef90_UPI00047AAF61 T D Q I K M M G T I Y D R I T I D S P K A K Q Q A A T I R E L L T L Y N
UniRef90_B4U321 H F N G I K M T V P Y R I T I G S P L S R Q E V Q N I I E Q T F D E I N
UniRef90_D6YJW0 P Y Q Y A D L A M G T I V R L S L E A P D R H A D A A A D K A F E L I R I M Q
UniRef90_F3Z119 V Q V V G Y T E T E E E F K A I K S R F E Q L H K L Y
UniRef90_A8MEV7 L A G Q A L G T F W Q V R F V S R K V G P D D V R T A I G R R L D K A I V
UniRef90_F1Z983 E P E K R I F Y A L G T L V E L R S E N G M Q D A V K A A A D T V N T L E
UniRef90_UPI0003B5E7D5 E K Y E L T F Y T F D T V I S A V I Y S D N E K K A N Y L A K R F R E L N A L F
UniRef90_D1VVA0 K Y K F K F E S Y G N F D T I T Y A E K E K D F K E A S A L F R N H M K L N
UniRef90_U2JDH6 E W H K P A G I V W N T E Y H I T Y L G T T D L S D S I N A T F R R V E
UniRef90_R7HMR9 L Q S F G G P T M G N H Y S V V Y A H E Q P D G Q A L H H E V A R D V I L A E V D
UniRef90_UPI000464F5F0 E D L R G V F E A R D V R C R F F E
UniRef90_K0Z6T0 F Y Y F D T Y L T F K I W D D K S V P E D V W S D I E S I T I D I E
UniRef90_F7PWN5 Q R I S G P A Q G S S F T V S F W T E Q I D K S A L E K Q L K K E L D R I D
UniRef90_F7NWX3 V H A D E K L A R R A I N A A L D A A Q Q V D
UniRef90_UPI000364CD0C
UniRef90_B6GE87 E M M G T V I T L S L D T S D S P R L L D Q A Q K M L E D F Q
UniRef90_R2SZ47 Y R T V E G S V W H T T Y R I L T Y R A D R P L D D S I A A L M R V E
UniRef90_UPI000364CD0C I K Q S F K A L G T K I N L T I F D D V S D Y I L V I E T R A A L M R V E
UniRef90_B1MYJ7 M G T V I T I W V Q H E T P E V I L E E A A Q R A A A F E
UniRef90_C9A8Z4 I Q G K T M G T F Y A V N V V G G Y K G G E A L K D L A E A G F K Q C
UniRef90_UPI000255B706 N G G A L G T T Y A I T Y L S Q E E I D L S K E I D S V F M V I N
UniRef90_D7N5J2 E K Y D I Q F A F D T V T S M I L Y E E S E K A N E I K D K F E Y H R I F
UniRef90_R6ST82 R Y I V I Q G Y A G G T Y S V K L Y N M N G T E P A E I K T A I D S I L N D I D
UniRef90_UPI00047CB22B T W R G V A L G A D A E L R L Y H P S P A A Q R L L H Q A L A E I H R L E
UniRef90_A4XHG7
UniRef90_Q2C4V5 K L E K I A G Y A E G T S Y H V S Y W S D D V S S T K V Q A Q F D K A L D A I D
UniRef90_B2GC05 R T V H L M G T V I T L V I N G G P N A G T L A D Q V V E Q L R A A E
UniRef90_R5HIK2 T K N L F Y M D T L I N I K L Y S N D T K K N E A I E Y I E N L Y K K Y D
UniRef90_R5J113 E S I R T D G T A M G T A I N I S V V T Y G G S S V H D E I Y R K L D E L E
UniRef90_F3HQJ4 S F G G P T M G S H Y S V V Y V A A Q P D A A A L R P E V E A I L A E V D
UniRef90_L1NXQ8 K Y Q E F E G I A G T V Y R V K Y I S T D T T S L K S S V D S I V R V I D
UniRef90_H8FRQ7 R L I R W E G T T L G A P S T I Q L Y H D E T K A R A I A A G L D E L A R L E
UniRef90_G2J081 V F G T Q V Q L V L A E V S A D Q A R V T N A V F G L F D Q M H
UniRef90_F1W3I3 L H S V S G L A F G T I S I V V H A D R P Q A E L A I A G A L A A A R Q V D
UniRef90_UPI0003B5F850 R P H R L E A F L G T F V N I V D A S R D K A E T A I E A Y A E I R L S
UniRef90_S0K3E7 Q L M G T I I E L Y V A H P E Y E Q L L H S A E A S L R D Y A
UniRef90_AA0A11NLZ3 L H H Q E A F V F G T R V E V L I A G D E A A A R P A A A V L R E F D R L H
UniRef90_I2EX31 R Y E F S H P Q M G T M F R V V V A G D S I Q A K T A V K K A F I R L D E L N
UniRef90_UPI0003B30E6F Q F Q A M A S P C E V L I D S D E A L A R R I A D T V A A E A W R I E
UniRef90_G5KFT6 Q S I F L M G T R I D I Q L E S K Q A D Q L I Q E V I E L L H L Y N
UniRef90_F3Z442 S E N R F L L G T F V A I T A V H E R Q A E N A I G L A F A E I E R L S
UniRef90_UPI000364BD86 H V T G T A F A S D W S V T L A D S T D A A G L K Q R F D R I L A G I D
UniRef90_F2ZDV7 S F G G P T M G S H Y S V V Y A A G Q P E A A A L R P E V E A I L D E V D
UniRef90_F8IK71 Q S T A F R A M G T D V E L F V D D T G P E L S S L A C Q L E A S I R R Y E
UniRef90_J4TW65 E D T H L V L G T V A R I Q A R G T E K A R M A V E A Y D I L S D
UniRef90_G8TG01 Y L S Q Y E N V L G T S M E L K V S T T Q V R A T E A E K T A M A E I K K L S
UniRef90_G2IVG0 E P F R Q E S Y V F G T R V E V T V L G P E A R A Q A E A V A M A E L D R L H
UniRef90_F8X0B6 Q T R F L F H S H I K I K L S A F Y E E S I F D E L F A V L E H V D
UniRef90_UPI00014C958F E I V S I L G R T M G T T Y S V K Y T T G I K N N D D L K E K L E I L R N V N
UniRef90_D6Z598 Q V V R R R G Q V L M G T P V D L V V Y S D R D Q A Q A V A A T L A R M G L E
UniRef90_H3NCA6 T D S V R M M G T T I H L M A E G W Q A G R I E R M K E L L E Q Y N
UniRef90_W0TQ29 V H N S R F L A F G T L T D V S L V G P R N K A I A V E S L E Q D F T M N
UniRef90_UPI0004115826 Q I I I I Q G E A Q G S T Y A V K Y I L S S E L V S K K A I D S L L L A F D
UniRef90_UPI00037729BE K M M G T L I D I Q I D S S R A N Q Q L A T V C Q L F E E Y N

	90	100	110	120
UniRef90_E6T6Z5	Q	L	S	D
UniRef90_R2NV09	L	V	K	D
UniRef90_R7EWN2	N	A	T	D
UniRef90_R5SV55	T	K	T	N
UniRef90_UPI0002EB850C	I	C	E	N
UniRef90_G5K3D8	L	A	Q	P
UniRef90_U2U7T6	R	L	T	G
UniRef90_F4QN54	R	L	T	G
UniRef90_B6WV85	H	L	T	G
UniRef90_C2BI27	K	L	T	G
UniRef90_UPI00016C48D8	K	E	T	G
UniRef90_K2E2B2	V	L	S	G
UniRef90_UPI000464B9F2	L	C	E	G
UniRef90_C7LHC3	Q	L	S	D
UniRef90_G5H5B3	R	E	S	D
UniRef90_D3RVJ1	R	E	S	D
UniRef90_E4RZ06	K	W	S	D
UniRef90_V71H1H	D	K	T	G
UniRef90_V4NTU0	T	L	S	A
UniRef90_U2J912	K	D	T	R
UniRef90_B9Y6Y7	D	L	S	D
UniRef90_B8CP11	K	K	S	D
UniRef90_I8EYG6	A	K	S	G
UniRef90_X1JCK0	A	W	T	E
UniRef90_UPI00047165AE	F	G	D	S
UniRef90_F5ZH26	A	R	S	Q
UniRef90_Q1LDJ5	L	A	E	R
UniRef90_A4VWK9	L	A	E	R
UniRef90_W4C549	L	K	K	D
UniRef90_UPI00030343D9	N	R	T	K
UniRef90_UPI000475C017	V	M	S	K
UniRef90_R5XW35	E	I	T	G
UniRef90_R7G6I2	T	L	S	N
UniRef90_W6B752	R	E	T	G
UniRef90_UPI00046F93C1	Q	L	S	D
UniRef90_R7J5K0	A	Y	T	N
UniRef90_K9AVB3	L	S	S	N
UniRef90_UPI00047AAF61	K	E	T	D
UniRef90_B4U321	L	A	Q	P
UniRef90_D6YWMO	N	Q	T	E
UniRef90_F3Z119	R	L	T	S
UniRef90_A8MEV7	S	K	T	N
UniRef90_F1Z983	G	R	S	E
UniRef90_UPI0003B5E7D5	K	L	S	G
UniRef90_D1VVA0	I	K	L	S
UniRef90_U2JDH6	D	K	T	G
UniRef90_R7HMR9	S	D	S	H
UniRef90_UPI000464F5F0	R	E	S	D
UniRef90_K0Z6T0	E	E	S	G
UniRef90_F7PWN5	K	M	T	D
UniRef90_F7NWX3	A	H	S	E
UniRef90_UPI000364CD0C	L	L	T	D
UniRef90_B6GE87	A	A	S	R
UniRef90_R2SZ47	I	S	S	H
UniRef90_R5AJ26	A	L	S	R
UniRef90_B1MYJ7	Q	L	G	L
UniRef90_C9A8Z4	V	P	K	D
UniRef90_R5EDU2	R	R	I	E
UniRef90_UPI000255B706	E	A	T	D
UniRef90_D7N5J2	K	D	V	S
UniRef90_R6ST82	D	E	T	G
UniRef90_UPI00047CB22B	R	L	T	G
UniRef90_A4XHG7	K	L	T	D
UniRef90_Q2C4V5	E	E	S	H
UniRef90_B2GC05	K	Y	P	G
UniRef90_R5HIK2	S	K	S	N
UniRef90_R5J113	D	D	S	N
UniRef90_F3HQJ4	R	D	S	D
UniRef90_L1NXQ8	K	E	S	G
UniRef90_H8FRQ7	K	I	S	D
UniRef90_G2J081	M	A	S	G
UniRef90_F1W3I3	R	I	T	S
UniRef90_UPI0003B5F850	R	L	T	G
UniRef90_S0K3E7	Q	K	Q	D
UniRef90_A0A011NLZ3	R	L	G	E
UniRef90_I2EX31	K	Y	S	D
UniRef90_UPI0003B30E6F	Q	L	S	D
UniRef90_G5KFT6	L	D	D	P
UniRef90_F3Z442	R	L	S	G
UniRef90_UPI000364BD86	A	A	S	D
UniRef90_F2ZDV7	R	D	S	D
UniRef90_F8IK71	E	Q	T	R
UniRef90_J4TW65	R	R	S	D
UniRef90_G8TG01	N	R	T	G
UniRef90_G2IVG0	A	L	S	D
UniRef90_F8X0B6	D	F	F	N
UniRef90_UPI00014C958F	K	M	S	G
UniRef90_D6Z598	A	K	S	D
UniRef90_H3NCA6	L	P	E	D
UniRef90_W0TQ29	K	Q	S	D
UniRef90_UPI0004115826	K	E	T	D
UniRef90_UPI00037729BE	L	A	V	P

UniRef90_E6T6Z5 Q D
UniRef90_R2NV09 L N K L E A E G I V I T T D Q Q M A I S D G L K
UniRef90_R7EWN2 Q K L A V L L V T A K G V E I S S S S M S K Y L D Q
UniRef90_R5SV55 K D N L E A V F Y V N E D N I I T S K G F S S Y E
UniRef90_UPI0002EB850C L E G I S G I I V T T N H T I Y Y S K E L E
UniRef90_G5K3D8 L D G L E G I I I T K D K Q V L F S R G L E
UniRef90_U2U7T6 I E G D A L E A M W V E N D G E K P M T Q G F S K Y L
UniRef90_F4QN54 R Q N I A C L L R V R D G D S R E V L S P A L E A W L
UniRef90_B6WV85 L S G C A C G L L R R D G R L Q V S R R W P A
UniRef90_C2BI27 V G A E V L W I D E N Y K S Y K T E G W P
UniRef90_UPI00016C48D8 R P A L G A V V L
UniRef90_K2E2B2 F P L E A M W V S P K G E I R K T P G F
UniRef90_UPI000464B9F2 R K D M G A I V I T K D G H L A C T D N L
UniRef90_C7LHC3 L P G I F A Y T V S R D G E K R
UniRef90_G5H5B3 R P D L E A Y L V W S D D R G R T Y M T P G M E
UniRef90_D3RVJ1 L D I P H L W I D A E G
UniRef90_E4RZ06 Y P E Y Q A I F V
UniRef90_V71H1 I P D T Y A Y W V T M E G E V V I S D G L E K M L K
UniRef90_V4NTU0 S E G V K A W V L F
UniRef90_U2J912 R K D V E V Y L V C S E G N F K E L Q S S G F N N Y I
UniRef90_B9Y6Y7 F R Q I E V M W V V M S G E Y A V V M T D S M K D Y L
UniRef90_B8CP11 N P G I E A V W Y L T E D G I K M E S N G F D R Y
UniRef90_I8EYG6 L L G I P V L M I T K T D D G F E E Y S D A F K P Y L Q
UniRef90_X1JCK0 L E G F E G S T V L E D K N I L T T K G F P
UniRef90_UPI00047165AE A E L Q G I W I T P D L Q I
UniRef90_F5ZH26 L S G V I E G I I V T T H G T L A K T D G L K
UniRef90_Q1LDJ5 M A N V D A L I V G P G S H P W M S E G M
UniRef90_A4VWK9 T D G I E A V L I G L D G R I L V T S G L
UniRef90_W4C549 M K D I E A A V I T T D G N L A Y T D N L R
UniRef90_UPI00030343D9 L E G V I E A M W V M P D G T I Q V T D G M K K I M K
UniRef90_UPI000475C017 L P D V D V M T I N K R G I V W K S P G F P R
UniRef90_R5XW35 Q S S V E A V C L D K N G T L Y Y S A G Y K D L V K K
UniRef90_R7G6I2 L K G I Q A D A L W V Y D
UniRef90_W6B752 L G L D A L F V V R D G D
UniRef90_UPI00046F93C1 Q Q
UniRef90_R7J5K0 L P E I E Y F L I C S G D G Y N I M E S S G F S K Y L
UniRef90_K9AVB3 V E G I E G V I I K R N N E I K C S S R I R Q
UniRef90_UPI00047AAF61 N N E L K V I L I Y L N K N G D L E
UniRef90_B4U321 L P E V E G I I I T K D G Q V T I S D G L K
UniRef90_D6YWM0 L K D
UniRef90_F3Z119 E L G A A A L W V Y D D L T L J A S P G F P
UniRef90_A8MEV7 I E G V I E A L W I M K D G S I E A T D G M K A I M K
UniRef90_F1Z983 R K G I A R F V
UniRef90_UPI0003B5E7D5 L D T P V M L Y K H D R T A I K L C G W G R F E
UniRef90_D1VVA0 F T D S K I I W I D N Q M N I K Y T P G A E K Y I V K
UniRef90_U2JDH6 F D V E I V F W I G L D G K M S M T E G V K T M I Q K
UniRef90_R7HMR9 H P E L A A M L I T S A N G K F L W H T P N Y E A
UniRef90_UPI000464F5F0 H Q I A A F F V I R A D K R F I R T N A
UniRef90_K0Z6T0 H E A I L A A Y L V D D E G R M F V V T R G
UniRef90_F7PWN5 L D D V E A A F V T Y D N E V Y V S S G M
UniRef90_F7NWX3 L K L P V L F I D Q Q G
UniRef90_UPI000364CD0C L P G L D L L A I D K A G R A W R S A G F P P
UniRef90_B6GE87 L E G V I E A V L I G E D D E V R W T S G I
UniRef90_R2SZ47 M P Q I E G I V I S R T N E L F V S E K L K P H
UniRef90_R5AJ26 L R G V G A M L V V G G E K L T I L R S K N F P Q
UniRef90_B1MYJ7 L P N I E A I F I T K Q N E V V L T S G L
UniRef90_C9A8Z4 L E G L T G L V I T K Q G E L I Y
UniRef90_R5EDU2 H G Y A I A T I E Y D K G K P L F Y T D N F K Q Y L
UniRef90_UPI000255B706 S E L D A Y I I Y L D E N G Q E F M T A G F E K
UniRef90_D7N5J2 F D V D A V W K F K D G T I K A T K G A E K
UniRef90_R6ST82 N P D I A G Y L I Y S D D K G N M W A S D N F
UniRef90_UPI00047CB22B L G L T A W F V L A D G S V Q I
UniRef90_A4XHG7 F K T I D A I V I T N S R E I Y L T P K L K
UniRef90_Q2C4V5 E S L P V Y Y I
UniRef90_B2GC05 L E Q T V G V L I E D D G T V
UniRef90_R5HIK2 K D Y D V D V I W Y S N D D E I I K S E G F R
UniRef90_R5J113 Y N A E A I M I D E D K Q V Y I T D G L
UniRef90_F3HQJ4 R K I P A F F V I R A D K R F I I R S N A
UniRef90_L1NXQ8 H P E I K A L L I Y S D K D N K V F M T E N M K P L L V E
UniRef90_H8FRQ7 A G G L T A I F V T P D G
UniRef90_G2J081 S G V N K L L L V D A A G Q V W A T H Q M A A
UniRef90_F1W3I3 L A E V D V L L I D K Q G R A W R S G N W P
UniRef90_UPI0003B5F850 L P G R E C L I L G Q S G A A L K S A R W N T L E
UniRef90_S0K3E7 L P A V I E G I V I T K D H Q L F Q T A N L S H F I A E
UniRef90_A0A011NL3 L Q V E Q V L R V D A Q G Q V Q V S S A L
UniRef90_I2EX31
UniRef90_UPI0003B30E6F
UniRef90_G5KFT6 T P G L E G I I V T Q A L D I I S D E L K Q
UniRef90_F3Z442 L S A S E C L I V G D T D G K L A S R H W N R L V Q
UniRef90_UPI000364BD86 R G I S A L F L F H D G T G R S E S V N G F D R F L
UniRef90_F2ZDV7 H K I P A F F V I H A D K H F I I R S N A
UniRef90_F8IK71 E A G L C S S F L L A T T K G A V
UniRef90_J4TW65 F P T A L V I L I G P D G K V
UniRef90_G8TGY1 M P G V I E Y L I V T R D G K Q Q T S K G W
UniRef90_G2IVG0 F G I R D V L L V D G H G E V W L S R S M Q A
UniRef90_F8X0B6 H Y N T I Q G F M L D S D N N I I Y T Q D F R
UniRef90_UPI00014C958F T D L E G L M I L V E P D
UniRef90_D6Z598 F G C E G Y F I D K D L K V R H T D G F R
UniRef90_H3NCA6 L D R T I E A I V I D Q Q H N I A Y T S G I K
UniRef90_W0TQ29 M G I K Y V L V D E N N I V H M N P A M
UniRef90_UPI0004115826 R N D L Y V L L I Y T D E Q N T I F K T P N F E K
UniRef90_UPI00037729BE L P N I E G V I I T K D K K A L I T Q G L Q K

UniRef90_A4WXF7 1 RETFYLFGLVLEIEARG20PERVAREALARV30GQRLEA40H
UniRef90_UPI0003B390A2 QMQTSTLFA MDTLMELEQLTEGDEKLLLEAEESKIRNLSKVIIDE
UniRef90_TOP2G0 NDLDSDVLSKVIIDE
UniRef90_UPI000249079F EAQHRTYYGLGTKIDLTIFGTQ SP TLLDKANDLISGYE
UniRef90_U1X532 HTFQAMNTEFS TI GLLTQSSARKELEWLIIRITIE
UniRef90_W8G5W0 QLLRHKFTAMASPCEVVMIDSNKDDVQRVAQAASEEVRRIIE
UniRef90_C8WYR7 TRPLMGTMVTITVLDSSSRDAHEAAQASALDTMQOALIT
UniRef90_U2RHH0 YK VQTRFLFHSTNIKIKIP E EYYS ETVFDELYGLLEEDVND
UniRef90_D1AFF6 RTEYRLFHSHIKIKIP DNYED KLFDELFGLIEMEQVDS
UniRef90_D8K219 REFTETRYSLGLGTITIKLIDTETPSATGALIEDGFAEIERLSDS
UniRef90_C6WR82 F PALGATA VVVLGDGP LAE AEA LVR AEEVRAVDE
UniRef90_K9CWV5 EESHLMVMTLARLQVVRGAPQDDAQAAALREGLDRLARVE
UniRef90_UPI000174443A KRYHYSR PQMGSVFSITVYAAADEARAEAAVVEAYKRVEEIN
UniRef90_UPI00024924F6 KTYHGLGTKIVLTVFTPATIKD LDNAYTLIKHYE
UniRef90_G1UUU5 EPLRQTSLFMGTMVSI SVAQAE PGRAE EGMARAFALGR RMA
UniRef90_UPI00047B404E QLLAGPVFVFGTSSYSI IYDAEADFTKQGLDFTV IN
UniRef90_F8KYB7 LYQFTGNAMTMDYRVLI GHPTSEQQEQTEATIFTVFQEVN
UniRef90_W0RSQ2 RRSVPMVMTIAQFAVVDRDPHAAALDAVAEAVRRLVE
UniRef90_UPI0002F17E1E EVVWRGTALGAVATLRIRIHHDRTAARAVAEVRRLE
UniRef90_K4UMG1 SFEGERMTMPYRIRIVHLTRQETTELKNEIDAVFKVID
UniRef90_K0NIG9 TATHEAMGTHITLQIFGAREDP EGLLQKSLDLDHFE
UniRef90_R4TD48 EQVMGLPVSVDVFRAGGGLVDHAI DGVF GWLREVD
UniRef90_K2ABC9 KKEFRMFGTDVDFQILVVEKVEAEKNLVFAFEMLQKHE
UniRef90_U2QN91 HTRAF LAJYDTCRVAEELPE DGEQLLEQCEEEAHGLE
UniRef90_UPI00045E68BF QVDFDFPQAMGSPCEVQFYADSAARAE DVF RSVQNTRIEAL
UniRef90_A7BV68 Y YIGRFQAMGSPCE LLMAVEKRSAKSLTLAANETRIEAL
UniRef90_K6E0K0 KKTRLYMDTVVDLQVVTEKEEAEEKILDRAFNTFKKVE
UniRef90_I0X695 FDLFDFTVSVVVKGYASQA EWDEQMEALHADLHQLF
UniRef90_D1PJA6 AMATRFEVVNLNGEKESWQSVAEEVLDDEIEKME
UniRef90_UPI00037F11C2 KEYSKNYFYMDTYINIVLNSTKKNQE IDNIFNDIDYLY
UniRef90_R7HEH2 FRRARALLGTFVEIDVADQGA DLES AVEA AFSAVAEVH
UniRef90_UPI0003603959 QA HKTTLFALDFTVLEITAYGEQ APRAL EQASAEIKRLE
UniRef90_B8R8U5 TWHGRALGAPASLTHH DRAAAE ERLVE LVVVEVARLE
UniRef90_E7G8N0 ELIDKDLNYYNQLF
UniRef90_I7KQ16 HALGTA LTLQIVYGMKDDY VINKSFELTDHYE
UniRef90_UPI0004789113 AMFGTYRIRIQVIEDLGDQLQPEFDSVVALIN
UniRef90_K6YYQ8 RFSAMASPCELELLETDSMLANHLTSLAYSEAKRIE
UniRef90_F8DRG7 HVMTHHALGLTRNLTLIETDGNKY FSLKKSMDLTDHYE
UniRef90_L1N0S9 EETKLVMGTVARLTVRAGDELTSQAALRDGLAVLAQVVE
UniRef90_M5ISW5 SWQGVALGADDAQLHIHPDPVAQT LIDQALSEVRRLE
UniRef90_A0NZK2 LYRWRGIALGAGAEIDILHQSAEAER LANVDAEIRRL
UniRef90_N1M3G8 QVRF PALGTTAALLVTDPSALP LAESLAE LAAVE
UniRef90_W8AN79 YSEKVALLGMTVFKKSAVSSISEDSVVRQSYKDAFREILAS
UniRef90_A4SE98 YSEKVALLGMTVFKKSAVSSISEDSVVRQSYKDAFREILAS
UniRef90_Q3ZW54 RLRTHTFRAMNTAIELSLYCA GDTMENA IQLAQDWFE E VSE
UniRef90_E0IE31 LHLRGETMGTNWSLACHAPRLDAQDTRCRMESVDFEIV
UniRef90_A0A059FS56 LGLTFVVEIDVADDEQV PGGDAESAVDTAF AVADVH
UniRef90_HOT1M3 RRVIEHVMGF PVS LRVADDEQV P GSAVD AVFAWLREVD
UniRef90_K4R0I3 YETFTGYAQQGTYQVKANLE GVS HNTIAAVIDSLLEGRIDE
UniRef90_R5BY49 MAS PCELELLETQQLLANRLEEVVLQTKRIE
UniRef90_Q15YD5 ETITWRGVVLLGA EASLTLHSDAAEA HGAIEACLVEAARLE
UniRef90_UPI00036078E3 MGT HWA AKFSTSPDHLHAEQSITIQSLDFTV
UniRef90_B5JEV0 LDGNDDAATRTLRAVPRWF AWE
UniRef90_A7NFX5 HALGTSITLQIFGTQ DRKLLQKSFDLTDHYE
UniRef90_Q5FI41 EETRIVMGTVARLTVRAGDELTSQAALRDGMVLTAVE
UniRef90_UPI00047B9CDB KITKSYRALGTVIDLTIYG QDEGLDQSYQLIKYYE
UniRef90_E0P1H9 TIEGEGMTLQFYRDLGTSLSAEEKASQQLDRCFHKID
UniRef90_G8P5H5 RWRGSA LGAQVRSVLFHHPDREKERSIQDCLTEVRR
UniRef90_Q9Z8K2 LGLTFVEIDVTDHG CDAGEAVEAFAVAVD V H
UniRef90_Q89XJ4 T LSGRAFSGS WRVVPA AADARQVRLVAALVAETD
UniRef90_M4ZN29 LWRGRFSAMASPCEVLLVDSRTRAAQVLDTVAAEAARTE
UniRef90_A9D201 EVNFYAYET YCMVRL EERPEAGTLLAGCRDLALQVIE
UniRef90_L0W848 KLT TLEGERMT P YRIVLGKSNQETEQ LDKSEVNTVHFVID
UniRef90_D3AF20 SGGKIFGTYRIVKYEHDP LKSLILQELKVID
UniRef90_Q254F6 KIKISVDTL LMGSPFQLVVYHEDENGKMAI HKS I KEIIRIE
UniRef90_UPI000376549E RHVIEHVMGTVFSFDVVRT PPEIRALTA AVAWLHRVD
UniRef90_S6B5G4 RVRWEGTALGAPASIQLVHSDEAQARAALDAELKRLD
UniRef90_S3T8V6 HQDHLGLTSLDVVVTAHQQDAEKVLAALQTDELARLD
UniRef90_X0W4U1 T MQIVLTD P AALS ARDEIDAELD LVE
UniRef90_I0WSB4 R SFPAMGTRLDMLILGQS P QCEMLFHEINHEVERIE
UniRef90_UPI0004722EC1 A LGTVLSLRVAHDGGEQADALDAVATLHIE
UniRef90_UPI00036B50FA FEENFKALGTDIYIGLJAPKEETEKILAEVKNLYKRKE
UniRef90_K2FSH9 TFRMTGLASVSCSYDTAPPGTLKARLQEECRRIE
UniRef90_W2BTE5 KIEKSWRAMGTTNRLTLFEG TADERALDDAIFVNDYE
UniRef90_B1MVA6 QFTAFDQTQVDVSLVGS KDQAKQASLIARDFAVLE
UniRef90_W9V9A8 QTVTLQGETMGTTYTVKYLSSNRDP AETIQKRI DDALKEVN
UniRef90_C6SL22 LSGTAMGSRWSVQLLWQPDHLDLSDLTARLSARLARI
UniRef90_Q21BK4 RVTFTAMNSEF LLLGKRP E VGSALREIRLWFAYVE
UniRef90_M1Z2Q2 RREQTLMQTSVAITCLAD DVDAGLAIDA AFRRMG EAV
UniRef90_I4VI21 QAHRFRDYVLGTSLDVSVTGSKQEA KALDAIQTEIARMD
UniRef90_N9C7Q7 FHEWHGELGAASSLVSHSNAHAQR TLARMVSEVARRLE
UniRef90_A0A024KKG6 RWRGTA LGA PASLQLVGS DAQAAP TISALEAELDRLE
UniRef90_D0CP71 LYRARHEAMATEFEI IJAQDDVDANVA DAVFAEIDRLE
UniRef90_UPI00017460AE KRHGLNPTMRTWSIF YAAADF DIA PLRRA LQQAIVDEVD
UniRef90_N8GKK9 ELSH RAMA CDFVVLVRDERRSVADALDALESIDAVE
UniRef90_M5T6T1 RILAK EANV LHHLSKAF TIFK TVE
UniRef90_D5D9X3 QLA T K L F A M G C H I Q I S L N T T R L S A Q P L T N D I Q Q R L A D W E
UniRef90_A5WDA9
UniRef90_X1I348

UniRef90_A4WXF7 K D W H A W R P G S 50 L E S L N F A A G E T S R K V E V G L A A L L R E G R A L S 80
UniRef90_UPI0003B390A2 A L L S V T D E K S S D I Y S L A L N E A A Y N T A V C Q K I V E T T A D I M S K A L D M C
UniRef90_TOP2G0 L S M S I Y N R T P S S T E I L S L F N D E A E R Q S P V A V K L D R S H F Q K V L T K D A S L D R Y T N S
UniRef90_UPI000249079F D R L T T I N R T P S S T E I L S M S R L N R A A G Q S P V A V S A P L Y E V L T E Y Q A H A Y Y
UniRef90_U1X532 A R L L S R F L S D S S E L L S R L N R S A A G Q K P V A S V S A P L Y E V L T E Y Q A H A Y Y
UniRef90_W8G5W0 T K Y S R F R P S S S E L L S S K I L N S A D G G Q K T T T I V D A E T H Y V L L E Y Q A S V A F Y
UniRef90_C8WYR7 P V L D R H A P G T P L S E L I N S A Q G G R L K K T T I V P P Q L A A V L L Y Q A G Y F Y
UniRef90_U2RHH0 E K Y N S Y S E F S F L D R L N K N S G N F Y T D V V N E E M T I E I L E R V V H F F S
UniRef90_D1AFF6 K K Y N S Y S E F S F L D L I N K N A G K Y T D V D S T L T L E I L E A A R K Y S
UniRef90_D8K219 R L L S R H D P A S S E L L S A V H R S A T G R E V E L V S P L L A E A V G T A L R A A
UniRef90_C6WR82 E A C S R F R A D S E L L S A V H R S A T G R E V E L V S P L L A E A V G T A L R A A
UniRef90_K9CWV5 E A A S D Y L P E S S E L L S R L N R A P G Q Q W T E L P A G L L Y Q A L A F A Q E T A
UniRef90_UPI000174443A A A A S D Y L P E S S E L L S R L N R A P G Q Q W T E L P A G L L Y Q A L A F A Q E T A
UniRef90_UPI00024924F6 D L L T V N R A S S E L I M D I N H A A N H A V K V S P L S Y Q L L K Q A V E I S G
UniRef90_G1UUU5 Q V F T R F D A S S P V I G A L I N A D G A L S D A P P E L N A L L Q R K A M R V I G
UniRef90_UPI00047B404E D S M S T Y L P N S D I L S K I L N R N E P V S I D T H F E K V F L K S K E I Y
UniRef90_F8KYB7 L T Y N K W N P S S E L L S K I L N R N Q L A Y V H T P I S A A L S Q F L Q K T A E I V
UniRef90_W0RSQ2 R T M T R F T D T S D V L G R A N R R A G L E A P P P E L V T V V A A E G L R W A
UniRef90_UPI0002F17E1E G L F S L Y R D D S S A L V A L I N R R G L E A P P P E L V T V V A A E G L R W A
UniRef90_K4UMG1 T V Y N N W N S E S E L L S K I L N R S P A G A I P L S S N E L F V F L K E T D R F Y
UniRef90_K0NIG9 D L L T V N R P D S S E V L T R V N D D A A K E P V V S S A V Y G L I K L A V K T S
UniRef90_R4TD48 A R F S P F K A D S E V C R Y D R D G A E L S P S E L S D D L L E V L S L C H Y E
UniRef90_K2ABC9 K M F S R F D P E S S E L L S R I N S Q L G I F L N V S P E M M V E I A H R A L E E Q Y
UniRef90_U2QN91 R T L S M R D P D S S E L L S R L N R R P G E A V P V L S E T L Y T F L E Q Y A L E I C
UniRef90_UPI00045E68BF E Q Y S R Y R D D S S L L S A I N R R R A G T G V I K V L S D A E T F A L L Q Y A D R C Y
UniRef90_A7BV68 K K F S R Y V D D N M I Y R I N N S N G K T V I K V L D D E I V Q L L N F A Q Q C Y
UniRef90_K6E0K0 Q A C S R F T D S S E V L Y Q A C Q L V G T P V E I L S P Y L F E P L S F A I E V S
UniRef90_I0X695 K L I S V T D S S E V L Y Q A C Q L V G T P V E I L S P Y L F E P L S F A I E V S
UniRef90_D1PJA6 D I Y H S Y D G M V N L C D V I N N A R A A E P V A V L E D D L Y G F L D W C N T I Y
UniRef90_UPI00037F11C2 A K L S L Y N P A S Q I A R T N H A A V S P V K L D D P L V F G L I Q R C K T L S
UniRef90_R7HHE2 S S Y N K Y D G I V N I Y Y L N E S A N N E I E I D K 7 R L S D I I K G I E Y Y
UniRef90_H0SNT7 R L M S F H D P D S D V S R L N S A A S S C V T V H P W T Y T V L Q A A Q L Y A
UniRef90_UPI0003603959 A L F D A H Q K R S E I A E L N Q Q A G A P V K L P P E T F A V L A Q A Q L Y A
UniRef90_B8R8U5 A L F S L Y R S D S A V I A E L N Q R I G A L A T P P G D I T G L L E A A H A F W
UniRef90_E7G8N0 D K Y N S Y D G V N N V K T I N D N A K K A I K V D K P L I D L L E L S I E R Y
UniRef90_I7KQ16 D L L T V N R D V S E V S M D V N H A A K E A V Q V T P G T Y G L I K L A V E K S
UniRef90_UPI0004789113 A A A N S Y V Q E S E V S E F N R S G K L L N P S F T F K D M M D S A A K Y N
UniRef90_K6YYQ8 L K F S R Y L P S N P M A K I N Q S Q G N P V N I D G E I F R L L E F A N S C F
UniRef90_F8DRG7 D Q L T V N R N E S E V S M S V A H G A G K P K M V S P T T F D L I E L A Q E I A
UniRef90_L1N0S9 R D A D G A A L A J A V E A A A G T G E W R E L S P A L Y E T L L A Q E I A
UniRef90_M5ISW5 R I F S L Y E Q D S A L R R L N R D G Y L K Q A P G D L T R L L L E S Q R L S
UniRef90_A0NZK2 A L F S L Y H P E S E L V R L N T D G R L P A P S L E M V D L L G Q C D R L H
UniRef90_N1M3G8 Q A W S R F L D T S D I V R L N W A Q G R P V R V R P D T V H L V T E L V R A W
UniRef90_W8AN79 L T C S R F R P D S E L T R V N S T A G T P T T V S E R F A E A L Q I A L R A A
UniRef90_A4SE98 R L E S Q L S E W S P V I S R A A Q R A G E P V P I L T P D I L R V T D L A L S I S
UniRef90_Q3ZW54 S V F N R F D T S E L Y R L N R S G Q A I G A S T M F I D L L Q L S E Q Y H
UniRef90_E0IE31 R V F S R F R S D S E L S R M N R A N G A P V L A S T M F I D L L Q L S E Q Y H
UniRef90_A0A059FS56 H Q M S T W E P D S I S R F N R L P P G T M D V P P A F R Q V L A I A L D V A
UniRef90_HOT1M3 R L M S F H D A E S D I S R L N M A S R G A V T V H P W T Y A V L E M A L D M A
UniRef90_K4R0I3 E R F S P F K P G S E V S R L N D R G E I G P C E V S A D L A E V L A L C E E Y R
UniRef90_R5BY49 F S I S G Y N R S I L S R R N A G E D I S P D R Y F S E L M E L S E K Y K
UniRef90_Q15YD5 Q K Y S R Y I V G N L V H Q I N N S H G K W V D I D Q E T H R L L A F G Q T C F
UniRef90_UPI00036078E3 R I F S L F D P E S S I A R L N A T G V L E D A P A D F R V L L S D A L D L A
UniRef90_B5JEV0 S Q M S P W F N D S D L S A L Y E R A P D S W L A F R P E A F H V L Q N A L S I A
UniRef90_A7NFX5 R I L S R F R N D S E L S R A L N T R A G E W V R A P R T E A F H V L Q N A L S I A
UniRef90_Q5FI41 D L L T V N R D E S E V M D I N H A A G D P V Q V S S A V Y S L V K L A V E K S
UniRef90_UPI00047B9CDB K D Y N S Y S E G S F F D S I N K H A G E F V D V D S E T H L L N E L L Y L S
UniRef90_E0P1H9 E D A D G A V L A R V E A A A G T W T E V P S G L Y E T L A L A Q E M A
UniRef90_G8P5H5 D I F T V N R E K S E L M T V N M A G I E S V Q V T E P V Y Q L T K I S L E K S
UniRef90_Q9Z8K2 S L Y N N W Y P S E L S I N R A A D V P J I T L S V E L S E F L D Q V D T L Y
UniRef90_Q89XJ4 E G F S L Y R A D S A I C A L N R S G I L V A P E P D M V A L L K A S L Q F S
UniRef90_M4ZN29 R L M S F H D A D S D V S R L N L E A S G C V K V H P W T F A V L K T A L D M A
UniRef90_A9D201 M A M S P Y L A R D S E L S R F N R A A N W Q R C S R H L A V V A S E A L R I S
UniRef90_L0W848 Q H F S R Y R D D N P V W H I N N A N G D W D V D E E I E R L E F A D Y C Y
UniRef90_D3AF20 Q T L N M Y D E D S E L S V M C Y R P G Q P Y E V S A L L Y D F L D I S L N M A
UniRef90_Q254F6 T L Y N N W N R E S E L S K I N R S A N V A I P L S K E L L A F L K Q V D T F Y
UniRef90_J9FHM5 R S L S M F N A Q S T I S Q I N D N V T H R V D S S L A Y V F A L S Q K I S
UniRef90_K1LTR9 N L I S E W Q P H T P V S E I N R S A K R A I A V N N E L F H L L V I T A K K Y S
UniRef90_UPI000376549E A V I F S P Y R P D S Q I S R L R D G T L T L A D A C D R T D F I A L L T H A L S L A
UniRef90_S6B5G4 A I F S Y R A D S A I T A L R N D G V L E N A P T D F I A L L T H A L S L A
UniRef90_S3T8V6 Q L L S V W R D D S E L S Q L N R E Q H I E A S S E L Y E V I A A C E Q W R
UniRef90_X0W4U1 A A C S R F R P D S E V S V L G K S G G V P T D V S P L L A E L I L T A L T A A
UniRef90_I0WSB4 I L F S R F R E N G S Q V W E I N Q Q R H R W I K I S E E L W Q A F L T C R E Y H
UniRef90_UPI0004722EC1 S Q M S L F L P D S S A L R R L N R H G R L R Q P D A D D L I Q V L Q L A Q Q V S
UniRef90_UPI00036B50FA L T F S R F N P R S E L S R L N N L G V F Q E G S D D D L I Y L A K K S L D R Y Y
UniRef90_K2FSH9 L L L S R F I P D S D V S R I C A N R G Y W V S V S P E T F E V L F A A L R L S
UniRef90_W2BTE5 K L L T V N R P Q S T M A I N Q A A Q K P V T V S A T V Y Q L I K R A V Y E S
UniRef90_B1MVA6 N E W G A S E T G R M V R I N R Q T Q I P F V P P P S L L E L I R R S Q D L E
UniRef90_W9V9A8 R Q M S T Y Q P D S E I S R F N Q H A G K P L R I S S D F A H V T A E A V R L N
UniRef90_C6SL22 T S L S R F R G D S E V S M A F D R A P C D W Q S S R D L A E V L A V G L D I G
UniRef90_Q21BK4 K H C S R F L P D S E V S R L N A A P K T P V L L T E T C Y R L L T E A W N Y A
UniRef90_M1Z2Q2 A V L T R F D P A G P V A R L N R D G R L G N L P P E L R D V L H R S L E I S
UniRef90_I4VI21 Q K L S T W R A D S E I T A L N K N K A G A V S P E L F E V I A A C E A W R
UniRef90_N9C7Q7 A V F S L Y Q P D S E L S R L N R D G V L A N A S R D M V A V L E T S R A I A
UniRef90_A0A024K6 N I F S L Y R P D S Q L S R L N R D G T L P A P A P E L A L Q V L T Q S A I H
UniRef90_D0CP71 D E L S R F R P M S D I W R V N H A R K G E R A P V G L A A A D C L A L A K A V H
UniRef90_UPI00017460AE M Q M S T W K P M S D L W R L N R A P V G W V E V P A R L M E V L R L A I E I G
UniRef90_N8GKK9 R R L T V Y D A R S E I S A I N Q S A G Q P V T V S R E T F D V L H H A I E L N
UniRef90_M5T6T1 T T C S R F D A K S E V M K L I R H V K E P V S V S P L L F E A L H F A V L V A
UniRef90_D5D9X3 H I F S R F D D S E L M R L N N R G D Q W S E V S S E L F E V L Q R A I H F V
UniRef90_A5WDA9
UniRef90_X1I348

UniRef90_A4WXF7 UniRef90_UPI0003B390A2 UniRef90_TOP2G0 UniRef90_UPI000249079F UniRef90_U1X532 UniRef90_W8G5W0 UniRef90_C8WYR7 UniRef90_U2RHH0 UniRef90_D1AFF6 UniRef90_D8K219 UniRef90_C6WR82 UniRef90_K9CWV5 UniRef90_UPI000174443A UniRef90_UPI00024924F6 UniRef90_G1UUU5 UniRef90_UPI00047B404E UniRef90_F8KYB7 UniRef90_W0RSQ2 UniRef90_UPI0002F17E1E UniRef90_K4UMG1 UniRef90_K0NIG9 UniRef90_R4TD48 UniRef90_K2ABC9 UniRef90_U2QN91 UniRef90_UPI00045E68BF UniRef90_A7BV68 UniRef90_K6E0K0 UniRef90_I0X695 UniRef90_D1PJA6 UniRef90_UPI00037F11C2 UniRef90_R7HHE2 UniRef90_H0SNT7 UniRef90_UPI0003603959 UniRef90_B8R8U5 UniRef90_E7G8N0 UniRef90_I7KQ16 UniRef90_UPI0004789113 UniRef90_K6YYQ8 UniRef90_F8DRG7 UniRef90_L1N0S9 UniRef90_M5ISW5 UniRef90_A0NZK2 UniRef90_N1M3G8 UniRef90_W8AN79 UniRef90_A4SE98 UniRef90_Q3ZW54 UniRef90_E0IE31 UniRef90_A0A059FS56 UniRef90_HOT1M3 UniRef90_K4R0I3 UniRef90_R5BY49 UniRef90_Q15YD5 UniRef90_UPI00036078E3 UniRef90_B5JEV0 UniRef90_A7NFX5 UniRef90_Q5FI41 UniRef90_UPI00047B9CDB UniRef90_E0P1H9 UniRef90_G8P5H5 UniRef90_Q9Z8K2 UniRef90_Q89XJ4 UniRef90_M4ZN29 UniRef90_A9D201 UniRef90_L0W848 UniRef90_D3AF20 UniRef90_Q254F6 UniRef90_J9FHM5 UniRef90_K1LTR9 UniRef90_UPI000376549E UniRef90_S6B5G4 UniRef90_S3T8V6 UniRef90_X0W4U1 UniRef90_I0WSB4 UniRef90_UPI0004722EC1 UniRef90_UPI00036B50FA UniRef90_K2FSH9 UniRef90_W2BTE5 UniRef90_B1MWA6 UniRef90_W9V9A8 UniRef90_C6SL22 UniRef90_Q21BK4 UniRef90_M12ZQ2 UniRef90_I4VI21 UniRef90_N9C7Q7 UniRef90_A0A024K6G6 UniRef90_D0CP71 UniRef90_UPI00017460AE UniRef90_N8GKK9 UniRef90_M5T6T1 UniRef90_D5D9X3 UniRef90_A5WDA9 UniRef90_X1I348

UniRef90_A4WXF7 R H P R M T D L T I T G D E V R S D N P A V Q L V D L G A F A K G A A L D L A E 130 140 150 160
UniRef90_UPI0003B390A2 D R D S V A V L G D D S L F I A S I P V G M Q V D D L G S V A K G Y T S G M L A D
UniRef90_TOP2G0 S V G M D K L I L W K A P Y L K K S K P N V S I D D V L N G G I A K G Y S V D V L A K
UniRef90_UPI000249079F V I D P T D L I L D D Q D Q T L F L F L K K A G M S L D D L G G I A K G Y A D R L R D
UniRef90_U1X532 H R S K C T N M L D R V K Q T V R L H P D V L L D D L G G I A K G W S A R F G S S
UniRef90_W8G5W0 Y I V G F D K H I R F N S N S I L P A D G M S L D D F F G G I A K G E Y A V D C A A A
UniRef90_C8WYR7 R I G F D K V H I G P D G V Q L Q D G M Q L T L D G G I A K G H I I D Q A A N
UniRef90_U2RHH0 L I D Y K K I V I D S E R K R V K I D A G Q E I I T G S F I K S Y A V D K L V K
UniRef90_D1AFF6 K T D Y K N I E I L D P V N L K V R S G S G Q E I I T G S F L K A F A V D K A A V
UniRef90_D8K219 M V N Y H A I E V V D R D I L R L A A P G M G L I T L D G G I A K G Y V V D Q A A L
UniRef90_C6WR82 A P G W W R V G L D A A G S R L V V P R G V L L D L G A T A K A L C A D R A A R
UniRef90_K9CWV5 G Y E H L E M R E R E E G G M H R Y E P G M R I D D R G A L I K G Y A L D E L R P
UniRef90_UPI000174443A M A D W H K L Q L D S G N G T K L A E N V L I D L G G I A K G Y A A D A L K
UniRef90_UPI00024924F6 L I D P R Q I E N D T E R S V F L L H A G M E L D L G G I A K G Y I A D A I K Q
UniRef90_G1UUU5 L V G A E H L E A S G K A L R F T R S G M G L T L D G G I A K G H I A E A M S
UniRef90_UPI00047B404E F V G F D K V S L K N G E I V K P T E T Y L D F N A I A K G Y G V D V I S E
UniRef90_F8KYB7 S T G W K K I H F E N Q V F W K E H D D T Q L D L G G I A K G L C V D L L V E
UniRef90_W0RSQ2 H R A V I E L G T R G G G H V L R Y H D D G A R L D D L G S V A K G Y G V D R A V A
UniRef90_UPI0002F17E1E K V G L Q H V M A D R D R L A F A R P P G M A L T L N G I A Q G W I T D R V V A
UniRef90_K4UMG1 N V G W K H I T L D L T N K T I K K H P D V Q L D L G A V K G F A V D C L L E
UniRef90_K0NIG9 L I D P W Q D L N D D D H T V F L R K E G M E L D L G G I A K G W T A D R L R D
UniRef90_R4TD48 D F Q G K Q L L D D I K I E D G Q I R L N S R M D F S G L V K G W A V D E T A A
UniRef90_K2ABC9 R V I G Y K H V R L D R N T R T V T F D S G L G L D D P G A G K G Y A V D R L R Q
UniRef90_U2QN91 L I G W H K V Q W S D D A I Y L P Q T G M E L D D F G G I V K E Y A D V A V G
UniRef90_UPI00045E68BF Y I V G W D K V T W Q P P Y F T L P K G M E I D D F G G I G K E Y A V D R T L
UniRef90_A7BV68 S V T Y H D I V L E Y H A R T L T V T K D L V I D D L G A V A K G F A L D L A A Q
UniRef90_K6E0K0 L T D Y K K A R L E E G K T L I V K E P Q M Q L D D L G G I A K G F A G D L A I E
UniRef90_I0X695 H I S M E N L Q L D A A A H T V F F D A A M S L D D V G A V G K G Y A V E K A A E
UniRef90_D1PJA6 L V G M Q H V H L D P T D N T V R F D K E G T M L D D L G A V G K G Y A L E V A S E
UniRef90_UPI00037F11C2 D V N I N I D D I K L D N N K Y T K Y N D I K L D L G G I A K G Y V T E L V G N
UniRef90_H0SNT7 L L A G H Q V R F R H A G L R I D L G G I A K G F A V D C A I D
UniRef90_UPI0003603959 L V N F K R L Q L D A T T Q T A F L R D K N M G V D D L G G I A K N Y I L L Q V R S
UniRef90_B8R8U5 L V G F G G V R F N R D R I A F R R P G M A L T L N G I A Q G Y I T D R V V E
UniRef90_E7G8N0 H T G L D S I K I D K Q A Q T V Y I D D N V S I D V G A T A K G Y A V E L V K Q
UniRef90_I7KQ16 D P A N A T L N D Q D Q T V F L T K K G M E L D D L G T I A K G W I A D R I K D
UniRef90_UPI0004789113 F I G F D E L I S V I T D S G Y F A T K P G V M L D D L T G L G E G Y A I D K L V E
UniRef90_K6YYQ8 Y I G W A K V K Y D Q S S I T L P K G M E L D D F G G I G K E Y A V D C V A K
UniRef90_F8DRG7 L I D P Y K V L N R E A R T Y L E E Y P G M E L D D L G G I A K G Y I A D R I R D
UniRef90_L1N0S9 R V G Y E F L E L N T V E E T G Q K R P G M K I D D R G A L I K G L A L D G I R S
UniRef90_M5ISW5 Q V G Y Q A I H I Q D D T I Q L Q H P G M A L T L N G I A Q G Y I T D R I T E
UniRef90_A0NZK2 R T G F R N V V Y G P G E I R F A R K P G M A M S F N G I A K G Y I A D R V T A
UniRef90_N1M3G8 W P A A V S E I D I D G L D V R L P P R G T T L D P G G L A K G L A D M L S E
UniRef90_W8AN79 V P G W R R I A F D P N T R R L R L P P Q A R L D D F G A T A K A L T A D R A A
UniRef90_A4SE98 F V N W R E V E T N R E E M T L F L R N K M R I T G F G G I G K G Y A A K Q A G L
UniRef90_Q3ZW54 L V D Y R E M S I K G K D L V L G R N G M A T L D G G I A K G Y I V D M A S S
UniRef90_E0IE31 S G F P I R F Q L D F G M R A I T L D A D V Q L D D F G G I A K G W A E Q L V R
UniRef90_A0A059FS56 G F D S I E L L A D H R V R F G D P G V K I D D L G G I A K G F A V D C A I D
UniRef90_HOT1M3 G F D S I E L L A D H R V R F G D P G V K I D D L G G I A K G F A V D C A I D
UniRef90_K4R0I3 L P G R G L D P C A V V K G W A V Q R A A E
UniRef90_R5BY49 N F N A I A Q G Y S C D V I A G
UniRef90_Q15YD5 Y I G W Q N V Q F T Q Q Q I R L P R G F E L D D F G G I A K G E Y A V D S A A K
UniRef90_UPI00036078E3 L V G W R N V F M E G G R V R L L K S G M A V T L N G I A Q G Y I T D K V G D
UniRef90_B5JEV0 Q A G F Q S V Q L A T E T L S V Y Q P G D L T I D D L C S I A K G F A V D L V C
UniRef90_A7NFX5 A S G W R A I R L D P Q R R T V A L P P G M R L D D L N G V A K G W A T R A A Q
UniRef90_Q5FI41 T N P F K V V L N D Q D Q T V F L K M K G M E L D D L G G I A K G W I A D R I R D
UniRef90_UPI00047B9CDB L V D Y R K I E I R D S Q V K J A K G Q E I I T G S F M K S Y A V D K L V Q
UniRef90_E0P1H9 H V D W H A L E L R E R A A D D G E H P E M K I D R G A L I K G L A L D G I H S
UniRef90_G8P5H5 L I N P D E I L K D E E F S I F L P K K G M E I D L G A I A K G Y I A D R I K D
UniRef90_Q9Z8K2 G W Q H L E F Q S N T K T L I K K N R H V Q I D D L C G V V K G Y A V D C L N E
UniRef90_Q8XJ4 K V G S S G L R V S E K L V A L L R H G A I T L N G I A Q G Y A T D R V V D
UniRef90_M4ZN29 L P G D D H V R F G H P T V K I D L G G I A K G F A V D R A L E
UniRef90_A9D201 L I G G W Q K V E R Q P G R I M P A G M E L D D L C G I A K G Y A L D R I E
UniRef90_L0W848 R T G Y H H I R L L P G K R A A M I D I E G V V D P G A V G K G L A I D Y I V H
UniRef90_D3AF20 N T G W E H I S I D F T N Q S T I K Q H A D I Q L L D L C G A V K G F A V D C L L E
UniRef90_Q254F6 F V G Y Q L V D L Q G S T I V K K D P R V M M D D F S A I A K G Y G V D R V A E
UniRef90_J9FHM5 G V G N Q Y L Q L N E S N K T V F T H P K T R I T S F S S I G K A Y S V Q K A I E
UniRef90_K1LTR9 G V G N Q Y L Q L N E S N K T V F T H P K T R I T S F S S I G K A Y S V Q K A I E
UniRef90_UPI000376549E L V D W R A V E V D S R Q R I A F A H P G M G L T L N S G A Q G Y I T D R V I D
UniRef90_S6B5G4 Q L K T Q S I E L N P K T K Q I K M G S A I K I A P D A Y A K G Y V I D R A L I
UniRef90_S3T8V6 L V G Y E K L L L E G D M I R F K Q K G M Q I D L G G I A K G Y A V D R A I E
UniRef90_X0W4U1 T T P A S W S M L E L S D R T V T V P D G V L L D L G A T A K A F A D R C A R
UniRef90_I0WSB4 S G M K Q M E Y D E I G Q R I R F L S G K P G I D F G A Y G K G Y A L A K V R E
UniRef90_UPI0004722EC1 K V D W R Q L Q L D P Q Q I S L G V P G M A V T L N G I A K G Y A A D R V R A
UniRef90_UPI00036B50FA K K D L A Q D L I J S G G K V K F L R K I D F S G I A K G Y I T D K V A E
UniRef90_K2FSH9 Q L R S D D I L V L D D D K L S V Y L P P Q K M S L D L G A I A K G Y I A D R L Q D
UniRef90_W2BTE5 A N P R M S E I E I D G L E I T G R N P E L D L D F T A F A K G T A I D M A I E
UniRef90_B1MVA6 Y T G I D K I I L K Q G K D Y S K T H P K A Y L D L S S I A K G F G V D K V A G
UniRef90_W9V9A8 A H E T I E L D R G A R R I R K R A A V S L D D L A G I A K G W A V D E L S R
UniRef90_C6SL22 S I G P S S L I T F I P H M K A V I R R T D E K V T L D G G I A K G W S V D R A E
UniRef90_Q21BK4 L I N Y R R I V L D A Q G V R F T L P G M A V T L D G L A K G Y V I D Q G I A
UniRef90_M1Z2Q2 L L K P D N V E M D E S A Q R I Q M D A A V S F A P D A Y A K G Y I I D R A M A
UniRef90_I4V121 L V D Y Q R I D V S N R G V R L A S H G M A M T L N G I A Q G Y I T D V V A D
UniRef90_A0A024K6 L V G W Q S V S V S A E A T R L P H P G R S A L T L N G I A Q G A V T D R I A A
UniRef90_D0CP71 R V G I H V E D L D E T G F V T S H V D Y P L D D L G A V G K G Y A L D Q V V T
UniRef90_UPI00017460AE A H D A L E L D I S A M R V R K R A A V T L D L N G I A K G Y A D R L A D
UniRef90_N8GKK9 L V G C S K L K L D A T N T T E L L I T A S M R I N L G G I A K G D A I D R V A D
UniRef90_M5T6T1 S G S Y K D I V D T T H K K T V C L Q K P M I I H L G A V A K G L A I D L A A R
UniRef90_D5D9X3 S T P T N V Q D L T S A N H A N Q Q P A G M A L D L N G Y V K G W C A M Q L A E
UniRef90_A5WDA9 D K L K N S A D R I E F E K E G M A V T L N A I A K G Y A V D E A M E
UniRef90_X1I348

UniRef90_A4WXF7 R P M Q G L V S V S V L D P S G A R A D A A A T A L A V A G P V E W P Q V A A A 250 260 270 280
UniRef90_UPI0003B390A2 K P A H S G A S V S T I V G K D G L T C D A L S T A L F V K G L E G A E K I W R E A
UniRef90_TOP2G0 Y M S S P V V S V T V Y A K T D A M E A D A L D N Y F M A L T P D E I L D F V W K K
UniRef90_UPI000249079F Y P R Q N Q N V S V T V F S K D A S V V G E I E T R L F F A G G P I P N W M E T
UniRef90_U1X532 N S V S D L V Q V T V L A P D V L T A D V Y A K A M L I L G F A E G V H W M Q E
UniRef90_W8G5W0 M P V S Y W A S V S V V A P S C L L A G T L S T T I A M L K Q S P D A R M W L D E Q
UniRef90_C8VYK7 H S P R A V S V S V S V V A P T V A E A D A L S T T L F V Y R D R E A V A F A N S
UniRef90_U2RHH0 Y P G K N K Q I G I V T K E A F T G D I I S T G L Y N Q T P E K F F E I L A K
UniRef90_D1AFF6 Y P S E N K A V G L I T E E S F I G D I L S T G F F N C E P E R F S L Q L M K I
UniRef90_D8K219 H S P R E L A S A T V V A P D T A Y A D A L A T A A M V M G V T E S L A L F E K
UniRef90_C6WR82 D P A P C W R T A S V V A V D C V T G N T A S T A A V L L G E D A P A W L A E
UniRef90_K9CWV5 Y P A D T G A S V T V I L P Q G I L S D M L S T A V F V L G P E K G A K L L D D
UniRef90_UPI000174443A L G L T D R L A C S V V A P D S T T A D A Y A T A F C V M G V A K T E A F G E T
UniRef90_UPI00024924F6 Y P V N T N A S V T V L S K K S I T G E A W S S I G F Y N G I N T L K L S S I
UniRef90_G1UUU5 Q S P A L A S V V T A P E G L M A D A L A T A L S V M P P R E A L A L A D A
UniRef90_UPI00047B404E Y T K T N I L S V S V I A K D C M T A D G Y A T A F Q A M G N G A V E I Q F S E I
UniRef90_F8KYB7 S P L N T I A S A S V R A P T C A Y A D G L A T I A M L F P L E T A K Q W A Q E
UniRef90_W0RSQ2 R P A T A M Q S L S I V A D S V M R A D A A T T A L F G M S P E I V R E I A R N
UniRef90_UPI0002F17E1E R S P R R Y D S L S V I A P D S T T A D A L S T G F S D L G A A E I R R I
UniRef90_K4UMG1 K P L E L H I S A T V I H P S C A Y A D A M A T V L M F A T K K E A L A W A E E
UniRef90_K0NIG9 Y P V E T P A G V T T F T K N S V L D A E I E C K R C F F A G K A L D H W V N
UniRef90_R4TD48 R P V I G L L S V T V A A D D S T L V T A D S L A T A F A M G T E G I A W I A S
UniRef90_K2ABC9 K P E T F L K S V T V V D M K A E Q A D V W A K T I F L M G K E D G M E Y A R
UniRef90_U2QN91 Y P M P T L K S V S I L S R P V Y T D L L S T A F F I L G E E E G G V L V D R
UniRef90_UPI00045E68BF W P V A G L R A V S I V A Q H C R C V V A G S V A T I A M L K A K N G L A W
UniRef90_A7BV68 C S P N D W V S C S I I A P F A M M A D A F S T A A F L L S E E E S K K L M E D
UniRef90_K6E0K0 R P V N E L V S V T I I T K G I T G D L L S T A L F A M G K E K A I D F W K N
UniRef90_I0X695 Y P A R Y C S S V I L A P A G G T G D A L S T A L F C L P E E T G R T V L E N
UniRef90_UPI00037F11C2 Q P A Q G H W I A G L V C G N T T D S D A L S T A M L V D G F E A L N A I Q S I
UniRef90_R7HHE2 N P S N Y M K S V T V I T K S S L L A D I Y S T Y L Y L L P V D K G L E V V N K
UniRef90_H0SNT7 R P A E R V L G A T V R A S T C M V A D A L T K I V M V G G E R A A A Q L A R
UniRef90_UPI0003603959 Y P T N S L S S A T L F A K F P A P T F S S L C L I L L G K S A T L E F I A Q
UniRef90_B8R8U5 S G A H L Y R S V V V I A P D A T S A D A L S T A F S L L E P A V Q R I V A A
UniRef90_E7G8N0 Y P A V H F R S V S I I T A D S G L A D F L S S A V F L M S Y D E G L K L I D S
UniRef90_I7KQ16 Y P V Q T D A G V T T F T K K S V D A E I E C K R L F F A G H P I P G W H D N
UniRef90_UPI0004789113 Y P V S H S M V S V S V A P S A T Q A D A L A T A F M G M G H E K A K I L A E S
UniRef90_K6YYQ8 Y P I E D A R S V T I A A P Y C
UniRef90_F8DRG7 Y P L E T D L S V T V F T D Q S V M G E I E A K R L F F N G E E P I T G W E V R
UniRef90_L1N0S9 Y P A D T G L A S V V Q G H M G L S D M L S T A V F V L G A E E G R K L L A D
UniRef90_M5ISW5 Q A R P L Y R S V S V A G N A T I A D A L S T A F S W M S P Q E E I T R V L A S
UniRef90_A0NZK2 L P I E G G L D A S V I A P A A A L A D G L S T A A L V A G E K N L G K A L A E
UniRef90_N1M3G8 V N A R T V T V I A G T G A R A E A L T K L A F T P Q P D R L V R
UniRef90_W8AN79 E P A P V W R T V S V A A A T C V D A N A A G T A A I V L G D R A V D W L R
UniRef90_A4SE98 W P K E G M K S S T V F S A D P A K A D A Y A T A F Y I L G S E K S L E V T R R
UniRef90_Q3ZW54 F S P Q E L C S A T V J A R D T L L A D A L A T A A M V M G V D E T L K V L L E S
UniRef90_E0IE31 Q P S D S G I Q C V F G R N L I D C E V W A K T I C I V G K E R G I A M L Q E
UniRef90_A0A059FS56 H S G D L A S V T V L H A S C A L A D A W A T G L F A G G A T G L D L A T Q
UniRef90_HOT1M3 L P A H A L A G A T V R A P S C M V A D A L T K I M I A P Q S A L S Q
UniRef90_K4R0I3 R P A T G L L S V T V I A A T L T E A D S T A T A A F A M G T E G I A W A S A
UniRef90_R5BY49 Y P V Q G H N L S A T V V A P T A A E A D A L A T A C M V L G A E D A R S L T J E S
UniRef90_Q15YD5 Y P V S G P R S V T V A T D F C I L Q S G M L A T M A L L Q G T E A E H F L Q A Q
UniRef90_UPI00036078E3 A P A R E W A S M T V V A E R A A T A D G L S T A L S I
UniRef90_B5JEV0 D E A D K L L S V S V F H D N C M K A D A Y A T A L Y L L Q G A K T G L A F A E K
UniRef90_A7NFX5 A P A E T D V A V T V I A P S L F E A E V A A K V V V I L G S V A G M E W L S A
UniRef90_Q5FI41 Y P V K T D A G V T T F T R Y S V E A E I E C K R L F F A G H P M K G W H D D
UniRef90_UPI00047B9CDB F P S A N Q Q I G I T S E S C F V G D I L S T G L F N Q S P P G F K E K M N L
UniRef90_E0P1H9 C P A E T G A S V T V I L P Q G Q L S D M L S T A I F V M G A E R G R S L S E
UniRef90_G8P5H5 Y P N S L A S V T V L S R K S I D G E I E T S R L F F A D G P E R E N W L T E
UniRef90_Q9Z8K2 K P S Y P L Q S V S V V H P S C A Y A D A L A T A V L M T F D S K E A K Q W A E E
UniRef90_Q8XJ4 R S P A L Y R T V S V I A P T A T E A D A L S T A F S L M P A S Q I G D I A A T
UniRef90_M4ZN29 R P A H G V Y G A T V R A P T C M V A D A L T K V V M I A G E R A A P L A
UniRef90_A9D201 R S V N A P A S V S V L A Q T A M R A D A L A T A L M V M G P D T G P V F A E E
UniRef90_L0W848 Y P V S G P R A V T V L A T Q C
UniRef90_D3AF20 K P V E E F T S V T V I C D K A V Y A D M L S T A L Y V L G E E N G E T V I R S
UniRef90_Q254F6 K P L E L H D Y A T V I H S S C A F A D A M A T V L M T F S T K E A L A W A Q K
UniRef90_J9FHM5 Y P
UniRef90_K1LTR9 M P S T E I S S I V S V K G K D A V I A N F L S T T L M L T N P K E R R K L Q K L
UniRef90_UPI000376549E R P A T A L R S I S T V V G R D L T R T D A L A T A L F A M G D E A R P W L A A
UniRef90_S6B5G4 R T A P A L L G V S V I A S T G T I A D G L S A A M L M A P V E R R L S I L R A
UniRef90_S3T8V6 M P I Q T V I E Q C V V V G Q C A D A D A L A T A L T A M S P Y E G M Q L I E Q
UniRef90_X0W4U1 Q T V Q D P M S V T V I A P H A T T D A L A T A G V F V L G P Q K G M E L I E S
UniRef90_I0WSB4 R S V D P W R T V T V A Y T C V D A N T V A T A A L V R G H R A L N W V R T
UniRef90_UPI0004722EC1 K P V S E G K S V S V L S K S P L D G E V L S T A F M L L S P E Q Y A N V L N E
UniRef90_UPI00036B50FA Y F S P T G L A A V T V A A S T C A L A D A L T K V M F V A G F E G A L Q L A
UniRef90_K2FSH9 E S F D L K S V T V I A G T Q E A D V M A K V L F L M G L E K G L K F S D E
UniRef90_W2BTE5 A P A T D L V A V L V V G P D G M T C E A Y S T A F L A M G L D D A I V L D Q Q
UniRef90_B1MWA6 Y P D N D L A S V T V L S P K S I D G E I E T T R L F F N D G P P
UniRef90_W9V9A8 R P A D R M R T V T V V H P S T A T A T A A T A L F I A G P T Q W C G I A E R
UniRef90_C6SL22 R S V A G P A S V S V F A S T C I V A D A W A T A L M V R G R D G L A A
UniRef90_Q21BK4 C P A N T G V Q A T V I G E T A A E A E V L A K V L C L F D P D E A K R W A E K
UniRef90_M1Z2Q2 Y S P L N Y S S V T V M A E S S V D A D A M S V A A A S M P L P R L R E V M A S
UniRef90_I4VI21 L P L Q Q V I E Q C V V V I G T C A A D A D A L A T A L A A M P P A E G L A L T E A
UniRef90_N9C7Q7 Q S A H R L T E V V V T A P R A T D A D A L A T A L F V A G E D R A A Q V L A T
UniRef90_A0A024K6 Q S P V R H R A V S V S A P D A A L A D G L S T A L C L L P A D R I A P V L Q R
UniRef90_D0CP71 Q P M P V R K R V W A S A P T A A L S D A L S T A F A V M T R Q E T T A F C A R
UniRef90_UPI00017460AE A P
UniRef90_N8GKK9 Q P A G D L L S L S V V T R R A I D A D A L A T G L F V M G R D N A K R F A E
UniRef90_M5T6T1 S T R S S L M S C T A I A P S A M L A D A L S T S A F I L G T E K G V N L N N D
UniRef90_D5D9X3 R P V T S D V T A T V L A K D A M T A E V Y A K Y C V L L G V K A V A W L N K
UniRef90_A5WDA9 Y T T N S C I S V T I I A D T C M K A D A L A T S V F V M G P D D G M N L V E S
UniRef90_X1I348

UniRef90_A4WXF7 M G V R A V L M I T D D G S I L A T Q A M 290 300
UniRef90_UPI0003B390A2 S D D F D A I F I T E D G E V Y V T E G I E
UniRef90_TOP2G0 R K N L E Y V I F N N E K G E I E Y S K G F S N F
UniRef90_UPI000249079F A D N V Y G A I F I T K D K E I Q I
UniRef90_U1X532 R K P E L A Y V Q V R S D G S V H T G G N I E A Y
UniRef90_W8G5W0
UniRef90_C8WYR7 L P N T E A L L L D D E L R E T H T Q G W
UniRef90_U2RHH0 L N E I K V E G Y M I D E N G K I H Y S E G F L K Y
UniRef90_D1AFF6 L K D M Y L E G F L M D K A G K I H Y S D G F E K H I
UniRef90_D8K219 L P G V Q A L L I D K G M K R H T T
UniRef90_C6WR82 R G L H A R L V G E D G R V V E V G G W P A
UniRef90_K9CWV5 F P S A L A I M I G T D G K V
UniRef90_UPI00017443A N P E L Q M H V
UniRef90_UPI00024924F6 D D S L G F I F T T Q Q R Q V F V T K N L R
UniRef90_G1UUU5 L P G C A C C L L R R D G L A R V S G R W Q
UniRef90_UPI00047B404E H P E L K I Y I I Y E N E A Q E L Q T
UniRef90_F8KYB7 L E N P Q L H F W L L T T D G S S Y M T
UniRef90_W0RSQ2 L P G A Q L A R I I
UniRef90_UPI0002F17E1E
UniRef90_K4UMG1 N N I Q A F I
UniRef90_K0NIG9 K N R L G A V Y V Y N D E
UniRef90_R4TD48 R P G C Q V L I I D A D R Q V H R S P G L R L
UniRef90_K2ABC9 R K N I A C A I L D Y R G N V L L S P T I K N F L
UniRef90_U2QN91 L R R D S G E M I A V R E D G T V A A S P G
UniRef90_UPI00045E68BF L H G S G L P F L C C Q S N G R L
UniRef90_A7BV68 Q D
UniRef90_K6E0K0 L N V K G M L I T P N L Q I V K A G G F Q
UniRef90_I0X695 C Q D Y D F E I I L L C K D Y S A V I S E G I E K
UniRef90_D1PJA6 A E G Y E A L W M Y P D G S T T Q S D G W
UniRef90_UPI00037F11C2 H P Q A R W L L V N Q G
UniRef90_R7HHE2 T S D I E A I W Y I D K D N I V R S D N F N
UniRef90_H0SNT7 F Q A S A M L V A A D G N I L T T S D W Q
UniRef90_UPI0003603959 H P H V I Q A L L V D S Q Q Q V T S T A A L
UniRef90_B8R8U5 R P G L R V R L L P S D G D
UniRef90_E7G8N0 L D G V E A I W L L D D G K I K M S S G L K
UniRef90_I7KQ16 V N R I G A V F V Y A D E
UniRef90_UPI0004789113 L P G V E A M F V I G G K E K E M E F T S G F P K P E
UniRef90_K6YYQ8
UniRef90_F8DRG7 P G N R G A I F I H N D E
UniRef90_L1N0S9 V P S A L V I L I G T D G R L
UniRef90_M5ISW5 D P S L Q A W V L
UniRef90_A0NZK2 F P A T R A F V V
UniRef90_N1M3G8 A P H L G A V A L V L T A D R Q Q H R S V N W S E F E
UniRef90_W8AN79 G T A L P A R L T S L D G I V V R L G D W P P
UniRef90_A4SE98 D T T V A F I L I D S T G T I K K S P N L S R F I E E
UniRef90_Q3ZW54 L D G Q K P C L L A K T
UniRef90_E0IE31 R A P C Y E A L L V D H A G N V T
UniRef90_A0A059FS56 H G L A A L F Q F R N Q
UniRef90_HOT1M3 L A R Y G A S A L L V A P N G D I L R T A D W Q
UniRef90_K4R0I3 R P G C Q V I F A V D A E R R V L R T E G V P
UniRef90_R5BY49 L D G V E A Y L I C S D G T W K S D G F N L
UniRef90_Q15YD5 Q Q K H W C Y W
UniRef90_UPI00036078E3
UniRef90_B5JEV0 R S L A A L F Q T K N G F L L S S Q A
UniRef90_A7NFX5 R P W L A S L I V T D A Q E V L H T A T F E Q F
UniRef90_Q5FI41 P D R I G A V F V Y N D E
UniRef90_UPI00047B9CDB L Q E Y E V S G F L V D Q D N N I T Y T E D F R K N I K E
UniRef90_E0P1H9 I P G A Q L I L I G T D G H V
UniRef90_G8P5H5 H P E V Y G A I F I S K N K K I K T
UniRef90_Q9Z8K2 H H
UniRef90_Q89XJ4 R P D V Q V R L I T N D G N L R L Y
UniRef90_M4ZN29 H F K A S A M L I A T N G D I Q T T S N W Q
UniRef90_A9D201 N G I S A L F L N Q D G D G R E T M T V D F D R H I
UniRef90_L0W848
UniRef90_D3AF20 L R E R E
UniRef90_Q254F6 N N I E A F I
UniRef90_J9FHM5
UniRef90_K1LTR9 F P N Y
UniRef90_UPI000376549E R P A P H A Y A L T A S G R A W A T P G W H L
UniRef90_S6B5G4 A G G T K A I Y V T P E G V V
UniRef90_S3T8V6 L V I G F E A Q L V A S D G T S Y Q S T G W
UniRef90_X0W4U1 L P Q V I E G M I V S E G M K R I T S K G W A H F Q
UniRef90_I0WSB4 L G L P A R F V T W D R A V R T V G A W P
UniRef90_UPI0004722EC1 F E Y D E V V V V T F S S G A S I Q K
UniRef90_UPI00036B50FA P Q W A V D V L V V D K S G R W Q A T P G L
UniRef90_K2FSH9 N R I K S I F L K N D K K I I K S K R L
UniRef90_W2BTE5 T P Q I D C L F M T L D G R F L A S P N L
UniRef90_B1MVA6 N S D Y P F G A I F I Y R D Q S I
UniRef90_W9V9A8 M G V D Q A L L I D R E G R V H L T P A L D A R I Q
UniRef90_C6SL22
UniRef90_Q21BK4 A R A A G V E A L F V A R E
UniRef90_M1Z2Q2 N F P H L A Y I L F D Q E N R M I I S N N L E K Y A K K
UniRef90_I4VI21 R N N Q W L V F P R D N R T S W R S R D L P Q
UniRef90_N9C7Q7 L A G Y E A K L T M R S G A S Y Q S A G W N G L L Q R
UniRef90_A0A024K6 V P G A R A L L T R T D G T V V R
UniRef90_D0CP71 F P D A R L E M L I
UniRef90_UPI00017460AE H L E V E A I W
UniRef90_N8GKK9
UniRef90_M5T6T1
UniRef90_D5D9X3 A D I G G V L F
UniRef90_A5WDA9 H H I A A L L I D R D N K V M V T S A M R P
UniRef90_X1I348 L K D V E A L I I D S G R K V T K S S G L L E Y I K

1 10 20 30 40
UniRef90_UPI0003775DBB D D Q A M E A S A R R C I E E R R I E
UniRef90_UPI0003826DA2 F A F D A I G T R W E I E T P D V L S E G L R G Q T L E R A E G F D
UniRef90_UPI00046A6C10 E W R F E A I G T G W E I E T G A P L T D D V R A A V T A E I E R F D
UniRef90_X1G443 R Y E T M L S V I G T D A R L E A V A N K S H A R R M F Q Q A V E Q M R M V E
UniRef90_UPI000418FBE1 R L L R F R F R A M N T D V E V Q L J A A G R E E A E H A A A L V K N W F E T Q E
UniRef90_C7QIC1 R H V E P A M G T V F S I V A D V G D G I P A A V A R L H A I D
UniRef90_UPI00047668A8 T W R G T A L G S A A R I T L A H P Q A D S L F A G I E A R L N R L E
UniRef90_L0H0W0 V Q T T A F L A F G A S A D L R L V G E D A A A E A I T D E I Q R D F A F M D
UniRef90_C2D144 A E Q L D A T N R L T A Y Y E
UniRef90_E3D1X0 W K G V A L G S G A E L R L F G D N R Q A A D L V N K V L A E V A R L E
UniRef90_R9IT81
UniRef90_K2ENG0 S K K F E M L G T D L D L K I P G Q K A K A E K A L A E A F D L Y A Q A E
UniRef90_A8LLZ2 R W Q G T A L G A D A S A Q L V G D P A S A S D I L V G L Q R E L R R L E
UniRef90_C3J9R3 Y I S E M G E V F H T L Y H M K Y A A D S S A H L I E V E Q A L H E L N
UniRef90_K2FLD1 E I F K S K F K A L G T I D Y R E T Q L V V S L E K D A E K A K N D L E L Y L K F E
UniRef90_Q9PKW2 F E G V R M T I P Y R V V L G E T L S Q K K Q A K E I D Q I F D H I E D
UniRef90_C7NEM8 Q P A S V T F P A L G T S V S V V C T S R E V L A D A V S V V R T R L S E L D
UniRef90_H6N4Z2 K Q Y Q A T F L V F D T V T V M G Y A E S Q E D A E M A H D L L L E Y H Q L Y
UniRef90_U2R3Y5 S T S F P A L G S E I T V A V T E P A R L D Q V V G H V R A C V D L V D
UniRef90_D1C1S5 L G T L V D I A A D G E Q Q A A S Q A I S Q A F A G V A L V H
UniRef90_UPI0003778743 G Y T M G T W K V K I I N N R L T Y N L K K K I E K Q L C Y D N
UniRef90_Q89AP6 K I Y T A S F E S F G T Y C C V K I F A K N P S Q D E T L E E V K T L L E E T D
UniRef90_R7K5M6 W Q D T F Y T M D T V V T L T L P E S D A N A T R K S L E A L S
UniRef90_D4LD68 E L L T R T K I I M E T Y I T V K L P E D R K L F E P A F E I L F K D I D
UniRef90_C0QQV6 V I F N F G F K A M G S P C S V Q L A D S P A I A E S V Y Q S V I A R I A E L E
UniRef90_F9ZYS6 T W R G T A L G A V A T M E I H D E D R S A E R L I S L A C A E A R R L E
UniRef90_UPI00036C8AF0 W G F E A L G T V W E I T T D R P L S E R R A R A V G A E L D R I D
UniRef90_H6N4X1 Q R W R F E A T G T C W Q V L S A A P L P P A L R D R I V S L V D A F E
UniRef90_UPI00047DF27E Y E W T G T A M G A A A R I L L N M P R A D A R G I I D L V E A E I E R L E
UniRef90_M5A1Q5 Y F F M E G R A L G V F Y S L S Y L G D A E L E N S L D S I L V F D
UniRef90_R7ZW36
UniRef90_V5AY75 Y V R R A Y M A M D T R I D F M A A W R E G A R E E D L V R A L D D V F Y E V E
UniRef90_F8IK81 M G T V F S F D L R D P V T R P H R A L E E A V A W L H V D
UniRef90_G2P5V4 R R E R T L M Q T S V I A V T C L S D D V Q A A E A I E A A F A R M A T T A
UniRef90_I4WU39 H A L G T S I V L Q I L V P K D D I I Q K S F E L I D H Y E
UniRef90_UPI00046A0148 Q Y N T R S F Y E M G T I V N I T L G S K N D Y I I N E L N R K M
UniRef90_F8E872
UniRef90_V2IZW1
UniRef90_UPI0003740D38 H R V E H V M G F P V S L R A D D E S V P E S A A D T V F A W L R E V D
UniRef90_A0A017HL66 R D R R I A L G A E A E L T L Y G P P D L T A R A Q A R A W A L D R I E
UniRef90_K2NXE2 F I S R K Y Q G L G T V I E L S V R T D K V K D V E K L D Q A Y E E L K K Y E
UniRef90_R6G1P9
UniRef90_D0D1T1 M E L V I H G E G S A A R E A T A E V G A L F Q T L Y
UniRef90_R7GSL6 S N T L Y V M D T I C T I T A P E S L Q E P L A E T M R Q L D
UniRef90_W7DDK0
UniRef90_W9DK86 V H D W V F D A I G T R W T V T T P A P L P D D V V D A V R A E I D R I D
UniRef90_B3W8F3 K R L R A L G T N I V L S V F G E Q D N S A L V A A E L L I R Q Q E
UniRef90_W7QAK6
UniRef90_D0KY43 Q I V E E G F T V F N M P M T L R F A N E S P K A T Q T V N A A A G I V E P L Y
UniRef90_L7EW97 R F A F D A I G T H W T I D T A H H L T A D L R R H V L A R I D A Y D
UniRef90_UPI00046AE363 V I D D P A A L T A A R R I A D A E L T A A T
UniRef90_Q4EMN1
UniRef90_S3Y4E4 M G T I A E V I V L G G H R R E L L A A C A R E L G I C E
UniRef90_W0ZDT7 T W E F D A I G T H W R I D T V D E L P G D A R A A A D R V I G A F D
UniRef90_A1B9T4 H W V G Q A L G A R S I R I D H P E A G A I T A R C L A E I D R L E
UniRef90_W71X38 R A E F P V W G T T A V L V V T D P T R L R T A T A L L R A H L A E V D
UniRef90_I3ZER0 V L G T S L D M N V A A S K T Q A H A A E A A A L A E F D R Q S
UniRef90_A0A059IR90 M E T T D
UniRef90_A0A021XFF8 R W R G R A L G A P A E M I L H H P D A Q A E R L I R R V V V E I D R L E
UniRef90_A8KYD6 S H A E P V M G T V V S I D V R S D A V G L D A A I G A A V R V L H R V D
UniRef90_D2R9D1 R I T R N I A A M G T L F E L L L S D D T E L T D V A E A S I A E L K R V E
UniRef90_UPI0003823A91 T A Q W P V W G T T A R I V V T D P S R L P E A T E L V R S E L A A V D
UniRef90_D9X7M3 M G T V F S F D L R D A P T R A R H A L D R A V A W L H Q V D
UniRef90_R7PS50 T I Y G G I M G T F L K V I T Q Y G K P H K K V A D K V S D Y F Q K I E
UniRef90_UPI0002E17C8C R R V E E T M G T V F S F D V R G G E P A A V R A A L E E A A E L R V D
UniRef90_UPI000364F09A F S F D G I G T R W E I S T P D Q L A P V L T G E L L A A V E A Y D
UniRef90_B7S200 H R K R I H C F G S C Q L T I D T L P G E A D A L V S I A T A E L S R L E
UniRef90_S4NKE8 R L H H L E H V M G T V F S F D I R D Q P T P A H R A L A H A V R A L H T V D
UniRef90_T5KQF7 S W R F E A I G T S W E I T E T P L P E S A R A A V T A E I D R F D
UniRef90_W0E7Z7 T T R L Q A F G S L D L T L V G A P E Q A T R A R A E L A E D F A F R T
UniRef90_S7W0T7 S H R F D A I G A P W Q I D T D Q P L T S G S E A A L H A R I D E F D
UniRef90_V7EKN8 V H R W Q G I A L G A K A T L R L S H P Q A E A V T A R A A E I A R L E
UniRef90_UPI000364CE9F S C T M R V T A A R R D L D L A V T L V D H V I A E V D
UniRef90_UPI00035E8380 R Q V Q L M G T T I D T S I Y H A N P Q P L D Q V E E L L H L Y N
UniRef90_B5SGW4 R R A R P L L G T L V D T A R G P D T V L Q A A L D A A F A A I E R V Q
UniRef90_E0USB8 Q M T Q R S K V M M G T F V S V S V E R G H K E L I K Q S F E L I K G V E
UniRef90_W0P2C3 F K G K T M G T Y W Q V K I P D L K N K K Y I K S L T K K C L D K D E
UniRef90_UPI000287FF71 H R V E H V M G F P V S L R I D D E E V P G G L G D A V F D W L R E V D
UniRef90_D3RVN8 R F T A F E T P V S D V S L V A T R D Q A E R A T L V A Q D F A C L E
UniRef90_UPI0003FEBEA9 G N T L D A E Y R I T Y L D Q E N R V F K S S I D S L F N A F S
UniRef90_A3VCT4 R W Q G P A L G T L A E V R L V G I E T P G P T E A A I E A E L G R I D
UniRef90_M3UQ19 H D W V F E A I G T R W E I T P P P L A P V V A A V G A E I E R I D
UniRef90_Q988S2 R D T R L L M G M P I T V D I G G T S T D D L I D T V F G Y F E H I D
UniRef90_NOAVU0 H S F R A M N T K I S T H G L P T V A A E K V I E S M F H F T E
UniRef90_D4VSW7 H I L M G T R F D I L L I H S D A E R L N L W C H I I N E L R L D
UniRef90_E6SJZ1 E L L R L N F R A M D S D V E V L V E V P P T E A R R L L A W T R R W F V L L E
UniRef90_I0HQH7 H E S R V L M G T R I D T V V D D P A R R A A A L A A A W R M E A D A
UniRef90_I8T8D6 R R N F L A M G T E I T V T L A P Q R R G Q F R S V K R A M T E K I L L
UniRef90_R7MLQ9 K Y E T K D I Y V M D T L C S I K A E K K S V S E L T D V L N K F N
UniRef90_K2AGB4 V Y Q W R G L A I G A E A S I L V Q H P Q A E A L V A R A V A E V A R L E
UniRef90_L7KNH3 R V Y S L S L R A I G T H V R L L T P D A T V L D A A R V M L A D R E S L D
UniRef90_W0DG16 Q E K V F H L M G T Y A I I D L P S E K A Y Q A Y R F M K G L E

	50	60	70	80
UniRef90_UPI0003775DBB	H	K	Y	S
UniRef90_UPI0003826DA2	A	V	Y	S
UniRef90_UPI00046A6C10	R	L	W	S
UniRef90_X1G443	L	R	M	S
UniRef90_UPI000418FBE1	Q	R	F	S
UniRef90_C7QIC1	A	K	F	S
UniRef90_UPI00047668A8	N	I	F	S
UniRef90_L0H0W0	T	R	W	S
UniRef90_C2D144	N	L	L	T
UniRef90_E3D1X0	K	M	F	S
UniRef90_R9IT81	K	K	F	S
UniRef90_K2ENG0	T	L	F	S
UniRef90_A8LLZ2	Y	T	A	N
UniRef90_C3J9R3	K	L	F	S
UniRef90_K2FLD1	Q	L	F	S
UniRef90_Q9PKW2	E	K	Y	N
UniRef90_C7NEM8	R	A	A	S
UniRef90_H6N4Z2	D	I	Y	N
UniRef90_U2R3Y5	R	T	L	S
UniRef90_D1C1S5	R	Q	L	M
UniRef90_UPI0003778743	N	Q	I	S
UniRef90_Q89AP6	C	A	L	S
UniRef90_R7K5M6	Q	Q	L	N
UniRef90_D4LD68	R	K	L	S
UniRef90_C0QQV6	R	R	Y	S
UniRef90_F9ZYS6	R	Q	F	S
UniRef90_UPI00036C8AF0	R	F	W	S
UniRef90_H6N4X1	G	V	W	S
UniRef90_UPI00047DF27E	T	L	L	S
UniRef90_M5A1Q5	Q	T	L	N
UniRef90_R7ZW36	A	V	A	T
UniRef90_V5AY75	A	V	A	T
UniRef90_F8IK81	E	V	A	T
UniRef90_G2P5V4	A	E	L	T
UniRef90_I4WU39	D	L	L	T
UniRef90_UPI00046A0148	K	S	W	E
UniRef90_F8E872	R	D	W	H
UniRef90_V2IZW1	A	R	F	S
UniRef90_UPI0003740D38	S	V	F	S
UniRef90_A0A017HL66	D	L	F	T
UniRef90_K2NXC2	R	D	W	H
UniRef90_R6G1P9	D	Q	L	D
UniRef90_D0D1T1	L	A	W	S
UniRef90_R7GSL6	S	R	L	T
UniRef90_W7DDK0	R	R	I	H
UniRef90_W9DK86	R	T	W	S
UniRef90_B3W8F3	A	V	C	S
UniRef90_W7QAK6	A	V	C	S
UniRef90_DOKY43	R	R	I	H
UniRef90_L7EW97	R	T	W	S
UniRef90_UPI00046AE363	A	V	C	S
UniRef90_Q4EMN1	S	L	L	S
UniRef90_S3Y4E4	S	A	W	S
UniRef90_W0ZDT7	N	I	L	S
UniRef90_A1B9T4	L	A	C	S
UniRef90_W71X38	K	L	S	R
UniRef90_I3ZER0	A	A	M	S
UniRef90_A0A059IR90	R	I	F	S
UniRef90_A0A021XFF8	E	D	F	S
UniRef90_A8KYD6	Q	L	I	S
UniRef90_D2R9D1	A	A	C	S
UniRef90_UPI0003823A91	E	V	F	S
UniRef90_D9X7M3	H	V	C	S
UniRef90_R7PS50	Q	V	F	S
UniRef90_UPI0002E17C8C	K	T	W	S
UniRef90_UPI000364F09A	H	K	F	S
UniRef90_B7S200	A	V	F	S
UniRef90_S4NKE8	R	E	W	S
UniRef90_T5KQF7	R	A	W	P
UniRef90_W0E7Z7	R	T	Y	S
UniRef90_S7W0T7	D	L	F	S
UniRef90_V7EKN8	A	A	V	S
UniRef90_UPI000364CE9F	H	R	F	S
UniRef90_UPI00035E8380	R	L	M	S
UniRef90_B5SGW4	S	S	L	S
UniRef90_E0USB8	K	M	L	S
UniRef90_W0P2C3	K	E	R	F
UniRef90_UPI000287FF71	R	D	W	A
UniRef90_D3RVN8	L	S	I	S
UniRef90_UPI0003FEBEA9	R	L	F	S
UniRef90_A3VCT4	R	A	W	S
UniRef90_M3UQ19	R	R	F	S
UniRef90_Q988S2	E	K	L	S
UniRef90_NOAVU0	K	L	N	R
UniRef90_D4VSW7	H	R	L	S
UniRef90_E6SJZ1	A	R	W	S
UniRef90_I0HQH7	R	N	F	G
UniRef90_I8T8D6	I	A	F	D
UniRef90_R7MLQ9	G	V	L	S
UniRef90_K2AGB4	R	V	A	S
UniRef90_L7KNH3	E	K	L	S
UniRef90_W0DG16	E	K	L	S

UniRef90_UPI0003775DBB E M S D G L F D I T S G V L R Q A W 100 D F R G G T P P D P E H V E A L L P
UniRef90_UPI0003826DA2 A L T G G A M D P L V G R D L E L L G Y D P D Y S L T P A S R T E R A A H A R T
UniRef90_UPI00046A6C10 A A T A G A V N P L V A D S L E A L L G Y D A A Y S L R A G E P R
UniRef90_X1G443 K L T G G A F D P T V Y A P L R L T W R R A Q Q E D R L P G A D A I E E V L A
UniRef90_UPI000418FBE1 G Q T E G L F Q P G I S Q A L R A S G Y D V S F E Q L Q L R Q S D I T D M L R D
UniRef90_C7QIC1 A D T A G A F T A Y P A
UniRef90_UPI00047668A8 R A T D G A F D P T V Q P L W A A Y A Q A S V E G R T P D A D E L A G R L A
UniRef90_L0H0W0 E Q S G G L L N L A T G R L A A L W G F H A S Q Q G G P P S A A A I R E L I E
UniRef90_C2D144 R Q H F G F N A T I G P L V K L W K I G F K G A N V P S E S A I K E K L A
UniRef90_E3D1X0 A L T G G A F D P T V Q A L W K L Y A D Y F A A H P D T P P Q N S V D E A L K
UniRef90_R9IT81
UniRef90_K2ENG0 K Q T D G Y F D P R I L S A L E N F G Y T D D F G K N D F A G K H S D F N E S Y
UniRef90_A8LLZ2 R G T G G A F D P T T Q P L F A T F A Q A A A A G R T P S G D E V A R A R A
UniRef90_C3J9R3 R L S G G F Y D V T V A P L V N A W G F G F S P S P W K E V P A S A I D S I L S
UniRef90_K2FLD1 H Q C G K F D P R V T D L N N I G Y Y E S F H S K N F F K G K K F L E N
UniRef90_Q9PKW2 T F S D G R F D P T L G A L K N L W L L H L K S Q T L P P Q E L L H S Y K Q
UniRef90_C7NEM8 K I T I G G E Y D I T I M P L I R L W G F Y K Q N P I L P S L D K I K K A K R
UniRef90_H6N4Z2 Q L T D G L V C A S L G A E L V A C G Y D E D F A A V R A R S T A A V A V S T G
UniRef90_U2R3Y5 A D S G G K V N A A M G S A L L L W H E A N D P E H A Y L P E E D A I Q A L E
UniRef90_D1C1S5 A A S N G L F D P T I R D A L E A A G Y D R S I E R I E A E G P G P A R L P R P
UniRef90_UPI0003778743 E L S Q G L E N I A C A P R L V E W R C L P R P G D A Q L P P
UniRef90_Q89AP6 K K T N N L L D I T S G T L I N I W G F G P T S R K H S I P S K K T I K L A Q M
UniRef90_R7K5M6 E A S D G L F D P T A A A S V D L W G M P Y D R E E G V L P E Q R Y V E A F A E
UniRef90_D4LD68 D R F G T G V Q L S S G A L S R L W G I T S E H P R V P T D A D R L A A L E T
UniRef90_C0QV6 K E T E G Y F D I T V G K I T S D L F R F G F D D E R V P E E K D L E V Y
UniRef90_F9ZYS6 K E S G G L F D V T S G V L R H L W N F E S I G I P G K Q E L T D V L P
UniRef90_UPI00036C8AF0 T L T G G L F D V T V Q L W E L Y A S H F A R D D A D P A G P A A A A I E A A
UniRef90_H6N4X1 D A T G G A V T P L V G Q L L W D D A G S D A D Y S L T P D R T V
UniRef90_UPI00047DF27E R A T D G R I D P L V G A D L V E L G Y D P G Y S F T V H D G A V F R V G A I R
UniRef90_M5A1Q5 R L T D G L F D P T V Q A L W E A H D W F R D Q D H T T L P P D G V I A S A R R
UniRef90_R7ZW36 D T Y Q G A V N H F I L P L I T A W G Q D F S N K R L I T D E R I A E L I A
UniRef90_V5AY75 M P S S A F N L A I G P L V K L W R I G F K G D R V P D A D A I A R L R
UniRef90_F8IK81 E W T G G R F D P A C G H R L A A L G F D R D Y Q T G E R L A W P E C S P
UniRef90_G2P5V4 H T T G G
UniRef90_I4WU39 A L T G G A F D V T V L P V L R Y F E T L R G V A G T D A R E Q R V A E D R D A
UniRef90_UPI00046A0148 R K N Y G F N A L I G P V V K L W H I G F K G A H V P T D D Q I K E K M K
UniRef90_F8E872 K L S N G K F D I T L A T I N S L Y G F P E G P F R I P D N E T I K N K S D
UniRef90_V2IZW1
UniRef90_UPI0003740D38 K A T G G A F D V R L
UniRef90_A0A017HL66 E A T E G R F D P T V Q P L W L L A L A N G A D P E P A R R
UniRef90_K2NXE2 Q E H F G F N A S V G P L V D L W R I G F S D A R L P S D R E I Q E A L R
UniRef90_R6G1P9
UniRef90_D0D1T1 C Q S G G R F D P A I G A L V A L W G F H E D P P E G E M P D A A A V A A L T A
UniRef90_R7GSL6 Q Q D G V K V D V T I G A L T A L W G I T T D H P K V P T A A Q R Q Q A L A
UniRef90_W7DDK0
UniRef90_W9DK86 R L T R G A V T P L V G Q T L A D A G Y D A D Y T L R P A A R V A G I
UniRef90_B3W8F3 Q K H F G F N A L I G P L V K L W K I G F N G A N V P S D H D I K S R L L
UniRef90_W7QAQ6 R E A R P R E I P D E E T L N E R L A
UniRef90_D0KY43 E G T D G A F D P T I G A L T A A W G F H N S H V T H P L P T E A F L D A W L E
UniRef90_L7EW97 E L T D G A V D P L V G R D L E L L G Y D A D Y T L T P A S A P E R A A H Q
UniRef90_UPI00046AE363 A D T D G A V D P T L G A D L E A L G Y D R D F A E L P V P D A G V S L S L R R
UniRef90_Q4EMN1
UniRef90_S3Y4E4 T A S C G A F T P L I G A L V E S W D V K G W G A R W H P P D P A V V Q Q A R R
UniRef90_W0ZDT7 L A T S G A V N P L V G A S L D R L G Y D A T Y S L R A G D P L A
UniRef90_A1B9T4 R A S G G L F D P T V Q P L W S L W A E A A V N G R R P T P E E R R D A L A
UniRef90_W71X38 R L T G G L V D P T V G T A L R A H G Y D R D F A A V A A D D P R P I G V R R V
UniRef90_I3ZER0 G E T G G V L N A S S E A A A K V W R G A A K G A A P S S K D L D N A V H
UniRef90_A0A059IR90 A R T R G A F D P T L G G L V G R Y G F P I T G A P A
UniRef90_A0A021XFF8 A L S G G M F D P T V Q P L W L L H V R H F S T P D A D P P P R E S I E A V L A
UniRef90_A8KYD6 E Q T G G W F D P A W
UniRef90_D2R9D1 E T T G G A F D L T A S T P A S D Q P V P V S F A Q V S L D
UniRef90_UPI0003823A91 R E T G G A V D P T V G G A L C G L G Y D R D F A A L T G R R V A P A V R V
UniRef90_D9X7M3 R L T D G
UniRef90_R7PS50 K F T E G A F N P T I G V L S S L W N I G Q D N A G F P G E E A I K A A T K
UniRef90_UPI0002E17C8C R A S D G
UniRef90_UPI000364F09A R L S D G A M T P L I G S S L E R L L G Y D A S Y S L I P T G A A Q
UniRef90_B7S200 D E S H I F D P T T R L L L N C Y D D D G R L K A T D S Q V K A M L H
UniRef90_S4NKE8 H A S D G
UniRef90_T5KQF7 A A T G G A V N P L V A D S L A A L G Y D A D Y S L V P G D P V R
UniRef90_W0E7Z7 A Q S E G L Y N P A L G R L I T L W G F D R T P P Y A N P T Q G Q L E T L L T
UniRef90_S7W0T7 T A T S G A M S P L V G H A L E E L G Y D R T Y S L Q P S A T R S
UniRef90_V7EKN8 D V T S G G R F D P T V Q P L W Q A H A V A A S A G R A I T R A E R D R A L A V T
UniRef90_UPI000364CE9F R D T G G A I D P T L A A D L V A N G Y D A D I A D V R R R P A S P A V P R V R
UniRef90_UPI00035E8380 L A P G S H L N I A I G P L I Q T W R I G F A D A K V P S Q E E I E A Q L D
UniRef90_B5SGW4 E L S D G A F D I A T A G V L V E Q G F L P R H A G V R H P A P G V
UniRef90_E0USB8 N E T G G Y F D I A V G K I T K D L Y H F G E K E R V A S K E L Q K S S T
UniRef90_W0P2C3 R K T H G K L D V T I S S L I D I W G F G V H K K P N N Y P S I E K I K K N M L
UniRef90_UPI000287FF71 V A T G G A F D V R L
UniRef90_D3RVN8 S E S E G L V N L S I G R L V R L W G F D T A T T S R H P P E R E R I S D L V A
UniRef90_UPI0003FEBEA9 D L S N G A L D P S Q K P I E D V W T F S P S G A R L L D S T D I R S I L P
UniRef90_A3VCT4 H A T E G A F D P T V Q P M E A L Y A K A A A E G R A A Q A G D I E T V Q H
UniRef90_M3UQ19 D L T G G A V T P L V G G T L A A A G Y D A D Y A L R P A E S V P S V
UniRef90_Q988S2 D Q T D G Y F D I R
UniRef90_NOAVU0 Q K T S G I F N P Y I G K I I C E L G Y D K S F E M I Q T K R S R L Y N P N Q I
UniRef90_D4VSW7 E N T F H L F D I T
UniRef90_E6SJZ1 E W S G G L F D P A C V T A L K A S G Y D R P F A Q L L K P G A G R R D P Q P F
UniRef90_I0HQH7 E A T D G C F D P T V G A Y E D W H F G D G A E A R V P A A A R L A A Q R R M
UniRef90_I8T8D6 Q A S G G L F E P R V A S L V Y L W G F D S V E R I R N E P P P P D E I T A F R M
UniRef90_R7MLQ9 Q K Y G D E V L I S S G A L T L L W K D A K K N N I L P E E T Q I K T L I N K T
UniRef90_K2AGB4 A A T G G R F D P T V Q P L W A L Y A E K F S A G S A P T E A D I A A V L P
UniRef90_L7KNH3 S L T G G L V T P T V G N A L I A V G Y D A D I E V V R H R T E S A R S T D R P
UniRef90_W0DG16 E L T E G A F D I T V G A I T I R A K R L R E I S E D E A R N

UniRef90_UPI0003775DBB LVGWSKVRRSREEVGLSLIPGMELDFGGFGKEYATDRAAA160
UniRef90_UPI0003826DA2 RPAWHRDVKREEGTVLRTRRRPLVLDVVGAAAGKGGHLVLDLISA
UniRef90_UPI00046A6C10 APAASWTSLLTWSADTVGEAHGPPALLDDVGGALGKGRVLDLVMMA
UniRef90_X1G443 AVIGHTKLVFEESRVVGFAVPGMELDDDLGGGLVKGWAVERLAD
UniRef90_UPI000418FBE1 EYDYSRWLRQREGSRMVIHKDPPGTELDLGGGLVKGWAVERLAD
UniRef90_C7QIC1 GRLLDPSGWVVKGWALIEEADR
UniRef90_UPI00047668A8 LTWGP LVELEEA DA IRLTRK GAGLDTLNGI AQGYIADRIAA
UniRef90_L0H0W0 AA PQMSDLVITDGLLELRSTNPTAQLDLDLPIASGYGIDLALID
UniRef90_C2D144 LTNPDQTDNDQALSLIFLKKQSMGLDLSLNGIAQGYITDKVVA
UniRef90_E3D1X0 RVVGF GKVVSFD DREIRFAEKGMGLDLSLNGIAQGYITDKVVA
UniRef90_R9IT81 MI DLSGLVKGGYAGDEAAQ
UniRef90_K2ENG0 FQSKLEHDDIEIDTKNESALRKLIKRIL DLSGLVKGGYITDKVVA
UniRef90_A8LLZ2 AVGWHEHLRIEGLTDSVAFARPPGGQQLDLSLNGIAQGYITDKVVA
UniRef90_C3J9R3 FVGYDKVTRLRGDTLKKADPRMQQLDLSLNGIAQGYITDKVVA
UniRef90_K2FLD1 KPNEDLLEQDLKLENEKLLFFRKM DLSLNGIAQGYITDKVVA
UniRef90_Q9PKW2 NTGWHLLSL DKTNTHTLKKSPSVQGLDLSLNGIAQGYITDKVVA
UniRef90_C7NEM8 LVDYKKIITDKKRNRIKIEKNQETITGSGFKAAYAIKIVE
UniRef90_H6N4Z2 PQQNQRMSFDERNDELSLAAGSTLDLGS SAKAWAADALVD
UniRef90_U2R3Y5 HTSFDNVVLDDEAATVYLTDP AQRLD DVLGAVAKGYA
UniRef90_D1C1S5 GGGWTGIRVDRANRTVITLPPGVRLD FGGI GIKGLLVDLALR
UniRef90_UPI0003778743 YQPALAVYRCEEREPLVVRKLAHGWV DLSLNGIAQGYITDKVVA
UniRef90_Q89AP6 LITGLNHIKLLINKKQQYVLRKQDITQV DLSLNGIAQGYITDKVVA
UniRef90_R7K5M6 LIDFSAVEFEDEF LIKP SKFGVMLDLSLNGIAQGYITDKVVA
UniRef90_D4LD68 LGGDRIRLDRSGITLPAADMQLD DLSLNGIAQGYITDKVVA
UniRef90_C0QQV6 KRPRDPCSGIRLIRKGSYVEIDKDKL DLSLNGIAQGYITDKVVA
UniRef90_F9ZYS6 LITGWKKVQWD EQSSVYLP HCGMEL DFGGI VIKKEYAADAAA
UniRef90_UPI00036C8AF0 LARLIGSRLSISRDRIVMPPKGMALV DLSLNGIAQGYITDKVVA
UniRef90_H6N4X1 PAPA WDDVLDWDGNELVVVRTPVL DLSLNGIAQGYITDKVVA
UniRef90_UPI00047DF27E GRATWAE TAR HDGDRRLRLTRPALL DLSLNGIAQGYITDKVVA
UniRef90_M5A1Q5 LYNWRKVQVAPD VLR LGE GQRIT DLSLNGIAQGYITDKVVA
UniRef90_R7ZW36 LICQPENFELT PDIYAKAKKEGVMI DLSLNGIAQGYITDKVVA
UniRef90_V5AY75 LITRVIQDVLD DAAGSVFLAQA GMEI DLSLNGIAQGYITDKVVA
UniRef90_F8IK81 DATFRDVLDDP ARQAVRTRRPLLL DLSLNGIAQGYITDKVVA
UniRef90_G2P5V4 WFSHT PGGRL DLSLNGIAQGYITDKVVA
UniRef90_I4WU39 LVGYRDVLVD ARGVRLRLRPGMAIT DLSLNGIAQGYITDKVVA
UniRef90_UPI00046A0148 LIDPMNVENDQDQTSVFLTKKNMEL DLSLNGIAQGYITDKVVA
UniRef90_F8E872 DVVGF SNL VFDKTSLSKKTETKI DLSLNGIAQGYITDKVVA
UniRef90_V2IZW1 QGRRARQP GGVSIL DLSLNGIAQGYITDKVVA
UniRef90_UPI0003740D38 PGGRRLL DLSLNGIAQGYITDKVVA
UniRef90_A0A017HL66 LIGWDGVITITEAA ITLRLR PGQAL DLSLNGIAQGYITDKVVA
UniRef90_K2NXE2 LIS PDEI VLDDSKKS VFLPEKMSL DLSLNGIAQGYITDKVVA
UniRef90_R6G1P9 YIE DQCT DLSLNGIAQGYITDKVVA
UniRef90_D0D1T1 CAPRMSDLRF DGD TVGSVNP AVVQR DLSLNGIAQGYITDKVVA
UniRef90_R7GSL6 T VSP EHV TTKDGT VLSLGG AQL DLSLNGIAQGYITDKVVA
UniRef90_W7DDK0 MEI DLSLNGIAQGYITDKVVA
UniRef90_W9DK86 PGWDEVIAG HDGAL ELRQP ALL DLSLNGIAQGYITDKVVA
UniRef90_B3W8F3 LSNPDNIIMDDA HTV KLVKT GMEI DLSLNGIAQGYITDKVVA
UniRef90_W7QAQ6 QVGPDSIIEVDENGLQARRLRDVVFV DLSLNGIAQGYITDKVVA
UniRef90_D0KY43 HRPTMNDVHVVDGLEVSVTRNRVQV DLSLNGIAQGYITDKVVA
UniRef90_L7EW97 RRTWARDITRHG AITLITRGV LIT DLSLNGIAQGYITDKVVA
UniRef90_UPI00046AE363 PRRAGWRRT RLEDQGRHLPLPGLRL DLSLNGIAQGYITDKVVA
UniRef90_Q4EMN1 MNDKDQTVYLEK EGMEL DLSLNGIAQGYITDKVVA
UniRef90_S3Y4E4 RTDP GLELEGA GGRWR LGDGAQL DLSLNGIAQGYITDKVVA
UniRef90_W0ZDT7 APSNWPTRVWRDERLALAE PAMIT DLSLNGIAQGYITDKVVA
UniRef90_A1B9T4 RTGWDRVRLDAAR ITLEPGMAL DLSLNGIAQGYITDKVVA
UniRef90_W71X38 PGWHLHLDEGRREVL LPRGVHL DLSLNGIAQGYITDKVVA
UniRef90_I3ZER0 AMAQKHWSLDRVHGATRLSDAPLV DLSLNGIAQGYITDKVVA
UniRef90_A0A059IR90 GAFRDLELRADGARKAHPRQTL DLSLNGIAQGYITDKVVA
UniRef90_A0A021XFF8 RTGFEHVAFD RNRIFA FRPRMGL DLSLNGIAQGYITDKVVA
UniRef90_A8KYD6 RGDGTL DLSLNGIAQGYITDKVVA
UniRef90_D2R9D1 D V HRRVAFSRS D V K L DLSLNGIAQGYITDKVVA
UniRef90_UPI0003823A91 FATPDWRA VRLRGL ELITV DGVLL DLSLNGIAQGYITDKVVA
UniRef90_D9X7M3 WFSRAPGGRL DLSLNGIAQGYITDKVVA
UniRef90_R7PS50 LV D I E A L E I K N H S V F L K K K G M S I DLSLNGIAQGYITDKVVA
UniRef90_UPI0002E17C8C WFSSTFRGRL DLSLNGIAQGYITDKVVA
UniRef90_UPI000364F09A APPRWE D V L E W T G T M T A R E P L V V DLSLNGIAQGYITDKVVA
UniRef90_B7S200 LVGWSQL ELTH QGALLP KGM L DLSLNGIAQGYITDKVVA
UniRef90_S4NKE8 WFSITPDGSL DLSLNGIAQGYITDKVVA
UniRef90_T5KQF7 APGAWEQD VSWDT DTVTASAPALL DLSLNGIAQGYITDKVVA
UniRef90_W0E7Z7 STPRI DQVLEWDTGIEIRVADPRIQL DLSLNGIAQGYITDKVVA
UniRef90_S7W0T7 RVLPQWQEAISWNGSELTTLT PALL DLSLNGIAQGYITDKVVA
UniRef90_V7EKN8 GWWDVQVA PDRITL R PGMAL DLSLNGIAQGYITDKVVA
UniRef90_UPI000364CE9F RHSWRDRI DRAFSLVGLR PAVGL DLSLNGIAQGYITDKVVA
UniRef90_UPI00035E8380 LITDPKQVILISDEKNLSVFAKTGMKI DLSLNGIAQGYITDKVVA
UniRef90_B5SGW4 TFRDLILQAGHRVYQWRKQWIDLSLNGIAQGYITDKVVA
UniRef90_E0USB8 S I G L V F D K S T A Y I N N T I K I DLSLNGIAQGYITDKVVA
UniRef90_W0P2C3 LITGSQH L K I I K N S F G I K D I N G I K L NLSLNGIAQGYITDKVVA
UniRef90_UPI000287FF71 PGRDFDLSLNGIAQGYITDKVVA
UniRef90_D3RVN8 AAPSMSAITITIEGLTLRGSNPTLSL DLSLNGIAQGYITDKVVA
UniRef90_UPI0003FEBEA9 YVIG LKKISVITDTLIRKSTTGIFL DLSLNGIAQGYITDKVVA
UniRef90_A3VCT4 AVGFDRVTFDAQAVRFLRPPGMAM T L N G I A Q G Y I T D R I A A
UniRef90_M3UQ19 PAWDDVIAAG HDGVL ELR P ALL DLSLNGIAQGYITDKVVA
UniRef90_Q988S2 KPDGSL DLSLNGIAQGYITDKVVA
UniRef90_NOAVU0 ATEYSVIEI LNSR M K S I T L A N G I A V DLSLNGIAQGYITDKVVA
UniRef90_D4VSW7 LKDFYSKI QI HDHQRI SFASSTISV DLSLNGIAQGYITDKVVA
UniRef90_E6SJZ1 FGNYSRSLV LNR RAREVM L P A G T G L DLSLNGIAQGYITDKVVA
UniRef90_I0HQH7 VGF E H L E I R D A P R A R L A R S G M R L DLSLNGIAQGYITDKVVA
UniRef90_I8T8D6 QALARA PDYTPNADHYGAPN VVGW DLSLNGIAQGYITDKVVA
UniRef90_R7MLQ9 GDNLIETSE DGQS K I D L K Q N C E I D T G A F A K G Y S L D F C K S
UniRef90_K2AGB4 VVGVWDGVAFDSAAV RLR L G A A L DLSLNGIAQGYITDKVVA
UniRef90_L7KNH3 RGVDMGSECVLQGNLT VRSAGAAL DLSLNGIAQGYITDKVVA
UniRef90_W0DG16 LVVNYKK VIKVIEGSRVFL E E K G M A L DLSLNGIAQGYITDKVVA

UniRef90_UPI0003775DBB
UniRef90_UPI0003826DA2 F P F S G V R M H A D G R T E T
UniRef90_UPI00046A6C10 W G V E W V R M T T D G R V Q R S P G C Q A
UniRef90_X1G443
UniRef90_UPI000418FBE1 H Y D R H D V L W M T R E G S T Y
UniRef90_C7QIC1 R A G F E A Y A V L P D G T T V E T A G F A R Y L
UniRef90_UPI00047668A8 V P Q
UniRef90_L0H0W0 M G V S Q A L L F D R E G T A Q M T P D M A A
UniRef90_C2D144 R P D L Y G A V F V T R D R H V T I
UniRef90_E3D1X0 R Q
UniRef90_R9IT81 H R N Y E M I L L I M E D G D I Y L T E G I R
UniRef90_K2ENG0 K K K P F L M L Y Y S G G V F I S N L M L Q Y L Y E
UniRef90_A8LLZ2 F P G A R V E F
UniRef90_C3J9R3 I P S V E Y L L I V A S P R G E V R R S A N F P P D Q Q
UniRef90_K2FLD1 H D L P A L F L H Y N G N V S I S A K A K E F L
UniRef90_Q9PKW2 K H L C V Y I T D K N
UniRef90_C7NEM8 L K E M E I S G F L I D K D G E I F Y F N M E K Y
UniRef90_H6N4Z2 R G L P A C L V A T D N R V V L T P G W P
UniRef90_U2R3Y5 Y G A E A L W V Y A D G S A S W T G G C D A Y
UniRef90_D1C1S5 R G L A G R F R D R A G A V V T V G W P A
UniRef90_UPI0003778743 Q
UniRef90_Q89AP6 I Q E K L A V C L I K K N K S T L W T S P Q F K K F L
UniRef90_R7K5M6 L Q G L C G F A V L T S Q G G K
UniRef90_D4LD68 L H A A D Y Q V L A V D A A G K I Y Y S D G L Q
UniRef90_C0QQV6 R G I G Y I L F L D N N R V I L S K N I D S F V E D
UniRef90_F9ZYS6 C G L P F L C C R N N G R I E L S
UniRef90_UPI00036C8AF0 H V D L D R V H L I N G A G Q S I E L S
UniRef90_H6N4X1 V G S D I A G F V A I R G N G V V E H T P G L E L F
UniRef90_UPI00047DF27E R A G F H Y D F T L M R A D G S A V V S P D F
UniRef90_M5A1Q5 Q P R V I G R P A I W A T D T G R H H H W P A
UniRef90_R7ZW36 D P T L E G M I V F N E A G T Q T W R S K G F E L
UniRef90_V5AY75 R E D I E A L F V T K K R E V I L S S
UniRef90_F8IK81 A G A Q A K V W Y E D G T S V E T R G W R I H
UniRef90_G2P5V4 L D G H E A L G I T A T G E V W R T P G L P
UniRef90_I4WU39 R D H
UniRef90_UPI00046A0148 P D R I G A V F V Y N D E
UniRef90_F8E872
UniRef90_V2IZW1 R G I A A R M L L R T P R G F T E M S P A F A A M L
UniRef90_UPI0003740D38 L E G C E V F A V D A E R R V L R T P G F P A
UniRef90_A0A017HL66 L P G L R A T A V T R D G D
UniRef90_K2NXE2 S K I H G A I L I N K D R E V
UniRef90_R6G1P9 Y M G A E G I F I D Q N K K V T V T K G L K
UniRef90_D0D1T1 M G V D S V L M I A D D G T M L A T P A M
UniRef90_R7GSL6 L Q A T D Y Q V L A E D Q N G Q I Y V S N G L H F T K R
UniRef90_W7DDK0 Y K G V E A I F V S K E K K V Y L T S G L K
UniRef90_W9DK86 H H A E G F H H V T V R R N G S V E H T P G L E L F L
UniRef90_B3W8F3 P N N L G A V F I Y
UniRef90_W7QAQ6 Q D L K V L M L I R E K D G S S V A T P A F
UniRef90_D0KY43 L K L D G V L F M E E T G Q L W M N Q R M Q D K L R
UniRef90_L7EW97 Y K F T A V S L H S D G R L T P S P G F
UniRef90_UPI00046AE363 R G A D A R L V A L D G G I V R T G A W P
UniRef90_Q4EMN1 F E G V D A I F I L S K E K K V Y E T S G L K
UniRef90_S3Y4E4
UniRef90_W0ZDT7 H R W G A E W V R M L T N G R V E W S R G
UniRef90_A1B9T4 F D G
UniRef90_W71X38 R G L P A L L V A G D G T A L P V G G W P A A E
UniRef90_I3ZER0 H P D A A Y M I V T R D G E R V A S K G W A T Y
UniRef90_A0A059IR90 H A G M D A L F L S R D G A G R E V M T G R F R
UniRef90_A0A021XFF8 L P A T Q V H L
UniRef90_A8KYD6 L A R R G W E W L T V D T T G R L T H S A G F P
UniRef90_D2R9D1 I
UniRef90_UPI0003823A91 T P S R L V T P D L D I L R L G G W P
UniRef90_D9X7M3 L P G V I E A F A V T S D S H T W W T R G F P
UniRef90_R7PS50 V P E I E A V L I T Y D G R A F I T K G V Q N Y I
UniRef90_UPI0002E17C8C L D G V I E A L L V T A G D E V R W T G G L A A
UniRef90_UPI000364F09A E F E F S W L R V S S T G S A A F S S G F E
UniRef90_B7S200 N L G L P W M A I D R E
UniRef90_S4NKE8 L Q G Y E A L A L K P D G Q T W R T S G F
UniRef90_T5KQF7 V E W V R M S T D G R V Q R S P G C P A
UniRef90_W0E7Z7 M G V T E A L L V D R S G E V H V T Q A W N R L E R
UniRef90_S7W0T7 E F D F H W V R M F A T G R V E S S P S L N
UniRef90_V7EKN8
UniRef90_UPI000364CE9F S H R Y G A R L V A Q D G T L T T C G A W P
UniRef90_UPI00035E8380
UniRef90_B5SGW4
UniRef90_E0USB8 Q P L A Y I I L Q A D K K L I V S Q N I I H Y I S D
UniRef90_W0P2C3 A L K E E L A V C L I T Q E K N I W I S P K F K R Y L
UniRef90_UPI000287FF71 R E G C E V F A V V A G G E V L R T A G V P
UniRef90_D3RVN8 L G V Q Q A L L V D A E G R L H L T P A M E R L E R
UniRef90_UPI0003FEBEA9 R S D L V M L L I Y N E K G G K Q Y I S P E L S R
UniRef90_A3VCT4 F D S F G A K L L A D A
UniRef90_M3UQ19 H A D G F H H V T F R R N G S V E H T P G L E L F L
UniRef90_Q988S2 T L G L E G Y L V D A N G R A T P T T G F
UniRef90_NOAVU0 R A P K L A Y L G V K S D F S L V M G G K L E K Y
UniRef90_D4VSW7 F K N I Q A T L
UniRef90_E6SJZ1 R P G V I A L A V
UniRef90_I0HQH7 R P G V D A L T V G D D G
UniRef90_I8T8D6 L G L D Q V L A V D D R G Q I A V T P K L A A R L Q
UniRef90_R7MLQ9 A D Y K I A A F D K N G N S Y I S S G L N F K K E
UniRef90_K2AGB4
UniRef90_L7KNH3 R G L P A L L I A H N G A E T R V A G W P P
UniRef90_W0DG16 H P Q F G Y L L L F S D G S V Y V N K T F L E F F E

1 10 20 30 40
UniRef90_D4ZHD4 Y V H R F T A M T V P C E I L L F A D D A K P L A V A I E D N T R R L E
UniRef90_K6SFL1
UniRef90_L7EQT9
UniRef90_Q1NM06 H H V E H V M G T V F S F D V R G G D P R A G S A L A A A I A G L H K V N
UniRef90_E6K1E2 Q R S R V M L G T V V S L T V Y S E R E Q A E Q A V T A T L E R M A E L E
UniRef90_S2YQ36 R Q L R L M G T F R I A L C L P A G D S S A E D L L D R T E D L L R S Y E
UniRef90_S9RX35 M G F P V S L R V D E D V P V A R A A D A V F A W L R E V D
UniRef90_D3D7Z1 M G A Q A R M T L A G P K D Q A R S L R A V E H E L A R L E
UniRef90_W1HXG8 L D G K T M G T F V R V S V I G D E A K A Q A L R A K V Q A Q L H R A D
UniRef90_R5DAK5 V M G T Q F D I L M V G S D P R L G T V W E K V E S E V L Q R L D
UniRef90_X0QK49 K L A T L K L A A M G C H I Q L L T L N I T K I G T Q H S Q E I I D Q R L A R W E
UniRef90_R7KX74 H I M G T R L D M L I I H S S P D R N H I W S D I T N E L E G L D
UniRef90_M6ZXF0 W R F E A I G T V W E I T T D A P L S D A A R A E V R A E I D R I D
UniRef90_A0A031FQR2 H S W A F E A L G T A W R L D A A S P L D D G V R D E L T G A L A A F D
UniRef90_UPI0004766C9C
UniRef90_K2FKG8 K E F V F G F E K F G T K I N F S I V S F E S S E E K V Q E K A E G I Y E R Y N
UniRef90_A9NEB6 M D T F I G G T V H A P K A V W D K A L K E M Y M L Y H E L T
UniRef90_U5W7U1 H H A E H V M G T V V S I D L A D D L P D Q R A M I G D V C G W L H E V D
UniRef90_UPI0003693FE3 W E G F A F G T D W E I S T P L P L T A A L R E S L L D R I E G F D
UniRef90_K5CL23 H I M G T R F D I L I H P D V T L H R L W V T I T N E L E Y L D
UniRef90_L9PCA2 L G T L V D I S V I G D A Q A V S A F A A I A L A L H
UniRef90_UPI000237D58C H P Y H K S A F L M N T V L D M V F W G G K E C A E I A S S A I I A K I K R L Q
UniRef90_UPI0003B63624 V V S D P R A L E P A V A D L Q A L M H R V D
UniRef90_T2QTK6
UniRef90_UPI0002379A21 Q W H G I A L G A P A S L R L E G T D V Q A A P I F A A V E A E L N R L E
UniRef90_O67299 E R V F Y L M G T Y V L I L D E L R G K E V R A V Y K Y M K K L E
UniRef90_A4WXU3 R I R G K A L G T G Y V Q I L L A H P D A D A M G R A L A E I J A R L E
UniRef90_B2UF50 I R R S K P L L G T F V E V R I D D V Y P Q A E T A I A A A F S V I E Q A E
UniRef90_B7RIJ8 Q R W Q G R A L G A E V E I T I R G P K D I A V P A L K A A R D L L T R V E
UniRef90_D5AVJ1 W E G I A L G A R A R I V I D H P E A A A I T A E A A E I A R L E
UniRef90_UPI000379D948 S W T V W Q L D A S V T V T D P G K L J A A A E A I V R G V V A A V D
UniRef90_UPI000471B575 A M H T F I G G R I F T E D S K W L N L K E M F Q T Y H E L T
UniRef90_X2GXY0 T L T L Q V M N T E F Y G L A I A K S N K T N W K E K A E K W L R V A
UniRef90_I8XYQ8 L Y S W Y E A M H T R I D L I I C N K T K E E S I L L I Q L T E K E I Q R I E
UniRef90_Q8A1S5 M G T R L D I L I H S N L P L L N M L W A H I T D E L E R L D
UniRef90_A3K6A6 S W Q G R A L G A E V S V T L T G P R S E T E P A L A D L P A Q L D A I E
UniRef90_X1JAM7
UniRef90_D5EQL1 K T H L F E H E A M K T I T F F R I S D D A M K A K T A A K A A I E L L E D I E
UniRef90_M4U4N8 Y K Y H F N A M S V P C E I L I Y A P K A Q K I A H D I Q V N T L R L E
UniRef90_S1SU36 H T M G T V F S C T V R A E E P G L R R A L D A E S T L H H V D
UniRef90_I3WKA6 E R A M G T G M I I Q S A T A L D D G F R S K L D A F I D G Y E
UniRef90_UPI0004630ED9 P M L G T F V E I G L A V D S R L H P A F D M A F G K I A Q I Q
UniRef90_S6C183
UniRef90_UPI00047AF8AF E Y H R K Y I S A M D T F S L V E I D V R N D P K A N N Y L E E I T N I S L L D T
UniRef90_UPI000374F9BB W T R Q I M G M P I S L H V R G A E L S I E H Q V E Q V F A S L C D A D
UniRef90_C1DUV7 E K V F N L M G T Y A I I D L E D E Q K I Y E T Y R Y L R E I E
UniRef90_E8LV70 H R F T A M T V P C E V Q L F G S S K S S Q L A Q M I E H N T R R L E
UniRef90_K6WY45 T W R V W G M D A A V T V T R P G D A G A A K I L V E R V L A D V D
UniRef90_R6JKY4
UniRef90_C2KN95 T Y S F A A M G T V G T L Q F P G A D A R G E Q I A K I V R G L E
UniRef90_U1D3B4 T K T I R L M G T I I Q L T I T H P R P R P L L A E A E R R L K S Y E
UniRef90_UPI00047EBB2B E A L G T G I I V R S A Q T I S P V L Q R D L Q S L I D E Y D
UniRef90_T3QL32 K Y S K T S Y Y L G T V N E V T V E N K E S K S D K I L N E C D S L I R Y I D
UniRef90_F9SHF1 P F V H R F H A M T V P C E V Q I L S P K A C A K D I A D E I E Q N T H R L E
UniRef90_E3BLG7 H R F K A M T V P C E V Q L F G S P N A S Q I A A V I E Q N T Y R L E
UniRef90_D3SP18 F H L M G T Y A F V E L P E G K A Y E A Y R M K S L E
UniRef90_UPI000475C3BD I H E T R F I M G T L V S V T V I H P D K G A M T A I R K A S E M Q R I E
UniRef90_D6U1G5 E E T R L I M G M P I T I A I L D A S A T Q A D L D T V F T Y F V A V D
UniRef90_B7GP91 A L G T G L L L H T D A P L A D G L H D R L G A F V D T Y E
UniRef90_UPI00028952FB K T Y N V T G K A Y G T S W S V V S T F I A D H H E K N I K I E H I D
UniRef90_A0A037XBC3 V H T W Q G I A L G A R A T L R L A H P D A K A I S A R V A A E J S R L E
UniRef90_V9WN72 K P H H W Q G R A F G A D V A I T L S G S P D V T K R T L H T A Q N L I A Q M E
UniRef90_K2GD87 M W T I C S I V I N E D D K S L K K I I N G I Y K N I V D F E
UniRef90_B9KWZ8 R I R G Q A L G T R V E I L L A H P E A Q A I G A R A M A E I A R L E
UniRef90_D5X100 P L L G T W V E I Q A T G R P A R V E R A V N S A F L H I A R V Q
UniRef90_R4PWU0 Y E F D A I G T H W W L E I L S D Q E F S Q E L R A D L D I V N Q F D
UniRef90_UPI000299DF8A H H K T A F L M N T P L D L V F W G N Q E L A D Q V T E K V V T Q I M E L Q
UniRef90_A9A0T7 D L A A A E A L M K K A F E V V T A I E
UniRef90_UPI0003B4BFA7 T T A R V V L D H R D R R H L D A A R C V D E V A A V D
UniRef90_G0TV75 Y A V S G L E L T V P Y V I K V V T S A E A R N V I T D E V L R S A W Q L D
UniRef90_S9WG85 K Q F M K K G L A H T V P Y T L K L V A K D D A E L A A A K A V G E E F Q V A D
UniRef90_W8GZR5 E H V M G M P I S L A M R G R H G G D R A A W A E V L R T L R G V D
UniRef90_UPI00016A62E3 P L L G T I V E M H V D E R A G G D A L P H A F E Q V A R V E
UniRef90_E2SFA7 L V E A F D
UniRef90_R1ID09 F P A L G T T A E L V V T D P A R L D Q A A A L L R A E L A I D
UniRef90_C6XCP1 E K H K R A T I A L G T I V E V S L W E P G T D P S P L F E T A Y Q A I R Q V H
UniRef90_F5SRF1 T L A L K A M G C Y I L Q V H L D H S E V Q I E Q L K Q D I E H T L S H W E
UniRef90_UPI00047A51F2 E I H Q F N H R A M A T H F E V R I A N E E A Y A Q A A Q A L D V L D A L E
UniRef90_S8FAK6 I M W T R L I E A L L L G K S K E A S A T W N A I V D E C V R L S
UniRef90_Q472Y1 P L L G T I V E I R V D G P A R L A E P A V A S A F E S I A Y V D
UniRef90_V6KRE1 M G F P V S L R I D G E G E D F A A T D A V F A W L R E V D
UniRef90_Q8A238 F L S M H T R V D I L L C Q K S E N E L V V N S I Y D T L R Q L E
UniRef90_D2RCZ0 Q R V Q N R I R D F I S E Y E
UniRef90_I3AW73 E A L G T G L L L H T D V A L D D G L S N C I R D M F I S T Y E
UniRef90_E6K214 Q V Y S W S H A L G T G I I L T C R K P L N T A Q V E S L G A F V E E F E
UniRef90_D7IY8 F L S M H T R V D I I L Y S Q K T E R E L L N R I Y D A L C R L E
UniRef90_K1TWD0
UniRef90_UPI0002DE3DD1 Q A Y T H H F M A M T V P C E V T L I D A A T N T A K I A R D I E V N T K R L E
UniRef90_Q57W38 Y A T S G L E L T V P Y A L K V V A S A D T A K E V A D E V L R C A W Q L D
UniRef90_W5W9V2 M G M P V S L K L R V G D D P R A V A A A T G V F T F L R E V D
UniRef90_D9T896 M G T A I S L D L A D D P E T L H E L A E D T F G W L R E V D

UniRef90_D4ZHD4 MATQGGLFDLITLIGSLKYLEA 100 NQPD LLSREALYLSL 120
UniRef90_K6SFL1 WQIGLPGARVPAPQSELDKALEP
UniRef90_L7EQT9 QVSEGWFF
UniRef90_R4LWK6
UniRef90_Q1NM06 RASAGAFDPTMLPLLNAYRRLLGDGAGEAAP TREKITAARK
UniRef90_E6K1E2 LLPGGNINAIIGPVVKLWHIG FADARIPEDGALIRERLA
UniRef90_S2YQ36 LATGGAFDVRLL
UniRef90_S9RX35 MATKGAFFDPTLQPLWLAH ARSAAQGRIPSEDDLMQARD
UniRef90_D3DZ71 RRSAGSFDPAW
UniRef90_W1HXG8 AKTHGAMDIITVGLVNLWGF GPDKQPVTT PDAKALAAKA
UniRef90_R5DAK5 ELTEGYFDITLQGFQDQVLL
UniRef90_X0QK49 VETQGLITPTLLKPLWAAAGYSSHLKPCQKCNAAATYLAQAQP
UniRef90_R7KX74 ENTLLHLFDLIT
UniRef90_M6ZXF0 ELTAGAVTPLV GATLADAGYDAQYSLTP ESTLA PVP AWDD
UniRef90_A0A031FQR2 TATHGAVNPLV GDSLAR RGYDAGYSFVVD H GATP
UniRef90_UPI0004766C9C
UniRef90_K2FKG8 KETGGYFDPR IADFL EQAGYDADF SKISKIGKEEAGDLSV
UniRef90_A9NEB6 EFTDGYFDM S I G K I I D V W K N L I D E S D Y Q E I P K E D I D Y A I N
UniRef90_U5W7U1
UniRef90_UPI0003693FE3 GLTGGAMTPLIIGGSLEERLGYDPAY S L R P A G P P L
UniRef90_K5CL23 EHTFHLLFDITL KDFSE
UniRef90_L9PCA2 ELSQGWFNIA C A P K L V D W R C L P Q P D D A D M P S Y Q P A L A V Y
UniRef90_UPI000237D58C N L T D G Y F N I F G G K I Y S W L K E N N R V N T L Y P P S F T H P E E T I Q
UniRef90_UPI0003B63624 S R S S G A V D P T L G R D I V R L G Y D R D I T P R P G N G S A A A D D E Y R
UniRef90_T2QTK6 H I S S G R F D P T L G P L K N L W L L H L K Q H S L P N E Q T W K S Y Y K
UniRef90_UPI0002379A21 E A S D G A F D P T I Q P L W L A L A S G A E Q P S V E R A H A
UniRef90_O67299 E K T Y G Y F D P T V G S Y T V N F K M K L L S E K K A K S L I N F K D L
UniRef90_A4WXU3 Q A T G G L F D P T I Q P L W R L H A E R H A A G A P P S A S E L A A A Q R
UniRef90_B2UF50 E R T G G V F D P T V A R M L V A H K I L P R P A G P T A E V
UniRef90_B7RIJ8 T A T C G L F D P T V Q P L W R A L A E G G D I A K A R A
UniRef90_D5AVJ1 A A T A G L F D P T V Q P L W R L Y A T R F G A G L A P D E A E I A A A L H
UniRef90_UPI000379D948 E M T G G D V D P T L G A D L A A L I G H G P G M Q G R P G L H S V P V P A L P A
UniRef90_UPI000471B575 N L R T N G Y F N M S M G K L I D V W K D L M E E Y D V E V V S Q S A L D Q T I V
UniRef90_X2GXY0 L R T N G L F S P Y L K L Q L E Q H G Y N Q S F P F T S L E K E A M Y N Q S I I
UniRef90_I8XYQ8 V Q T C Q C F D I T L Q S V P Q L T
UniRef90_Q8A1S5 E K T L H L F D I T
UniRef90_A3K6A6 S V T G G L F D P T V Q P L W R A L A E A R D P A P A R A
UniRef90_X1JAM7
UniRef90_D5EQL1 E Q T G G L F D V T L G R Q I E H Q K N D D E G E S P D I I G Q L M I D P
UniRef90_M4U4N8 Q L T D Q V F D I C I G T L K D F N L K N K H L T R S E L Y L L A A P
UniRef90_S1SU36 R R T
UniRef90_I3WKA6 T A T D G A L D P C V G E D L I R L G Y D A R Y S M T M E P D V E H H L G A V H
UniRef90_UPI0004630ED9 Q Q S N G L F N P T L G G E L I E R R V L P N H F I H R F E S R G
UniRef90_S6C183
UniRef90_UPI00047AF8AF V L T E G Y F N I S I G K L I D K W K D L L D P L A N N N Y T E E Q I K N I P L
UniRef90_UPI000374F9BB H R T G G Y F D A R S L P R V S G A G R H Y
UniRef90_C1DUV7 K L T K G A F D I T V G S I T I N H R R L K M I D R K T A E K
UniRef90_E8LV70 V G T Q G V F D P T V G S I K W L R N N H Q L S R A E A Y Q L A K P
UniRef90_K6WY45 R L S G G A V D P A V G H H L V L L G Y D R D I D A L R T G T T S P V G R P S
UniRef90_R6JKY4 E Q T G G I F D V T C A P L I N L W G F G F T K F D S I T P Q L V D S I R H
UniRef90_C2KN95 R A T G G L F D I R N P E L N L G E S A G G A V E E S S G F Y F R R E N I D A
UniRef90_U1D3B4 C A A N S R L N I A I G P L V Q N W R I G F A D A R V P T D S D I Q G L L Q
UniRef90_UPI00047EBB2B A A S R G A I D P C V G E D L I R L G Y D A M T F T I E P D A H E H T G S I H
UniRef90_T3QL32 K L S D G Y F D I T I G P L S N L W A L G T D K A K V P S D S E I Q K L L P
UniRef90_F9SHF1 Q L T F D T F D T T V G S I K H L L Q Q K P K M S H S H A F Q A W E L K E A I G
UniRef90_E3BLG7 T G T A G V F D P T V G S L K W L L N N N A S L S R T Q A Y Q I A Q P
UniRef90_D3SP18 R K T Y G V F D I T A G A L T I R S W R L K E I S E E E A K K L I N
UniRef90_UPI000475C3BD Q Q S H D A F S P T L A T L N K L W G F S N T E P P L T P P S Q A S I Q K L L S
UniRef90_D6U1G5 K E T G G Y F D I Q
UniRef90_B7GP91 S G T D G A I D P C V G E D L I R L G Y D A V Y F T V E P D A R G G R L G A I H
UniRef90_UPI00028952FB R L S N G A Y N I M L G K I S S K F G F A P D F D M S I L R
UniRef90_A0A037XBC3 R I S E G R F D P T I Q L L W A Y A E A S A L G M L P Q T D A I T R A I S
UniRef90_V9WN72 Q I T Q G L F D P T V Q P L W R A L A E G R R T D H S L A
UniRef90_K2GD87 S L T D W Y F N P L I D L R K I W Y S D S F E I W R F E K I N L V E D L N F N D
UniRef90_B9KWZ8 A A T G G R F D P T V Q P L W Q L H A A R F A A G A P P S A E E I A A A R A
UniRef90_D5X100 L A S E G Y F D I T L G A R L V E R G V L P D H G F A T L E A A I G
UniRef90_R4PWU0 H A S D G V F D I T I G N T L H R L G Y G K R K A A R Q L H V R D
UniRef90_UPI000299DF8A Q K S E G Y F N V F A G K V Y A S L K E K S A F S E S S L P I H
UniRef90_A9A0T7 R R T N G V F N I A E A T V M R S K T P D D P A L K K L A D F R N I E
UniRef90_UPI0003B4BFA7 R A T D G D V D P T L G T R M V S L G Y D A A F A D A P P V A T P E A V A R A L
UniRef90_G0TV75 N T S G G S F D P A S G P I V D A L R N V V M G K Q T S S G E I E V L V Q S C T
UniRef90_S9WG85 N S S R G S F D P A V G P L V E R L R L A A K E G K T L P R N E L D S L I N R C
UniRef90_W8GZR5 Q E S G G A F A V
UniRef90_UPI00016A62E3 R L S G G L F D P T I A R T L V A R G L L P A P D G R V P D A G A C
UniRef90_E2SFA7 A V T D G A V N P L V G G S L E H L G Y D A D Y T L R A R G V P V P A A P W S A
UniRef90_R1ID09 R L T G G L V D P T V G A V R D L G Y D R D F A A A G V L G A G M A G G E P
UniRef90_C6XCP1 R L S D G M F D V C I G D V L A R A A Y L P E E W I T T M P Q D F S P R Q P L E
UniRef90_F5SRF1 D K T Q G L V T P T L Q G A L C D L G Y S Q S F E T L P T G Q S A S V E H L Q D
UniRef90_UPI00047A51F2 E I T H G A F S P T P A G L H T Q S A M
UniRef90_S8FAK6 R L T E G Y F D V A L G K F K A I S
UniRef90_Q472Y1 E L T S G T F D P S V A A A L V A D G L L P A P A G P R P A T S T T
UniRef90_V6KRE1 R A T G G A F D V R L
UniRef90_Q8A238 K K T L G C F D V T I H S D N Y N Q D T I H S I
UniRef90_D2RCZ0 D A T H G A F D A C I G A D L L A L G Y N S K N D N S S Y S C S N Y R R A L
UniRef90_I3AW73 A S T N G T I D P C V G E D L I R L G Y D E S Y S F T P A P D A A E H A G A I H
UniRef90_E6K214 A A S W G R I D P C V G E N L V S L G Y T V S F E S M D P L V G K L P A G R
UniRef90_D7IY8 G K T L G C F D I T V H S E N Y N Q N T I Q S V
UniRef90_K1TWD0
UniRef90_UPI0002DE3DD1 A L T Q G L F D I T V G T V K A L L P R S S L S R E Q I Y Q D A A
UniRef90_Q57W38 N S S A G C F D P S T A P V A K A L R E I A L G K E R N N A C L E A L T Q A C T
UniRef90_W5W9V2 D R T E G
UniRef90_D9T896 T A T

UniRef90_D4ZHD4
UniRef90_K6SFL1
UniRef90_L7EQT9
UniRef90_R4LWK6
UniRef90_Q1NM06
UniRef90_E6K1E2
UniRef90_S2YQ36
UniRef90_S9RX35
UniRef90_D3D7Z1
UniRef90_W1HXG8
UniRef90_R5DAK5
UniRef90_X0QK49
UniRef90_R7XK74
UniRef90_M6ZXF0
UniRef90_A0A031FQR2
UniRef90_UPI0004766C9C
UniRef90_K2FKG8
UniRef90_A9NEB6
UniRef90_U5W7U1
UniRef90_UPI0003693FE3
UniRef90_K5CL23
UniRef90_L9PCA2
UniRef90_UPI000237D58C
UniRef90_UPI0003B63624
UniRef90_T2QTK6
UniRef90_UPI0002379A21
UniRef90_O67299
UniRef90_A4WXU3
UniRef90_B2UF50
UniRef90_B7RIJ8
UniRef90_D5AVJ1
UniRef90_UPI000379D948
UniRef90_UPI000471B575
UniRef90_X2GXY0
UniRef90_I8XYQ8
UniRef90_Q8A1S5
UniRef90_A3KA6A
UniRef90_X1JAM7
UniRef90_D5EQL1
UniRef90_M4U4N8
UniRef90_S1SU36
UniRef90_I3WKA6
UniRef90_UPI0004630ED9
UniRef90_S6C183
UniRef90_UPI00047AF8AF
UniRef90_UPI000374F9BB
UniRef90_C1DUV7
UniRef90_E8LV70
UniRef90_K6WY45
UniRef90_R6JKY4
UniRef90_C2KN95
UniRef90_U1D3B4
UniRef90_UPI00047EBB2B
UniRef90_T3QL32
UniRef90_F9SHF1
UniRef90_E3BLG7
UniRef90_D3SP18
UniRef90_UPI000475C3BD
UniRef90_D6U1G5
UniRef90_B7GP91
UniRef90_UPI00028952FB
UniRef90_A0A037XBC3
UniRef90_V9WN72
UniRef90_K2GD87
UniRef90_B9KWZ8
UniRef90_D5X100
UniRef90_R4PWU0
UniRef90_UPI000299DF8A
UniRef90_A9A0T7
UniRef90_UPI0003B4BFA7
UniRef90_G0TV75
UniRef90_S9WG85
UniRef90_W8GZR5
UniRef90_UPI00016A62E3
UniRef90_E2SFA7
UniRef90_R1ID09
UniRef90_C6XCP1
UniRef90_F5SRF1
UniRef90_UPI00047A51F2
UniRef90_S8FAK6
UniRef90_Q472Y1
UniRef90_V6KR1
UniRef90_Q8A238
UniRef90_D2RCZ0
UniRef90_I3AW73
UniRef90_E6K214
UniRef90_D7IY8
UniRef90_K1TWD0
UniRef90_UPI0002DE3DD1
UniRef90_Q57W38
UniRef90_W5W9V2
UniRef90_D9T896

130 140 150 160
P Y M G L N A W S L E G M N L C F S H C L T R F D L G G V I K E Y S I D Q A V D
L V N W R D V K L D K N N T A Y L T K K G M R L D F G G I A K G W V A D K V K A
S H T Y Q G Q I D P T G L V K G W A A E R A A R
W R F T D G Y F D A Y A G G P L D P S G Y V K G W S V E I A S
L V D Y R K L R L D G R R V S L Q D S G M G I T L D G I G K G Y T V D Q G A A
L T D P S L I T C D D D K R T V F E R E G M E I D L G C L A K G Y L G D L V A D
A V G W E H L R F D A G A V R F G R A G C S L T L N G V A Q G Y V T D R I A N
R T G L Q H L Q V I N Q S G R Q F L Q K D I P V D L S T V G E G Y A A D H L A R
L T E E D K S I F F S E S L H I D L G G Y G K G Y A L A K I R E
N A N N P N Q Q I D S L Q C R R L V D G Q H Q I D L N G G Y V K G W A M Q L A E Q
L K D F S R I R F H N N Q Y I S F A V S G L S L D F G G F A K G Y A L K K I K H
V I E W R P G D V A G A G E L V V R H P V L L D I G A A G K G F V V D R V A A
A P V A W R Q I V S W S A E T V R L A E N P A I L D V G A I A K G R L A D L V L A
M E D S R V K K T R N I H I N L S A I A K G Y A L D E I A R
N G I K I P L E E D L R I K K E K V F F G R R M E F S G I V K G L V N D K V V K
L V D A I D I T E D P N K Y Y V T L K Y G A K L D L G A L A K G Y V T Q L A A D
W R E T D G Y F D A Y A A G P L D P S G Y V K G W S V E I A S A
P A P A W E S V L S W S G T S L T A S E P V V L D I G A A G K G L L V D L I A A
I Q F C N R H I S L P A S E L T L D F G G F A K G Y A L Q K I R N
R C E H Q H Q V R K L A A G W L D V G G I A K G Y A L D L A V A
I N G K H N T V H F L T D D I S L D F G G M G K G I A L D A A V N
Q S G W R D V K L D R F A G L L T V P T G C A L D L G A T A K A Q T A D W A A E
N V G W K H I T L D L S T N K T I K K H P D V Q L D L C G A V A K G F A D C L L E
T I G W N N V H V D G S D G I R L P Y P R H S A I T L N G G I A Q G A I T D R I A A
I L F P E E R K V F L R K K Y M A L D L G G I A K G F A V Q K A Y E
L V G W E R V E F G T D G V R L A P G M A L T L N G I A Q G Y I A D R I A A
D V R F A D V V M L D E N R I S K R R A L W L D L G G I A K G F A V D M A I
L I G W E R V Q H D R D L I K L D A H Q A L T F N G I A Q G F A T D R I A E
R V D W G S V R F D S G G I R L A P G Q T L T L N G I A Q G F I A D K V I A E
P S P H I P L P P D P A P R L P G W P A D L R L D L G S A K A V A A D L A A A E
K A N A I E I T E D N N Q V V T L K Y G A K I D L G A I A K G Y V T Q K A V D
A G N P F R F L S N Q Q V M K I A Q Q E I D L G G F A K G Y A I E K L A Q
N R M G K L I M D D I Q K T V Y F T R K G T S L D L C G Y I K G Y A L D C I R K
L N D F S Q I Q I H G N H H I S F S N F S V T L T D F G G F A K G Y A L K K I Q E
L I G W Q R I R R T T R G M Y L D R D Q K L T L N G I A Q G F A T D L I R A
E K P Q V H C L T A G R E V D L G G I A K G Y G I D C A A R
F M G L S C W E I N Q L T L T F K F P Q T K F D L G G V I K E Y A I D E A I K
G R P T W R N D V E R H G T T L V T Q R A V H L S D F G A F G K G Y C A D L T I G A
V A Q D I A I D N N K V F L T Q P I L L L M A I D L G G I A K G F I T D E V V K
I D N G I V L T K E N N K Y Y V L I K E G V K L D P S G L V K G W A V E R A A
L V N C N N I V L D Y Q N T V F L K K K Y M A I D L G G I G K G F A I E K A Y E
M M G V S A W E I I G S E L L F A H P Q T R I D L G G V I K E F A I D Q A I N
F V A R R A H M I R R H G D M L T V P E G V L L D L G A T A K A F A A D R A A D
F V G F R K V R L Q G N R V M K D D P R I L L N F S V L G G G T I C N I T A C
A V S R G H G L I L H S G M A C V I G A G R Q L D L G G I A K G V A A D L A L Q
Q T N P Q K I Q L D S K Q T V Y L A E K G M S I D L G A L A K G Y F T D L L V S
G R P T W R S D V E R H G T T L V T R R A V H L D F G A C G K G Y L V D L L A R
L I D Y K N I L D E K N K S I K T K E N M K L D L G A I A K G Y A A D K L V A
L E D T I D R E N L Q R T K L H I P D P R T R F D F G G V I K E Y A V D Q A V K
M M G E A W H I E N N Q L I I S H D E T R F D L G G V I K E F A I D Q A I N
Y K D V V V K G R D V L L R K K G M A L D L G G I A K G F A V Q K A Y Q
G S K N C L Q H Q D K Q W S R N S I N C Q L D F G A I A K G Y A I D R G Y E
H N G A Y D P S G I V K G W T I R N A A D
G R P T W G G D V E R H G T T L V T R R P V A L D F G A C G K G Y L L D L L A R
Q D N N E Y L I J N K N K L V K K S T N W F D L S S I A K G Y A V Q L I H Q
K T G W E R V R I L S S A L V L I E P E M A L T L N G I A Q G Y I A D R V A E
L V D W T Q V S F A K E L V Q L G Q G Q A L T F N G I A Q G Y A T D V I S D
I K N Y W N L I E I W Q D M N L D F W A I A K G W F A T D L I S G
R T G W E R V V F D A D E V R L G R G M A L T L N G I A Q G Y I A D R V A A
S D A L V M V P G R R V I G L R R P V L L D L D G I A K G Y A V D L A I Q
F W R D V A V S D N E I V L P P V M L D F G G F A K G W L I D V L S Q
P P E D L I K I N T S N N T I Q F L H P A V S L D F G G I G K G L A L D E T S K
L D E A A R T I F L P D R R M R I S L G G I A K G Y A V D Q A F G
D A R P A W Q R V L L A G T F L R V P E G V T L D L G A T A K A A A D M A A A
L S N S F V I D M R E G T I A R K H E Y A R L D L G G V S K G Y I V D Y V V E
S L N N S F K L D L P N G I I S R L H A D A Q L D L G G V N K G Y A V D Y V M E
R R A G P T G E R I L D P S G V V K G W A V E R A A E
F D A V E L H A G C R V V R R D V W I D L G G I A K G F A V D V A V A
A Q R Q G D R L T V P R G S T L D V G A A G K G R L V D L V A
A P G W H R I L F D P G Q R L V V L P R G V H L D L G A T A K A L A A D R A A
I T P H E D G T A S L K K Q A N T L I D L G G I A K G Y A V D L A I E
A T N I E F R V L V D G S H Q L R L P S G M S L D L N G Y V K G W A A T K L A Q
P Q W K L F P E D H S I L C E S G M L Q F D L G A V G K G F A T D R M A E
F D E E H R T V S F K T D Q V E I D L G A Y G K G Y A L E R I T R Q
F D S I V L H S D C T V V R K E A V W L D L G G I A K G F A V D V A V G
P G R G F D C A V V K G W S V Q R A A E
H L Y P E A Q S V F F Q Q A G T T I N L S G F L K G Y A L D K I R E
P V K W A D I S R D D G G A T L H T N K P V Q L D F G A A G K G Y F V D L V M Q
G R A V W S A D V E R H G T T L T H S P V A L D F G A C G K G Y L V D L L A G
P R R T R W D R I R R E G T R F R L T G P V H L D F G A V G K G Y L D L L A R
H L S V E D H S I Y F S Q P G V T V N L S G F L K G Y A L D T I K S
Y D K I A V E N G R L R K A D P R M Q I D L N S I A Q G A T S D Y I A A
P Y M G L S A W E I E D D C L L L H F P L T Q L D L G G V I K E V A V D Q A
L P N S F V I D F E A G T I L S R K H E H A S L D L G G V S K G Y L V D Y V I D
W F D P W L P G G L D L G G V K G W A V E R A A A
D G F F D A Y A T G R L D P S G Y V K G W A A Q V A S D

UniRef90_D4ZHD4 UniRef90_K6SFL1 UniRef90_L7EQT9 UniRef90_R4LWK6 UniRef90_Q1NM06 UniRef90_E6K1E2 UniRef90_S2YQ36 UniRef90_S9RX35 UniRef90_D3D7Z1 UniRef90_W1HXG8 UniRef90_R5DAK5 UniRef90_X0QK49 UniRef90_R7KX74 UniRef90_M6ZXF0 UniRef90_A0A031FQR2 UniRef90_UPI0004766C9C UniRef90_K2FKG8 UniRef90_A9NEB6 UniRef90_U5W7U1 UniRef90_UPI0003693FE3 UniRef90_K5CL23 UniRef90_L9PCA2 UniRef90_UPI000237D58C UniRef90_UPI0003B63624 UniRef90_T2QTK6 UniRef90_UPI0002379A21 UniRef90_O67299 UniRef90_A4WXU3 UniRef90_B2UF50 UniRef90_B7RIJ8 UniRef90_D5AVJ1 UniRef90_UPI000379D948 UniRef90_UPI000471B575 UniRef90_X2GXY0 UniRef90_I8XYQ8 UniRef90_Q8A1S5 UniRef90_A3K6A6 UniRef90_X1JAM7 UniRef90_D5EQL1 UniRef90_M4U4N8 UniRef90_S1SU36 UniRef90_I3WKA6 UniRef90_UPI0004630ED9 UniRef90_S6C183 UniRef90_UPI00047AF8AF UniRef90_UPI000374F9BB UniRef90_C1DUV7 UniRef90_E8LV70 UniRef90_K6WY45 UniRef90_R6JKY4 UniRef90_C2KN95 UniRef90_U1D3B4 UniRef90_UPI00047EBB2B UniRef90_T3QL32 UniRef90_F9SHF1 UniRef90_E3BLG7 UniRef90_D3SP18 UniRef90_UPI000475C3BD UniRef90_D6U1G5 UniRef90_B7GP91 UniRef90_UPI00028952FB UniRef90_A0A037XBC3 UniRef90_V9WN72 UniRef90_K2GD87 UniRef90_B9KWZ8 UniRef90_D5X100 UniRef90_R4PWU0 UniRef90_UPI000299DF8A UniRef90_A9A0T7 UniRef90_UPI0003B4BFA7 UniRef90_G0TV75 UniRef90_S9WG85 UniRef90_W8GZR5 UniRef90_UPI00016A62E3 UniRef90_E2SFA7 UniRef90_R1D09 UniRef90_C6XCP1 UniRef90_F5SRF1 UniRef90_UPI00047A51F2 UniRef90_S8FAK6 UniRef90_Q472Y1 UniRef90_V6KR61 UniRef90_Q8A238 UniRef90_D2RCZ0 UniRef90_I3AW73 UniRef90_E6K214 UniRef90_D7IYY8 UniRef90_K1TWD0 UniRef90_UPI0002DE3DD1 UniRef90_Q57W38 UniRef90_W5W9V2 UniRef90_D9T896

UniRef90_D4ZHD4
UniRef90_K6SFL1
UniRef90_L7EQT9
UniRef90_R4LWK6
UniRef90_Q1NM06
UniRef90_E6K1E2
UniRef90_S2YQ36
UniRef90_S9RX35
UniRef90_D3D7Z1
UniRef90_W1HXG8
UniRef90_R5DAK5
UniRef90_X0QK49
UniRef90_R7KX74
UniRef90_M6ZXF0
UniRef90_A0A031FQR2
UniRef90_UPI0004766C9C
UniRef90_K2FKG8
UniRef90_A9NEB6
UniRef90_U5W7U1
UniRef90_UPI0003693FE3
UniRef90_K5CL23
UniRef90_L9PCA2
UniRef90_UPI000237D58C
UniRef90_UPI0003B63624
UniRef90_T2QTK6
UniRef90_UPI0002379A21
UniRef90_O67299
UniRef90_A4WXU3
UniRef90_B2UF50
UniRef90_B7RIJ8
UniRef90_D5AVJ1
UniRef90_UPI000379D948
UniRef90_UPI000471B575
UniRef90_X2GXY0
UniRef90_I8XYQ8
UniRef90_Q8A1S5
UniRef90_A3K6A6
UniRef90_X1JAM7
UniRef90_D5EQL1
UniRef90_M4U4N8
UniRef90_S1SU36
UniRef90_I3WKA6
UniRef90_UPI0004630ED9
UniRef90_S6C183
UniRef90_UPI00047AF8AF
UniRef90_UPI000374F9BB
UniRef90_C1DUV7
UniRef90_E8LV70
UniRef90_K6WY45
UniRef90_R6JKY4
UniRef90_C2KN95
UniRef90_U1D3B4
UniRef90_UPI00047EBB2B
UniRef90_T3QL32
UniRef90_F9SHF1
UniRef90_E3BLG7
UniRef90_D3SP18
UniRef90_UPI000475C3BD
UniRef90_D6U1G5
UniRef90_B7GP91
UniRef90_UPI00028952FB
UniRef90_A0A037XBC3
UniRef90_V9WN72
UniRef90_K2GD87
UniRef90_B9KWZ8
UniRef90_D5X100
UniRef90_R4PWU0
UniRef90_UPI000299DF8A
UniRef90_A9A0T7
UniRef90_UPI0003B4BFA7
UniRef90_G0TV75
UniRef90_S9WG85
UniRef90_W8GZR5
UniRef90_UPI00016A62E3
UniRef90_E2SFA7
UniRef90_R1ID09
UniRef90_C6XCP1
UniRef90_F5SRF1
UniRef90_UPI00047A51F2
UniRef90_S8FAK6
UniRef90_Q472Y1
UniRef90_V6KRE1
UniRef90_Q8A238
UniRef90_D2RCZ0
UniRef90_I3AW73
UniRef90_E6K214
UniRef90_D7IYY8
UniRef90_K1TWD0
UniRef90_UPI0002DE3DD1
UniRef90_Q57W38
UniRef90_W5W9V2
UniRef90_D9T896

210 220 230 240
Q K P L F S L P L N N Q A L T T S A H Y Q R H Y Q F S D G Q T S H I L A K G G V
P R A V G T I P E S N N E S I V T A G T Y E Q Y L I S N G H K Y T Y L F D P Q T G
P G G L A A V V S A A G A V A T S G T A E R G T H I V D N P R T G
A D K I S W V A V S D G A V A T S G T Y E R G H H V F N P R T G
R R P L T V I A A D H L A V A T A G D Y H Q P F S A D Y L H H H I I D P R T G
P E K V R N I E T P G K A V V T S G V Y E R K L V V I G G K S Y H H I I D P E T G
D K L C T V L E L T H A A V A T S A R Y E R G N H H I I D A R T G
D L V S Q V T L Q D R A M A T S A P M G T L L A P E I G L G H I I D P R N T
G R L V A V V E A A E V A V A T S G T A E R G A H I L V C P A T G
R
K E R I A D L K L C D S S L A T S S G N M P S H P R H I V N P H T G
D Q D V A L L T L R S G A V S T S G Q D Y R R W W H K G R P Q H H I N P H Y S
H Q L L N E F N L K N N T S T S G N T Q Y T Q H H I I N P L T G
P R A I G V V E L S G G A V C A S A P N R R A W A D W H H I V D P H T G
A S L A I G V V W T D A A L C A S A V N R R A W G D G L H H I V D A R T G
N K A P I P I T L K D A S I A S G N Y R N Y F I W E G D K K Y M H I N P S T G
E K L I L E I L S D K A I A T S G I A K R K W E K D G K R K H H I I D P
P K N Y G L Y T A K N Y N F T T S G S Y N Q F I L S E G V M Y H H I V S P K T K
A D K L S W V L S T D E A V A T S G T Y E R G D H V F N P R T G
P Q A I G V V E L A G R A L C A S A A N R R A W G D G L H H I V D G T T G
Q S I L K E F N L K D C A L A T S G N T Q Y N R H I I N P L T G
R R S G A Q L E L R N E A L A T S A A Y F S A R S H E G R P I S A L V D G R N G
Q G E I W K L T D S A V S V S E T K T G Q N K R P H I V N V K E K
G G P G Q Q V T L A A A G L A T S S T V I R R W Q R G D V E I S H I I D P A S G
S A T P Q I L E I H A N A A V A T S G N Y Y Q Q W S V N G K I Y T H I I D P H T G
G T V A K R I R L Q D R A V A T S A P G G T M L I Q G K H G H I L N P K G H
G K I L A E V N K K D L C L A T S S G N Y F R K H I I L G K
G G Q G S V M L R Q A A L A S A P L G T T F D A L G A A G H I L D P R T G
R L E L L G R L T N G A V A T S G H Y E S F G L P P G T A S I R S Q Q A P M E
G H L G T R T L R S G A I A T S S A P M A V P L M G Q Q G H I L H G S V R P R
D A G G Q V A L Q D R A I A S S A A L G T T F D S A G R V G H I L H P R T G
D P A Q Q I S L A P G Y A L A T S S T Q K R R W T H E G T T V H H I I D P R F G
Y V L N S N I I G Y N G V L A T S S G Y L Q Y I E S D E N V W Y H H I I S P V T K
D K E I S S I K M A S G A I A T S N R Y R S W T Q G E N R K H H I L N G Q T G
A T I D K S I L K N E I L T T S G N K R A K Q K H I K H P I T N
Q Q T L D E F C L T D N T L T S G N T E Q Y T A H I I N P L T G
H G S L G H L T L E N A A R A T S S P G A L H L G T Q A H I I L G P A G E
K D I C G T L T L D A A V A T S G D Y H R Y F E I A G V R Y S H I V D P R T G
D H L E Q T I E L N N K A L T S A S G T G I Q Q G A H I V A P L A G
P Q K T R F L P L K N Q A L T T S A H Y Q R H Y Q F N D E Q T S H I I V S S K G T
P G S C A A V V E S P G G I A T S G P R H W E E A G R Q L H H I L A V D G R
P Q T E A I G I A S D G A F A S S A Q S R R E I D Q Y Y P G H I I A P K D R
E P R P L C E L H N K A I A S S A Q A G Q E I D Q Y Y P G H I I A P K D R
P R A I G T L P A S N K T V T S G I Y E R Y L K V N G K V Y M H I L M A P K K G
G I Y G Y I N V A N K T V T S G D T E Q N K E F F G R L Y H H I I S P I T R
R A R I A R V S V A D G A V A T S G T A R R G A H I V N P H D G
K S V V A V L N K R D F C L S T S G N Y F Q N R G A H I I V G K K T
P E A F F S L P L A N A A L T T S A H Y E R Q T K F S D G K T S H I I L A E Q G T
P A T Q I A L L G E A I A T S T L H R R W R D R S G A E H H I I D P A T G
D S T Q I V Q L S E R L G L A T S G N Y R N F Y L K D G R K Y A H A I N P I T G
P S P V G Y L E L C N G S S L S G T A Q E L E P G L D W V T H L V N P L T G
S R N Q Y T I K V N D C S V V T S G I Y E R H H I I V N P L T G
A N A V I G I A H M A D G S L C A S A P S R R H W G A A H R L H H L L N A I D G
N K T P F F V P I T D A A L T T S A H S E R Q M Q F G D K T T S H I I L S K Q D
T Q A F F S L P L V N S A L T T S A H Y E R K T Q F S D G Q S S H I L S E K G T
G V L L E G Y N K K D L C L S T S S N K D R R H I L W G T E T
N I I A T L S L H G D V S I V T S G
R H E H V K V A L T D Q G I A T S G T A I R G Q H I Y N P H N A
P A N A V G L A E L N G A F A S A P S R R H W D A A G H Q L H H I L N A I D G
F N N K A I H V I K N N A I A T S A P E Y R N F K I F D N K M I T H T I D P K T F
A G G T P L D A R A L A T S A P L G I T F D E H A R M I G H I L D P R T G
G L L A T R R L S K G A V A T S S P M A T P L G S K G H I I L H P R Q H
N E I F T T L E L S K S I S T S W T F I R K W K I N N E D Y H H I R N P L S D
A G H L E L R S A A L A S A P L G T T F D G E G R A G H I I L D P R T G
A V P L G I R Q A N G A V A Y R S G S L R N A A V A S S M V I G H C V M H P G D G
T K K I G Q T Q I T S G A L A S N T L K R V W Q D S S N Q T K H H I I D P R R D
E G E I W P L R N D T V I S V C A G H G S G K T P H I I L N P K T G
P Q K Q G M V M R Q N A L A S T S G N Y L K K G H I L S D R
D P V D H V R I A S G W S A T S T Y Q K R R W E Q D G H A R H H I I D P R W G
A A Y T S V R I E N E A L A T S G D Y E N L L T P N K E F F T T I Y D W K T K
K S Y I R V V E L H N E A I A T S G D Y E N L I E P G G Q M Q T S I E C W D T K
T T L V A L V P V H T G A V A T S G T Y E R G R D H L V D A R T G
P A R T R V L G H T R G A V A T S G R Y F S F G F P D D A Q A I V A T T P H A A
P S R A V G V A V P G Q A L C A S A V N R R A W G E G L H H I V D A R T G
E A V A R P A L T R A G A L A T S G T R R R W R R G R T V H H I V D P R T G
Q M Y V P L G Y L H N Q A L A T S G Q P S N R D T A L D Q L P I V D P N T R
L N T L A V V A L D K G G I A T S G Q D Y R R W K C H D Q W R H H I I H P R T Q
D D A P Q R L C L A H A S I S G S G L A V K G E H I I D P R T G
R Q R L D V V E L R D R A M S T S G N M P A H P K H I I D P H T Q
T H L L G A L N R G A V A T S S A Y G K Y A I V S G A R L R G Q A P K T P R
D R V C A V L A V T D G A V A T S S G R Y E R G D H I I D G R T G
N H K T Q S I L L N N E C L T S G N N S D D R K H I I S P S S G
T T Q A V G V A I A S G A L C A S S A A R R R W K V K D V V A T H H I L N A I D G
P N A V G T V E L S H G A F C A S A P S R R H W D A A G H Q L H H I L N A I D G
A D R A I G L A R L D R S L C A S A P S R R H W T A D G Q R L H H I L D A M D G
N I L L H N E C L T T S G N D S P E R R H V S P R N G
A D L Q V K I S L S G K G L A T S G N Y R K F R D S S G R K I V H T V D P R T G
Q Q A L F A L P L R N Q A L T T S A H Y A R R Q Q F A D H E S S H I L A S Q D T
A S Y I S V I S L D N E A L A T S G D Y E N L Y T A D D K P L T C T Y D W K A M
P H A L L G V T I R T G A V A T S G T A A R G P H I I D P H R G
A G A T C L V L T T D M A V A T S G V Y E R G H H V L D P R R G

UniRef90_D4ZHD4
UniRef90_K6SFL1
UniRef90_L7EQT9
UniRef90_R4LWK6
UniRef90_Q1NM06
UniRef90_E6K1E2
UniRef90_S2YQ36
UniRef90_S9RX35
UniRef90_D3D7Z1
UniRef90_W1HXG8
UniRef90_R5DAK5
UniRef90_X0QK49
UniRef90_R7KX74
UniRef90_M6ZXF0
UniRef90_A0A031FQR2
UniRef90_UPI0004766C9C
UniRef90_K2FKG8
UniRef90_A9NEB6
UniRef90_U5W7U1
UniRef90_UPI0003693FE3
UniRef90_K5CL23
UniRef90_L9PCA2
UniRef90_UPI000237D58C
UniRef90_UPI0003B63624
UniRef90_T2QTK6
UniRef90_UPI0002379A21
UniRef90_O67299
UniRef90_A4WXU3
UniRef90_B2UF50
UniRef90_B7RIJ8
UniRef90_D5AVJ1
UniRef90_UPI000379D948
UniRef90_UPI000471B575
UniRef90_X2GXY0
UniRef90_I8XYQ8
UniRef90_Q8A1S5
UniRef90_A3K6A6
UniRef90_X1JAM7
UniRef90_D5EQL1
UniRef90_M4U4N8
UniRef90_S1SU36
UniRef90_I3WKA6
UniRef90_UPI0004630ED9
UniRef90_S6C183
UniRef90_UPI00047AF8AF
UniRef90_UPI000374F9BB
UniRef90_C1DUV7
UniRef90_E8LV70
UniRef90_K6WY45
UniRef90_R6JKY4
UniRef90_C2KN95
UniRef90_U1D3B4
UniRef90_UPI00047EBB2B
UniRef90_T3QL32
UniRef90_F9SHF1
UniRef90_E3BLG7
UniRef90_D3SP18
UniRef90_UPI000475C3BD
UniRef90_D6U1G5
UniRef90_B7GP91
UniRef90_UPI00028952FB
UniRef90_A0A037XBC3
UniRef90_V9WN72
UniRef90_K2GD87
UniRef90_B9KWZ8
UniRef90_D5X100
UniRef90_R4PWU0
UniRef90_UPI000299DF8A
UniRef90_A9A0T7
UniRef90_UPI0003B4BFA7
UniRef90_G0TV75
UniRef90_S9WG85
UniRef90_W8GZR5
UniRef90_UPI00016A62E3
UniRef90_E2SFA7
UniRef90_R1ID09
UniRef90_C6XCP1
UniRef90_F5SRF1
UniRef90_UPI00047A51F2
UniRef90_S8FAK6
UniRef90_Q472Y1
UniRef90_V6KRE1
UniRef90_Q8A238
UniRef90_D2RCZ0
UniRef90_I3AW73
UniRef90_E6K214
UniRef90_D7IYY8
UniRef90_K1TWD0
UniRef90_UPI0002DE3DD1
UniRef90_Q57W38
UniRef90_W5W9V2
UniRef90_D9T896

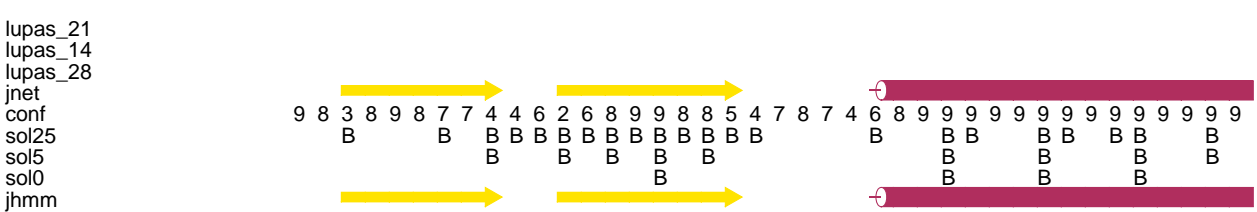
250 260 270 280
H P Q V L S S T V V A D T A L E A G I Y S T A L T I K P
Y P D N N L A S V T I V V S K N S V D G D A L S N A A F D K G L K G G L Q Y M N A
K S V T D L V A V T V V A P K D L T W A D A W A T A A F A M G S R Q A L R W L E S
A P A R G L R S V T V T G P D L A L A D A Y A T A A L A M G Q S G L K W L A K
F S S P E L A A C V T T A P S A A L A D A L A T A G L V L G R Q R A G D L L A L
R P E T D M E S I T T V R S R R S V D G E I W T S M L F
H P A T E L L S L T V T A P R T L T Q A D A A T A A F A M G A E G I E W A A A
E N Q P R H K L V S V S A N S A A L A D G L S T A F C L M T R P G I Q S C L E Q
V P A S D L A S A T V V G P D L A L A D G Y A T A A V A A G P R A V D F L A E
T F V E D K K M V S V V S K D P V V A E I L T T A F M I C D D E R V P V I A S Q
R P A S D V L T A T V M A A D T V T A E V Y A K Y C V L L G V T E A I T W L N Q
S Y N Q Q R K A A T I S E D P L E A E I L S T V W M I A D E E Q Q K Q L K E K
R P T R E V L A T W V F A D E A M T A D G L A T A L F F T P A T A L Q A R L
E P V R Q Y A A T W A V A P D A M T A D A V A T A L F F D G G P Q L A A E
L P A N N D L S A T V I H P Q S A M S D A Y A T A M M A M G R K K A I E F A N K
R P V N H Y L R T L S I V V G T D A G F N D G L S T A L E S M P P E V L E Q F L E T
G P A R G L R S V T V V G P D L A L A D A Y A T A A L A M G E P G I A W L A K
Q P V R T A V A T W A L A D T A V L A D A L A T A L F F V P G G T L E
E Y N G E R K A S T I L S P D P L E A E I L S T V W M I A D H R Q R E H I A K N
E L V T A A S A S V R A P R C A T A D A L T K V V L A S G D A R Q K H A A L A
I P V S S D R T S C V Q A Q S A A D A E A L S T A L I A A P A G K R K S I T Q N
R S A A R W R T V T V C A D S A T H A N T C S T A A I V L G D E A L T W L R T
K P L E L H I S A T V I H P S C A Y A D A M A T V L M F A T K K E A L A W A E E
K V M Q R A V S V S A R A A V A D G L S T A L C L T P D S G A N A L A S R
S K R V L Q I T V A H E N C T V A D A L A T A L F A S P E K E R E K L L K N
T P A R W R L V S V T A P S A A V A D A S T A F C L M D R Q E I G Q A L R A
A P C A E R T V T V J A P R C I W A D A L T K V A M L A G T T A P A T V R A
W S T V S V E A R D A T A D G F S T A L T L A P L S L T R A V V G Q
R P A P V W K L V T I T A P E A G L A D A L S T A A C L M P A E T I L L Q A V T R
L P A E T W R S V T V A A L T C L Q A N A F S T A A I V R G F A A L E W
K P E N Y Y M T L T V T G S S D A G Y M D A L S T A M F S M P P G E L E I F L N E A
V A I T D V I Q A T V T S S L C D A E V G A K L C F L V D E T K Q Q W L E A
Q W I T G I R E V S V V T S T G K E G E A L S T A L F V A T E Q E R L K I L V N
I Y N E Q K K V T S I L S D N P D T A D A E I L S T V W M I A D D Q R E Q I N E N
R P L W S T V S I E A R D A T A D A L S T A A V F M D T A R L E R L N E K
A A L P Q G H A S S V T V P S A T A T D A W A T A L S V L G P D G L K L I N G
R G E H S Y T R L W L V E N S A A M A D A W S T A A M L L T P E E L K Q L
H K Q V I T S A S V V A N S A L E A G I Y S T A L T I K P
A P P T D G A S L T V T G P S L T E A D M L A T A A Y C M G A E A R G W L G T
R P V R D V A A S W V Y V P S A A G A D G L A T A C F V T A P D E L A R A
N I S P A L V S V I A H E A W L A D G L T K V F A L A D E A E R N H F A Q
Y P D N E L M G V S I V T N K S V D G D A L S T A T F D K G L V D G M A Y I E K
M P E I D N R I A L I V T D S A A L G D A L S T A A F S M D K K L E A W G K Q
Q P A M A V I C S V T V I G P S P L W A D V Y A T A A V I A R G G E A S W L S S
D I L Q V S V V Y E E C S F T D A I S T G I F A M N E K E R K K F L E
H T N V L S V T V V A P T A L E A G A I S T A L T I D P L L S
R P A P H W R T V T A V A A R C V E A N I V T G C L I V K G A A G H R W L A E
Y P V Q K D I S A T I I A H Q C M L J A D A Y A T A F M T L G S R K A R Q L
Q P A Q N V A L A V V V A K D G I T A E A V S T A V L L L G A Q A G L D L C V A
L P A H R V A A S W V A V P R S A I A D G L A T A L F V T E P D R L A E Y
V E K K I L S V T A I A S S T L E A G V L S T S L T L N P K I S V P E
H S K V L S V S V V A P S A L E A G A I S T A L T I A P S L P V P E
Y V V Q V T V A Y D D C T F A D A F A T A L Y A M T D Q Q R E R F L R E
E P L S D I V S M T V I G P D V Y E A D R F A T A A F A M G R N G I Q F I E K
L P I D D V I A A T V A S L S T A L A D G L A T A L F T T S A A Q L R A
Q S I N T N I S V T I A H E E S A A Q A D A L A T A F V I G Y P E A L N I A N A
Q P V Q N W Q E I S V S A S A A V A D A L S T A A C L L G T R D A I D F V A R
P H W S T V V E A D S A A M A D A L S T G L V L A D L E L V R Q V R H
K S E N E L I S V S V I N R Y W Y K S D L A T A L I A M W K S K A L E F C E
R P P V R W R L V S V T G P S A A L A D A S T A F C L M D R A E I E A A L A A
W D A A A P R V W T V Q A E T C W R A D A L T K V A A L S A S A R R Q A L V A R
D S S D S D V V A Y V R A T A C I J A D T M A T V L I L R P D L E R L V L Q K
D C P P S F T A V V Q S E S A T E A E V L S T A L I A A P D E K H Q E I A S
Q E V M A A T V Q G E T C E F C D M W G T F L M C L P L D E A L N E
L P A D P W R S V T V V A P S C V T A N T M T A A I V R G H G A T E M
A P S H T N I Q V T V K C Y S A M Y A D A L A T A C L V K D P V K V R Y M L D G
S S E H N T A Q A T V K C Y S C M Y A D A L A T A
R P T G V A S V T V I A D S L T W A D I D A T A A Y A L G R D A A R W L H G
R A A A R H A S V S V I A P R C I W A D A L T K L V M L A G A D A
A P V D G V V A T W A V A D T A M T A D A V S T A L F H A A P E R A A A F A Y R
D P A P R W R T V T V A A K S T V D A N T A S T A A V V L G A G A P D W L R G
Q C L P A L A H I S I V A N T A M A D A L T K L A W L N A L N P A L
Q S A S D V L S A T V I A D S T L E A E V W A K Y C L L V G A S E A I S W L N Q
R P A L R Q N R A V I A D T A A E S D A L S T A C M V L S E P E L E D V L A K
V Y N E E H R L V S V K A F S A V D T E V L S T V L M V L P E D R I L D R V L S
Y P S V S V T V A P R C I W A D A L T K V V T L A G I E
R P A T G M L S L T V V A P R L T E A D A T A A F A L G T D G P A W A A T
K P L E G V R Q V T V T D D G T T G E I L S T S L F V A
V P S Q K L S A S W P A K T C A Y A D A L A T A L F I S Q E S D L Q K I A Q T
L P V D D V A A T W V
L P V S T V A A S W V P Y P T A W A D G L A T A L F P C P P Q D L L A S G D E
K L V E G V Q Q I A V V T P D G A G E I L S T A L F A A D G E Q R R A L M
Q P V T S D L S A T V V A E T S A E A D A Y G T A L M V M G L E R G K E F L A A
H K Q V I S V T V V A D T A L Q A G I M S T A L T I
K P S Q N I A Q V S V K C Y S A M Y A D A L A T A C F L K D P A K V R Q L L D G
M P A T G L S V T V S G P S L L W A D V Y A T A A F A H G P G A Q A W L R Q
V P A T G L R S V T V V I G A D L G V A D A Y A T A A V A M G A S G L A W L D R

UniRef90_D4ZHD4
 UniRef90_K6SFL1
 UniRef90_L7EQT9
 UniRef90_R4LWK6
 UniRef90_Q1NM06
 UniRef90_E6K1E2
 UniRef90_S2YQ36
 UniRef90_S9RX35
 UniRef90_D3D7Z1
 UniRef90_W1HXG8
 UniRef90_R5DAK5
 UniRef90_X0QK49
 UniRef90_R7KX74
 UniRef90_M6ZXF0
 UniRef90_A0A031FQR2
 UniRef90_UPI0004766C9C
 UniRef90_K2FKG8
 UniRef90_A9NEB6
 UniRef90_U5W7U1
 UniRef90_UPI0003693FE3
 UniRef90_K5CL23
 UniRef90_L9PCA2
 UniRef90_UPI000237D58C
 UniRef90_UPI0003B63624
 UniRef90_T2QTK6
 UniRef90_UPI0002379A21
 UniRef90_O67299
 UniRef90_A4WXU3
 UniRef90_B2UF50
 UniRef90_B7RIJ8
 UniRef90_D5AVJ1
 UniRef90_UPI000379D948
 UniRef90_UPI000471B575
 UniRef90_X2GXY0
 UniRef90_I8XYQ8
 UniRef90_Q8A1S5
 UniRef90_A3K6A6
 UniRef90_X1JAM7
 UniRef90_D5EQL1
 UniRef90_M4U4N8
 UniRef90_S1SU36
 UniRef90_I3WKA6
 UniRef90_UPI0004630ED9
 UniRef90_S6C183
 UniRef90_UPI00047AF8AF
 UniRef90_UPI000374F9BB
 UniRef90_C1DUV7
 UniRef90_E8LV70
 UniRef90_K6WY45
 UniRef90_R6JKY4
 UniRef90_C2KN95
 UniRef90_U1D3B4
 UniRef90_UPI00047EBB2B
 UniRef90_T3QL32
 UniRef90_F9SHF1
 UniRef90_E3BLG7
 UniRef90_D3SP18
 UniRef90_UPI000475C3BD
 UniRef90_D6U1G5
 UniRef90_B7GP91
 UniRef90_UPI00028952FB
 UniRef90_A0A037XBC3
 UniRef90_V9WN72
 UniRef90_K2GD87
 UniRef90_B9KWZ8
 UniRef90_D5X100
 UniRef90_R4PWU0
 UniRef90_UPI000299DF8A
 UniRef90_A9A0T7
 UniRef90_UPI0003B4BFA7
 UniRef90_G0TV75
 UniRef90_S9WG85
 UniRef90_W8GZR5
 UniRef90_UPI00016A62E3
 UniRef90_E2SFA7
 UniRef90_R1ID09
 UniRef90_C6XCP1
 UniRef90_F5SRF1
 UniRef90_UPI00047A51F2
 UniRef90_S8FAK6
 UniRef90_Q472Y1
 UniRef90_V6KRE1
 UniRef90_Q8A238
 UniRef90_D2RCZ0
 UniRef90_I3AW73
 UniRef90_E6K214
 UniRef90_D7IY8
 UniRef90_K1TWD0
 UniRef90_UPI0002DE3DD1
 UniRef90_Q57W38
 UniRef90_W5W9V2
 UniRef90_D9T896

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

UniRef90_B1HMS2
UniRef90_I3IR79
UniRef90_A0A022L6R5
UniRef90_D8I8Y2
UniRef90_R5J7B9
UniRef90_K9E2P4
UniRef90_D4TZV2
UniRef90_T5KTV4
UniRef90_F8K3S7
UniRef90_UPI0003773885
UniRef90_U1E8Y0
UniRef90_I7CMA7
UniRef90_T0UI91
UniRef90_UPI00047C1C32
UniRef90_U2RKP0
UniRef90_UPI00037D6062
UniRef90_R6KK12
UniRef90_Q0FQZ1
UniRef90_S6RAL8
UniRef90_UPI0003B6591F
UniRef90_UPI000307037E
UniRef90_D1EA57
UniRef90_Q4CYX1
UniRef90_R5WRC1
UniRef90_UPI000375A73D
UniRef90_Q0RT75
UniRef90_A0KTN7
UniRef90_UPI00035F2179
UniRef90_J1TCF5
UniRef90_A3TRV9
UniRef90_UPI0003716407
UniRef90_J5KB41
UniRef90_A0K1X9
UniRef90_B6XSD2
UniRef90_Q72JX6
UniRef90_G0UVX1
UniRef90_UPI00047948BA
UniRef90_R7QU90
UniRef90_Q2JGH0
UniRef90_R5FWI7
UniRef90_UPI00037C16F2
UniRef90_A4C883
UniRef90_UPI0003B2EF10
UniRef90_F4FAD5
UniRef90_Q3SKW1
UniRef90_W5YAJ0
UniRef90_A1K846
UniRef90_H0QHZ0
UniRef90_A4HMB4
UniRef90_S4IIA0
UniRef90_D7BPM7
UniRef90_V8HUN1
UniRef90_UPI0003B4DEB9
UniRef90_UPI00046807D4
UniRef90_E4U331
UniRef90_UPI00037E9AC6
UniRef90_S4HBW9
UniRef90_B1YFP8
UniRef90_F8A3X0
UniRef90_UPI0004657794
UniRef90_UPI000348564E
UniRef90_Q7UTU4
UniRef90_A0A010QB54
UniRef90_D0DSL0
UniRef90_K6V6M5
UniRef90_UPI000363849A
UniRef90_E3B9J1
UniRef90_UPI0002631044
UniRef90_C5R8S3
UniRef90_K7QTF5
UniRef90_A8ZRD6
UniRef90_W5IHS5
UniRef90_S0KMB5
UniRef90_UPI0003B56FB8
UniRef90_J0L110
UniRef90_C1AYG0
UniRef90_UPI00036E58FD
UniRef90_F9MTK7
UniRef90_U4TME9
UniRef90_R6XG21

1 T L S L Q L M N T D F F L A L 20 P K G K N K N W K E R A E K W L Q Y V A 40
Q T R V W V E E I M G T P M S V H L I S D E A T T E R A V R A C F D E L H Q V D
Y Y A W F E A M H T R I D L I L C N P Q V D S L A V T E E I Y N E I E R I E
W R S S F P A M G T R V D I V L C G R Q G E A L V V N A V H E M L C R L E
W V E K I M G I P M S I H L I S D A V A T E G A I R A C F D E L H D V D
R L R H A E P V M G T V V I S F A V A V D G A R V R E A M E Q A V A F L H R A D
R R S W V E Q I M G M P I S L L A R G G P A S S A A A A A V F A E L R E I D
M M G T I V R T T G Y H A N A A A E R A R D T A L S
M G T Q V S L H L R G P R V D T E P A V A A V F G H L R T A D
V M G I P M S I D I R D A G D H R D V A D R A F E V L R Q A D
R R V E H V M G L P I S L A L R G E G P A A D I A W R A V L Y S L R A A D
F P S M H T R V D I M L C G R Q G E D L S V V D A V Y K M L C R L E
R W R G M A L G A E A E I T L H G P G A E E A L E A A L A K I R A C E
W A G R A L G A D A S I A I A G P D K R A A L L W P K I E A L T I E Q I E
W V D H V M G M P V I S V H V R G D D A H A E R A V R A A F A E L R E V D
W K G V A L G S G A E L R L F G D D R Q A A D L V N K V L A E V A R L E
T L R I V L N G P N E N G E V I A G K V L K E F E V V D
D E V D S Y T V S I D
G T V M G V P M S L D L R A P A D E R A R A A A R A F D L R V E D
M G T V V S I D V R T P P A L D A A I E T A V A V L L H Q A D
I R R A K P L L G T L V E I A A E S D E P A L Q A A I T A A F S R V A H I G
M G T V F S F D L A D R E R V R A G L A A A V A G L H H V D
F E F E T I G S H W H I E A A L P F G E T V R R R L L E E A S R F D
E R R V F V R Q I M G M P V I S I H V R A G R P E I E Q A A Q R V F A H L E R V D
A L G R N M S V I F D T D Q D R A E R L C D A I M A R M T A L D
M G T V V S L T L P A A S G A D E A A T A V V E Q L F A G L D
P Y T T A F P A L G T G L L V S T A R P V S T D L R A K M E Q L I D G Y E
R W E G V L G S F L E V Q L L A P W R A R R A F G A V L R E V R L E
E P K A E A L R E A F Q M V N
Q L R A R T F R S M G T V V S L T V A G S Q D E L E S A V E V V Q G V F T E L D
A D A P A V I Q R L A D D V F A H A H
E P V M G T V V S I D V R T P L A P A D L A A A I E A A V L H R A D
S F I D V S I Y D Y S L D K E N A F D N I E N I F K Q I A
L T I R A L G T Q V R A W G A G A F E A L A E V R R L E
L Q K R M R P L L G T F V E V A I E Q G D F S Q N Q A F A A F S K L E N I Q
T I T F A A M G T L V S A S W R S T P Q V A E V L R V S L P K R A A Q L E
D A L R D A V A E L R A I D
L G T L V E I V A E G D D A T L I A A S D R A F A R I A A V H
E E I Q A A T D R A F D I J A A A D
P L L G T Y V E I G T T A G G R V A E A A L L R A F S C F D L A Q
M G T V I S L T V S A D A H K A P Q A A A D V E R L F T E L D
T L S I A V D G S R Q D A D P V V K A I L S N F T M V D
E V W G T V V T I T L S H Q S P Q F D P V L A A C R D F M D R I D
T W T G R A F G A D L R I T A P G A L P L A E I R A E V A A I E
E A A S E V R A V F A G H D
R R A R P L L G T L V D V Q A E G P E A E A A V A A A F D E I A A V H
R T F E C M G T V I S L T A A E G Q P R L D E L A A A V E R L F R E L D
N I R F I T N Q R I E E K E W Q D I E Q F F H Y V D
W V E Q V M G M P V S V H V R G E D R S T A R A V G A V Y A Q L R D V D
M G T V V S L T V A S N R D E L E S A V D V V E G I F A H L D
P L L G T L V E V A P A G G A T H E A A F A A V W A L L Q D L Q
E L K H R A M A C D F V V L V P D E R V G N R S V A D V L E A I E E I E
H T L N T E I T L Y E E Q T L S A I E R K N I D L L I K D T Y
T I S V A A T E D G L A Y E S V T P L I E A D L K R V D
M G T V V S L A L S A T E P P G L S D R I G A L L D G I E
F Q G I G T G W D I T P L P L P A S L R A R A V L N T V E K F D
E H T M G M A V S I R V A H D E F D S R T A A H R A F A A L H R A D
R F A A M G T R I E L H L F G R D D P A A L A A A E V A I R S A E
Q I K T V T I A S M A M P F T I Q T V S P Y E I T K Q A I Q Y L Q T Y L D Q I D
R W E G V L L G S H L E V Q L L A P W A A R R A L R A I Q E E V V R L E
L L G T T V H L R G V G A T R V L A E M R R L E
Q E N Q T S I K N F I H S F E
M T I P F T I H L V T K E P I D P N L I R Q I D T F L A R I N
R L V F E T M G T V G S L V A P G G L P A N L G P R V M S V F S E M D
M A Q V Q Q E L Q V I D
T W G V H A R I V V T D P D A L S S A S N L I R G Y L A A A D
H K V T R S K P I M G D V I S L T L G V H G A C A M R A M R T A F A Q L E G F A
Y T V Q F Y L F D T V T T V A L P A K Q E E A K D L S D Q I H E E F L H Y H
R I D
F D S G V T M T L Y G D D A E N E E I K T N F V Q K M S Y S



lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm

UniRef90_B1HMS2
UniRef90_I3IR79
UniRef90_A0A022L6R5
UniRef90_D8I8Y2
UniRef90_R5J7B9
UniRef90_K9E2P4
UniRef90_D4TZV2
UniRef90_T5KTV4
UniRef90_F8K3S7
UniRef90_UPI0003773885
UniRef90_U1E8Y0
UniRef90_I7CMA7
UniRef90_T0UI91
UniRef90_UPI00047C1C32
UniRef90_U2RKP0
UniRef90_UPI00037D6062
UniRef90_R6KK12
UniRef90_Q0FQZ1
UniRef90_S6RAL8
UniRef90_UPI0003B6591F
UniRef90_UPI000307037E
UniRef90_D1EA57
UniRef90_Q4CYX1
UniRef90_R5WRC1
UniRef90_UPI000375A73D
UniRef90_Q0RT75
UniRef90_A0KTN7
UniRef90_UPI00035F2179
UniRef90_J1TFC5
UniRef90_A3TRV9
UniRef90_UPI0003716407
UniRef90_J5KB41
UniRef90_A0K1X9
UniRef90_B6XSD2
UniRef90_Q72JX6
UniRef90_G0UVX1
UniRef90_UPI00047948BA
UniRef90_R7QU90
UniRef90_Q2JGH0
UniRef90_R5FWI7
UniRef90_UPI00037C16F2
UniRef90_A4C883
UniRef90_UPI0003B2EF10
UniRef90_F4FAD5
UniRef90_Q3SKW1
UniRef90_W5YAJ0
UniRef90_A1K846
UniRef90_H0QHZ0
UniRef90_A4HMB4
UniRef90_S4IIA0
UniRef90_D7BPM7
UniRef90_V8HUN1
UniRef90_UPI0003B4DEB9
UniRef90_UPI00046807D4
UniRef90_E4U331
UniRef90_UPI00037E9AC6
UniRef90_S4HBW9
UniRef90_B1YFP8
UniRef90_F8A3X0
UniRef90_UPI0004657794
UniRef90_UPI000348564E
UniRef90_Q7UTU4
UniRef90_A0A010QB54
UniRef90_D0DSL0
UniRef90_K6V6M5
UniRef90_UPI000363849A
UniRef90_E3B9J1
UniRef90_UPI0002631044
UniRef90_C5R8S3
UniRef90_K7QTF5
UniRef90_A8ZRD6
UniRef90_W5IHS5
UniRef90_S0KMB5
UniRef90_UPI0003B56FB8
UniRef90_J0L110
UniRef90_C1AYG0
UniRef90_UPI00036E58FD
UniRef90_F9MTK7
UniRef90_U4TME9
UniRef90_R6XG21

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

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

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

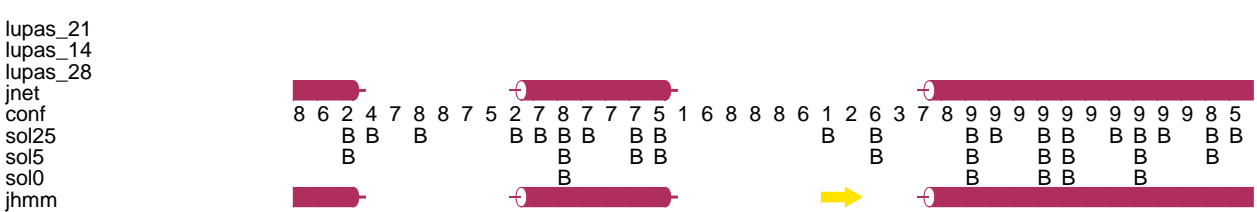
A D F S L Y R T S T L T R L N Q T G F I A N P T R A L Q N M M A V S D R V H
R V L S T Y R P D S S D V S R Y A R G D L P L A D C D A R V R E V L H R L C L L V L
K M F S L Y R E D S L I S R L N R D G G Y L T S P P A D S L E L S L C R D I H
Q H L N H Y N P E S E V S A I N N Q L P L G A H T M S Q H M R R V L M E C C V R V Y
A C A N T Y D D A S D I Y R Y N N A K G E T V E L S A E T F E M L Q I A R E M Y
U P I 0 0 0 3 7 5 A 7 3 D P S P I P E L A E V L R L A E D A R
E D F S T F R P E S S W V S R L R R G E V D L A D C P E H V R E V V L A G R C R
R L S F H Q Q D S E L N L N R Q P G Q W I S L D C E P D S L R V L K L A K W F G
E V F S P Y R P D S S Q V S R L A A G E L A L A D C E P D V A E V F R H C A A E E
R L Y S R F R T D S L V A D M A A A T C G R F S F P E Q D L G L F E L Y D R L F
R V L S T W R A D S D L L R L Q H G E L D V D A A H P W L A E T A E L C L E A E
A V F S L D N P D S E L S R L N R E G H L D T P S D Y L L A L N Q F A R E I T

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

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

E T F S L Y R P D S E A S R L A R G E L T L R A A S A Q M R E R Y A E A H E W R
G E F E F P A W A G P L F A L Y S E F Y

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



UniRef90_B1HMS2 L Q S N G L F S P Y L K L Q L E Q Q G Y N Q S F P F K V A K H Q S S N V 90 100 110 120

UniRef90_I3IR79 Q A T G G L F S G H W Q G W

UniRef90_A0A022L6R5 D R T D G Y F D P

UniRef90_D8I8Y2 R K T D R V F D V T I H S K N N Y R H G I N D I L L

UniRef90_R5J7B9 T R T D G C F D V T I H S A H H T S D T I R S I Q L

UniRef90_K9E2P4 E A T G G A F N P L I G P L V A A W D V K S M R A A Y P A P S E R V V E A A L R

UniRef90_D4TZV2 H A T G G L F

UniRef90_T5KT4 R A T G G

UniRef90_F8K3S7 T L T D G L F D A R

UniRef90_UPI0003773885

UniRef90_U1E8Y0 E R T D G V F D I R Q G A V E H D L K A Y L R G D R E S I S P A F E T G S V R I

UniRef90_I7CMA7 L T H P G N L N I A I G P L V Q S W R I G F D D A N V P N P E K I Q K A L A

UniRef90_T0UI91

UniRef90_UPI00047C1C32 A V I T A G R V D P C A G A D L V R L G Y A A S F E M I D S G T S A A G G V G L R

UniRef90_U2RKP0 D A S A G A F R I R T A E G L

UniRef90_UPI00037D6062 R A T D G A F S V W

UniRef90_R6KK12 T R T A G C F D V T I H S A D Y T P N L I R S V Q

UniRef90_Q0FQZ1 E A S G G A F D P S V Q P L W R A L A S G G D V A A A R A

UniRef90_S6RAL8

UniRef90_UPI0003B6591F K A T G G V F D P S I Q P V W L A T A Q G G D L T A A R Q

UniRef90_UPI000307037E A T T D G A V D A W G W S

UniRef90_D1EA57 A L T E G A F D P T V Q A L W K L Y A D Y F A A R P D T P P P E N S V K E T L K

UniRef90_Q4CYX1 A S S G A C F D P A T G P L V E L R S V M K D E K S D A E S T L T E E E V E R F

UniRef90_R5WRC1 N D T D G A F N P A V Y R L V D L W G F S S R I Y S Y R V V T G E Y F A E H G Y

UniRef90_UPI000375A73D I A S G G A F D V R

UniRef90_Q0RT75 D A T G G W F D P A W

UniRef90_A0KTN7 R A S D N L F N C T V G G E M M S R G A L P A Y L G M P L L

UniRef90_UPI00035F2179 R L S E G

UniRef90_J1TCF5 A A T S G A V D P L V G R D L E L L G Y D G A Y S L R P D L P A I A Q Y A R E

UniRef90_A3TRV9 E R T D G L F R A W

UniRef90_UPI0003716407 I G T G G A F N I A A A P I T A L Y V Q G G Q P D P E S L A A A I A A Q G Y A

UniRef90_J5KB41

UniRef90_A0K1X9 L L T E G A

UniRef90_B6XSD2 D V T R G A I D P C V G E D L I R L G Y D P T L S F T V E A D A E R L G A L R G

UniRef90_Q72JX6 E A T G G A F H P A P A H G G E A F R F V G E E V E

UniRef90_G0UVX1 N S T G A D F D P A T A P I V S R L R Q A V R N P D I V S D T L S E K E V E H F

UniRef90_UPI00047948BA L A T E G A F S A E

UniRef90_R7QU90 D L T G G R F D P T T G V I S R A Y E N C I A D N A R P P L P A E T A R Y K H

UniRef90_Q2JGH0 E R T G G R F D P A W

UniRef90_R5FWI7 T I T E G L Y N P F M G N I Y D A Y D E L L A M N I D K I P N D N F L K T E L N

UniRef90_UPI00037C16F2 Q E T R G W V T P T V L P A L E V A G Y R Q G P G D G R G G D A V L V

UniRef90_A4C883 R S S S G L F N I S C T K P L Q T I G L L P Q H F E D E I F S K

UniRef90_UPI0003B2EF10 Q R T G G F F K L F P C L G W D A E T L Q L R G E Q A R L T D G

UniRef90_F4FAD5 A A T D G W F D A W A V P

UniRef90_Q3SKW1 R A S D G L F D P S V A G R L V E S G Q L P R H T G F P D A T T T

UniRef90_W5YAJ0 E L T D G L F T A F S

UniRef90_A1K846 R A S D G L F N C T V G G R L V A L G A L P E H G G T C L E Q G H A D D L V L G

UniRef90_H0QH20 L L T E G A F T P E

UniRef90_A4HMB4 N I S G S C F D P A A A P L V H R L R N A A R R Q D S T E A D F M I T A E V A G

UniRef90_S4IIA0 A A T H G A F D A C I G A D L L A L G Y D N S K N E N S S S D S W A N Y R R A L

UniRef90_D7BPM7 T M T N G A F D P

UniRef90_V8HUN1 D L T R G A F D P T V Q P L W L A L A E G R D P L Q P R A

UniRef90_UPI0003B4DEB9 E R T G G A F T P

UniRef90_UPI00046807D4 D A S A R A F D C R V G T P E Q L A D T R F

UniRef90_E4U331 D A T K G A F D I A L A G T F K S L S N L A T L D D Y R V Q K K K L A

UniRef90_UPI00037E9AC6 L R T E G A

UniRef90_S4HBW9 A A T R G A F D A C I G A D L L A L G Y N N S K N E N S S S Y S W S N Y R R A L

UniRef90_B1YFP8 E Q T E H Y F S P F L L E Q Q R A N G Y D R S F P F R R A V E S E M

UniRef90_F8A3X0 V A T D G A V D A W

UniRef90_UPI0004657794 L A T D G A F

UniRef90_UPI000348564E T L S D G A F D L A Q G S G

UniRef90_Q7UTU4 E R T Q G A F D I T A G P L V E T W G F T K R E G R K P K P D E I E S A R E

UniRef90_A0A010QB54 N R T E G N I S C R N G A L Y D Y W A E Y V Q G K H D I S R R E V R R L A

UniRef90_D0DSL0 D Q T E G L F N P Y Y G

UniRef90_K6V6M5

UniRef90_UPI000363849A R V T G G A M T P L I G G S L E R L G Y D A A Y S L R P A G P P L

UniRef90_E3B9J1 T V T N G L F

UniRef90_UPI0002631044 R A T G G R F D P S L G A W S A L A

UniRef90_C5R8S3 N L T E G A F D P Y F

UniRef90_K7QTF5 E A T Q G A F H P A P R H G G V P Y H L A G N

UniRef90_A8ZRD6 R A T R G L V T P T V L G A L Q Q V I G Y G E P S P G R P

UniRef90_W5IHS5 T A T D G A F D P C V G E D L V R L G Y S Q S F E L I K A E E P I K I R K K I H

UniRef90_S0KMB5 E K S E G L F D P F Y N G N Y

UniRef90_UPI0003B56FB8 A Y R S A

UniRef90_J0L110

UniRef90_C1AYG0 K T T T G F F D P Y Y A S

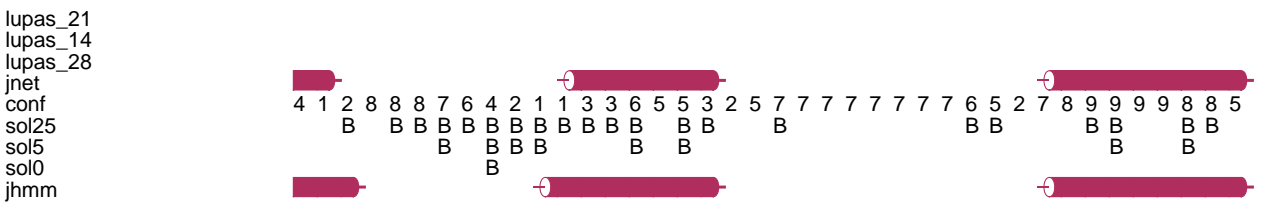
UniRef90_UPI00036E58FD R T T D G A L D P T V A P A L H S W R

UniRef90_F9MTK7 Y R S D G V F D V A A T G T G G A A D

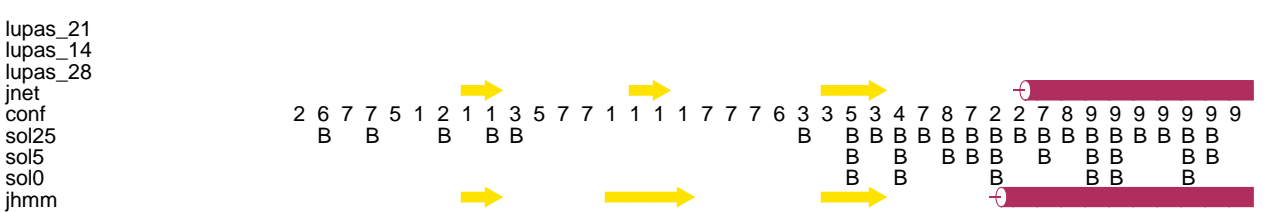
UniRef90_U4TME9 K T Q S K E V N I A M G S V L K I W S D Y R D H D Q A H L P M D Q L Q E A A K

UniRef90_R6XG21 E T T Q G F D P F F

UniRef90_U4TME9 L R S N L K Y N L S I G S L S T L Y D D Y Q N Y L N Q L S K D D S K L Y Q T L V



UniRef90_B1HMS2 K S I S G K P F Q F L S N Q Q V M K L A N Q E I D L G G F A K G Y A I E T L A N
UniRef90_I3IR79 I D D N D K L I S F T H K Q T K I D L G P V T R G Y A V D R A L E
UniRef90_A0A022L6R5 F D D P T G W V K G W A V E E A S R
UniRef90_D818Y2 W Q L P G G F D P S G L V K G W A E N A T A
UniRef90_R5J7B9 L S T T D Q T V F F S H P D V Q I D L S G Y L K G Y A L D R V K D
UniRef90_K9E2P4 L P Q E R T L F F L Q S G L T I N L S G F L K G Y A L E K T R H
UniRef90_D4TZV2 A S S W G L L S R V G E R R W V M D A P S P L D L G G I A K G Y A D C R D
UniRef90_T5KTv4 S G Y R E G W F D P T G W V K G W A V E E A S R
UniRef90_F8K3S7 W F S T G Y A G G L D P T G L V K G W A V E R A A
UniRef90_UPI0003773885 R P D D S W D P S G Y V K G W A V Q R A A R
UniRef90_U1E8Y0 I I N P D R I I R D D E F S I F L P E K G M E I D L G A I A K G Y I A D R I K D
UniRef90_I7CMA7 D G D L V V T E T E L D L N G L A K G Y I V D R A T A
UniRef90_T0UI91 L S N P N N I I L N P N T K S I F S Q K G M K I D L G A L A K G Y I A D K V M D
UniRef90_UPI00047C1C32 R A H W G F D V H R D G G S V L V T D R A V Q L D F G A C G K G L C V D L L C R
UniRef90_U2RKP0 L D L D G V V K G W A A A N A S A
UniRef90_UPI00037D6062 R D G T L D P S G V V K G W A V Q R A S A
UniRef90_R6KK12 L S P Q E R T L L F L Q P G V T I N L S G F L K G Y A L E K T R K
UniRef90_Q0FQZ1 R I G W E K I V R D G N R I A L G P G Q A L T F N G I A Q G V A T D A V A E
UniRef90_S6RAL8 G Q Q L C K N A A V Q V D L N S I A A G Y A V D R I T E
UniRef90_UPI0003B6591F N I G W P R V Q W S E T D L K L E T D M A L T F N G V A Q G F A A D V V A E
UniRef90_UPI000307037E R R G F D P T G V V K G W A V E R A L D
UniRef90_D1EA57 R V G F G K V S F D D R E I R F A E K G M G L S L N G I A Q G Y I T D K V V A
UniRef90_Q4CYX1 C L P Q S F D V N M T D G T I A R K H E G A K L D L G G V N K G Y T V D R V V E
UniRef90_R5WRC1 P L P E Q K Y I D A F S D G K F T D Y Y Q Q W L D L G G I A K G Y A V D G L R Q
UniRef90_UPI000375A73D R P D G G L D A N G V V K G W A V Q R A V G
UniRef90_Q0RT75 R R D G T L D P T G L V K G W A D A A S A
UniRef90_A0KTN7 L Q G D W R D I E I Q A D K A R L A R L T L D G I A K G Y A V D M A V T
UniRef90_UPI00035F2179 W F T P R Y A G G L D P T G L V K G W A V Q R A V E
UniRef90_J1TCF5 R R A W D R D V C R Q G S D L I T R R S V V V D V G A A G K G H L V D L L A G
UniRef90_A3TRV9 R A R D G G R P T F D P T G L V K G W A V D G T S A A
UniRef90_UPI0003716407 L P G R F G L K L S R D D M Q L D F K T C L T G F T A D I I K A
UniRef90_J5KB41 N R F I L N N N N K S I T K L N D F W F D L S S I A K G Y A V D L I Y E
UniRef90_A0K1X9 F T P E R P D R V L D L S G I V K G Y A I Q E A G T
UniRef90_B6XSD2 R P V W G H D V V R S D G T T L V T H G S V H L D F G A C G K G Y L V D A G A T
UniRef90_Q72JX6 V L A P L D L D G L A K G Y I A D K G A E
UniRef90_G0UVX1 S L P R S F E L N L E E G T I T R K H E E A R L D L G G L N K G Y T V D Y V V N
UniRef90_UPI00047948BA R P D G I L D L S G I V K A H A A R E A A L
UniRef90_R7QU90 A I G W R K R I S R T A D T V T R G N A N T I V D V D G I A K G F V I D L L V A
UniRef90_Q2JGH0 R G D G T L D P T G L V K G W A E A A S R
UniRef90_UPI00047948BA N S K N T K I I F S E Q G R S V R K I G D G K I D L R D I A N S Y A L K L S K
UniRef90_UPI00037C16F2 P D T A G I V V R D E I I R L P P G V R L D L G G T A K G W I A G R A G R
UniRef90_A4C883 C N T P P F L I N N H R V K I T Q G H Q L C V D G I A K G Y A V D C A Q A
UniRef90_UPI0003B2EF10 V G A G G L D L G G I A K G Y A A A Q L A S
UniRef90_F4FAD5 G G F D P G G L L G G W A V E R A A A
UniRef90_Q3SKW1 D W R G I E L D G D R V R Y T Q P L L V D L S G I A K G Y A V D V A L T
UniRef90_W5YAJO R N D S G S D P R K Q E A I F D P T G L V K G W A L E K A A A
UniRef90_A1K846 R A R G T A F C R L A R P L K I T L D G I A K G F T V D L A V A
UniRef90_H0QH20 R P D G A L D L S G I V K G H A I R E A G M
UniRef90_A4HMB4 R F T L T N S I N V K E G T I A R K H E D A M L D L G G L N K G Y T V D C V V D
UniRef90_S4IIA0 P V T W A D I S R D D G G T T L H M N Q P V Q L D F G A A G K G Y F V D L V T Q
UniRef90_D7BPM7 W I V P G G F N P S G Y V K G W A C E R M A R
UniRef90_UPI000378HUN1 A I G L H R V Q I G R E I V L S R G Q A L T L N G I A Q G H G A E R V A E
UniRef90_UPI0003B4DEB9 P V A F A G D V V C K Q T F A R M D L G G I A K G Y A V D R A I E
UniRef90_UPI00046807D4 P F A S C A H L I L E G N H L T F A N E Y T K I D L G G L V K E Y A V D Q S I L
UniRef90_E4U331 F T P E R P D G V L D L S G L V K G H A I R E A G T
UniRef90_UPI00037E9AC6 P V T W S D I S Q D S G S A T L C T N Q P V Q L D F G A A G K G Y F V D L V T Q
UniRef90_S4HBW9 N L P P E I S P F L V E G C E V T R V G G T I D L G G I G K G A A A M M A
UniRef90_B1YFP8 R W S P A G Y D P T G V V K G W A V E R A L T
UniRef90_F8A3X0 T S E R P D G I L D L S G I V K A H A M R E A A F
UniRef90_UPI0004657794 P W H W D G T W L W R E H A R T R L D A G G L A K G D A I D Q A V A
UniRef90_UPI000348564E R V G W K R L T L D V E S R T A R F A V E M S L N M G A I G K G H A I D V L A A
UniRef90_Q7UTU4 R V A R I A E V N F N D D N S V A F A S P I Q W D L S E F A A S L A V D R I V N
UniRef90_A0A010QB54 G K Y D P T G Y V K G W S I Q T A F E
UniRef90_D0DSL0 W Q T A T E G V F S P I R P D G R L D L S G V V K A Y A I G R V A E
UniRef90_K6V6M5 P A P A W E S V L T W S G T V L T A S A P V L L D L G A A G K G L L V D L L A A
UniRef90_UPI000363849A T T D L V G P D G S R G Y D P T G L V K G F A V E R A A D
UniRef90_E3B9J1 I D P A A R R I V A E R P L T L D F G G F G K G F A L D R A V Q
UniRef90_UPI0002631044 N N H Y D P T G L V K G W A I Q H G F E
UniRef90_C5R8S3 R V E L F A P I D L D L A K G Y I A D R A A
UniRef90_K7QTF5 R G V P D A R Q V R V S A G S I H L A P G V G L D L G G T A K T W I A S R A
UniRef90_A8ZRD6 R L Q W E S L R Q A G P G S T L T V S Q P V T V D F G A V G K G F L V D V T A D
UniRef90_W5IHS5 D P T G L V K G W A I E E A F F
UniRef90_S0KMB5 Y W V A H D W G T L T D G A F H P Y R L D G T I D L H G V V K A L L A I D A
UniRef90_UPI0003B56FB8 E F N P T G L V K G W A I E K L I F N
UniRef90_J0L110 S I T V D G T E V T L P A G V E L D L T A T A R A S S A D H C A S
UniRef90_C1AYG0 W M D I D L S V Q G F V T L R R P L M I D L G G V R K G F A V D L A V Q
UniRef90_UPI00036E58FD H S N I D D I I L N P E E K T V F K D P K M A L D L G A V A K G Y A T E K
UniRef90_F9MTK7 N G P F D P T G Y V K G W A V A Q V T R
UniRef90_U4TME9 M R D T Q K V V V N R D F K T T D S K Y T T S I T L G G Y G K G Y A E K
UniRef90_R6XG21



UniRef90_B1HMS2 E V A K T D V Q A T V V V T S S L C D A E V W A K L C F L I D E S E Q Q Q W F E T 250 260 270 280

UniRef90_I3IR79 K P V N G N L A V T A M A G T A E E A G V L A T I L F I H G A E D I Q R F S A I

UniRef90_A0A022L6R5 E P A T G V A S A T I V A D G L A Q A D V W A T A A V V A G R T D H S W I G P S

UniRef90_D8I8Y2 T Y P R D L H A V T V T G P A L L W A D V F A T A T F A R G G D V A R W V T A R

UniRef90_R5J7B9 E Y V E G V K E M S V V T T E G V L G E V I S T S F I I N P E

UniRef90_K9E2P4 K L V E G K R E V A V V T A D G A V V G E V L S T S L E I A D A R Q

UniRef90_D4TZV2 Y P A H G V R Q V S V V A S S G V L A E A L S T A L L V D P S I D V S D V V A R

UniRef90_T5KT4V A P A T A V A S A T V V S D G L A Q A D V W A T A A V V A G A L D W I E A S A S

UniRef90_F8K3S7 E P A G A P L S L T V V T R S L E T D A D A W A T A A F A M G P R A R R W V E D

UniRef90_UPI0003773885 G P A T H W A S V T V A G T S L E L A D V L A T A A F V A G P S W T E I V A I

UniRef90_U1E8Y0 Y P H H N Q A S V T V L S Q K S I D G E I E T T R L F F A D G P I E N W L T E

UniRef90_I7CMA7 R L G A R H E S V T V V A R D C M E A D A L A T T L A A L P L S D A L E R A A A

UniRef90_T0UI91

UniRef90_UPI00047C1C32 E P V D D V A A S W A A V P M T M V A D G L A T A L F C A E P

UniRef90_U2RKP0 R P A S G L V S A T V V A A S D L T T A D V L A T A V F

UniRef90_UPI00037D6062 A A P A G L A G V T V L A A S L T D A D V D A T A A Y A L G P D A L T W L R R

UniRef90_R6KK12 K P V E G K R E V A V T D N G A I G E V L S T G L F V A D A R Q

UniRef90_Q0FQZ1 A G G V L W S T V E A E S A A L A D A L S T A G C M M D A D A L H R A A T A

UniRef90_S6RAL8 S P V N H G A S V T V L H P S A L M A D G L S L L L I L G P E R G W N Y A Q E

UniRef90_UPI0003B6591F A P L W A T V A V S G P S A A V A D A L S T A F C L M D R A A I D A A L T H

UniRef90_UPI000307037E L P A H G V R S A T V V I G P S P C W A D V W A T A V M V

UniRef90_D1EA57

UniRef90_Q4CYX1 E P V E S E A Q V S I K C Y S A M Y A D A L A T A S L T K D I S K V R H M L E E

UniRef90_R5WRC1 A P A Q T V K E V L V V I P W A G K G D C L T T A L T V M G R Q K T V D F V N K

UniRef90_UPI000375A73D R P A E A L L A A T V V A G D L T T A D I L A T S V L A L G P Q T D G V G W A

UniRef90_Q0RT75 V P A S G L A S V T V V G S D L T V A D A Y A T A A L A A G S D T G D L L A E

UniRef90_A0KTN7 L D E Q Q C R V S V V R A P F A W R A D A L T K V A G P Y L D D A T A A T K

UniRef90_UPI00035F2179 A P A G S L A S L T V V R S R F G L T Q A D A R A T A G Y A M G P E A R A W L E R

UniRef90_J1TCF5 Q P T S N V A T F A V A D N A A A D G L A T A L F F A C E P T L R A

UniRef90_A3TRV9 Q Q I S R P G S A T V T G P E L L W A D V W A T A A F V D P T T T E R L L E A

UniRef90_UPI0003716407 Q Q P A L Y R N V I T A D R A V L A D A L S S A F S L M P M A E I T A

UniRef90_J5KB41 E P I N N K S T S V T V S N S T T D A D A L A T A L N A M P F E Q A L D F S N N

UniRef90_A0K1X9 R V A P V F R Q V S V A A D I V T A D V L A T A I V A G G L P M L D R A

UniRef90_B6XSD2 L P A Q Q M E A T W I T V Q S T S V A D G L A T A L F I A D P N E

UniRef90_Q72JX6 R P A F G L Q A T V L A P S A L L A D G L A K A L F V L G E E A F P V L R A

UniRef90_G0UVX1 A L A Q V S V K A Y S A M Y A D A L A T A C L I

UniRef90_UPI00047948BA A N R S G F I Q V S V A A A D I V T A D V L A T A I V A G G T R T L D Q A V E

UniRef90_R7QU90 S V M K A N Q M V C V A A S T C A I A D A V A T A S M T F D L P Q A V A F L Q Q

UniRef90_Q2JGH0 I P A T E L V A I T L V G P D L T L A D A Y A T A A L A A G R D A W T L L V D

UniRef90_UPI00037C16F2 K P E N M Y D I C V V I D N D P V R V S I L F S R I F I T L E T E K F T K F Y L K

UniRef90_A4C883 A P A H R F V Q V T A V T G D V R T A E T L A K L A L L G A D E V L E H L I A A

UniRef90_UPI0003B2EF10 I T S A G C W S V L A K K A W R A D A L T K V V A L L Q G

UniRef90_UPI0003B2EF10 L A F T D I C A A L V V G P D A M S C E A L S T A L I A G G S P L L H D L T Q K

UniRef90_F4FAD5 E P A D Q M V A A T V V G P N L A V A D A Y A T A L Y A A G P S G L N W F R S

UniRef90_Q3SKW1 E A L C A E T S V T V L A P D C M T A D A L T K V F A A D S A C A A G V L A R

UniRef90_W5YAJ0 G Q T A W T G A L T V C G P S V M W A D V L A T A L F A N P G S H Q Q I L S R

UniRef90_A1K846 L A A G V H S V L A R Y A W R A D A L T K V A S Q L P A A N R A E R

UniRef90_H0QH20 T A E F R Q V S V A A V D V T A D V L A T A I V A G G V P M L N R A T A

UniRef90_A4HMB4 G L A Q V S V K C Y S C V L A D A L A T A S F V

UniRef90_S4IIA0 I P A C D L C A S W V Y A K T C D Y A D A L A T A L F V S Q E S D L Q K I V Q T

UniRef90_D7BPM7 A A A N G A C S A S V V G P D A A V A E I L S T A L V V D G R K S P A W F A G

UniRef90_V8HUN1 I P R F S T V T V E G A S A T L C D A S T A F V L M

UniRef90_UPI0003B4DEB9 R T A T T F V Q A T V V A D I V T A D V L A T A I V A G D E D D L R R V T S

UniRef90_UPI00046807D4 L A L P A L A G A T V R A P T C V L A D A L T K I V L A T G D A A S P L L A Q

UniRef90_E4U331 E C S K H Y S Q V S I I A P T I V D A G V W S T A L L

UniRef90_UPI00037E9AC6 T E F V Q V T V A A A D I V T A D V L A T A I V S G G T P M L N L A A D

UniRef90_S4HBW9 I P A C D L C A S W A Y V P R T A Y A D A L A T A L F V S Q E N D L Q K I V Q

UniRef90_B1YFP8 R P I E R F V Q I T A S A P Q L Y E A E V M T K L A F Q M T E S E R Q K L F K W

UniRef90_F8A3X0 E P A N G V L S A T V V I G P S L T W A D V W A S A V A I

UniRef90_UPI0004657794 G A A P E F A Q V S V A A S D I V T A D V L A T A I V A G G T R T L D Q A

UniRef90_UPI000348564E A P I H T H L S V L A P T A L A A D A L T K V L A Q Q P E L P A A W L A

UniRef90_Q7UTU4

UniRef90_A0A010QB54 W P S A K F Q V I S V A D N A F E A M L L A H Y S A T K T A Q Q A M E L A N A

UniRef90_D0DSL0 E D D L L Q V T V S V D D Q L S F A D V W A T A G M A A Q Q A F D A L I A K

UniRef90_K6V6M5 E P F V Q V T V A G P D I V S A D V L A T A V L A G G R H T L D M A C A

UniRef90_UPI000363849A Q P V R

UniRef90_E3B9J1 V D E N R C A S V T V V G P D L V W A D V W A T A C F L

UniRef90_UPI0002631044 T H V S A P A T A V A V A A T G A E A E A W S T A L L V A D A A S A D R L C A A

UniRef90_C5R8S3 S P D D S L T Q A T I I A N E L I V A D V M A T T A I A M G R Q K F E A F A N K

UniRef90_K7QTF5 R P A A G L Q A T V L A G S A L L A E A L A K A L F V L K E E A W P L K A

UniRef90_A8ZRD6 R P L R S R V Q V T V A A R Q L T V A E V L T K L A F L D E A E L G R

UniRef90_W5IHS5 N V I A T A W L V E N Q Q F S T A W A D G V A T A L F L C N P Q K L Y A K

UniRef90_S0KMB5 D T T Q Q V T I L A P Y L S J A D C W A T V G V A A D E S Q F Q H L J R K

UniRef90_UPI0003B56FB8 E H Q F R Q V T V Q A R D I V T A D V L A T A I M A G G R Q T L Q Q M Q T

UniRef90_J0L110 H S L L Q A T I I S E G L T W A D I W A T T A L A A G Q Q K F I N L L T E

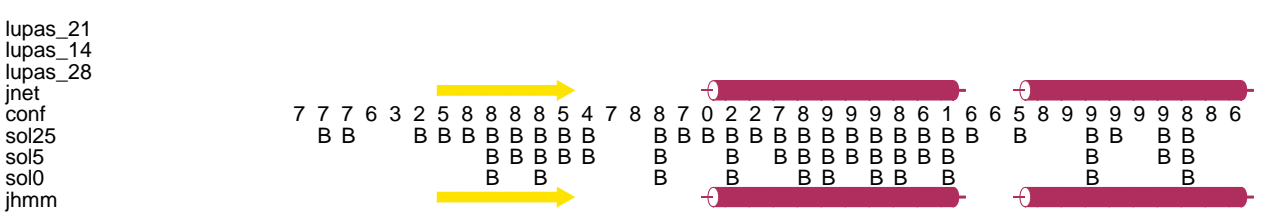
UniRef90_C1AYG0 D S I S L W R T V S V V A Q S C T T A H A S S T A A V G M G G A I D W

UniRef90_UPI00036E58FD

UniRef90_F9MTK7 R G P A D L A Q V T I L A P N L T A A D V W A T A G L A G G Q V R L L D H I A Q

UniRef90_U4TME9 I S D T Y F D S A S I M I D D P G Y A D M Y S T A L M L Q E A E E L R N L L D S

UniRef90_R6XG21



UniRef90_B1HMS2 N C Q R N A R F I V K 290 300
UniRef90_I3IR79 L P E K E W L L L S E K Q K G D I E M S S G M E K
UniRef90_A0A022L6R5 A T R T G I V V D D D G A V T R
UniRef90_D8I8Y2 A P G Y E V A A L
UniRef90_R5J7B9
UniRef90_K9E2P4
UniRef90_D4TZV2 W S R L S G A L
UniRef90_T5KTV4 R T G I V V D H E G V V T R
UniRef90_F8K3S7 H P R A E A F A V N R D G G T W R T G G F P
UniRef90_UPI0003773885 G P G C I G L A I G H D G A L V P T G G W P R
UniRef90_U1E8Y0 N P E V Y G A I F I S K D K K I
UniRef90_I7CMA7 W P D L E A F V I H D G V F R T T E G F D A H
UniRef90_T0UI91
UniRef90_UPI00047C1C32
UniRef90_U2RKP0
UniRef90_UPI00037D6062 R V G R T G L V V W A D
UniRef90_R6KK12 R E I L E A E F
UniRef90_Q0FQZ1 L G G V R R I T L V T H E G D L R
UniRef90_S6RAL8 H K I P A F F V I R A D K R F I I R S N A
UniRef90_UPI0003B6591F F P N T R L E H I
UniRef90_UPI000307037E
UniRef90_D1EA57
UniRef90_Q4CYX1 W R H
UniRef90_R5WRC1 E R N I T L V V V Y E T M D G
UniRef90_UPI000375A73D L G Q G A A W A L G V R P D G T L
UniRef90_Q0RT75 F T R A G W A W L T V T T T G R I R A G K A F P
UniRef90_A0KTN7 I Q Q L G G D L V
UniRef90_UPI00035F2179 L D G T E G F A V A A D G T T W Q T S G F A R H L
UniRef90_J1TCF5 H F E F T S V R M F A D G H V E I S P D F E I F L S E
UniRef90_A3TRV9 R D P A Y R L L V
UniRef90_UPI0003716407
UniRef90_J5KB41 N N M S V M F I I K T E S S E I V Y S D S W
UniRef90_A0K1X9 T D G W D I E V L A V R T G G E L L A T P G F R R
UniRef90_B6XSD2
UniRef90_Q72JX6 F R A R G L L F T P E G P V
UniRef90_G0UVX1
UniRef90_UPI00047948BA R W G V G V L A V N S D G T L L A T P E F R A
UniRef90_R7QU90 L V D
UniRef90_Q2JGH0 L A R E G W A W L I V D A V G R L D H S G G F P
UniRef90_R5FWI7 Y N F D I L I F K D K E L V Y
UniRef90_UPI00037C16F2 Q P G A R L L A Y E A S G A T W T W E G
UniRef90_A4C883
UniRef90_UPI0003B2EF10 G V L G G A Y A L A M T S N G R V F A D P A L Q L
UniRef90_F4FAD5 G S D Y R A L I
UniRef90_Q3SKW1 H G A Q A I V L D G Q R A I
UniRef90_W5YAJ0 F P G Y E V
UniRef90_A1K846 I H A L G G H V L
UniRef90_HOQHZ0 M W D L E A L A V R A N G E L L A T G G F R R
UniRef90_A4HMB4
UniRef90_S4IIA0 T S A E F A V M L P N K T L R K T R A F P A H
UniRef90_D7BPM7 F P Q Y S A F V V
UniRef90_V8HUN1
UniRef90_UPI0003B4DEB9 D G G V D V L A F G A D G R V W A T P G A R R
UniRef90_UPI00046807D4
UniRef90_E4U331
UniRef90_UPI00037E9AC6 T W D V A V L A I R A D G S M L A T P A F R
UniRef90_S4HBW9 N V G A E F A V M Q P N H A L R K T C A F P A
UniRef90_B1YFP8 F P N G R L L L M D E S G K M
UniRef90_F8A3X0
UniRef90_UPI0004657794 V E K W G A D V L A V R R D G T L L A T P E F R
UniRef90_UPI000348564E G L G A H A V F H D A
UniRef90_Q7UTU4
UniRef90_A0A010QB54 S P S L A V K L I D E S G R V F T S
UniRef90_D0DSL0 Y R L S G L Y L
UniRef90_K6V6M5 R W D V A V L A V A P D G G L F A T S H F
UniRef90_UPI000363849A
UniRef90_E3B9J1
UniRef90_UPI0002631044 A P D R H F R F
UniRef90_C5R8S3 Q N L H G L L I T N T S Q
UniRef90_K7QTF5 H G A Q G V L F T G E G
UniRef90_A8ZRD6 L P H L E F E F F Q F F T D R S A A F S P G F P A
UniRef90_W5IHS5
UniRef90_S0KMB5
UniRef90_UPI0003B56FB8 E H Q L E V L A F G Q T G D V W A T P A F R A
UniRef90_J0L110 H Q L T G L M I T S K T L I P F S E G
UniRef90_C1AYG0 L T N L E L P A R L V D Q E F R V I T L G G W P
UniRef90_UPI00036E58FD
UniRef90_F9MTK7
UniRef90_U4TME9 A Q L T G L F V T A A H R V Q
UniRef90_R6XG21 T Y N F S T W A F Y T A H N K L N F E Q T L K A Y L P E

lupas_21
lupas_14
lupas_28
jnet
conf 2 6 8 7 3 6 8 9 9 9 8 5 5 8 5 5 8 8 5 3 6 7 1 1 0 0 1 7 9
sol25 B
sol5 B B B B B
sol0 B B
jhmm

1



10



20



30



40



50



60



70

80



130

140



150

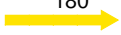
160



170



180



190



200





