

QUERY
UniRef90_Q8TXX8
UniRef90_F2KNU6
UniRef90_A0RBK9
UniRef90_Q3AEQ6
UniRef90_A7HVZ0
UniRef90_Q7VD57
UniRef90_Q3AEQ9
UniRef90_D3DGZ6
UniRef90_N2A6U2
UniRef90_K9TFK9
UniRef90_A6Q363
UniRef90_R5JGU3
UniRef90_UPI0003815CB4
UniRef90_R5L3D0
UniRef90_H5SDP8
UniRef90_UPI00047B1D86
UniRef90_U4PVB6
UniRef90_E4T0E0
UniRef90_W1S1H0
UniRef90_UPI000379F91F
UniRef90_E0RUN6
UniRef90_A0B5D8
UniRef90_D5VFT5
UniRef90_B3TC50
UniRef90_E1RGH5
UniRef90_B6XDD7
UniRef90_K9GX00
UniRef90_D5WW53
UniRef90_C7PB45
UniRef90_V9H266
UniRef90_UPI000382A76E
UniRef90_D3L3K2
UniRef90_UPI00035E979B
UniRef90_V6SWD9
UniRef90_C6SSQ9
UniRef90_I9M4T8
UniRef90_R5V478
UniRef90_M7N026
UniRef90_X1NIG2
UniRef90_UPI0004708EB0
UniRef90_H0PW82
UniRef90_UPI00041F98C8
UniRef90_M1WQD3
UniRef90_UPI00038150CD
UniRef90_R1GPZ6
UniRef90_G9RY89
UniRef90_UPI0004640E83
UniRef90_U2TV95
UniRef90_G9MRZ7
UniRef90_E6N6A6
UniRef90_I3Y7R7
UniRef90_W0E9M8
UniRef90_R6W170
UniRef90_UPI0003B6BC0F
UniRef90_DOMG78
UniRef90_UPI000361EE3D
UniRef90_UPI0004780881
UniRef90_F8E448
UniRef90_K1ZL14
UniRef90_C0QTE1
UniRef90_Q65QD0
UniRef90_Q47FL3
UniRef90_UPI00046FFEC7
UniRef90_U7D552
UniRef90_N9U218
UniRef90_W4QFQ2
UniRef90_C8WFFQ4
UniRef90_C7NBU3
UniRef90_Q1PZC9
UniRef90_Q2G625
UniRef90_A4FPC0
UniRef90_I0W7B8
UniRef90_A0A037Z4L5
UniRef90_Q3A3A6
UniRef90_M1SCI5
UniRef90_R5R844
UniRef90_B8GEI0
UniRef90_R9L1G5
UniRef90_U1QXD0
UniRef90_G2LP94
UniRef90_UPI000373CCD9
UniRef90_C6KIN9
UniRef90_F9Z5X7
UniRef90_A1B417
UniRef90_UPI0002559A5B
UniRef90_M8DHH0
UniRef90_D4KTZ7
UniRef90_F0S338
UniRef90_E3BH45
UniRef90_C9AAP6
UniRef90_S7U5Y7

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

QUERY DWDK DADPQS HHL FDR HVSS 170 180
UniRef90_Q8TXX8 VQEAEVDVEIPKTVIE
UniRef90_F2KNU6 VTMADLIEFDYPKLD
UniRef90_A0RBK9 MVVEQGE
UniRef90_Q3AEQ6 VAARTIDFQYP EKVE
UniRef90_A7HVZ0 VQFQRAEYAGPQ
UniRef90_Q7VD57 VQQLFDYQP VQ P
UniRef90_Q3AEQ9 VSAARRARYEFPEKVE
UniRef90_D3DGZ6 ITQKISDVIEPSLEE
UniRef90_N2A6U2 VTSANKADPEQIRMPER
UniRef90_K9TFK9 VGSQEFDYTPVQPA
UniRef90_A6Q363 VTAQVAE
UniRef90_R5JGU3 VTA AETDYE P VVP EEE S PVT
UniRef90_UPI0003815CB4 IQVAKEGEPAPHLPLVVEE VVS
UniRef90_R5L3D0 ITS AKCEYYPA
UniRef90_H5SDP8 VSLGKLEWDP
UniRef90_UPI00047B1D86 IPEAVQDEVEIDLP GY Q PTT
UniRef90_U4PVB6 LQFATGTYT PP
UniRef90_E4T0E0 AQTQEVEFE
UniRef90_W1S1H0 VQIATA P YARPEL
UniRef90_UPI000379F91F ITTAKCEFSYPETL HLR S
UniRef90_E0RUN6 VTA KTCDFRPVVIAD EEP A
UniRef90_A0B5D8 ITELEFDYPEINLP GYN PST
UniRef90_D5VFT5 VQFAKGEYYPGQ
UniRef90_B3TC50 IQQA E V
UniRef90_E1RGH5 VLMKSVSPEE
UniRef90_B6XDD7 VQTATLELETLP
UniRef90_K9GX00 VLMKEGEYTPAARV
UniRef90_D5WW53 VANQKAVFEPERVV
UniRef90_C7PB45 AVQAKFD FESYRVP PR
UniRef90_V9H266 ITA AKKAYEP
UniRef90_UPI000382A76E VQMS PGVYVPA RESRR
UniRef90_D3L3K2 VQNEEGEP KLEFPGY HP
UniRef90_UPI00035E979B IQLSKV
UniRef90_V6SWD9 LAAAE PA EEEHLPGY Q PTT
UniRef90_C6SSQ9 VSEKR V
UniRef90_I9M4T8 IQMA
UniRef90_R5V478 VQTALYEYNVE P VVE K
UniRef90_M7N026 AQLQQFQA PAVVP CD HLR S
UniRef90_X1NIG2 VQVTKADF KIPAKIKYARPS
UniRef90_UPI0004708E80 VTRPDHKIPYQYP AQVSMRS
UniRef90_HOPW82 VQNLVTFEAFPEP
UniRef90_UPI00041F98C8 AQFGE M DFE
UniRef90_M1WQD3 IQSAIMEFDEWP LP GK
UniRef90_UPI00038150CD AQFEEFD
UniRef90_R1GPZ6 VQLAQIEEA
UniRef90_G9RY89 VGTATAEFT P V K P
UniRef90_UPI0004640E83 VTA AK
UniRef90_U2TV95 VTAAT CA YE AV PTEE HR V
UniRef90_G9MRZ7 I
UniRef90_E6N6A6 VFME E VEEQPE P LF NR PL P
UniRef90_I3Y7R7 VTD P NIKIPYHYPRE LRMRS
UniRef90_W0E9M8 VFAAQLDFEYYPQ
UniRef90_R6WI70 VFD E SCDYVPAK I T E K P
UniRef90_UPI0003B6BC0F VQLKECDFDAWP
UniRef90_D0MG78 VLLAKA PPEE VHLR GY R LP
UniRef90_UPI000361EE3D KTA PNEKY P Y H F P E
UniRef90_UPI0004780881 CQNP KVKFPYEPQP LSE IS
UniRef90_F8E448 VMADKTKAKE SP
UniRef90_K1ZL14 LVAS KLTYPDKTPI HLR S
UniRef90_C0QTE1 ITQQEYDY
UniRef90_Q65QD0 VQFAE
UniRef90_Q47FL3 VQTQA LE I GEPPE PGR
UniRef90_UPI00046FFEC7 VSKTAPFYYP ERVE
UniRef90_U7D552 VTTATMTGYSYP
UniRef90_N9U218 VQLAAFTPRA P
UniRef90_W4QFQ2 V
UniRef90_C8WQ4 VQTAVTDY I K P D P N K R
UniRef90_C7NBU3 IQQQELISYEERL FDK E V
UniRef90_Q1PZC9 VTM AE CE E I IPPEID
UniRef90_Q2G625 VQIATA A WSAAPQQR
UniRef90_A4FPC0 VQKQELI E W D P S I D A P LP V T A
UniRef90_I0W7B8 AQFESFD
UniRef90_A0A037Z4L5 ITA AVYE F Y N E E V
UniRef90_Q3A3A6 VQLA
UniRef90_M1SCI5 LVQQQH E YSYP SR V S
UniRef90_R5R844 AQVEKAE PTKLDFIRS Y V P
UniRef90_B8GEI0 MMTGS V PDD I V I A P K P V
UniRef90_R9L1G5 VAGEEMVFEYYP D
UniRef90_U1QXD0 VVN
UniRef90_G2LP94 IL
UniRef90_UPI000373CCD9 VTAQRCE
UniRef90_C6KIN9 VGLEEF
UniRef90_F9Z5X7 AQQEMA E Y
UniRef90_A1B417 VQFATGEYVGPKQ I E T P
UniRef90_UPI0002559A5B V TN P VDRYPYQYP EK
UniRef90_M8DHH0 VSN AKAPFFYP EKVE
UniRef90_D4KTZ7 IQTAPAEYPS
UniRef90_F0S338 VTR E L T D F F E E E
UniRef90_E3BH45 VQLANA P VGTLP SL P Q P
UniRef90_C9AAP6 ITLQE
UniRef90_S7U5Y7 V

UniRef90_E4RLD9
UniRef90_UPI0003F5098E
UniRef90_B7GH16
UniRef90_I2H8U8
UniRef90_N4WD54
UniRef90_UPI00036621DB
UniRef90_J0Q1Q8
UniRef90_J4XMI2
UniRef90_UPI00047B32C7
UniRef90_UPI00036EBDCA
UniRef90_E7RUV5
UniRef90_UPI00035EC9D1
UniRef90_A0A024HNY5
UniRef90_C0GI61
UniRef90_UPI00029A7B7E
UniRef90_UPI0001FFDCB2
UniRef90_D4ZCU4
UniRef90_C6VV63
UniRef90_SOLFU9
UniRef90_F2F4Q2
UniRef90_B9KY20
UniRef90_E0I6K8
UniRef90_U1M008
UniRef90_X1FVF3
UniRef90_R6R5C7
UniRef90_UPI00036BD7BE
UniRef90_A4SFC3
UniRef90_E3PRN9
UniRef90_G8NXY7
UniRef90_R5BA67
UniRef90_UPI0003747F30
UniRef90_R6FQU2
UniRef90_UPI000466B3A2
UniRef90_R5QL96
UniRef90_G9YNN9
UniRef90_E3GEA4
UniRef90_UPI00047DFCD3
UniRef90_W1N5T2
UniRef90_UPI00047A2E1F
UniRef90_A2QFR5
UniRef90_E6V1V7
UniRef90_M5WCP5
UniRef90_A0A009FAK5
UniRef90_UPI0002625855
UniRef90_D0I8E8
UniRef90_R7L4M7
UniRef90_B8DMI2
UniRef90_L9PPE1
UniRef90_W6RX89
UniRef90_P69683
UniRef90_A5FR34
UniRef90_UPI000405AA50
UniRef90_UPI0002E5FFFE
UniRef90_B9R203
UniRef90_K9UA22
UniRef90_UPI00047DDCC3
UniRef90_UPI0001FFE912
UniRef90_UPI0003B47BE0
UniRef90_W0TPG9
UniRef90_F8B517
UniRef90_A5UMK2
UniRef90_UPI0004774BAF
UniRef90_G9WME6
UniRef90_Q1GZF1
UniRef90_H5TEM4
UniRef90_E2SD02
UniRef90_UPI00035D8772
UniRef90_V8GFD3
UniRef90_UPI0003824A38
UniRef90_F8EZR3
UniRef90_E0XPB3
UniRef90_Q5YVD8
UniRef90_M5DZH5
UniRef90_T0FDQ2
UniRef90_M1E6J4
UniRef90_R1B4B3
UniRef90_UPI00036DD59E
UniRef90_F4FDX2
UniRef90_UPI0003B350CF
UniRef90_S3VK38
UniRef90_E8JG38
UniRef90_K0I6Y8
UniRef90_UPI000347DF93
UniRef90_C7MDP0
UniRef90_W1MV55
UniRef90_G8PUZ5
UniRef90_N9JDK7
UniRef90_D1C2H8
UniRef90_G9ZF75
UniRef90_A1V188
UniRef90_H8IM93
UniRef90_J5HD54

	50	60	70	80
UniRef90_E4RLD9	Y L G R H E Q G V I H A A D G Y A R S T G K V G V C I A T S S G P G G T N L V T G			
UniRef90_UPI0003F5098E	V L V R H E Q Q G A A H A A D Q G Y A R A R V S S G K V G V V I A T S S G P P G G A T N N A I T G G			
UniRef90_B7GH16	V L T R H E Q Q G A A H A A E E G Y A R A R L S S G K P G V V I A T S S G P P G G A T N N I V T G G			
UniRef90_I2H8U8	V L P R H E E Q Q G A G H A A E E G Y A R A R A S S G K P G V V L V T S S G P P G G A T N N V T P			
UniRef90_N4WD54	I L A R H E Q Q G S T H A A E E G F A R A R V S S G K P G V V I A T S S G P P G G A T N N L V T G G			
UniRef90_UPI00036621DB	I L V R H E Q Q A A L H A A E N G Y A R R V S S G K C G V A L V T S S G P P G G A T N N A V T G G			
UniRef90_J0Q1Q8	I L V R H E Q Q A A G H A A E E G Y A R S T S G R V G V M L V T S S G P P G G A T N N A V T P			
UniRef90_J4XM12	V L T R H E Q Q G A A H A A D G Y A R A S T G K V G V A F A T S S G P P G G A T N N L V T G			
UniRef90_UPI00047B32C7	V L V R H E Q Q G A G H A A Q G Y A M A T S G R V G V C I A T S S G P P G G A T N N L V T A			
UniRef90_UPI00036EBDCA	I L V R H E Q Q G A G H A A Q G Y A M A V T T G K V G V C C M A T S S G P P G G A T N N L V T P			
UniRef90_E7RUV5	I L V R H E Q Q A A V H A A D A Y A R T T Q E V G V C L V T S S G P G G V T N A V T G			
UniRef90_UPI00035EC9D1	I L N R H E Q Q A S V H A A D G Y A R A R A T T G K V G V A M V T S S G P G G F T N A V T G			
UniRef90_A0A024HNY5	I L V R H E Q Q A A T H M A D G Y A R A T T G K P G V V V L V T S S G P P G G A T N N A I T G G			
UniRef90_C0GI61	I M S R H E Q Q G A T H A A D G Y S R M T T G R P G V V V F A T S S G P P G G A T N N L V T G G			
UniRef90_UPI00029A7B7E	V L T R H E Q Q G A V H A A D G Y A R V T S S G K V G V C F A T S S G P P G G A T N N T V T G G			
UniRef90_UPI0001FFDCB2	I L V R H E Q Q G A G H A A T G Y A Q A T T G K V G V C C M A T S S G P P G G A T N N L V T P			
UniRef90_D4ZCU4	L L S R H E Q Q G A A F A A L G Y A R A T T G K T G V C F A T S S G P P G G A T N N L V T S			
UniRef90_C6VV63	I L V R H E Q Q G A A H A A E E G F A R L S S G K V G V C L V T S S G P P G G A T N N L V T G G			
UniRef90_SOLFU9	I L T R H E Q Q G A V H A A Q G Y A K A T T G K P G V V V V T S S G P P G G A T N N A V T G			
UniRef90_F2F4Q2	I L T R H E Q Q G A I H A A E E G Y A R V M N K P G V V I A T S S G P P G A T N N L V T G			
UniRef90_B9KY20	V L A R H E Q Q G A G F M A D G Y A R V S S G K P G V A I V I T S S G P G G V T N I A T A			
UniRef90_E016K8	I L T R H E Q Q G A I H A A D G Y A R A S S G K V G V C I A T S S G P P G G A T N N I V T G			
UniRef90_U1M008	I L V R H E Q Q A A T H M A D G F A R A T T G E V G V V L A T S S G P P G G A T N N L V T G			
UniRef90_X1FV3	I Q P K Q H E N C A V H L A V G Y R V T G Q P L A V F T S I G P G G A I N T A I G			
UniRef90_R6R5C7	I L P R H E Q Q A L V H E A D G Y A R S T T G K V G V C L V T S S G P P G G A T N N L V T G G			
UniRef90_UPI00036BD7BE	I L T R H E E G A S M A D G Y A R A T T G K V G V C C M A T S S G P P G G A T N N L V T G G			
UniRef90_A4SFC3	I L V R H E Q Q G A T H M A E E G Y A R A T T G K P G V V L V T S S G P P G G A T N N T V T G G			
UniRef90_E3PRN9	I Q I C H H E Q G A S H A A D G Y A R A T T T G K V G V C L A T S S G P P G G A T N N I T G			
UniRef90_G8NXY7	V L V R H E Q Q G A A H M A D G Y A R A S S G R P G V C C M A T S S G P P G G A T N N L V T G G			
UniRef90_R5BA67	V L T R H E Q Q G A I H A A E E G Y A R A V S S H R P G V V I V T S S G P P A A T N N L I T G			
UniRef90_UPI0003747F30	V L A R H E Q Q G A I H A A E E G W A K A T T G E I G V V C I A T S S G P P G A T N N L V T G			
UniRef90_R6FQU2	I L P R H E Q Q G A G F I A Q G I S R S N K V G V C C L A T S S G P P G G A T N N L L T A			
UniRef90_UPI000466B3A2	I L P R H E Q Q G A G F M A E E G Y A R A S S G K V G V C C M A T S S G P P G G A T N N L V T G			
UniRef90_R5QL96	I L P R H E Q Q A L V H A A D A Y A R T T G K V G V C C L V T S S G P P G G A T N N L V T G			
UniRef90_G9YNN9	I L T A H E Q Q G A S H A A D G Y A R A T T G K V G V C F A T S S G P P G G A T N N L T T G			
UniRef90_E3GEA4	I E P C H H E Q Q N G V H A A D G Y A R L V S S G K V G V A I T T S S G P P G G A T N N A I T G			
UniRef90_UPI00047DFCD3	V L V R H E Q Q A A S F M A E M Y A R L S T Q R A V V C S A T L G P P G G A I N L Q L G			
UniRef90_W1N5T2	I V C R Q E S G A A Y M A E A Y G K L T G D P G I C F V T R G P P G G A T N N A S I G			
UniRef90_UPI00047A2E1F	I L T S H E Q Q G A S H A A D G Y A R S T N K K V G V C F A T S S G P P G G A T N N T V T G G			
UniRef90_A2QFR5	I L A H H E Q Q G A G H M A E E G Y R R T S K K P G V V M V T S S G P P G S S N T V T P			
UniRef90_E6V1V7	V L V R H E Q Q A A V H A A E E G Y A R S T G R V G V V L V T S S G P G G V G N T I T G			
UniRef90_M5WCP5	V L V R H E Q Q G G V F A A E E G Y A R A S G R P G V C I A T S S G P P G G A T N N L V S G			
UniRef90_A0A009FAK5	I Q V F H H E Q Q S A V H L A D G Y Y R V A G K P M A A F T S I G A G A S N T V I S G			
UniRef90_UPI0002625855	I S A R H E S G A A F M A D G Y A K S S L K P G V V M A T R G V I G A S N L S I G			
UniRef90_D018E8	I L V R H E Q Q A A V H M A D G Y A R A T T G E V G V V L V T S S G P P G G A T N N A I T G			
UniRef90_R7L4M7	I L P R H E Q Q G G F M A D G Y A R S T T G K V G V C M A T S S G P P G G A M N L L T A			
UniRef90_B8DMI2	V L A R H E Q Q G A G F M A Q G M A R V T G R P A V F F A T S S G P P G G A T N N L L T A			
UniRef90_L9PPE1	I L A R H E Q Q G A A F M A D A Y A R K M T G R P A I C F V T R G P P G G A T N N A S I G			
UniRef90_W6RX89	I L A R H E Q Q G A A F M A Q G V A R S T T G K P A R C F A T S S G P P G G A T N N L L T A			
UniRef90_P69683	I L V R H E Q Q G A S H A A D A Y S R S T T G K V G V C F A T S S G P P G G A T N N L V T G			
UniRef90_A5FR34	I L T R H E Q Q G A A H A A D G F A R V T G K V G V C L A T S S G P P G G A T N N L I T G			
UniRef90_UPI000405AA50	I L T R H E T S A A F M A G A Y A R L T T G K P G V V C L A T L G P P G G A T N N L T G			
UniRef90_UPI0002E5FFFE	V T P R H E Q Q G A G F M A D G Y A R V T T G K P G V A F V I T G P G G L T N T L T A			
UniRef90_B9R203	I T P R H E Q Q G A G F M A D G Y A R V T T G K P G V A L V I T G P G G L T N T L T A			
UniRef90_K9UA22	V T C R H H E Q Q G A A F M A D V Y G R L T G A G V C L S T L G P P G G A T N N L M T G			
UniRef90_UPI00047DDCC3	I L V R H E Q Q G A T H M A D G Y A R A S S G K V G V A M A T S S G P P G G A T N N M V T G			
UniRef90_UPI0001FFE912	V L G L H H E G V V V G M A D G Y A Q A T T G R P A L V N L H A A S G S G N A M G A			
UniRef90_UPI0003B47BE0	I P M R H H E Q Q G A S H A A D G Y A R A T T G K V G V A L A T S S G P P G G A T N N L V T G			
UniRef90_W0TPG9	V L A K H E Q Q G A S F M A G G Y A R A S S G I G A C I T T A S S G P P G G A T N N L V T G			
UniRef90_F8B517	I L V R H E Q Q G A G H A A E E G Y A Q A T T G R V G V C I A T S S G P P G G A T N N L V T P			
UniRef90_A5UMK2	I L V R H E Q C A A H A A D G F A R A S G K V G V C L A T S S G P P G G A T N N L V T G			
UniRef90_UPI0004774BAF	I L V R H E Q Q G A G H A A E E G Y A S A S G K V G V C I A T S S G P P G G A T N N L V T A			
UniRef90_G9WME6	I L V R T E Q Q N A A H A A N G Y A R L S S G K P G V V C A V T S S G P P G G A T N N V I T G			
UniRef90_Q1GZF1	I L V R H E Q Q A A V H A A D A Y S R A T T G E V G V A L V T S S G P P G G A T N N A I T G			
UniRef90_H5TEM4	I L V R H E Q Q G A A H M A D G Y A R A T T G R T G T V L V T S S G P P G G A T N N T L T G			
UniRef90_E2SD02	I L V R H E Q Q G A G H A A Q G Y A M A T T G R V G V C M A T S S G P P G G A T N N L V T A			
UniRef90_UPI00035D8772	I L V R H E Q Q G A G H A A E E G Y A L A S G R V G V C I A T S S G P P G G A T N N L V T A			
UniRef90_V8GFD3	V T P R H E Q Q G A G F M A D G Y A R V T T G R P G V C F I T T G P G G M T N I L L T A			
UniRef90_UPI0003824A38	V T P R H E Q Q G A G F M A D G Y A R A T T G K V G V C F T V T G P G G L T N L L T A			
UniRef90_F8EZR3	V L S R H H E Q Q G A V H M A D G Y A R A S G K V G V A L V T S S G P P G G A T N N A I T G			
UniRef90_E0XPB3	I L V R H E Q Q G A T H A A D G Y S R A T T G K P G V V L V T S S G P P G G A T N N A I T G			
UniRef90_Q5YVD8	V L V R H E Q Q G A G H A A D G Y A Q A T T G R V G V C I A T S S G P P G G A T N N L V T P			
UniRef90_M5DZH5	I M P H H E Q Q G G V H A A D G Y A R S S G K T G V C I A T S S G P P G G A N N M V T A			
UniRef90_T0FDQ2	I L A R H E Q Q G A G F I A Q G I A R A S G R A A V C C L A S S S G P P G G A T N N L I T A			
UniRef90_M1E6J4	Y M M R H H E Q Q G A A H A A D G Y A R A S S G E V G V C I A T S S G P P G G A T N N L V T G			
UniRef90_R1B4B3	V M N R S E Q Q C C G H A A E E G Y A R S T G R V G V L T T S S G P G G L T N L I T P			
UniRef90_UPI00036DD59E	V T G R H E Q T A A H A A D G Y A R A T T G K P G V L L M H V I G P G G M M N A V T G			
UniRef90_F4FDX2	L L G L H H E G V V L A M A D G Y A Q A R R G P A L V N L H A A A G T G N A M G			
UniRef90_UPI0003B350CF	I L T R D E R S A S Y M A D V Y A R L S R G R V G V C E G P S S G G G A T Y L A M P Q			
UniRef90_S3VK38	I L A R Q E Q G G G F M A Q G E A R I T K A A V C L A S S S G P P G G V T N L L T A			
UniRef90_E8JG38	V L V R H E Q Q G A G H A A E E G Y A L A T T G R V G V C A L V T S S G P P G G A T N N T L T A			
UniRef90_K016Y8	V L G L H E S V V V G M A D G Y A Q V T G N A A L V N L H S A A G V G H A M G N			
UniRef90_UPI000347DF93	I L V R H E Q Q A A H A A D A Y A R A T T G Q V G V C I A T S S G P P G G A T N N L V T G			
UniRef90_C7MDP0	V L V R H E Q Q G A G H A A S G Y A H A T T G K V G V C L A T S S G P P G G A T N N L V T A			
UniRef90_W1MV55	V L T R H E Q Q G A G F M A D G Y A R V S S G K P G V C F V I T G P G G V T N V A T A			
UniRef90_G8PUZ5	V L T R D E R C A T Y M A D A Y S R V T T G R P G V C E G P S S G G G A T Y I L L P			
UniRef90_N9JDK7	I L G L H H E G A V V G M A D G Y A Q A T T G Q P A F V N I H S A A G T G N A M G A			
UniRef90_D1C2H8	I L A R H H E Q Q A G F M A D G Y A R A S G R P G V A I I I T G A G G I T N N V A T P			
UniRef90_G9ZF75	I L A R H E Q Q G V V H E A D G Y A R A S S G K V G V A I V T S S G P G L T N A V T G			
UniRef90_A1V188	V L G L H H E A V A V G M A D G Y A Q A S G N A A V V N L H S A A G V G N A M G V			
UniRef90_H8IM93	I Q S R H H E E M S A F E A V G Y A Q F T G R V G V C A A T S S G P G G A V H L I N G			
UniRef90_J5HD54	I T T S T E Q G A A H A A D G Y A R S T G K V G V A I A T S S G P P G A T N N L I T G			

UniRef90_E4RLD9 L A T A Q M D S V P I V V A F T G Q V P S A L I G T D G F A Q Q E A D I L T G I S L Q P
UniRef90_UPI0003F5098E I G D A M L D S S T P L V V F T G Q V V S S L L G G S D D A F F Q Q E A D V L V G I L T T Q P
UniRef90_B7GH16 L T D A M M D S I P L V V F T G Q V V S S L L G G S D D A F F Q Q E A D V L V G I L T T Q P
UniRef90_I2H8U8 M A D A L A D G V P M V V F T G Q V V S S L L G G S D D A F F Q Q E A D V L V G I L T T Q P
UniRef90_N4WD54 L A D A M L D S S L P L V V F T G Q V V A R G L I G G T D D G F F Q Q E E A D V V G I L T T R S P
UniRef90_UPI00036621DB L A Q S N M D S I P T V C F S G Q V P T S A L I G G T N D G F F Q Q E A D T V G I L T T R S P
UniRef90_J0Q1Q8 L Q D A F M D S I P L V C F S G Q V P T T V I G G T N D G F F Q Q E A D T V G I L T T K P
UniRef90_J4XM12 I A T A H M D S S V P M V A I T G Q V V A N P Y I G K D S D A F F Q Q E E A D I V G I L T T P P
UniRef90_UPI00047B32C7 L A D A H M D S S V P M V A I T G Q V V A S P L I G G S D A F F Q Q E E A D I V G I L T T M P P
UniRef90_UPI00036EBDCA I S D A Y M D S S V P L V A I T G Q V V A T S L I G T D D A F F Q Q E E A D I A G I L T T M P P
UniRef90_E7RUV5 I A T A Y M D S S V P M V I I S G Q V V P T N A I G G E D D A F F Q Q E C D D A V G I L T T R P P
UniRef90_UPI00035EC9D1 I A T A Y A D S I P M V V I S G Q V V P L S L I G G T D D A F F Q Q E E V D D A V G I L T T S R P P
UniRef90_A0A024HNY5 I A T A Y M D S S I P M V V I S G Q V V S N M V I G T D D A F F Q Q E E E A D D M V G I L T T P P
UniRef90_C0GI61 I A T A Y M D S S V P M V V F T G Q V V A S S P L I G G T D A F F Q Q E E E A D I F G I L T T Q P
UniRef90_UPI00029A7B7E L A D A M M D S T P L V V I T G Q V V I S L L L G G T D D A F F Q Q E E T A D V V G I L T T Q P
UniRef90_UPI0001FFDCB2 L A D A H M D S S V P L V A I T G Q V Q T R G L I G G T D D A F F Q Q E E T A D I T G I L T T P P
UniRef90_D4ZCU4 L A D A L L D S S V A V V A I T G Q V V S T A V I G G T D D A F F Q Q E E I D V L G I L T T S P
UniRef90_C6VV63 I A D A L L D S S T P M V C I I G V A S H L L G G T D D A F F Q Q E E A D D I L G I L T T V P
UniRef90_SOLFU9 I A D A N S D S S V P L V V F T G Q V V T T D G I G K T D D A F F Q Q E E A D D I L G I L T T V P
UniRef90_F2F4Q2 I A D A M L D S S I P L V I F T G Q V V A T S V I G G T D D A F F Q Q E E A D D I L G I L T T P
UniRef90_B9KY20 I G E A Y A D S S P V V V I T A S N V E Q A W Q G G T M H L H C K D Q L G I L T M V
UniRef90_E0I6K8 I A T A Y M D S S V P L V V I T G N V A T S A I G G T D D A F F Q Q E E A D I T G I L T P P
UniRef90_U1M008 I A T A Y M D S S I P M V V L S G Q V V P T N L I G G D D A F F Q Q E E A D I V G I L T S R P P
UniRef90_X1FV3 I A D A Y V D S M P V L V I T G D T H V H M R G K L E R K Q R D S D F P R I L E P
UniRef90_R6R5C7 I A T A N Y D C V P L V C I F T G Q V V S R D L I G N D A F F Q Q E E V D I V G I L T R N
UniRef90_UPI00036BD7BE I A T A Q M D S S V P M V A I T G Q V V G R A A L G K N D A F F Q Q E E T D I S G I L T P P
UniRef90_A4SFC3 I T N A Y M D S S P M V I F T G Q V V G S S L L G G N D A F F Q Q E E A D I V G I L T T R M P
UniRef90_E3PRN9 L A T A F M D S S V P V I A I T G Q V V S S L L G G K N D S D A F F Q Q E E A D I T G I L T T M G
UniRef90_G8NXY7 L A T A M L D S S I P M V A I T G Q V V S S K V L G G S D A F F Q Q E E I D I T G I L T T P
UniRef90_R5BA67 L S D A Q M D S T P L V V I T G Q V A T S A M L G G T D D A F F Q Q E E A D V M G I L T T Q P
UniRef90_UPI0003747F30 L A D A M L D S S V P L L A I T G N V A T S H L M G T D D A F F Q Q E E A D I V G I L T T P
UniRef90_R6FQU2 I A D A K L D S S I P L V A I T G Q V V P Y S A I G G T D D A F F Q Q E E V D A Y G I L T P
UniRef90_UPI000466B3A2 I A D A Y M D S S V P L V A I T G Q V V K R E M I G N D A F F Q Q E E T D V I G I L T T R S
UniRef90_R5QL96 L A T A N Y D S V P L V C I F T G Q V V R R H L I G R N D A F F Q Q E E V D I V G I L T T R S
UniRef90_G9YNN9 I A T A Y Y D S S P V V F I T C N V S E N L I G K D S D F F Q Q E E V D I T G I L T S M P
UniRef90_E3GEA4 I A N A Y L D S V P L V V I T G Q V A Q S L L G K D S D F F Q Q E E I D I V S L M F A Q
UniRef90_UPI00047DFCD3 V A D A T T N S T P L I A I S A Q V G R D R S Y K E S H Q Q E I D L V P M F A G P
UniRef90_W1N5T2 V H T A F Q D S S T P M I L F V G Q V V G N N F V I E R E A F Q Q E I D Y R R M F G P
UniRef90_UPI00047A2E1F L A T A Y M D S S V V V F I T C N V T E D L I G K S D A F F Q Q E E V D I V G I L T M A R T
UniRef90_A2QFR5 M L D A L L D G S T A I V V I C G Q V P T A S Q G K G A F F Q Q E E V N I D E L A R T
UniRef90_E6V1V7 L L D A M S D S S V P V L C I S G Q V A T A V I G T Q A F F Q Q E E S D A L G M S R S
UniRef90_M5WCP5 L A D A L M D S S T P V V A I T G Q V P R R M I G G T D D A F F Q Q E E T P I V E L T R S
UniRef90_UPI0009FAK5 M A T A F T D S T S V M L I T G G P T H M R G H G E R Y T D N D F V K I A E A
UniRef90_UPI0002625855 V H T A Y Q D S S T P M I V F L G Q V V H S K F R G R E G F F Q Q E E I D L E Q Y F R H
UniRef90_D0I8E8 I S A T A Y D S S V P L V V L S G Q V V M S N L I G N D A F F Q Q E E C D M V G M S R P
UniRef90_R7L4M7 I S D A F M D S S V P L V A I T G Q V V F S S L I G K S D A F F Q Q E E T D V V G M S L P
UniRef90_B8DMI2 I A D A K L D S S V P V V C I T G Q V V P L G L V G S D A F F Q Q E E V D I Y G M S L P
UniRef90_L9PPE1 V H T A F Q D S S T P M I L F I G Q V V G N D F V D R E A F F Q Q E E I D Y R R M Y G Q
UniRef90_UPI000476RX89 I A D A K L D S S I P L I A I T G Q V V S Y D C I G T D S D F F Q Q E E V D I T Y G I L T P
UniRef90_P69683 I A T A H L D S S V P L L A I T G Q V V G R P F I G T D A F F Q Q E E V D I F G I L T P
UniRef90_A5FR34 I A N A Y M D S S V P L M V A I T G Q V V T R N L I G K D A F F Q Q E E V D I T G I L T P
UniRef90_UPI000405AA50 V A N A N M D L C P L V A I T G Q A G L S R Q H K V S H Q Y Y D M V S V Y E K
UniRef90_UPI0002E5FFFE M G Q A R A D S I P M L V I S G V N A M P T L G K G L G F L H P D Q R G M M E K
UniRef90_B9R203 M A Q A Y Q D S I P M L V I S G V N T R D S L G H G R G M L H P D D Q R A M M A T
UniRef90_K9UA22 V A D A N L D G A P L I A I T G Q V V S T D R M H L L S H Q Y L D L V A M F A
UniRef90_UPI00047DDCC3 L A T A M M D S S V P I V C I T G Q V V S S K V L G T D A F F Q Q E V D I T G I L T P
UniRef90_UPI0001FFE912 L T N A V Y S H S P L V L T A G Q V V R S T V G G Q E V M L T N V D A A A L P R P
UniRef90_UPI0003B47BE0 I A T A Y M D S S I P M V A I T G Q V V F T H Y I G G S D A F F Q Q E C D V I G V T R P
UniRef90_W0TPG9 I A N A Y M D R Q P V L A I T G E T S T H I F G G R G G L Q Q E S I D Q I A L F Q Q
UniRef90_F8B517 I A D A Y M D S S V P L V A I T G Q V V P S G A I G G T N D A F F Q Q E A D I C I L T P
UniRef90_A5UMK2 I A T A Y M D S S V P L I A I T G Q V V P T H L I G N D A F F Q Q E A D I I G I L T M P
UniRef90_UPI0004774BAF I A D A Y M D S S V P M L A I T G Q V V F S T L M G T D A F F Q Q E A D I V G I L T M P
UniRef90_G9WME6 I A T A F A D S I P L I V I T G Q V V E S R L L G G S D V F F Q Q E A D L C I G A S E S
UniRef90_Q1GFZ1 I A T A H M D S S I P L V V I S G Q A P T P A I G G Q D A F F Q Q E V D M I G I L T R P
UniRef90_H5TEM4 I A T A Y M D S S V P M V V L S G Q V V P S M H I G E D A F F Q Q E T D M V G I L T S R P
UniRef90_E2SD02 I A D A Y M D S S V P L V A I T G Q V V S H L I G T S D A F F Q Q E A D I R G I L T M P
UniRef90_UPI00035D8772 L A D A H M D S S I P M V A I T G Q V V S S K V I G S D A F F Q Q E A D I V G I L T M P
UniRef90_V8GFD3 M A Q A Y A D S I P M L V I S S V N E R A R L A H G N G Y L H P N Q R N L V I G N
UniRef90_UPI0003824A38 M G Q A Y A D S I P M L V I S S T A N L T E Q L G A P V G A L H H E L Q R N L A E A
UniRef90_F8EZR3 L L T A H M D S S V P L I V I C G Q T I T A N L G R D A F F Q Q E A D V S G I S Y P
UniRef90_E0XPB3 I A T A F M D S S I P M V V I S G Q V V A S H L I G T D A F F Q Q E E T D M I G V S R P
UniRef90_Q5YVD8 L A D A H A D S S V P V V A L T G Q V V P L P M M G T D A F F Q Q E A D I T G I V A P
UniRef90_M5DZH5 L A T A N M D S S V P L V A F T G Q V V P N N M I G T D G F F Q Q E A D I K G V T M P
UniRef90_T0FDQ2 I A D A K C D S S V P L V A I T G Q V V P T S L I G T D A F F Q Q E E V D T Y G I L T S K P
UniRef90_M1E6J4 I A N A Y M D S S I P L V A L T G Q V V S V M G T D A F F Q Q E E T D L F G I L T P
UniRef90_R1B4B3 L Q D A K G D S T P M V A L S G Q V V P L A A V G S D A F F Q Q E C L H A V D L T R P
UniRef90_UPI00036DD59E V A T A A L D S S V P L V A I S G D I L P S Y M Y G R H P H H N D A D Q T A I Y R P
UniRef90_F4FDX2 L T N S V Y S H S P L V V T A G Q V V R S T V G Q Q E V M L A N V D A A A L P R P
UniRef90_UPI0003B350CF L V I E A D E S S I P V L V G V T D I I G V V G R G K Y T L T E L D Q E S L F R P
UniRef90_S3VK38 V A D A K S D S S I P L V A I T G Q V V P I P L I G T D A F F Q Q E I D T F S L S L P
UniRef90_E8JG38 L A D A H M D S S V P I V V I S G Q V V G A S L I G T D A F F Q Q E A D V V G A S M P
UniRef90_K0I6Y8 I F T A F K N Q T P L I I T A G Q V A R S M L P F D P F L F A A Q S T E L P K P
UniRef90_UPI000347DF93 I A T A Q M D S S V P L V I V T G Q V V P S Y A I G T D A F F Q Q E T D I F G I L T P
UniRef90_C7MDP0 I A D A Q M D S S V P M V A I T G Q V V G S E F I G T D A F F Q Q E A D L V G M T M P
UniRef90_W1MV55 I G Q A Y A D S S I P L V I S S V N H S A S L G K G W G C L H Q D Q R A M T A P
UniRef90_G8PUZ5 L I E A S E S S Y A V L G I T T D I S V A S Y G K Y P L T E V D Q E A L M R P
UniRef90_N9JDK7 L S N A W N S H T P L V I T S G Q V V N R A M M G V E P L L T N L E A T L L P K P
UniRef90_D1C2H8 I G E A Y S D S S V P L V V I S G Q V V A N V E Q Q W A G K M L G H L H D D Q A L G V M R A
UniRef90_G9ZF75 I A T A H A D S S I P L V V I S G Q V V P S V L I G N D A F F Q Q E V D A V G I T R P
UniRef90_A1V188 L F T A Y R N K T P L V V T A G Q V A R S L L P F E Y F L A S V Q A A E L P K P
UniRef90_H8IM93 L Y D A K L D H V V V A I V G Q T N R S A M G F G N Y Q Q E V D L N A L F K D V
UniRef90_J5HD54 L A T A F M D S S V P V V Y I T G N V A Q N L I G K D S F Q Q E V Y T T G I T M P

UniRef90_E4RLD9
UniRef90_UPI0003F5098E
UniRef90_B7GH16
UniRef90_I2H8U8
UniRef90_N4WD54
UniRef90_UPI00036621DB
UniRef90_J0Q1Q8
UniRef90_J4XM12
UniRef90_UPI00047B32C7
UniRef90_UPI00036EBDCA
UniRef90_E7RUV5
UniRef90_UPI00035EC9D1
UniRef90_A0A024HNY5
UniRef90_C0G161
UniRef90_UPI00029A7B7E
UniRef90_UPI0001FFDCB2
UniRef90_D4ZCU4
UniRef90_C6VV63
UniRef90_SOLFU9
UniRef90_F2F4Q2
UniRef90_B9KY20
UniRef90_E016K8
UniRef90_U1M008
UniRef90_X1FV3
UniRef90_R6R5C7
UniRef90_UPI00036BD7BE
UniRef90_A4SFC3
UniRef90_E3PRN9
UniRef90_G8NXY7
UniRef90_R5BA67
UniRef90_UPI0003747F30
UniRef90_R6FQU2
UniRef90_UPI000466B3A2
UniRef90_R5QL96
UniRef90_G9YNN9
UniRef90_E3GEA4
UniRef90_UPI00047DFCD3
UniRef90_W1N5T2
UniRef90_UPI00047A2E1F
UniRef90_A2QFR5
UniRef90_E6V1V7
UniRef90_M5WCP5
UniRef90_A0A009FAK5
UniRef90_UPI0002625855
UniRef90_D018E8
UniRef90_R7L4M7
UniRef90_B8DMI2
UniRef90_L9PPE1
UniRef90_UPI00047W6RX89
UniRef90_P69683
UniRef90_A5FR34
UniRef90_UPI000405AA50
UniRef90_UPI0002E5FFFE
UniRef90_B9R203
UniRef90_K9UA22
UniRef90_UPI00047DDCC3
UniRef90_UPI0001FFE912
UniRef90_UPI0003B47BE0
UniRef90_W0TPG9
UniRef90_F8B517
UniRef90_A5UMK2
UniRef90_UPI0004774BAF
UniRef90_G9WME6
UniRef90_Q1GZF1
UniRef90_H5TEM4
UniRef90_E2SD02
UniRef90_UPI00035D8772
UniRef90_V8GFD3
UniRef90_UPI0003824A38
UniRef90_F8EZR3
UniRef90_E0XPB3
UniRef90_Q5YVD8
UniRef90_M5DZH5
UniRef90_T0FDQ2
UniRef90_M1E6J4
UniRef90_R1B4B3
UniRef90_UPI00036DD59E
UniRef90_F4FDX2
UniRef90_UPI0003B350CF
UniRef90_S3VK38
UniRef90_E8JG38
UniRef90_K016Y8
UniRef90_UPI000347DF93
UniRef90_C7MDP0
UniRef90_W1MV55
UniRef90_G8PUZ5
UniRef90_N9JDK7
UniRef90_D1C2H8
UniRef90_G9ZF75
UniRef90_A1V188
UniRef90_H8IM93
UniRef90_J5HD54

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

UniRef90_E4RLD9 V T Q A E M E F E Y P D
UniRef90_UPI0003F5098E A Q I E K V A Y E P
UniRef90_B7GH16 M A V A E A E E Q D V Q L P G Y Q P T T
UniRef90_I2H8U8 V T A A
UniRef90_N4WD54 I S A Q V V E E
UniRef90_UPI00036621DB I T Q D S C E F I Y P E T V D
UniRef90_J0Q1Q8 V Q
UniRef90_J4XMI2 V F D T P I D Y E Y P D
UniRef90_UPI00047B32C7 A Q V S E M E P P T F D L P G Y R V
UniRef90_UPI00036EBDCA A L Q A T F D F E W P H L P G Y R P V T
UniRef90_E7RUV5 V
UniRef90_UPI00035EC9D1 V M G E F V Y P K E V H I P S Y K P T
UniRef90_A0A024HNY5 M
UniRef90_C0GI61 V Q Q A V T D Y R Y P D K V E
UniRef90_UPI00029A7B7E A Q V N E M D F K Y E P V
UniRef90_UPI0001FFDCB2 V L Q E Q T T P P E L Q L P G Y R P T T
UniRef90_D4ZCU4 I Q I A M F E Y F T P
UniRef90_C6VV63 A Q Q
UniRef90_S0LFU9 M T I C E G G C Q T P D L H I P S
UniRef90_F2F4Q2 I L D E I K A P D D I Y L P G Y Q P T T
UniRef90_B9KY20 V L H G S G D I E L A H L A P
UniRef90_E0I6K8 V
UniRef90_U1M008 I L N
UniRef90_X1FV3 V Q S N S I D C D I P E P L E R R
UniRef90_R6R5C7 V Q L E
UniRef90_UPI00036BD7BE V F T E E T D P E T L N L P G Y K P
UniRef90_A4SFC3 I L N A T C E F I W P D S V D
UniRef90_E3PRN9 A F M Q E I E T K E Y H K I D K
UniRef90_G8NXY7 A Q Q E A A K P E T Y R P H P
UniRef90_R5BA67 A Q I E Q L E W
UniRef90_UPI0003747F30 I Q L A A Y H G E V A Y P H A R P
UniRef90_R6FQU2 I Q S E V I E L K E F P S I E
UniRef90_UPI000466B3A2 V Q Q A P V Q P
UniRef90_R5QL96 V M S E L G S P E Y P E
UniRef90_G9YNN9 V T A A E A D Y E P L P L
UniRef90_E3GEA4 I F M T E T E Y V P L S D E R K P V
UniRef90_UPI00047DFCD3 L E A A E V P D D L T P L R I D R V R
UniRef90_W1N5T2 T L W G E A E V A D A E P M P R
UniRef90_UPI00047A2E1F V T A E K A E P R E E H P A H G R L A A
UniRef90_A2QFR5 V A Q A N F D L E A L Q A Y Q
UniRef90_E6V1V7 I Q L M
UniRef90_M5WCP5 V Q Q Q L V V P N W D Q P I R
UniRef90_A0A009FAK5 V Q A E A A E V A L H P L S E R
UniRef90_UPI0002625855 V L P A E A E
UniRef90_D0I8E8 M L N P A N T Y P Y E Y P E
UniRef90_R7L4M7 V Q Q K M F V P
UniRef90_B8DMI2 V Q M A E V D
UniRef90_L9PPE1 M L T A V A A V A D Y Q P V Q A S P S A
UniRef90_W6RX89 V Q L A E M E V T T W P H I D
UniRef90_P69683 V G L E K F N Y F S V E P
UniRef90_A5FR34 V F I E Q A E F E Y P D E P D
UniRef90_UPI000405AA50 I A G M E V D S S P L H V V P H H L A
UniRef90_UPI0002E5FFFE I M G K A V E G L A P H P V E
UniRef90_B9R203 V M P Q K L T I E A W K P V
UniRef90_K9UA22 V A A M P A T V K P L P
UniRef90_UPI00047DDCC3 A Q Q A T A E F H F E A A A P R P
UniRef90_UPI0001FFE912 D W A A P A G P H I A H L P G R R T V S
UniRef90_UPI0003B47BE0 A Q I H K A L F Q Y P E T V D
UniRef90_W0TPG9 V Q K E K V D E A V L E
UniRef90_F8B517 I L Q A T T S V L P A D V W P
UniRef90_A5UMK2 I Q E G E L D
UniRef90_UPI0004774BAF A Q Q G E F D F E W P V K L D
UniRef90_G9WME6 V Q K A
UniRef90_Q1GZF1 I
UniRef90_H5TEM4 L V N
UniRef90_E2SD02 A L Q A T T T F E W P H
UniRef90_UPI00035D8772 A Q Q D T M T F S W P P R M D
UniRef90_V8GFD3 V I T A P A E H L A L R P R T V A S
UniRef90_UPI0003824A38 V L A A T V D E M P V P L P E R P A P S
UniRef90_F8EZR3 V S S A V C
UniRef90_E0XPB3 M T A P E
UniRef90_Q5YVD8 V L R A T T W P P R L D L P G Y R P V T
UniRef90_M5DZH5 I L K D K A
UniRef90_T0FDQ2 V Q L S P Y
UniRef90_M1E6J4 I L M N E
UniRef90_R1B4B3 V M T A
UniRef90_UPI00036DD59E L F S R E L P D P A I Y E L P A Y T S
UniRef90_F4FDX2 D W R A E S S V E A R H L L S R
UniRef90_UPI0003B350CF V Q K Q P V
UniRef90_S3VK38 I Q T S P I E L S E E D I
UniRef90_E8JG38 A Q V A Q M E P P A L D L P G Y R V A
UniRef90_K0I6Y8 D W E K T T D W V V P R K V S R S I A
UniRef90_UPI000347DF93 I G Q K E F E Y E P E K V
UniRef90_C7MDP0 A Q Q G Q T T P E A L D L P G Y R P D S
UniRef90_W1MV55 V L A A P V A H D W S A A V A R R P
UniRef90_G8PUZ5 I Q Y D A V D P S D
UniRef90_N9JDK7 D W D V Q V N E Q N E H L L E K D V I S
UniRef90_D1C2H8 V L R A E A E V T P P E P I
UniRef90_G9ZFF75 V T G A
UniRef90_A1V188 D W D R P A E P M P A R T V S S E V R
UniRef90_H8IM93 V Q E L P Y S P P E H A F K M V P S
UniRef90_J5HD54 V

UniRef90_UPI000407A71B T G G E A I L V S G L V A H G V V D T V F G G L P G A Q V Y G L F D A F H Q Q Q L K 40
UniRef90_I4KJ18 G A D L F V E V L R S E E G V V D R E Y V F G G N P G G T T E L A L L D D A S L A S Q D M T K Q Y
UniRef90_L7Y7M7 S G S E L V I K S T L L Y A E G V V D F F G G Y P G G G A I L M P A Y D D S P L H N D M T S R H
UniRef90_UPI00036CF1A9 T G A T S L V K S L L E A A G V V D V M F G G L P G G G A I L P A Y D D S P L H N D M T S R H
UniRef90_F9EHZ3 T G A Q A L V R A L E A K V G V V D T D I F F G G M P G G G A I L P A Y D D S P L H N D M T S R H
UniRef90_R6LWN9 V A D T I V E E T L T D K G V V D T D C F S S V V G G G A M H L N N A R G L F A S S M S I R K N T H
UniRef90_S6K2Z3 A T C G E V L V K L L E A A E G V V D T V F F G G L P G G G A I L P A Y D D S P L H N D M T S R H
UniRef90_UPI0003683223 T G A Q S L V L A L E A A E G V V D T V F F G G L P G G G A I L P A Y D D S P L H N D M T S R H
UniRef90_I5C2H4 G A D T I V Q S L T A E Q V V D T V F F G G Y P G G G A I L M P A Y D D S L H S E R D L K K E H
UniRef90_D9QQE0 G A D L V V K A L E K Q V V E T I F F G G L P G G L H N L D V V Y D A S L H S E R D L K K E H
UniRef90_UPI00035C89C3 K G A E I L Q V L A D E G V V K E V I F F G Y S G G G A I L P T Y D A V L F T R R W I Q R L T
UniRef90_Q7UHW9 N G A D V L V K S L V D H G V V F F A Y P G G G C S M P M H Q D S L A K C I S L
UniRef90_UPI0003B3810B S D Y V A E F L V Q H G I S Q V L F M V V G G G A M H L D D S L A K C I S L
UniRef90_K0B7C4 K A S D L L V K C L E S E G V V E Y L F F G I P G G E E N A D L M M S L L E S K I K Y F
UniRef90_D2RXB8 S G A E A V V R A L E A N G A V D R H A F F G V Q G G A I L M P A V L V D A L H A R T Y R T
UniRef90_A0A011U5A4 T G G Q L L V E A L E A N G A V D R C V F G G L P G G G E S Y L A V L D A L H A R T Y R T
UniRef90_A0A024PV07 T V H S A T Y D L L R R R Q G L T T V F F G N P G G S N E L P F L K N F A S D F R Y F
UniRef90_R7FE90 T A A E L L V R C L E N E G V V K Y I F F G L P G G E N L D P V M Q A L R Q N A S I R Q R F
UniRef90_G2I7K0 S G A E V L V R V L E G E Q G V V I F F G Y P G G G A V L P I Y D A L A S N A I R E Y H
UniRef90_L0K5I7 T G A D L F V D A L E S Y G V V D Y V F F G N P G G T T E L P I V D A L A S N A I R E Y H
UniRef90_UPI0003A94DDD T G A D I L V E V L E S E G V V E Y I F F G N P G G T T E L P I L D A L H T P S E N I H Y
UniRef90_UPI000237A599 T G G Q L V V K M L E S L G V V H V F G V V G G Q T L A I T D A I T P S E N I H Y
UniRef90_G0J6M4 K A S D L F V K A L E K E G V V E Y I F F G L P G G E E N L D I T E S L R S S K I K L
UniRef90_D1AE69 T V G D Y L V K R L R D W G V E H V F F G Y P G G D G I N G L I A A F G D D E P R F T
UniRef90_W9BY96 T G G R L L V D Q L V A Q G C D R I F T V P G G E S F L A V L D A L H H P S R L D R H
UniRef90_W2DLV6 T A Q S L V R L L E G Y G V D T V F F G I P G G V H T V E A L Y R G L H H P S R L D R H
UniRef90_C7NZJ0 T G A E S V V R A L E N A G A E Y V F G V P G G G A I L M P L V Y D A L A Y D D E P I E F
UniRef90_UPI000307B208 T G A Q L T W E V L S R L G T K V V L V D A L A Y D D E P I E F
UniRef90_UPI0003733C75 S V A E I L V D T L Q A A G V V Q R V Y G V V G D S L N G I T D V I R Q Q R I E F W
UniRef90_V4RJ51 G G R L L V E A L E A Q G V D H L V C P G G E S Y L A V L D A L D S S P I E V
UniRef90_G4F4E6 T C A Q S L L R L E D A Y D V D T V F G I P G G V H T I E L Y R A L E S S P I E V
UniRef90_J0WP39 V S D L I V N Y L E R R D V E Y V F F G L C G H T V I G M L D A L S R K I V Q Y R
UniRef90_UPI0003B30876 G A E A I V K C L I Q E K T E V I F F G Y S G V A I D P F W E M L K T D A I K R
UniRef90_C5CY72 T G G Q I L V D Q L I T H G V V R Q L F C V P G E S F L A V L D A L H H P S R L D R H
UniRef90_R5DJS1 T G A K I L L K T L E N L G V V R S I F F G Y P G G G I V L A V V D E L Q N S I K H
UniRef90_UPI0003FB8DAF V A D Y V L Q R L T E W G V E R V Y G Y P G G D G I N G M L G A F D R R K P E F
UniRef90_Q59498 T G A Q S V I R S L E E L G V E V I F F G L P G G G A V L P V Y D A L A Y D D E P I E F
UniRef90_R5S5K5 K V S D Y I V E F L T E K G L T D V F G Y P G G S V A N L M D S F Y K K I S A
UniRef90_B9R2H7 T G G Q L L V D A L E H G A E R V Y C V P G G S Y A L N D A F H D H D R P G V
UniRef90_T0J5G9 V A D L I A R L V E H G I T D C F M L T G G G A M H L N D A F G R E P G L
UniRef90_UPI00036A3B1F S G G D T L I R A L R D A N V K Y I W G Y P G G G A A L H I Y D A I Y R Q V V H
UniRef90_A0A023X1R2 A T V R D A T L Q S L R E L G M T T I F F G N P G G T E L L R D A L P E Q D F F K Y
UniRef90_D4DQR9 T S G A Q I L V G S L K A E N V E Y V F G Y P G G G A V L E I Y D A L A F P Q K F H
UniRef90_Q2CC29 T G A Q C I V D G L G Q L G V E R V F F G V P G G E S F L L G V L D A L A P G G I E F
UniRef90_K2FPP1 A S I L T D H F V H W G I T H V F F G I P G G K E I S P L F E L N T D G I E F F
UniRef90_M9R954 G G Q I L V D Q L V R F G V R V F S V P G G E A F L J A A L D G L N T D G I H N
UniRef90_X5MNY6 K A S D L F V R C L E E E G L T H I F F G V P G G E E N A D F M M S L E S S I Q R F
UniRef90_C5C2I0 N G A A S I V R S L E A V G A E V I F F G I P G G E T L P T Y D P L S T S K I R H
UniRef90_A0A023NST8 K G S D L L V A L E A N E G V E R I F F G I P G G E E N L D F V E S L R S R I E L
UniRef90_B9LUZ6 S T G A E S V V A A L E A A G A E T A F F G V Q G G A I M P V Y D A L Y D S L R H
UniRef90_UPI00024901F7 S G A E L L I N S L A K Q Q V N M I F F G Y P G G G A I L P Q Y D M Y Q Q H F K N
UniRef90_UPI00036D4B49 N G G Q L V V D C L V A L G A R R A F F G V P G G E S Y L A V L D A M H D K L D F
UniRef90_Q0FID3 T V G D H V L R R L R E W G T R E Q V F F G Y P G G D G I N G L V A S F G N S P R F
UniRef90_UPI000463511C K A S D L F V K R A L E A E G V V T K A F F G V P G G E E N L D F L A S L Q N S I K L
UniRef90_D0LXM0 E A A A K I L E L E G V T K A F F G V P G G A A I N P F Y A A L K G S I S H
UniRef90_H2G142 A D V I E D S L I N H G L D R V F C V P G G E S Y L S I L D A L A S D R I E I V
UniRef90_Q2KVK0 G H L L V E C L I E Q G V T H A F G V P G G E S Y L A V L D A L H A D D Q I D L
UniRef90_A0A024IGE9 N G G Q I L V D A L G I H G V D R V F C V P G G E S Y L A V L D A L H A D D Q I D L
UniRef90_M3J5P5 G R L L V D Q L A R L E G V R V F S V P G G S F L A V L D D G L H D D D M A N Y
UniRef90_U3AER8 A P A L I E L K T E G V R H L F G I V G S T F L D V L D A L Y D D R F T L
UniRef90_W4L7J5 T G G Q V L V D Q L L I H G A D C A Y C V P G G E S Y L E V L D A L Y D D R F T L
UniRef90_X7EEY8 T G G Q M V V D F L I R E G V E K V F A I P G G H G N T A L L D A F A D S I E L
UniRef90_Q0S7Z6 K A S D L M V K A L E A E G V E Y L F G I P G G E E N L D L E S L R S S I K L
UniRef90_G4QMJ6 T C G E L L A K Y L E A Y G I E V A F G I P G G T H T I E L Y R G L P Q S R I R H
UniRef90_K4L1U2 N G G Q I L V D A L L G N A V D T V Y C V P G G E S Y L P V L D A L H H D S D R T
UniRef90_A0A024HBX1 T G G Q I L V D Q L R I H G T R I F C V P G G E S Y L D V L D A L H H D Q I D L
UniRef90_Q471R9 K G S D L F L K A L E Q E G V E Y I F A V P G G E E N L D L E S I R K S I T L
UniRef90_N6VZP0 S G S A M I C A K A L K E E N V K V T F F G Y P G G G A A L N I Y D E I Y N G F K H
UniRef90_A0A023WII6 S G G H L V A K A L C C E G V D T I F T C G G H I I D C I D E G Y K V
UniRef90_UPI00046F82F8 K V S D Y I V N F I V N Q G I H D I F F G Y Q G T M I A H L V D S I Y K N I K N
UniRef90_B1C6M0 S D Y I I D F L V Q E G S H V F E L T G G A I L T H L D S V V P Q I E T C
UniRef90_R4KQA8 G G R I V I E Q L K I H G C E R V F L V P G E S F L A V L D G L V P Q I E T C
UniRef90_UPI0003727CB5 T P S E A I V E T L J A E G V T H I S G I L G S A F M D M L D L L P T G I E T F
UniRef90_UPI0002D8B3C1 G G H L L V D Q L F A H G V K D T V F C V P G G E S Y L A V L D G L H D D S I E V
UniRef90_X4ZQA7 G E R L V G L E A Y G I K T V F G L P G G N T V Q L A V L R G L D N S I R H
UniRef90_A4A3X6 N G A Q W L V Q A L R A Q G V G M V F F G Y P G G G A I M P V Y D A L D G G V K H
UniRef90_G3ADS1 S D Y I A K R L K E H G V H F M V S G G G A M H L N D S F H G R A I P Y
UniRef90_V8CJK5 V S D Y I A K R L V S H D I R D V F T V T G G G A M Y L N D S F H P H H C
UniRef90_UPI0004653A53 T G A E S V I A A L E G A D V T R A F F G V Q G G A I M P I Y D A L Y H S I T H
UniRef90_V4H FY3 T A A D L V E T L T E W N V D T V F G L P G G D G I N G V M E A L R K R V T F
UniRef90_U4QFJ5 V L E Y L K G N G V E Y V F G I P A G S V N A F F D E L R D M I T P
UniRef90_W4QQW3 E A A I E V M K L E G V D V V F G V P G A A I N P M Y A A M K K V I D H
UniRef90_A6FD61 K V S D Y I A D R I A Q W G I R D A V F T V T G G G A M H M N D S F G H H H C
UniRef90_R6KSD7 D A A V R L K E G V S T A F G V P G A A I N P L Y S A L K K R I R H
UniRef90_A0A023XHJ0 S G G Q A A V E S L K V E N V S H V F G L I G S A T M E M F D A L Y D T I R N F
UniRef90_D5BNH0 T A A A A V E I L K R E G V T Q A F G V P G G A I N P F Y R E L K N V I S H
UniRef90_F2RCB7 C A Q V L M R L R E Y Q V E K V F G L P G G V H T I E L Y R G L P S N D L I H
UniRef90_UPI00037273D5 S D Y I V T F L Q K K G I R H F F G Y Q G T M I A H L V D S I E R N P E T
UniRef90_R7CP74 K A S D L L V K C L E N E G V E Y I F F G V P G G E E N A D F M M S L E D K I K L
UniRef90_F9T249 D L F V Q A L E A E G V E I I F A V P G G E E N L D L V E S L R T S I K L
UniRef90_UPI0004696DC5 K A S D L F V K A L E A E G V E Y I F G I P G E E N L D L V E S L R T S I K L
UniRef90_Q31E01

UniRef90_UPI000407A71B
UniRef90_I4KJ18
UniRef90_L7Y7M7
UniRef90_UPI00036CF1A9
UniRef90_F9EHZ3
UniRef90_R6LWN9
UniRef90_S6K2Z3
UniRef90_UPI0003683223
UniRef90_I5C2H4
UniRef90_D9QQE0
UniRef90_UPI00035C89C3
UniRef90_Q7UHW9
UniRef90_UPI0003B3810B
UniRef90_K0B7C4
UniRef90_D2RXB8
UniRef90_A0A011U5A4
UniRef90_A0A024PV07
UniRef90_R7FE90
UniRef90_G2I7K0
UniRef90_L0K5I7
UniRef90_UPI0003A94DDD
UniRef90_UPI000237A599
UniRef90_G0J6M4
UniRef90_D1AE69
UniRef90_W9BY96
UniRef90_W2DLV6
UniRef90_C7NZJ0
UniRef90_UPI000307B208
UniRef90_UPI0003733C75
UniRef90_V4RJ51
UniRef90_G4F4E6
UniRef90_J0WP39
UniRef90_UPI0003B30876
UniRef90_C5CY72
UniRef90_R5DJS1
UniRef90_UPI0003FB8DAF
UniRef90_Q59498
UniRef90_R5S5K5
UniRef90_B9R2H7
UniRef90_T0J5G9
UniRef90_UPI00036A3B1F
UniRef90_A0A023X1R2
UniRef90_D4DQR9
UniRef90_Q2CC29
UniRef90_K2FPP1
UniRef90_M9R954
UniRef90_X5MNY6
UniRef90_C5C210
UniRef90_A0A023NST8
UniRef90_B9LUZ6
UniRef90_UPI00024901F7
UniRef90_UPI00036D4B49
UniRef90_Q0FID3
UniRef90_UPI000463511C
UniRef90_D0LXM0
UniRef90_H2G142
UniRef90_Q2KVK0
UniRef90_A0A024IGE9
UniRef90_M3J5P5
UniRef90_U3AER8
UniRef90_W4L7J5
UniRef90_X7EEY8
UniRef90_Q0S7Z6
UniRef90_G4QMJ6
UniRef90_K4L1U2
UniRef90_A0A024HBX1
UniRef90_Q471R9
UniRef90_N6VZP0
UniRef90_A0A023WII6
UniRef90_UPI00046F82F8
UniRef90_B1C6M0
UniRef90_R4KQA8
UniRef90_UPI0003727CB5
UniRef90_UPI0002D8B3C1
UniRef90_X4ZQA7
UniRef90_A4A3X6
UniRef90_G3ADS1
UniRef90_V8CJK5
UniRef90_UPI0004653A53
UniRef90_V4HFY3
UniRef90_U4QQJ5
UniRef90_W4QQW3
UniRef90_A6FD61
UniRef90_R6KSD7
UniRef90_A0A023XHJ0
UniRef90_D5BNH0
UniRef90_F2RCB7
UniRef90_UPI00037273D5
UniRef90_R7CP74
UniRef90_F9T249
UniRef90_UPI0004696DC5
UniRef90_Q31E01

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

UniRef90_UPI000407A71B M L T A F G S N E 90 V L V C L T G Q V P 100 T Q F L G R G H L H E M P 110 D Q L A T L R T
UniRef90_I4KJ18 I L N A K M A N T P L V V T A G Q Q V D T R H G V T D P L L H G D L V A L A R P
UniRef90_L7Y7M7 L A D A L D S T P I V C A T G Q Q V S S A H L L G T D A F Q E E A N D I I R G L S I P P
UniRef90_UPI00036CF1A9 L M D A A M D S V P V V A I T G Q Q V P S A A I G G T D A F Q E E A D N I I R G L S I T M P P
UniRef90_F9EHZ3 I A D A H M D S V P L V A I T G Q Q V G A R A I G T D A F Q E E A D I V G A T M P P
UniRef90_R6LWN9 V Q G A W V E S I P M I V I S S V H P R T S G L D G R R G R G V Q E N N L I E Q L T K P P
UniRef90_S6K2Z3 M G Q A Y A D S I P M L V I S S V Q L G G G R G K L H P N N Q A A L V G G
UniRef90_UPI0003683223 L A D A Y M D S V P I V A I T G Q Q V S S K T I G T D A F Q E E A D I R G I T M P P
UniRef90_I5C2H4 L A D A L D S T P L V C A T G Q Q V A A H L L G T S D A F Q E E A D V V V G I S M P S
UniRef90_D9QQE0 M G Q A M A D S V P M V V I T G Q Q L P T S D Q G T G S L H E L K N S T Y L T K S
UniRef90_UPI00035C89C3 I R D A M A D S I P L V M I S G Q Q V A R S A V G T D A F Q E E A P V F N L M S S
UniRef90_Q7UHW9 I A D A K L D S I P M L C A T G Q Q V P T G A I G T D A F Q E E A P M V E I C A R K N
UniRef90_UPI0003B3810B V A G A Y L D S I P M I V I T T V R S T G L D L R S M G D Q E E F D I T L S A K N
UniRef90_K0B7C4 V A N A N M D R S R L L A I T G Q T D S H L L H K E S H Q N L N V V K M F E P
UniRef90_D2RXB8 L A D A D M D S D P M V A L T G Q Q V P T E L V G N D A F Q E E T D T T G V T T P
UniRef90_A0A011U5A4 V H I A M Q D S I P M I L F L G D V D R A M G G N Y Q Q E V D L L S L F K D V
UniRef90_A0A024PV07 L T N A W Y S H S P L V L T A G Q Q A R S M M G V E S M L A N V D A P Q L P R P P
UniRef90_R7FE90 V A D A N S D G A P L V A I T G Q Q V D T N R M H I T S H Q F E A D L V Q M F T P
UniRef90_G217K0 L L D A M L D S I P V V C F S G Q Q V G V P L I G T D A F Q E A D T T G I T R P P
UniRef90_L0K517 L A H G L G N L Y A P V V V T A G N H S T D F R H E E P I L S G D L V E M A T E P
UniRef90_UPI0003A94DDD L T N S R L M K T P L V V T V G Q Q D T R H Y V R D P L L Y D D L V S I G S P P
UniRef90_UPI000237A599 V G G A F R D S S P A I I T C N N N G A N I H K R D D A Q N A D H V I L F A P
UniRef90_G0J6M4 G A Y A Q L G A M P M L M I T G Q K P I K K S K Q A R F Q Q I I D V V D M M R P
UniRef90_D1AE69 L Y D A K L D H V P V V A V V G Q V D R A A M G G N Y Q Q E V D L L S L F K D V
UniRef90_W9BY96 V H V A M Q D S K P M I L F L G D V D R G M R D R E G F Q E V D F Q A M F A P
UniRef90_W2DLV6 M G Q A Y A D S V P M L V I S T T N R R E H L G H G H L H E L P D Q R A M V A G P
UniRef90_C7NZJ0 L A D A N M D S D P V I A L T G Q V P T E F V G N D A F Q E E T D T V G I T Q P P
UniRef90_UPI000307B208 L V I T A M T D S V V V L V L G Q V P T T L I G T D A F Q E E A D L F S M T M P P
UniRef90_UPI0003733C75 L Y D C H R S R V P V L A I A S Q I P S F E L G T Q Y F Q E E T H P E R L F Q E G
UniRef90_V4RJ51 V H I A A Q D S T P M I L F I G V E R G M L G R E A F Q E E V D Y E Q Q F F G G
UniRef90_G4F4E6 M G Q A L A D S V P M L V I S S V N R R E T L G R G Q G R H E L P N Q Q Q T G
UniRef90_J0WP39 V A N A A F D S I P M V L I A G D V P S Y Y F G K H P H Q E V N M H Y R I L E P
UniRef90_UPI0003B30876 I A T A Y A D S I P L V A I T G Q V N S D M I G S D V F Q E E A D T G A V I E S
UniRef90_C5CY72 V H I A H Q D S T P L L L F V G Q V A R E A L G R E A F Q E E L D Y G A V F G T
UniRef90_R5DJS1 V A N A Y L D N Y P L V V I T G Q Q V T S E L L H K D A F Q E E V D I D I T K S D
UniRef90_UPI0003FB8DAF L Y D A K L D H Q P V V A I V G Q Q K R L A Q G T H Y A F Q E E A D I L E D L F S D
UniRef90_Q59498 L A D A Q M D S I P V V A V T G Q V G R T L I G T D A F Q E E A D I S G I T M P P
UniRef90_R5S5K5 I G N A Y D S I P V I F L T G N V N T H M K V R Q C S F Q E S D L I P V V I E S
UniRef90_B9R2H7 V H V A A Q D S T P M I L F I G Q I E R G M R E R E A F Q E E V D Y R Q M F G G
UniRef90_T0J5G9 V Y G A Y V D S I G M V V S G Q V K R E T C A P N Y P D Q E V D V S M V R G
UniRef90_UPI00036A3B1F I A T A Y M D S I P L V V I S G Q Q V P S S K I G Q D A F Q E E T D M V G V S R P P
UniRef90_A0A023X1R2 M V T A F H N R T P L V V T A G Q V H S R G H I S L E P M L K G E L V E L A K P
UniRef90_D4DQR9 I A T A Y S D S I P L V V I S G Q V G S P A I G T D A F Q E E I D M V G V S R P P
UniRef90_Q2CC29 L H V A Q Q D S V P M V M F V G Q I A T D T R G G R E A F Q E E M D Y R A V F G S
UniRef90_K2FPP1 A G Q A K A F H T P L L I T I G H P S M K D Q Q D S S M F G T D L C R M F E P
UniRef90_M9R954 V H I A M Q D S T P M I L L V G Q I R S E D R D Q D R E A F Q E E V D Y K S L F G G
UniRef90_X5MNY6 V A D A N M D R A P M L V L T G Q G A T A R Q H K E S H Q I M D V V G M Y E P P
UniRef90_C5C210 L A D V N M D S I P V V A I T G Q V G A S M I G T D A F Q E E A D I V G I T M P P
UniRef90_A0A023NST8 A A Y A H L G A M P M V I T G Q K A K S A R Q A R F Q I V D V V G A M R P P
UniRef90_B9LUZ6 I A D A D M D S D A M L A L T G Q V P T E F V G N D A F Q E E T D T V G V T R S P P
UniRef90_UPI00024901F7 I A D A M R D S V P M V V E T G Q V G T K L I G T D A F Q E E A N V L S L T D S
UniRef90_UPI00036D4B49 I A D A M A D S V P L L V I T G Q V A R P G I L G K D A F Q E E A D I I G A T M P P
UniRef90_Q0FID3 V H T A M Q D S V P M I L L V G Q I G T E M R E R E A F Q E E V N Y R A V F G T
UniRef90_UPI000463511C L Y D A K L D H V P V V A I V G Q T A R S A I G G R Y Q Q E I I D L P S L L K D V
UniRef90_D0LXM0 A A Y A Q L G L P M F M L T G Q K P I K T S K Q A Q F Q I V D V D M M R P
UniRef90_H2G142 L Y S A S A D S I P I L C A T G Q A P R A R M H K E D F Q A V D I E S I A K P P
UniRef90_Q2KVK0 I H S A Q Q D A V P L V V F V G Q V E R P H R G M D A F Q E E I E Y P R V F G S
UniRef90_A0A024IGE9 V H T A F Q D S T P M V L F V G D V A S D A R D R E A F Q E E V D F A F F G P P
UniRef90_M3J5P5 V H T A F Q D S T P M L L F I G Q V A S D Q V E R E A F Q E E V D Y R R M F G Q
UniRef90_U3AER8 V H V A R Q D S T P M V L F V G Q I A R G D R D E R E A F Q E E V D Y R A M F G P
UniRef90_W4L7J5 V A A Y V A H S P V V A I T G G P M S A N Y E R E A F Q E L D V N M F K P P
UniRef90_X7EEY8 V H I A Y Q D S T P M I L L V G Q V G R D T M D R E S F Q E I D Y R Q M F G P P
UniRef90_Q0S7Z6 L A T A F A D S M P M A V H T Y M E N R G V L Q E I D R P H G N N F P R M V E P
UniRef90_G4QMJ6 A A Y A Q L G A M P M L M I T G Q K P I K T S K Q R F Q V I D V V D M M R P
UniRef90_K4L1U2 M G Q A L Q D S Q P M L V I S A D N N T W Q R G M G E G R L H R N L Q A A M A E
UniRef90_A0A024HBX1 V H T A K Q D S T P M I L F V G Q V E S A F M G R E A F Q E E V D Y R A V F G G S
UniRef90_Q471R9 V H I A R Q D S T P M I L F A G Q L A R E H K G R E A F Q E E V D Y A A M F G P
UniRef90_N6VZP0 A A Y A Q L G A M P M L M I S G Q K P I K S S K Q G L F Q Q I I D T V D L M R P P
UniRef90_A0A023W1I6 L A T A Y S D S I P L V L I S G Q V A N S L I G T D A F Q E E I D A V G L S R P P
UniRef90_UPI00046F82F8 I A T A F R S E S P V L H I G G Q A A S S Q H R M G G L Q D L P H V D M M R P P
UniRef90_B1C6M0 I A D A F F D S S P T V F I T G Q L N L Y E Y T R Q M G G F Q Q M D V I S S V K N
UniRef90_R4KQA8 I G S C Y F D S V P C L E I T G Q V N T Y E Y K F G R S F Q E T D L V S V V K P
UniRef90_UPI0003727CB5 V H I A Q Q D S T P M I L I I G Q V S R Q M I D R E R E A F Q E E V D F R K M F E P
UniRef90_UPI0002D8B3C1 V A A A N Q A H T P M V V I S P S A G T P T V G W D G F Q E C D Q V S V F K A
UniRef90_X4ZQA7 L H I A K Q D S S P L I L F V G Q I E R G M R E R E A F Q E E M D Y R A V F G T
UniRef90_A4A3X6 M M Q A L A D S V P M L V E T A V A A R R D L G M G E G R L H P D Q S A L A A Q
UniRef90_G3ADS1 L A D A L L D S V P I V A I T G Q V G L A F I G T D A F Q E E I D V L G L S L A
UniRef90_V8CJK5 V F G Q W S D S V P V L Y I S G Q V K Y E I P L R Q L G Q E V D I V S V V Q P
UniRef90_UPI0004653A53 V A G G W M D S I P M L V F T T V Y A S G L K L R T R G V D I I G S V I Q N
UniRef90_V4HFY3 I A D A S M D S D A M L A L T G Q V P S H M V G S D A F Q E E T D T T G V T K P
UniRef90_U4QFJ5 L Y D A K L D Q V P V L A I T G M Q Y H D L V I E T F T Q Q D V D A E T R V F E D
UniRef90_W4QQW3 A N A M R E H L P V L F L T G A V P V N T V G L N A S Q E E L N A E P I F F E P
UniRef90_A6FD61 L Y S A S A D S I P I L C A T G Q A P R A R L H K E D F Q A V D I A S I A G P P
UniRef90_R6KSD7 V L G A W M D S I P M L V F T T V P A S G L P L R S M G V Q E C N I V P V I A S
UniRef90_A0A023XHJ0 L Y S A I A D S I P M L C I T G Q A P R A R L Y K E D F Q A V D I E S I A K P
UniRef90_D5BNH0 G L J A Q A S A A F S P V I S I A G A L S S G H V Y R D A F Q E V D Q Q A L F T P P
UniRef90_F2RCB7 L Y S A I A D S I P L L C I T G A A P V I S K L H K E D F Q A V D I A T L A K P
UniRef90_UPI00037273D5 M A Q A Y A D S I P M L V I S G V A N R R E D L G M G R G R L H E L P R A S R G
UniRef90_R7CP74 V A D A Y D S I P V I F L T G Q L N T Y E Y S R Q Q G F Q E T D I V A M A K P
UniRef90_F9T249 V A D A N M D R S P M I V I T G Q G S T H R L H K E S H Q I I M D V I K M F E P
UniRef90_UPI0004696DC5 A A Y A H L G G F P L I V L T G Q K P I K S K Q G Q F Q I I D V V G M F E P
UniRef90_Q31E01 A A Y A Q L G A M P M V M I T G Q K P I K T S K Q G Q F Q I I D V V D M M H P

UniRef90_UPI000407A71B
UniRef90_I4KJ18
UniRef90_L7Y7M7
UniRef90_UPI00036CF1A9
UniRef90_F9EHZ3
UniRef90_R6LWN9
UniRef90_S6KZ23
UniRef90_UPI0003683223
UniRef90_I5C2H4
UniRef90_D9QQE0
UniRef90_UPI00035C89C3
UniRef90_Q7UHW9
UniRef90_UPI0003B3810B
UniRef90_K0B7C4
UniRef90_D2RXB8
UniRef90_A0A011U5A4
UniRef90_A0A024PV07
UniRef90_R7FE90
UniRef90_G2I7K0
UniRef90_L0K5I7
UniRef90_UPI0003A94DD
UniRef90_UPI000237A599
UniRef90_G0J6M4
UniRef90_D1AE69
UniRef90_W9BY96
UniRef90_W2DLV6
UniRef90_C7NZJ0
UniRef90_UPI000307B208
UniRef90_UPI0003733C75
UniRef90_V4RJ51
UniRef90_G4F4E6
UniRef90_J0WP39
UniRef90_UPI0003B30876
UniRef90_C5CY72
UniRef90_R5DJS1
UniRef90_UPI0003FB8DAF
UniRef90_Q59498
UniRef90_R5S5K5
UniRef90_B9R2H7
UniRef90_T0J5G9
UniRef90_UPI00036A3B1F
UniRef90_A0A023X1R2
UniRef90_D4DQR9
UniRef90_Q2CC29
UniRef90_K2FPP1
UniRef90_M9R954
UniRef90_X5MNY6
UniRef90_C5C210
UniRef90_A0A023NST8
UniRef90_B9LUZ6
UniRef90_UPI00024901F7
UniRef90_UPI00036D4B49
UniRef90_Q0FID3
UniRef90_UPI000463511C
UniRef90_D0LXM0
UniRef90_H2G142
UniRef90_Q2KVK0
UniRef90_A0A024IGE9
UniRef90_M3J5P5
UniRef90_U3AER8
UniRef90_W4L7J5
UniRef90_X7EEY8
UniRef90_Q0S7Z6
UniRef90_G4QMJ6
UniRef90_K4L1U2
UniRef90_A0A024HBX1
UniRef90_Q471R9
UniRef90_N6VZP0
UniRef90_A0A023WII6
UniRef90_UPI00046F82F8
UniRef90_B1C6M0
UniRef90_R4KQA8
UniRef90_UPI0003727CB5
UniRef90_UPI0002D8B3C1
UniRef90_X4ZQA7
UniRef90_A4A3X6
UniRef90_G3ADS1
UniRef90_V8CJJK5
UniRef90_UPI0004653A53
UniRef90_V4HFY3
UniRef90_U4QFJ5
UniRef90_W4QQW3
UniRef90_A6FD61
UniRef90_R6KSD7
UniRef90_A0A023XHJ0
UniRef90_D5BNH0
UniRef90_F2RCB7
UniRef90_UPI00037273D5
UniRef90_R7CP74
UniRef90_F9T249
UniRef90_UPI0004696DC5
UniRef90_Q31E01

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

UniRef90_UPI000407A71B V F T Q R A A A G P A E V F D
UniRef90_I4KJ18 V M E Q H T D V K A G P P
UniRef90_L7Y7M7 A Q F Q R T E
UniRef90_UPI00036CF1A9 A L Q
UniRef90_F9EHZ3 A Q E D L T E F R W P A R L D
UniRef90_R6LWN9 I Q G S K V A E D E L R Y F E
UniRef90_S6K2Z3 V L V E E A D E
UniRef90_UPI0003683223 A L T A T V W P D A A D L P G Y R P T T
UniRef90_I5C2H4 A Q I E L A E
UniRef90_D9QQE0 I L Q A P I
UniRef90_UPI00035C89C3 V Q N Y E C
UniRef90_Q7UHW9 V Q
UniRef90_UPI0003B3810B I Q A R M I D P D S L E A Y D
UniRef90_K0B7C4 I A K R E S D I P P
UniRef90_D2RXB8 I T N G E T D P D A P S V P E T Y
UniRef90_A0A011U5A4 M L V S E V D A P A A L P F
UniRef90_A0A024PV07 D W G H E V S E E A A L L S E R E V
UniRef90_R7FE90 I A K L P V P E D P N V M P M R H T A
UniRef90_G2I7K0 L M V A P A P Y V A P P R
UniRef90_L0K5I7 V A L A E T D G E P E R L
UniRef90_UPI0003A94DDD V M E E L S D A
UniRef90_UPI000237A599 T I E Q I V I E D P P A L P E V H P S
UniRef90_G0J6M4 I A Q E N V I E D H V F E V V D Y M L P
UniRef90_D1AE69 L Q E E T Y R P P E H A F R Q V P S
UniRef90_W9BY96 M L K D V V I E T A D R P R V T R P
UniRef90_W2DLV6 V L D M P A
UniRef90_C7NZJ0 I T K G E T D V E P A A P
UniRef90_UPI000307B208 I Q F M E C P E
UniRef90_UPI0003733C75 V S Y E E T I E A P A P R L P V L H R R S
UniRef90_V4RJ51 I L T E L A E A V E T P R A
UniRef90_G4F4E6 L F V A P V A E Q L P R P T E
UniRef90_J0WP39 M F S R E M D E E
UniRef90_UPI0003B30876 V Q T A E F
UniRef90_C5CY72 M L T E A A D A Q P Y A V V E T H P G A
UniRef90_R5DJS1 V F L E E T E
UniRef90_UPI0003FB8DAF V Q E A D A M P S P P
UniRef90_Q59498 V L Q G Q C T P P R I H L P G Y K P T T
UniRef90_R5S5K5 V Q R G N V D L K T M R
UniRef90_B9R2H7 T L V E L A D P P A W Q Q V E T H P
UniRef90_T0J5G9 V Q A A P V D F D A L E P F D
UniRef90_UPI00036A3B1F V T E
UniRef90_A0A023X1R2 D L D A D Y
UniRef90_D4DQR9 V T Q S M A
UniRef90_Q2CC29 M Q T Q E V
UniRef90_K2FPP1 I L L E E A E P F L L D I P D R T P
UniRef90_M9R954 M L S A L A D V
UniRef90_X5MNY6 I A K H E T D P M Q P R R F R R P
UniRef90_C5C2I0 A Q Q A E T T P P E T D L P G Y H P T
UniRef90_A0A023NST8 I A V E E A D A L L V P P H S I E M P
UniRef90_B9LUZ6 V T Q A E T E E T P G P A A P
UniRef90_UPI00024901F7 V M A K T I E T D D
UniRef90_UPI00036D4B49 V A A S E T D F Y
UniRef90_Q0FID3 M L M A E T E A A P V D G P
UniRef90_UPI000463511C V Q E E E Y T P P R H A F K H V P S
UniRef90_D0LXM0 I A A E E A G V I Q A S Q V R R P V A
UniRef90_H2G142 V Q M A E I D P E A Y Q P
UniRef90_Q2KVK0 M L E Q D S T A S P A A P F A L P V
UniRef90_A0A024IGE9 M L T H E V D T A P L P R V I E
UniRef90_M3J5P5 M L T S H A D A P A Y K H V I E M H P G S
UniRef90_U3AER8 V L S G L A E A R D L A P A P E R L
UniRef90_W4L7J5 V L N Q E I E I D M I P P E Q Y R P
UniRef90_X7EEY8 M L T D R V A V P D G R P Y
UniRef90_Q0S7Z6 L Q A E Y G D Y T P D T G A R R P
UniRef90_G4QMJ6 I A D E
UniRef90_K4L1U2 V I T A P A
UniRef90_A0A024HBX1 V L A Q V A D A P A P R I P Q V A P A
UniRef90_Q471R9 V L D G L V N C A D A A P Y R P V A A
UniRef90_N6VZP0 I A I E M A D A D T H I F K P R R P S A
UniRef90_A0A023WII6 V
UniRef90_UPI00046F82F8 V L D R E V P L E S A V L P D
UniRef90_B1C6M0 I Q R E E I E
UniRef90_R4KQA8 I Q R A Q I E P D K L A S F
UniRef90_UPI0003727CB5 V Q S S L A E V I E D
UniRef90_UPI0002D8B3C1 Y F Y G E V I E D Q I L Q P H Q Y R V D S
UniRef90_X4ZQA7 M L V E M A D V P D A P H Y E
UniRef90_A4A3X6 V I T Q D A
UniRef90_G3ADS1 I Q
UniRef90_V8CJK5 I Q A T M I D E E N L V I E F D
UniRef90_UPI0004653A53 V Q G A I I E T D E L Q
UniRef90_V4HFY3 V S L D D T D P G P A E A P A R S T P
UniRef90_U4QQJ5 T Q E K P A E E E S R R N L P R H V P
UniRef90_W4QQW3 V Q L E P V D I P S A P V R K P I V P S
UniRef90_A6FD61 V Q L A E I D I D S Y E P L I E P Y
UniRef90_R6KSD7 V Q G A I I E T E S L R A Y D
UniRef90_A0A023XHJ0 V Q L A E I D D E T Y E P L S V Y K P T
UniRef90_D5BNH0 I L A E T I D F P A F Q S P D T Y
UniRef90_F2RCB7 V Q L T E L D P E T Y E P L P V Y
UniRef90_UPI00037273D5 L F P A P
UniRef90_R7CP74 I Q R S E V I E N P V Y D
UniRef90_F9T249 I A K T T S V P M S T R R F R R S I P A
UniRef90_UPI0004696DC5 I A E E Q C D T A V I P P H K R Y
UniRef90_Q31E01 I A A E T D A

UniRef90_UPI00034C04C4 1 S G G H L V A K A L K A E G V D V V F T L C G G H I L I D I Y D G C A S E I I L 40
UniRef90_A3WVQ2 K A A D L M V K A L E N E G V I Q T Y V F F G L P G G E N L L D D L L E S L S E N S Y F I E L Y
UniRef90_D9SQE9 T G K E A I I E Q F L A D A G G I E R T H M F G N P G G T V E I Q D G F L D D A G L S E H E S Y F I E T
UniRef90_N1UYF7 S A G H V I V D T L E A A H G V I E R T Y V V P P G G E S F I V L D V L D D G L H E H E S Y F I E T
UniRef90_Q022M2 S G G R V L A D Q L Q I L L G A V D D T I V F G L P P G G E S Y L E D L L F A L L R S R I I K F V
UniRef90_Q1GFA1 N A A D L L V I E C L E A E G V I D Y F G V G P P G G E E L L E D L L F A L L R S R I I K F V
UniRef90_MOD8B9 T V G D F I V D R L H R A W G V K R I Y F G Y P P G G A G I N G V L Y A A L L R R Q S S I I T E H
UniRef90_Q122U7 N G G E I F H Q L L A A K G V V E H I F F G L C G G H T V I A F L L A D A F L E R R K I K F F
UniRef90_B2JP16 I S K Q L V T Y L E N R G V V E H I F F G L C G G H T V I A F L L A D A F L E R R K I K F F
UniRef90_B6HG78 V A F Q L V R F L E S R G V E K V F F G L C G G H T V I A F L L A D A F L E R R K I K F F
UniRef90_I8TM70 T V H D V L T Y D L R K L G L T T V F G N P P G G S T E E S F L R D F P E D F T Y
UniRef90_D2Z612 K V A E L V A E A L E N L G I Q T H A F G G T I G A G N V H L F E A I A E R R G Y T F
UniRef90_AQGSU7 A H A L L Q R L R D H G V R T V F G V V G D E A A S L L F D A E A D H G M Q F
UniRef90_L9PKJ1 S G A E A M V R M L Q L H G V R H I V F G L C G G S T E E T F L Q D D F P S D F F T Y
UniRef90_I0CBY4 T V H D V T Y Q L L R S L G I T T V F G N P P G G S T E E T F L Q D D F P S D F F T Y
UniRef90_W4LKH8 T I R E V T F Q L L R D L G L T T V F G N P P G G S T E E T F L Q D D F P S D F F T Y
UniRef90_D3DDN4 U P I 0 0 0 4 6 E E 8 5 0 U P I 0 0 0 3 6 7 3 F 2 9 A T V A D L I A D C L H A E G V S V V F G L P P G G E N T R I I Q A I L A R P D D I R F L
UniRef90_UPI00046EE850 T G A Q H L A D A L T A L G T A V F F G L P P G G V H N L A V L W E A L R A D D D I R I Q T L
UniRef90_UPI0003673F29 T G A R L L V D A L L T H G A D R V F F G L P P G G E S F L A V L D S L H A D D R I Q T L
UniRef90_K7RSR4 N A S D V L V E R L L A W G V D T F F G L P P G G D G I N G V M E S L L Q D D K I R F F
UniRef90_R4TG34 N V A F V S C L R T E G V K R Y V F G L P P G G E N I K F V R A V A G D H I D F F
UniRef90_UPI0003671533 A T V A E A I A R G L A A A G V V F F G L P P G G E S T L N L M E S L R Y H N I I Q F L
UniRef90_E8X750 K A S D L F V R S L E Q E G V E A I F G G V P P G G E S T L N L M E S L R Y H N I I Q F L
UniRef90_UPI0003B76760 T V G D F F V R R L H E W G V R R I F G Y P S G G S I L P I Y D A L Y Q R D D I K L
UniRef90_U3TG86 S V G N L I V E T L A N H G V R R I Y S V P P G G E S F L D V L D G L Y E R V L R H
UniRef90_M1YX62 T G G E A L V R A L A A Q G A D T V F G L P P G G T H N L G A Y S A L L E R V L R H
UniRef90_UPI0003722E6B T G R S A F L A L K A D E G I T H L F G N P P G G T T E L P I M H A L H P D L T Y
UniRef90_J7QTH7 K T S D F I I Q A L E N E G V E Y I F G L P P G G E N L D L E S L R S D D Q I K L
UniRef90_UPI0004149616 T V R E A V F D L M R R F G M T S V F A N T G G A V I P I L R A G T P V P R F F
UniRef90_M6ZZ00 T G A A I L L D V L N D L G V E T I F G H T G G A V I P I L R A G T P V P R F F
UniRef90_UPI00041736E1 T V S E V F L S Q L A A W G L K R Y V F G T P G T S T L L G L V D A L R R R N R Y T
UniRef90_A2U072 K I S D Q L T A D F L Q E K G I R H V F G I T G A G N A H L F D S L I A A P I R T
UniRef90_UPI000378E1C8 S G G Q A L V D A L V A H G V I D T V F G I P G T H N L A A F A A P I R T
UniRef90_D3RPC2 S I A S T L V S N F R R L G I N H V F G I P G K P L V P L I E L D Q D V N F
UniRef90_O26576 G D L L V A Y L A Q L G V D Y V F G V P G G A I E P L Y N A L A R S P E R A
UniRef90_K2AZF3 T A D L L V E A L V N A G I K R I Y G I V G D S L N A V L D S I R E R K I E W
UniRef90_UPI00034D6D47 T A A D L L V D V L Y D W G V D R I F G G L P G D G I N G L L A A W D R R R R F
UniRef90_UPI00035DAB52 K V S D H L L K R L R E W G V E R V F G Y P P G D G I N G L L A A W D R R R R F
UniRef90_L7M2H6 V A E L V A D C L V A H G V D R A F G V P P G E S F L A L L A D A L R N D F D L
UniRef90_F3P7A2 G A R V V V E A L R K Q G V T H I F G V V G V P V I N F L A A Q A G I K F
UniRef90_A0A024IKX2 D A I V Q I L K E G A T Q A F G V P G A A I N P L V L S A M K E H I R H
UniRef90_V5HWL5 K G G E L I A E Y L V I Q E K V P Y V F G I C G G H G N V G I L D A L Y D K I Q L
UniRef90_E0MJU0 A T G A Q L I A R A L R D L G V T V I F G L V G I P V V D I A E A L N L G I R F F
UniRef90_UPI0003B4FBFB T T E E A F V K V L Q M H G I D N A F G I I G S A M M P S D L F P E G I F F
UniRef90_S6CZP2 K A A Q W I I D Y L R Q D G L D Y V F G I P A G S V N A L F D K M Y E H I T P
UniRef90_B5J35 G A E L I V K N L E A H G V K H V F G I P G A K V D R L E D A L D S S I T T
UniRef90_E3C825 K G S D L L A R Y L E H R G I T H V F E L I G G T I D Y L D S L H L H I H I
UniRef90_UPI00035DCBF2 G A D V I I D S L R K H G V D L V F G I P G A K I D R L F E G L D G Q P K L
UniRef90_N6YT69 T V A R T V V R L L A D A G V R T A Y T V P G G E S F L L D D E L Q P R I R L
UniRef90_F5XIR5 N V G L A V L R L L R D Y G L D T V F G T P G T H N L E F Y R H V I E R S G L H A
UniRef90_UPI0002FDB85C K A S D L L V Q C L E A E G C E Y V F G V P G G E N L D F L D S L E R K I K L
UniRef90_I1CQD8 S S G A E L I A N C L K T Q G V E V V G I V G I P V V E V A E A C A G I R F
UniRef90_U7KW71 V G T A I A E S L E A H G T A R A F L V P G G E S F L P V L D G L Y N P V Q A
UniRef90_UPI00035D782C T G G D V V I E C L T A L G I T H A F G I P G G Q H A L G L F D A L A R O P M I
UniRef90_V9VT70 T V G D F I A R Y L A D L G I T T H A F G V I S I H N M P L L D A V A R O R F
UniRef90_UPI0002629070 T V R K V A H E F L E R R G L T T I F G N P P G S N E L P F L A G L P D G G F T Y
UniRef90_UPI000262AF28 T T G W V V V E T I R G Y G V D T V F G P P G T H N L E L Y R P L D A G R I T P
UniRef90_A8TLJ7 N G A D I V D Q L V K E G M P Y L F G V C G G H G N V G F L D G A Y N R I K T
UniRef90_ROG0N4 T V R D A V F D L M R R L D M S A V F A N P G S T E L P M F R D F H A D F R Y
UniRef90_L7U9U3 K A S D L F V K A L E A E G V S Y V F G L P P G E E N L D L L E S M R S S L R L Y
UniRef90_L0IP51 A Q L M V K C L E N E G V S V F G L P P G E E N I R F I Q A L A S P L R Y
UniRef90_E0MLD9 T G A Q L L V E T L L T N G A E I G F G V P G G E S Y L A V L D A L Y S D D F R F
UniRef90_X6H334 T V A D A I L R L M E S Y G I D T I F S G V P G V H T V D F Y K S L P R R S I H
UniRef90_UPI000367D93D A E L I V R N L E A H G V K H V F G L P G A K I D R L F E A L E R D S I E T H
UniRef90_L7VN63 S G N D L V K H L T I E G V E Y I F G Y P G G S I M P I Y D A L H R R H I F H
UniRef90_Q1D682 A T V A D Y L L Y R L T Q W G I R R L Y G Y P G G D G I N G I G A L G R T L R F F
UniRef90_MOE2V5 T V A E A V V D A M L D R G V R D T V F G P P G K Q T L P L N R A L A D R D R F
UniRef90_X0S747 T V Q Q V T F R L M R E L N M T T V F G N P P G S T E L N F L N N F P E D F E Y
UniRef90_UPI00046898C0 S K T S D F F V I E R L K A W G V T R I Y G Y P G G D G I N G V L G A L Q R G I E F
UniRef90_M7MLU9 T S S E A F V E T L V S N D V T D I F G I M G S A F M D A M D I F A P G G I R L
UniRef90_K8NVE8 G A D L L A Q T L K A A G T S R I F S L T S G N Q I M P V Y D A F E L G I E L
UniRef90_UPI00040A15C8 S E R I A D W L A E E G T E Y I F T V T G G G A M Y L N M S L H P R L R C
UniRef90_F7XP96 K G S E L F V R C L E N E G V E Y V F G I P G G E E T D L L M E S L R S E S L R F
UniRef90_A0A019K273 T A A D M V I D T L K N N G V E Y V F G I P G A K I D Y L F N A L D D S G P E L
UniRef90_A4AL48 A I M T V L R N Y G I D T I F G I P G T H N L E F Y R P L S E G T P P
UniRef90_W0SIQ0 T G A W L A V R A L E A L G I K Y T F G I P G V H N T E L Y D E L S D I T P
UniRef90_D8IU6 A T V A D I L I D T L Y E L G V R Q I F G V V G D A L N P L T D A I L R R R I E W
UniRef90_H6MYB7 T T A E V L V D G L V A H G V D T V F G I P G V Q T Y P L F E A L S D T I D L
UniRef90_UPI00047B7306 T V A D Q F A E V L A A A G V Q R I Y G I V G D S L N G F T D A I L R R Q I O W
UniRef90_UPI00047BE161 G A D V L A S A I A D C G V G T V F S L S G N S Q I M P L Y D A L E P G I R I
UniRef90_AOPN11 S T T S E Q I V A V L A A E G V V F G I P G G D E N H F M E A L R N N R I K F
UniRef90_G0EQ06 S D F I L F A V L E E Y N I K Y V F M V S G D E N H L N D S V G N N I N V
UniRef90_A4SXU0 T V K E I T F D L L R K L Q V T T V V G N P P G S T E E T F L K D F P S D F N Y
UniRef90_UPI000372D328 D V L V K C L E N E G V E Y V F G V P G G E N L D L L E S L S Q Q Q F
UniRef90_L9WW16 V S E A V V D R L A A A G I D T V F G I P G T Q T L P L N E R S R A E F R F
UniRef90_K5CCR0 T V S Q Y I I R F L E S K G I T W I P G V P P G G T I L P L Y E S L A S K I E H

UniRef90_UPI00034C04C4 I D V R H E Q V A A H A A D G Y A R I T G K P G C A V V T A G P G T T D A V T S 80
UniRef90_A3WVQ2 V L T R H E Q A A G F M A A D G Y A R L T T G K P T G V C L S T L G P G G A T N L V T S
UniRef90_D9SQE9 I L T L Q H E S G A A V A M A D G Y A R K T K K P T G V V Q L H S R G V G G L G N A G L V G
UniRef90_N1UYF7 V V C R H E E G G A A Y M A E A D G K M N Q L P G I A M V T R G S P G G A A N A H V G
UniRef90_Q022M2 I S T R H E E Q V A A H A A D G Y A R A S G K P G V L M T H L G P G G L T N A A T G
UniRef90_Q1GFA1 V T C R H E E S G A S N M A D D V Y G K L T T G E A G V C A V T R G P G G A T N A S N G
UniRef90_MOD8B9 I P V R H E E S Q G A F M A D A Y H G R L T T G E A G V C L S T L G P G G A T N L L T G
UniRef90_Q122U7 I L A R H V E G A S H M A S E G Y T R A K A G N T G V C I T S G P A G A T D M I T G
UniRef90_B2JP16 V Q A R H E E M A A F M A S E H A K F T G E L G V C I A T S G P G A S H L L T T G
UniRef90_B6HG78 I L S R H H E Q G A G H M A S E G Y A Q A T G K P G V V L V T S G P G T S N L L T T P
UniRef90_I8TM70 I N V R H E E Q T A S H A A D G Y A R V K K Q A S V V L S H L G P G L T N A A T G
UniRef90_D2Z612 I S V R H E E Q L A A H A A D G Y A R G K G V P G V L M T H P G L T N A T T G
UniRef90_A0QSU7 V L S L Q H E A S A L A M A D G F A Q A T G K P A L V N L H T A A G T G N A M G S
UniRef90_L9PKJ1 V C V H H E Q A A C M A V Q T Y Y R T N G R I A A A L L T T G A G S T N G V T G
UniRef90_I0CBY4 V L T R H E F T A A G V A A D V V A R I T T G R P Q A C W A T L G P G G M T N L S T G
UniRef90_W4LKH8 I L A R D E R S A A Y M A D D V Y A R L T S G R V G V C E G P S G G G A T Y L L P G
UniRef90_D3DDN4 V L G L Q H E A S V M A M A D A F A Q V T R R P A L V N L H S S A G V G H S L I G N
UniRef90_UPI00046EE850 I Q T L H H E S A V G A A D G F A Q A N A R P A L V N V H T S A G G L S N A M S N
UniRef90_UPI0003673F29 I L S R H H E Q T A A Y M A D F G Y A Q A T G R T G V Y T V V P G P G V L N S S A
UniRef90_K7RSR4 I L V H H E Q A A S F M A D V Y G R L T G R A G V C L A T L G P G G A I N L L L G
UniRef90_R4TG34 V G V R H H E Q T A G Y A A D G Y A R A T A K K L G V A L V T T G P G G A A N T L A
UniRef90_UPI0003671533 I V C R H H E A A A N M A E A T G K L T G R P G I A F V T R G P G A T H A S I G
UniRef90_E8X750 I H V R H H E S A A F M A C A Y A K F T G R L G V C L A T S G P G G I H L L I G
UniRef90_UPI0003B76760 I L A R H H E Q G A S L M A D I Y G R L T G R K A G V C T A T L G P G G A I N L L L G
UniRef90_U3TG86 V T T R H H E Q V A V S A A D A E Y R V T R R L A A A V H A G P G F L N T A I S
UniRef90_M1YX62 I L T R H H E Q A A G F M A A T Y G R L T G R V G V C L S T L G P G V T N L V T A
UniRef90_UPI0003722E6B F T F K H H E M A A L H A A D A Y A R V S K K P G I V M V T S G P G A T N I V T G
UniRef90_J7QTH7 I Q V R H H E E M A A F M A S A H A K F T G R L G V C L S T G G P G A A H L I T G
UniRef90_UPI0004149616 V V C R Q E G G V G F M A L A E G R L T G I P G I A M V T R G P G A S N F F I A
UniRef90_M6Z200 V L V R H H E S G A G Y A A D G Y A R S T G R P G V V L T T T G P A I L N A V S S
UniRef90_UPI00041736E1 V M A M Q E S L V G A I A D G Y S R A S G K L V A C N V H V A P G L G N A M G S
UniRef90_A2U072 I L T R H H E Q G A G F M A A T Y G R L T G K S G V C M S T L G P G A T N L M T P
UniRef90_UPI000378E1C8 I L G L Q H E A C V V G M A D G Y A Q A T R N A S F V N L H S A A G V G N A M G N
UniRef90_D3RPC2 V L C R Q E G G A G H A A E G Y A R A S G R V G V A L A T S G P G A T N L I T P
UniRef90_O26576 I Q V R H H E A A A F M A S S Y G K L T G Q P A V C M A V A G P R A S N L I T G
UniRef90_K2AZF3 I C V H H E Q A A C M A M Q T Y R T C G V I S A A I V T T G A G S T N T I T G
UniRef90_X5KWQ9 V L T R H H E Q G A G Y A A D G Y A R V A G R P G V C L T T T T G P A L L N A L A
UniRef90_G7M886 V L S K H H E S G A G Y E A A D G Y S L M S K K I G V A I G T S G P G G T N L L T S
UniRef90_Q3JBM9 V V A R H H E T G A A F M A D G Y G R Q T G K L A V C C A T T G P G A T N L L T G
UniRef90_Q04789 I V A R H H E Q N A A F M A Q A V G R L T T G K P G V V L V T S G P G A S N L A T G
UniRef90_I8UBN4 I S V R H H E E V A A F A A G S E A A L T N S I A V C A G S S G P G N L H L I N G
UniRef90_G7ZDG0 I Q V R H H E E A A A F A A C G Y A K F S D R L G V C L A T S G P G G L H L L N G
UniRef90_UPI00034D6D47 I Q A R H H E E L A A F E A V G Y A K F S D R L G V C A T S G P G A V H L L N G
UniRef90_UPI00035DAB52 V T C R H H E S A S L A A V A D A K L T G R A G V V M T S R G P G A F N A A L G
UniRef90_L7M2H6 V G M H N H E Q A A C Y A A G A M G Y L T R R P G V C L V T S G P G G T H A L M G G
UniRef90_F3P7A2 V L J A R H V E A A S H M A E G Y T R T V P G N I G V C I G S G P G G T D M V T
UniRef90_A0A024IKX2 V S P R H H E Q C A G H M A D A Y F R V K H K P V A T L T S T G P G S A N M V M S
UniRef90_V5HWL5 I A F R H H E Q A C S Y A A S V Y G Y M T G R P G V C L V V G G P G V L H A I A G
UniRef90_E0MJU0 W D C A H H E C N A G M M A D G F T R A T T G K M S M M V A Q N G P G L T N F V T P
UniRef90_UPI0003B4FBFB V T T K H H E G A A G Y M A S A Y A K R S D K L G V C I A S S G P G A T N L L S G
UniRef90_S6CZP2 V V T R H H E Q N A A F L A E G F L G R L T T G K A G V C I A T S G P G A S N F V T G
UniRef90_B5J35 I S M H H E Q G A G F A A E G F A R H T T G L P G I A M A T S G P G A T N L L T A
UniRef90_E3C825 I V T R H H E Q N A V F M A Q A Y A R L T T G K T G V A I S T S G P G V G N L T T G
UniRef90_UPI00035DCBF2 V S T R H H E S G A A F M A E A E G K L T G R P A L A L A S R G P G A A N L A I G
UniRef90_N6YT69 V S C R H H E Q L A A H I A D G Y A R V S T G K P G V V L T H V I G P G L T N A V T G
UniRef90_F5XIR5 V T A R H H E Q G A G Y A A F G L A Q R T G Q G V V I T T S G P G L L N A L S A
UniRef90_UPI0002FDB85C I L T R H H E Q G A G F M A A T Y G R H T G K A G V C V A T L G P G G A T N F V T A
UniRef90_I1CQD8 I G F R N H E Q S A Y A A S V Y G Y L S G R P G V C L S V G G P G G V H A L A G
UniRef90_U7KW71 I V S R Q E G G A S Y M A E A Y G K A T G E P G V A M V T R G P G A S N A F V G
UniRef90_UPI00035D782C H S S R V L E N S A A F A A D G Y A R S T D R P A A L F L S T G P G A L T A L A G
UniRef90_V9VT70 V P A R G E A G A M M A D A Y A R V T G H L G V C M T S T G T A A G N A A G A
UniRef90_UPI0002629070 V L G L H E G V V V G M A D G Y A Q A T G R P V L V N L H A A A G S G N A M G A
UniRef90_UPI000262AF28 V T T R H H E Q G A G Y A A D G W S L Q T G L P G V V I T T S G P G L L N A L S A
UniRef90_A8TLJ7 I S V H H E Q S A G Y M A D A Y Y K V K H E P V A T F T S C G P G S A N L V V A
UniRef90_ROG0N4 V L G L Q H E A V V V G M A D G Y A Q A S G K A A M V N L H S A A G V G N A M G N
UniRef90_L7U9U3 V V T R H H E Q A A G F M A A T W G R L T T G R A G V S L A T L G P G A T N L V T P
UniRef90_L0IP51 V L T R H H E Q G A A F M A E M Y G R V T G R A A V V S A T L G P G A I N M Q L G
UniRef90_E0MLD9 I G C R N H E G G G A F M A E A Y G K L T G K P G L L F V T R G P G I T N A S I G
UniRef90_X6H334 V T P R H H E Q G G A F M A Y G Y A F A T G R P A A C M L I T G P G V L N A A T G
UniRef90_UPI000367D93D V V T R H H E Q N A A F I A G Y L G R I T T G K A G V A I A T S G P G V S N L T T G
UniRef90_L7VN63 V L S R H H E Q G A I H A A Q G Y S R V S R S R K I C I A T S G P G A T N F I T G
UniRef90_Q1D682 I Q A R H H E E M A A F M A C A H A K F T G E V G V C L A T S G P G A I H L L N G
UniRef90_MOE2V5 V V A R H H E T A V P H Q A W G Y A E T S D P G E M A A T C V V P G P T N A M N G
UniRef90_X0S747 I L A L Q H E S S V V A M A D G Y A Q A S G N A A F V N L H S A V G V G H A L I G N
UniRef90_UPI00046898C0 I Q V R H H E M A A F M A D V G H A K F T G E M G V C L S T G G P G A T H L L T G
UniRef90_M7MLU9 V P V V H H E Q G A A H M A D G Y A R A S G R H G V V I G Q N G P G T S N C V T G
UniRef90_K8NVE8 V H T R H H E A A A V F M A E A H A Q L T G E V G V A L V T A G G G L G N A V G P
UniRef90_UPI00040A15C8 T F M H H E Q A C A M A E M Y A R L S G K P A V V M V T T G P G G I N A L N G
UniRef90_F7XP96 I V T R H H E Q S A A F M A N Y G R M T H A P G V C L A T L G P G A T N L M T G
UniRef90_A0A019K273 I V T R H H E Q N A A M M A Q G I G R L T G K P G V V L V T S G P G V S N L T T G
UniRef90_A4AL48 V T T R H H E Q G A S Y G S D G W S Q Q T G L P G V V I T T S G P G L L N A L S G
UniRef90_W0SIQ0 I L V T R H H E G G A S F M A D G V S R T S G Q T G T L V I V P A A G A T H A A S G
UniRef90_D8IU6 I G V R H H E G A A L A A A G Q A K L T G R L A V C C G T T G P G A N H L V A G
UniRef90_H6MYB7 I T P R H H E Q T C A Y M A L G Y A Q S T G R L G V C S V V P G P G L N A S A G
UniRef90_UPI00047B7306 L H V R H H E E V A A F A A S A E A H L T G S L A V C A G S C G P G N L H L I N G
UniRef90_UPI00047BE161 V H T R H H E A A A V F M A D G F A Q V S G G I G V A L V T A A P G F A N A L I G A
UniRef90_A0PN11 I L F R H H E L Q A A G F A A A D Y S R L T G N K L A V A M S T L G A G A M N L T T G
UniRef90_G0EQ06 I C C H H E Q A C A I A A D G Y S R I N G N L A V V N V T T G P G G T N L T T G
UniRef90_A4SXU0 V L A L Q H E A S V V A I A D G L S Q S L R K P V I V N I H T G A G L G N A M G C
UniRef90_UPI000372D328 I P V R Q H E Q G A A F M A S V Y G T L A K K P G V C T A T L G P G A M N L L T G
UniRef90_L9WW16 V M A R H H E T A V S H Q A W G Y A E T S G R P A A T V V V P G G A D M N A M N G
UniRef90_K5CCR0 V L A R H H E Q G A G F I A Q G R A R E S T G E V S A V F V S S G P G V A N L I T A

UniRef90_UPI00034C04C4
UniRef90_A3WVQ2
UniRef90_D9SQE9
UniRef90_N1UYF7
UniRef90_Q022M2
UniRef90_Q1GFA1
UniRef90_MOD8B9
UniRef90_Q122U7
UniRef90_B2JP16
UniRef90_B6HG78
UniRef90_I8TM70
UniRef90_D2Z612
UniRef90_A0QSU7
UniRef90_L9PKJ1
UniRef90_I0CBY4
UniRef90_W4LKH8
UniRef90_D3DDN4
UniRef90_UPI00046EE850
UniRef90_UPI0003673F29
UniRef90_K7RSR4
UniRef90_R4TG34
UniRef90_UPI0003671533
UniRef90_E8X750
UniRef90_UPI0003B76760
UniRef90_U3TG86
UniRef90_M1YX62
UniRef90_UPI0003722E6B
UniRef90_J7QTH7
UniRef90_UPI0004149616
UniRef90_M6Z200
UniRef90_UPI00041736E1
UniRef90_A2U072
UniRef90_UPI000378E1C8
UniRef90_D3RPC2
UniRef90_O26576
UniRef90_K2AZF3
UniRef90_X5KWQ9
UniRef90_G7M886
UniRef90_Q3JBM9
UniRef90_Q04789
UniRef90_I8UBN4
UniRef90_G7ZDG0
UniRef90_UPI00034D6D47
UniRef90_UPI00035DAB52
UniRef90_L7M2H6
UniRef90_F3P7A2
UniRef90_A0A024IKX2
UniRef90_V5HWL5
UniRef90_E0MJU0
UniRef90_UPI0003B4FBFB
UniRef90_S6CZP2
UniRef90_B5J35
UniRef90_E3C825
UniRef90_UPI00035DCBF2
UniRef90_N6YT69
UniRef90_F5XIR5
UniRef90_UPI0002FDB85C
UniRef90_I1CQD8
UniRef90_U7KW71
UniRef90_UPI00035D782C
UniRef90_V9VT70
UniRef90_UPI0002629070
UniRef90_UPI000262AF28
UniRef90_A8TLJ7
UniRef90_R0G0N4
UniRef90_L7U9U3
UniRef90_L0IP51
UniRef90_E0MLD9
UniRef90_X6H334
UniRef90_UPI000367D93D
UniRef90_L7VN63
UniRef90_Q1D682
UniRef90_MOE2V5
UniRef90_X0S747
UniRef90_UPI00046898C0
UniRef90_M7MLU9
UniRef90_K8NYE8
UniRef90_UPI00040A15C8
UniRef90_F7XP96
UniRef90_A0A019K273
UniRef90_A4AL48
UniRef90_W0SIQ0
UniRef90_D8IU6
UniRef90_H6MYB7
UniRef90_UPI00047B7306
UniRef90_UPI00047BE161
UniRef90_A0PN1
UniRef90_G0EQ06
UniRef90_A4SXU0
UniRef90_UPI000372D328
UniRef90_L9WVW16
UniRef90_K5CCR0

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

UniRef90_UPI00034C04C4 V L D A R V P V E R A R P R
UniRef90_A3WVQ2 I A A E E V D A T P I T P Y S R R P
UniRef90_D9SQE9 I L D A P I Q D E I V P
UniRef90_N1UYF7 I I R Q Q I D P T L H P A P
UniRef90_Q022M2 I F S A D L P A
UniRef90_Q1GFA1 M L T D E V T V A D L R V
UniRef90_MOD8B9 V A A D S V E G E P L P
UniRef90_Q122U7 V Q M A E I D I D T Y E P L P V Y K P A
UniRef90_B2JP16 L Q D L E F E P P A
UniRef90_B6HG78 I S S A I F D K A A L E
UniRef90_I8TM70 M F S K E I D
UniRef90_D2Z612 I F S M E L D V K F F Q R R
UniRef90_A0QSU7 D W D K P A G P A A V R S V S T R V A
UniRef90_L9PKJ1 I Q S G R I D P A T L E H Y V A P P A
UniRef90_I0CBY4 L L G S E I D A S V E H P A A K M P S
UniRef90_W4LKH8 V Q K G D V D
UniRef90_D3DDN4 D W N A P M T G P A V V R S V S T
UniRef90_UPI00046EE850 D W D K P A T G P A V
UniRef90_UPI0003673F29 V L R A P A E A V G P L P L P R P
UniRef90_K7RSR4 V E A Q V A P A D L G P L H G R P
UniRef90_R4TG34 F L S E R T P A R R P P R S H A R P A
UniRef90_UPI0003671533 M L S D P C P A V P A A P R Y R R V
UniRef90_E8X750 I Q I Q D V K I A E R S D R N V A
UniRef90_UPI0003B76760 V E A A P M P E A V P L
UniRef90_U3TG86 L W N A S I S E E A L K R I P R T P V A
UniRef90_M1YX62 I A E E E C A S Q P Y P V
UniRef90_UPI0003722E6B I Q L A
UniRef90_J7QTH7 L Q D L E Y E E P P R E
UniRef90_UPI0004149616 L L R G L T E V P A P A P
UniRef90_M6ZZ00 L F D V T A E L D D Y P R A
UniRef90_UPI00041736E1 I L N S E A
UniRef90_A2U072 V C K E E V A K P
UniRef90_UPI000378E1C8 D W D Q H T E R V P T R A V S T
UniRef90_D3RPC2 V Q L T A L E T A N V P R V R H R
UniRef90_O26576 V Q T M E C T A P V K P L
UniRef90_K2AZF3 I Q A A S V N P D E
UniRef90_X5KWQ9 L L D A E A E V H I V A P V A P R P
UniRef90_G7M886 I L N E E T E E F E I S L C D E H
UniRef90_Q3JBM9 I L A A P V K I P S Y Q L A
UniRef90_Q04789 V V N E
UniRef90_I8UBN4 V A A L E A E H E V A E
UniRef90_G7ZDG0 L Q D Q A A
UniRef90_UPI00034D6D47 V Q D L D Y E P P A H A F
UniRef90_UPI00035DAB52 L L E D P A
UniRef90_L7M2H6 M I M A E V P E E S V P
UniRef90_F3P7A2 V Q M A T I D F D A Y E P L P V P V P
UniRef90_A0A024IKX2 V Y Q E E A D V E L P P
UniRef90_V5HWL5 I T Q A A A D F K L P A P E N V L L P S
UniRef90_E0MJU0 Y W T Q V V D I E L P Q I V K F E L P
UniRef90_UPI0003B4FBFB I Q L S T L E G S T E Y P A K R R L S
UniRef90_S6CZP2 V L S M P A H A P V L R P L P R
UniRef90_B5J35 V Q V A D L P E P A
UniRef90_E3C825 V D D A V V D E Q P L P I Y E
UniRef90_UPI00035DCBF2 F W S Q P Y D G E P P P P F S T H P P S
UniRef90_N6YT69 F F S A E L P V G A F M Q A P S P V A
UniRef90_F5XIR5 V L E A A A S G V T P D
UniRef90_UPI0002FDB85C I A H D P T D A V P F K P
UniRef90_I1CQD8 F I Q Y P I
UniRef90_U7KW71 V L Y Q D F D G E I E V P I P
UniRef90_UPI00035D782C V L L E E L D Y A
UniRef90_V9VT70 V Q R S P A H P A T
UniRef90_UPI0002629070 D W A A E I D D N P V L D R T V R
UniRef90_UPI000262AF28 L L E A E A D V P A D A L A P R
UniRef90_A8TLJ7 V F V E E A E V E L Q E A S P R
UniRef90_R0G0N4 D W E Q P A E
UniRef90_L7U9U3 V A R E S T E A P L L A P W R R P V A
UniRef90_L0IP51 I D A D E T D Y D L Q P L P R N V V R A
UniRef90_E0MLD9 M L V A K S D A R I R P A V
UniRef90_X6H334 L L S S K V A V P H P D V I R R V S S
UniRef90_UPI000367D93D V L G L P A D
UniRef90_L7VN63 A Q
UniRef90_Q1D682 L Q E L E Y Q K P P
UniRef90_M0E2V5 L L A G R T P Q P A V
UniRef90_X0S747 D W D
UniRef90_UPI00046898C0 V Q D E P W E A P A H
UniRef90_M7MLU9 Y F Y G E T E I P E P R R V D R
UniRef90_K8NVE8 V V E A D A E V P P A S A F A R
UniRef90_UPI00040A15C8 V Q A A E C
UniRef90_F7XP96 I A A
UniRef90_A0A019K273 V I S S P V E S K A I S L C Q K P V P S
UniRef90_A4AL48 V L E S L S D C P E E L L Q A R P
UniRef90_W0SIQ0 L Q G E A G D I P A P P A I A R P Q P T
UniRef90_D8IU66 V I G A K T S V P S L H T L R E R T P
UniRef90_H6MYB7 V L P R Q V R V D D V A P L J E
UniRef90_UPI00047B7306 V A L H E A V E A P V P T F A S L I P S
UniRef90_UPI00047BE161 V L N A E A
UniRef90_A0PN11 V A R E T
UniRef90_G0EQ06 V Q A S D I D E
UniRef90_A4SXU0 D W E K L I P E V D V A R T V S T
UniRef90_UPI000372D328 L A L E P V P P R P L P I
UniRef90_L9WWI6 F L S M D V P
UniRef90_K5CCR0 I Q T Q

UniRef90_S9T4A1 I H V R H E E V A F A A G A D A R A L S G G L A V C A G S S G P G N L H L I N G G
UniRef90_UPI0002E29110 I G N C N E L N A A Y A A D G Y S A R R L N G G L G A V M T T F G V G E L S A V N G G
UniRef90_B8HHA4 T L A R H V E G S G F M A E D G F S R A K T D G N L G I C I T S G P G A G T D M I T G
UniRef90_X7FAR2 V L V R H E N S G A F M A E D G M H H A T G A P A V L V A T V I G P G A L N A I N A
UniRef90_UPI0004097959 V L A R H V E G A S H M A E G Y T R A A G N I G V C I G T S G P G A G T D M I T G
UniRef90_A0A052JIE1 V T C R H E E G G A G Y M A V A D A R A R L T P G V A L V S R G P G A G S N A A I A
UniRef90_UPI00036148D5 I P A R G E M G A G H M A D G Y A R L T N G L G V V F T S T S G P G G A M N I A G A
UniRef90_UPI00031F708A V L A R H V E G A S H M A E G Y T R A S R G N I G V C I G T S G P G A G T D M I T G
UniRef90_E6J91I G R A R H E E S A A F M A V A D A K Y S G A V G V V T S T Q G G A M H L I N G G
UniRef90_W4V0Y0 I D V R H E E Q A A F H M A D G W S Q V T R N I G V A L V T G G P G G F T N S I T G
UniRef90_UPI00034995A8 V Q S R H E E M S A F A A V G Q A K F G G G V G V C M A T G G P G A I H L L N G G
UniRef90_F7RVP8 I L V G H E E G A G A F M A D A V S R M G E S I G T M V I V P A A G V T H A A S G G
UniRef90_F0KEC2 V G N C N E L N A G Y A A D G Y A R L N G L G A I L T T F G V G E L S A I N A
UniRef90_F7YSQ9 I P V R H E E A N A A F M A G V I G R I N T G K A G V T M V T S G P G C G N L V S G G
UniRef90_UPI0003825693 M H V R H E E V A A F A A G A D A A V L S G Q L A V C A G S C G P G N L H L I N G G
UniRef90_UPI00047D3783 I N V R H E E Q G A A F M A D V Y A G R L S N K V G V C L S T L G P G G A T N L I T G
UniRef90_J4J8E0 V T C R H E S G A A F M A G A D A R A L T G R P G V A M V S R G P G A T N A S I G
UniRef90_W5XYZ0 Y S S R V E N F A A F A A D G Y A R A T G G N P A A L F L S T S G P G A L T S L A G
UniRef90_V6L0I2 V V J A K H E F N A A C M A E G N H R T G G G P G V V M T T S G A G A M N L V P
UniRef90_UPI00047C89C2 V P A R G E A G A G N M A D A Y A R S T S S L G V C L T S T G P A A G N I A G S
UniRef90_UPI000051034A V L G L H E Q V V V G M A E G F A R A T G R P V L V N L H A A S G S G N G M G A
UniRef90_C8XAN6 I T T R H E E Q G A G Y A A D G Y H Q A V S G R P V V V T T S G P A L F N V A A A
UniRef90_UPI0004657241 V V C R H E E G G A G M M A V A D A K L T G R P G L L A V S R G P G A T N A S I A
UniRef90_H3BDZ5 V D T R H E E V T A V F A A D A V A R L S T G V G V A A V T A G P G T N T V T A
UniRef90_S3IYP8 I P V R H E E A N A A F M A A A V G R I T S G K A G V A L V T S G P G C S N L I T G
UniRef90_L9PDJ3 V H V R H E E V G G F A A G A E A F V S G R L T L C A G S C G P G S L H F V N G G
UniRef90_G4RMH6 I M F R H E E Q G A A H A A E G Y A R V A K S P A V V A A T S G P G A T N L V T G
UniRef90_UPI000374A3C0 I H V R H E E V A A F A A V A D A Q V S K S I A V C A G S S G P G N M H L I N G G
UniRef90_U5DME8 I L T L Q E T I A L M T A D G Y A R A T Q T P T L V Q I H S T P G L G N T I G A
UniRef90_E0VZ99 I G M R N E Q S A C Y A A Q A M G Y R T G P A V C L V V S G P G L L H C A G G G
UniRef90_H5XYU8 I N V R Q E Q T A I F M A D G Y A R S T G K A G I C A T T S G F G V T D F L T G
UniRef90_V6Z2U6 I V A R H E E Q N A T F M A Q A V G R I T G E P G V V L V T S G P G V S N L A T G
UniRef90_B0X3H9 I G M R N E Q S A C Y A A Q A L G Y A T G K P G V C L V V S G P G L L H V T G G
UniRef90_UPI000364857D V L G L H E Q S V V V A M A D G Y A Q A G G R P A M V N L H A A P G L G N A M G A
UniRef90_UPI00047A229B I Q A R H E E A A A F M A V G H A K Y T G G V G V V T A T Q G P G A V H L L N G G
UniRef90_I0XWC2 Y L V T H E E C G A A F M A D A I S R T S E S I G T L V I V P A A G V H A L L S G G
UniRef90_A3CWV6 V V V R H E E Q T A A L A A S A Y N K F T T G E K V A V C L T L A G P A G A T N L A T G
UniRef90_L0A5Z3 V Q A R H E E E A A F M A C A H A K F T T G E V G V C L A T S G P G A I H L L N G G
UniRef90_E3BDJ8 M S S R V E N N A A F A A D G Y S R L V S T G K P A A L F L S T G P G A L T A L P
UniRef90_A0A023X757 V D V R H E E R S A V H M A H A D L S T G K I G V A M V T A G P G V T N T V T A
UniRef90_M3JTK9 M H V R H E E T A A F A A G A E A A V T S G E L A V C A G S C G P G N L H L I N G G
UniRef90_UPI0003B34456 V D Y R H E E Q A A V F A A D A A G R V S L T G K Y I G V A A V T A G P G V M N A V T G
UniRef90_F3A1Y1 V V V R H E E Q N A A F M A Q A V G R I T S G K P G V A L V T S G P G V S N L A T G
UniRef90_UPI000478006F V L M R D E R N A A Y A A D A Y A R L T G K P G V C D V T V I G P G A N L L S A G
UniRef90_J2ZRK2 I V A R H E E Q G A A F M A S G I G R L T G K P G V V M T T S G P G V S N L A T G
UniRef90_K2PTX6 W D C A R L E T T A A L M A S D G Y S R A T G Q M A M A I A Q N G P G V T G F V T A
UniRef90_A0A022MG99 V L A L H E G A A V G M A D G Y A R A G R R P A L V Q L H S G V G L G N G I G
UniRef90_UPI000426610E I C H H H E Q A C A M S A D A Y G R L T K N K P A I A L V T A G P G S V N A L N G G
UniRef90_G2KQI9 I T C R H E E G A G F M A E S W G K R L T G G P G I C F V T R G P G V C N A S I A
UniRef90_L8ES40 V Q A R H E E M A A F Q A V G Y A K F S G K V G V C A A T S G P G A I H L L N G G
UniRef90_UPI00047AE398 I P V R H E E A N G A F M A S A I G R L T G K A G V V T M V T S G P G C S N L V T G
UniRef90_UPI0002DCAA76 V V A R H E E Q N A A F M A A G I G R L T G E P G V V A V T S G P G G A S N L A T G
UniRef90_S4DDX1 I V T R H E E Q N A A F M A Q A I G R I T G E P G V V I A T S G P G A S N L A T G
UniRef90_A0A010PFW6 V P T R H E E A A A F A A S A E S Q V T T G E L A V C A G S C G P G N L H L I N G G
UniRef90_A4WN44 I S T R H E E Q V A V S M A D A E G R L T G K P G V A V V H A G P G G N L S L I S
UniRef90_Q1R1A1 V P A R G E A G A V T M A D A H G R Q R G L G V A L T S T G A G A G N A V G A
UniRef90_A0A010Z2J3 V V T H G E K S A A Y M A D G Y A R V S R P G I A M A Q V V G G A L V N L A A G
UniRef90_F5SJ54 I N C R L E T T A A L M A S A E A K L T S G R M A V C T A T S G P G I V H L L N G G
UniRef90_UPI000050FD3B T L A R H V E G A S H M A D G Y T R A A A G N I G I C L I G T S G P A G T D M I T
UniRef90_UPI000467A052 V I C P H H E S V A M A A A L G H A Q V S G V A Q V V L A H V E C G T Q N I G G M
UniRef90_S9T8B7 I G V K H H E S V A A L M A S A E A K L T S G R I G V V C A A Q M G P G L T N L M T G
UniRef90_T2E479 V M A R G E A G A A N M A D A Y A R T S G G L G V C L T S T G T A G N A A G A
UniRef90_UPI000375D180 L S A G H A E G A A H M A D G W A R T T G R A G V A A V A G G P G A V R L L S G
UniRef90_UPI00037C4C35 V G L R V E N N A G F A A D A Y G R V T T G E A A P L L L S A G P G A L T A L P A
UniRef90_I3UFA1 V T C R H E E G G A G F M A A A D A R L T G R P G V A L V S R G P G A M N A A I A
UniRef90_A7SFE8 V G M R N E Q S A C Y A A S A I G Y L T R R P G V C L V V S G P G L L H A L L G
UniRef90_K0DZQ4 I V C A H E A G A Y M A D G Y A R A G R F G V C A T T S G P G G F T N T L T A
UniRef90_UPI000249224D V L T R H E E Q N A A F M A A G I G R I T G H P G V V I T T S G P G A S N L A T G
UniRef90_UPI00042669BA T H F H H E Q G A A I A A E S Y S R Y E N K V A A L C V T S G P G G T N A L T G
UniRef90_B2GCH6 I V T H H E Q N A A F I A G E S I G R L T G K P G V V L T T S G P G V S N L A T G
UniRef90_R9JUH1 I P C H H E Q A A M A A V G Y A K Y N G F G S A F V T T G C G G T N T V T G
UniRef90_I8U203 I D T R H E E V A V Q A A E S Y A K F S K K I G V C F I T A N S G F S N G I P
UniRef90_Q2KX15 V G L R H E E V A A F A A C E S Q V T G E L A V C A G S C G P G N L H L I N G G
UniRef90_Q2T3R6 V S M H H E Q A A A F A A E G V A R R H M G R K V A V G T S G P G A T N L I T G
UniRef90_K9D9U3 I G F R H E E Q N A G N A A I A G Y M T Q R K P G I C L T V S A P G F L N G L T G
UniRef90_G8US82 F L T L Q E S S T V G I A A G Y A M I T R K P A L I N L H N Y V I G L A N A V C A
UniRef90_R7Y715 V E M R H E A A A V N A A D G F A R A S G G L G V A L T S T G T G A G N A A G S
UniRef90_T2BDC4 I N G L H E Q G S A F A A E G Y A R V T T G K S G V V I A T S G P G A T N L I T T
UniRef90_A0A009ZJF1 V A A R G E A G A V T M A D A H A R F K G L G V A L T S T G A G A N A V I G S
UniRef90_G1Y4G1 I H V R H E E A G A M A A G A D A L L T G E L A L C A G S C G P G G L H F I N G
UniRef90_Q6D143 V G C A N E L N A A Y A A D G Y A R C R P A A A L L T T F G V G E L S A I N G
UniRef90_I3ZLJ3 Q M V R H E E V A A F A A G E S Q I S G R I G V C L T V C G S G P G N L H L I N G
UniRef90_UPI000255B635 I L T R H E E Q G A G F M A D G Y A R V S G K P G V C F L I T G P G L T N A A T A
UniRef90_UPI00046388D8 I T Y R Q E N M G A M A D G F A R I S G R I P V I F C Q N T G P A A A I M V A P
UniRef90_F2IWWW4 L V M P H E E A A M G M A H G Y L A T G R T Q A V M A H T N V I G L A N C A I G
UniRef90_M3AL65 I S F R N E Q A A V Y A A T A Y G Y L T G K P G V C I S V G G P G M L H V F A G
UniRef90_K6X9X8 V L A R H V E A S H M A E G Y T R A A P G N I V C T G T S G P G A T D M I T G
UniRef90_UPI00041C3018 V S S R V E N N S A F A A D G Y S R A T G E V G V L F L S T G P A G L T A L A G
UniRef90_Q4ZU15 M H T R H E E V A A F A A G A Q A A S S G K L A V C A G S C G P G N L H L I N G
UniRef90_UPI000476F89E V L T K H E N G A G F M A E G C Y H R T A G P G V L F A T L I G P G M A N A F N V
UniRef90_L0I9K6 V L A R S E A S A A M A D G Y A R A S G L G I V D G V S G P G A A Y L G A G
UniRef90_K5BGZ3 E H V R H E E T A G F A A A D A A I T G Q L A V C A G S C G P G N L H L I N G

UniRef90_S9T4A1
UniRef90_UPI0002E29110
UniRef90_B8HHA4
UniRef90_X7FAR2
UniRef90_UPI0004097959
UniRef90_A0A052JIE1
UniRef90_UPI00036148D5
UniRef90_UPI00031F708A
UniRef90_E6J9I1
UniRef90_W4V0Y0
UniRef90_UPI00034995A8
UniRef90_F7RVP8
UniRef90_F0KEC2
UniRef90_F7YSQ9
UniRef90_UPI0003825693
UniRef90_UPI00047D3783
UniRef90_J4J8E0
UniRef90_W5XYZ0
UniRef90_V6L0I2
UniRef90_UPI00047C89C2
UniRef90_UPI000051034A
UniRef90_C8XAN6
UniRef90_UPI0004657241
UniRef90_H3BDZ5
UniRef90_S3YFP8
UniRef90_L9PDJ3
UniRef90_G4RMH6
UniRef90_UPI000374A3C0
UniRef90_U5DME8
UniRef90_E0VZ99
UniRef90_H5XYU8
UniRef90_V6Z2U6
UniRef90_B0X3H9
UniRef90_UPI000364857D
UniRef90_UPI00047A229B
UniRef90_I0XWC2
UniRef90_A3CWV6
UniRef90_L0A5Z3
UniRef90_E3BDJ8
UniRef90_A0A023X757
UniRef90_M3JTK9
UniRef90_UPI0003B34456
UniRef90_F3A1Y1
UniRef90_UPI000478006F
UniRef90_J2ZRK2
UniRef90_K2PTX6
UniRef90_A0A022MG99
UniRef90_UPI000426610E
UniRef90_G2KQI9
UniRef90_L8ES40
UniRef90_UPI00047AE398
UniRef90_UPI0002DCAA76
UniRef90_S4DDX1
UniRef90_A0A010PFW6
UniRef90_A4WN44
UniRef90_Q1R1A1
UniRef90_A0A010Z2J3
UniRef90_F5SJ54
UniRef90_UPI000050FD3B
UniRef90_UPI000467A052
UniRef90_S9T8B7
UniRef90_T2E479
UniRef90_UPI000375D180
UniRef90_UPI00037C4C35
UniRef90_I3UFA1
UniRef90_A7SFE8
UniRef90_K0DZQ4
UniRef90_UPI000249224D
UniRef90_UPI00042669BA
UniRef90_B2GCH6
UniRef90_R9JUH1
UniRef90_I8U203
UniRef90_Q2KX15
UniRef90_Q2T3R6
UniRef90_K9D9U3
UniRef90_G8US82
UniRef90_R7Y715
UniRef90_T2BDC4
UniRef90_A0A009ZJF1
UniRef90_G1Y4G1
UniRef90_Q6D143
UniRef90_I3ZLJ3
UniRef90_UPI000255B635
UniRef90_UPI00046388D8
UniRef90_F2IWW4
UniRef90_M3AL65
UniRef90_K6X9X8
UniRef90_UPI00041C3018
UniRef90_Q4ZU15
UniRef90_UPI000476F89E
UniRef90_L0I9K6
UniRef90_K5BGZ3

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

UniRef90_S9T4A1 V A F E Y D E S P V P E R V I H S 170 180
UniRef90_UPI0002E29110 V Y N K P A N K P K K Q L L D E E M K S
UniRef90_B8HHA4 V Q M A E I E F D E P L P V E K P K A S
UniRef90_X7FAR2 V A D A P A E A R P
UniRef90_UPI0004097959 V Q Q T E I D P D S Y E P L Q
UniRef90_A0A052JIE1 I Q Q Q E A A Q P A W R A V P H A A S
UniRef90_UPI00036148D5 I Q R T I I E R P S E
UniRef90_UPI00031F708A V Q L A E I D I D T Y E P M T P H K P A
UniRef90_E6J911 V Q N A P A P E L G E D L D Q E H
UniRef90_W4V0Y0 I L K N S I D E E E V N W P E
UniRef90_UPI00034995A8 V Q E A D Y S P P T H D F L Q V P S
UniRef90_F7RVP8 I
UniRef90_F0KEC2 V Y D K P I N K P L K P L L D Y T I S S
UniRef90_F7YSQ9 V L
UniRef90_UPI0003825693 V A L Q E A
UniRef90_UPI00047D3783 F S S Q M I G G S P L P V
UniRef90_J4J8E0 V Q Q A A V P Q P
UniRef90_W5XYZ0 I L L E
UniRef90_V6L0I2 V Q Q A P A E
UniRef90_UPI00047C89C2 L Q Q A L I P M P L D L S P L P I P
UniRef90_UPI000051034A
UniRef90_C8XAN6 V L E Q P W T G D P V V A A P S A P A
UniRef90_UPI0004657241 M L S D P V D G A L P A P V
UniRef90_H3BDZ5 I L Y P Y H V V E K E L T S
UniRef90_S3IYP8 I S D G P A
UniRef90_L9PDJ3 V S R E N A A D E P P F A V H
UniRef90_G4RMH6 I Q
UniRef90_UPI000374A3C0 V A G L E A S A E P V P E H V Y H V T
UniRef90_U5DME8 I T D A P
UniRef90_E0VZ99 L L Q Q
UniRef90_H5XYU8 V Q
UniRef90_V6Z2U6 V T D S K V S V K A I K P L
UniRef90_B0X3H9 L L L A R V P E E K V P
UniRef90_UPI000364857D L W E E A P P P
UniRef90_UPI00047A229B I Q Q A P A P Q T P H E
UniRef90_I0XWC2 I Q
UniRef90_A3CWV6 I Q R E A L E P A
UniRef90_L0A5Z3 V Q E E D A V E T P P R
UniRef90_E3BDJ8 V L L A K T E L P I R
UniRef90_A0A023X757 V L R E T V S P A
UniRef90_M3JTK9 V A L K Q A P E G A K Q T P P R M V P S
UniRef90_UPI0003B34456 I I F N P A D V E A L E I Y Y S R P E S
UniRef90_F3A1Y1 V I N E K T S V K A I K R L R E P V
UniRef90_UPI000478006F I F D A E W D E D V L K P V
UniRef90_J2ZRK2 V V D S K I T E R P A V M P L Q
UniRef90_K2PTX6 F W T Q V I D I E L P Q I V R L E R P S
UniRef90_A0A022MG99 I M D E L T S E P A V P P D T R S V P A
UniRef90_UPI000426610E I Q R A E V
UniRef90_G2KQI9 M L S E
UniRef90_L8ES40 V Q E L E Y S A P T H E F K M V P S
UniRef90_UPI00047AE398 I V N D P
UniRef90_UPI0002DCAA76 V D D A E V T S P A L E P L Q A P V
UniRef90_S4DDX1 V V D A P V K G E V I K P L S
UniRef90_A0A010PFW6 V A L A D V Q A E A E P M L S R V I P A
UniRef90_A4WN44 V W S M S S E T A P C R F N V R P P P
UniRef90_Q1R1A1 L Q G A T I E S Q T L
UniRef90_A0A010Z2J3 E G Q L D A E P T D V E P L
UniRef90_F5SJ54 V W M D G V H G E L Y P P P L S R T A
UniRef90_UPI000050FD3B V Q Q T E I D F D
UniRef90_UPI000467A052 V M E A E A P P Q R A D P A Q
UniRef90_S9T8B7 L W T L P C G A K P R E P I Q
UniRef90_T2E479 I Q S A P A D L S P L P V P V A R P S
UniRef90_UPI000375D180 L A A A E I E Y G P R P V A P
UniRef90_UPI0003C74C35 V L A A P T D V P P H E L V P R P
UniRef90_I3UFA1 M L E D M V D T E
UniRef90_A7SFE8 M V N E E V Q A C K A K V F S Q
UniRef90_K0DZQ4 V Q E A D I T G E W A R L P S
UniRef90_UPI000249224D V T D S E V K T D V L A P I P S P I
UniRef90_UPI00042669BA F Q N T D V D V A L L R G Y D P E
UniRef90_B2GCH6 V T D G E V T S A P L A P R E
UniRef90_R9JUH1 I Q Q A E L E G I A Q R H F P
UniRef90_I8U203 V L E T P V
UniRef90_Q2KX15 V A L R A S P V K A V T P
UniRef90_Q2T3R6 V Q R A E T P
UniRef90_K9D9U3 L L A Q T I E V K V V D P V P R Q I P A
UniRef90_G8US82 I W Q E E T Q E T T
UniRef90_R7Y715 L Q Y L J A A P E A Q R P A P S V T V S T
UniRef90_T2BDC4 I Q R S E F D F D
UniRef90_A0A009ZJF1 V Q A A E I D L P
UniRef90_G1Y4G1 V S S A D A P E E P S F T A H R
UniRef90_Q6D143 V A A A P V G A R P Y P L V
UniRef90_I3ZLJ3 I L T K L A S S P A
UniRef90_UPI000255B635 V L A A P V A Y D
UniRef90_UPI00046388D8 L Q R A K A
UniRef90_F2IWWW4 V L C E P C
UniRef90_M3AL65 L I L G T F D V E R N K L P
UniRef90_K6X9X8 V Q L T E I D F D
UniRef90_UPI00041C3018 V L L D P I E D A L A E P F D N P P R
UniRef90_Q4ZU15 V A L S D A P D V A A K W I E
UniRef90_UPI000476F89E L A A
UniRef90_L0I9K6 V V R A A T D R E P R D D L D A T F P S
UniRef90_K5BGZ3 I F S E R A

UniRef90_UPI00040EBCB7 1 S E A L V I E S M I G H G I L Q Y V F G L P G A K V D Q L F E T L Q Y C P R 40
UniRef90_I7KHT5 N G S D A M L K V L Y D W G L D H I Y G G F P G G D S S M N A I Y D F R D K M K F F
UniRef90_UPI00039C7E7E T V A E L V G R A L A K L G A V R D T L F G G V V Q G G A I M E V N A V R E S D E T V R F
UniRef90_U1QVX6 K V A E Q L V D T L T E A G V V D R D T L F Y A V T G D S A I M E V N A V R E S D E T V R F
UniRef90_R5RA55 T V A H A I V R A L A R H G D V T M F F G G Q S L P S L V L H L A A A Q K A G M R Q Y
UniRef90_F4LDK9 S G A E V I A Q A L K N Q D V A Y M F G G I V G A I P V T E I L A A A Q K L G I G T R Y
UniRef90_G1LQN9 V G Q Y L M D C L S N V G V V D K V F F G V P G G D F N L T F L D D T R D D L E W
UniRef90_UPI0003455212 G G E L V A A V L K A H N I N E I F T F L C G G H I S P I L V A A Q K N G I R V
UniRef90_J0XFY9 T V G Q Y L F D C L K L E G I T E I F T F V A G G D A I L P W L D V I Q K D I R Y R
UniRef90_C3A6P2 V A Q Y V T E Q L R M W G V K H I Y F G V A G G D A I L P W L D V I Q K D I R Y R
UniRef90_M8DJL0 T V G H S I G R M L R H G I H E F F G L P Q G S L S L P F E E L A G I R Q
UniRef90_E5Y911 T P S E A F V E T M V A N G V T E F F G I M G S A F M D A M D I F P A G I R L R
UniRef90_UPI0003B79402 N V S D L V V I E T L Q Q A G V V R R V Y F G L V G G D S L N G I T E A I R A R L D W
UniRef90_C5AZI3 G G E A I L E A C R N L G V D D T I F S S P P G S E W A P V V E A L R A R Q P R Y R
UniRef90_D3CYF6 N G G A V I E T L A V N G V T D V I F G I P G G T H N L E V Y R H L R S D I E R A
UniRef90_X5L9N1 T V L E R L M E R L K Q I G I T D V F G V P G G D S F F A L N D A V L R N D I E R W
UniRef90_G7Q4C3 K V A E V F V D T L V Q A G V T R V V F G V V G G D S L N G I L T N T I R Q N I E W
UniRef90_G8P1U0 G G E L V A Q D T L K L H N V K Y V F T L V G G S H I S P I L V A C E K I R V
UniRef90_U4A0X9 T A G G A V F G K L K A L G V D Y V F A N S G T D F P P I I E G L I E A P V P
UniRef90_U7FRV1 G G D L V V K S L K E G V T K I F T L V G G E L L R I Y D A I E R Y I D T
UniRef90_X1D3D3 G G E L V A E T L K A H G V E F I F T L I G G S I L S P I L V A S E K G I R V
UniRef90_F6SE92 N V A E Q F V D I L V R A G V V R R L Y G V V G D S L N P V V D A I R R T L D W
UniRef90_UPI0002FEB001 T V A E Q F V E V L R Q A G V E R V Y G V V G D S L N G L V D A I R R T L E W
UniRef90_D2BAW2 T I A Q H I V E T L K D S G V E R V W G V A G D S L N G L V D A I R R T I K W
UniRef90_W2BQD4 T A V L D Y L V S G N V S K I F G I P A G S V N A F F D E L Y R D T I T P
UniRef90_I0JHI3 T V A R N V I T A L V D A G V R R I Y G I V G D S L N P V V D A I R R T I D W
UniRef90_UPI0004663ABF T V A R N V I T A L V D A G V R R I Y G I V G D S L N P V V D A I R R T I D W
UniRef90_N9UNG2 T V N Q T I V K A L E D I G V S R Y V F G G S G G Q V N A S M L L A L R D K I K T
UniRef90_F0R1U0 V A D L V L D V L V K S G V K R V Y G V S G D S L N G I T D S I R T R I E W
UniRef90_UPI000376C6F0 T A G K A A M S V L K E W N I D H I F G M P G D S L N H F M D N L R D E L E F
UniRef90_D5DBL0 V A D Y I T K Q L Q N F G I D T V F L V P G G G A M Y L D D A V A S S M R Y
UniRef90_M1SLG9 T V G D A I A R T L E Q V Q V E A I Y G V I S I H N L P A D A D V E Y G N V R E
UniRef90_G8LDE4 G G H L V A R T H L K E E G I D T V F G L V S G H I D R Y D G L E Y G V R L
UniRef90_B8FDQ9 D A I T G Y L Q S A G V E H L F G L P S D D L N I V A S L P S S G M D F
UniRef90_W8TBZ1 K V S D R I V E L Q D A G V E R C Y G I V G D T L N H L T N S A K H I E W
UniRef90_V2TQE2 K V Y E R I L Q L F E A E G I K T I F G I P D P N F V H M F H A Q E R G T V
UniRef90_UPI0003716A03 T V A E Q F V T V L R Q A G V E R I Y G V V G D S L N P V D A V R R T I D W
UniRef90_D3F2F9 T V W A T A R Y L A D L G V D T M F G L I G D A N L F M A D S F D C G G H Y
UniRef90_UPI00046608A9 T V A E Q F V T V L R Q A G V E R I Y G V V G D S L N P V D A V R R T I D W
UniRef90_W4LE20 D A I T G Y L Q S A G V E H L F G L P S D D L N I V A S L P S S G M D F
UniRef90_UPI000371D7A8 T T A Q T L V A S L A G H G V D R V F C V A G E S Y L P V L D A L H D S I D V
UniRef90_UPI00035D15A7 N G A D V L C D V L J A N D V N L I C F A N P G T S E M H F V A A L D R R Q S E W
UniRef90_Q4JWD0 A S Q L V K T L E K Q G V K R I F G L V G D S L N P I V D E V R Q S I E W
UniRef90_Q216P2 N G A H S V V Q T L V N C G V E V C F A N P G T S E M H F V A A L D A V M E R P
UniRef90_A0A059MPJ6 V V D Y L V D A V A A L G V R N I F G V D G A N I E D P L Y D A V D V D V T G
UniRef90_UPI000467CAF3 T A G A L V T R L K A L G V K Q V F G V G S G N F R V T N A L A S G A T F
UniRef90_W0Z844 V A D A L G R M L A E L G V K Q V F G V G S G N F R V T N A L A S G A T F
UniRef90_UPI00035D2790 V A D Y V A N F L S S L G V K Q V F L V T G G G A M F L N D A K H E K L N P
UniRef90_J2H1Z5 T V A E L L V A T L D Q L G A H Q D V F G V G D A L N P F T D A I R R Q V W
UniRef90_A2RNJ4 N A A D A M L K V I E D W G V K N I Y G L P G G S I D S T M N A L Y N R L N Y W
UniRef90_A4WD07 V A D Y L L D R L S Q C G I G H I F G V P G G D Y N L Q F L D H V P S P E I D W
UniRef90_UPI0003B71C38 T I A D Q L V A Q L D A G V D H I Y G I V G D S L N P I V D A V R R S I D W
UniRef90_X2NM52 T V A D Y L L D R L A G C G I G H I F G V P G G D Y N L Q F L D H V H P T L R W
UniRef90_H8L738 T V A D Y L L D R L A G C G I G H I F G V P G G D Y N L Q F L D H V H P T L R W
UniRef90_UPI000400DB48 T V G Q F L F D C L K E W G I D T E I F G V A G D Y N F S L L D T L E R Y I Q F
UniRef90_X7TCT7 H L V V I Q A L R A N D V A T I Y G I V G I P I T D L A R A Q A S G I R Y
UniRef90_M0AFZ4 V T H A I A T L L K A E G V E Y L F G F P S N P L L D T G A A E D A G I R T
UniRef90_G7GX6 Y L L S S L V A E G V D H V F L V P G G L V D P F L P D L A A T P G L
UniRef90_UPI0003807A43 N G A E T L V D T L T G Q G V D I C F A N P G T S E M H F L K A L E N P M R S
UniRef90_B1LSV3 K V A D L F V R A L A Q A G V K R I Y G V V G D S L N G L T E A L R Q D T A W
UniRef90_UPI0002EA3D82 V G E Y L M D C L S E A G V N K I V F G V P G G D F N L A F L D D I H H P E V R F
UniRef90_UPI000348C7AB N G G D V A V I E T L T A L G A H T A F G I P G Q H A L G L F D A L H P E V R F
UniRef90_W9CRE3 T A S Y A F F E A I V E A G V S H C L F V N L G S D N H P S L E A I N K G P E V
UniRef90_R0J0E3 T L G R Y M F E A I H Q I G V D T I F G V P G G D F N L Q F L D Y I L H V L K W
UniRef90_UPI0003B406AE T T A T A F L E A L V E Q G I T H A F V N L G S D H P G L V E A L A E V P T I
UniRef90_R4K1V4 T G A A L L I D A L Q A N G L N N M Y G V V G I P V T D F A R A Q L K G M K Y
UniRef90_Q5YN72 V A D Q L V H T L A H L G V R H V F G V D G A N I E D L Y D A L Y D S P V T
UniRef90_A9HQ39 S G A E S L L H T L V A C G V D T C F A N P G T S E M H F V A A L D P A M R P
UniRef90_C6ZDG0 E A L V K A L Q A W D I D H L Y G V P G G S I T D A V V D S L R D N I E F
UniRef90_N1ZR42 T G A D L L I Q A L Q E N G I N K M Y G V V G I P V T D F A R A Q L R G M K Y
UniRef90_J5RIJ3 A E Y I V E R L K Q A G V K Q V F G V P G G D Y N L I E F L D Y F E R R D L E W
UniRef90_W5XW10 T Y A D Q L V D T L E V Q G V K R I Y G L V G D S L N P I V D A V R R R K I E W
UniRef90_UPI000370FCDD T I A D S V V E T L V K A G V K R I F G I T G D S L N A I I D A V R R R K I E W
UniRef90_U3A8K3 L A H A L A A R G V E V F G I P G V H N Q E I Y R G L D E G L R H
UniRef90_T0LMR5 K G S D A I L L E L L K E Y S V H V F G L V G E T S F P L Y E S W Y S E V N H
UniRef90_L8GZ11 G A A V V A R T L K A L E V T D V F G V V G R P V T N I M M A Q A E G I H F
UniRef90_K6WKH0 T G G Q L V A R T L S S F G V T D I F G V H G G H L D S F L V I C D E G M R I
UniRef90_UPI0002EF2EBE T V A A F I A K T A L E Q A G V K R I Y W G V T G D S L N G L T D A L R Q M I E W
UniRef90_V4RUG6 H L I D A L E K N G V E T I Y N V P G I P I T D L S G R A Q N Q G L R V
UniRef90_K6WHJ9 T V A E R I V E E L E R S G V Q R V Y G L P G G D S L N G L T D A L R T T I T W
UniRef90_UPI0003702B8F T V A D H I V A T L K A S G V H R V Y G V P G G D S L N G L T D A L R R D V L A W
UniRef90_D8FMB3 K G A N A V L D V M Y K W G I D H L Y G F P G G S F M N A L Y E M Q D K F
UniRef90_M1PWP6 V T E A I A D I L V I E G V E Y L F G F P S N P L F D T G V L A E K G I R K
UniRef90_UPI00036ADD65 S A S S I L I N S L L N N N I E F I F G Y P G G A V L H I Y D A L F S S G I K H
UniRef90_S5RL14 A P H I F D I L Y K Q G V Q H A F G I P G G D F A L T L F D A L A S P L T P
UniRef90_K9QMN3 M L E A L W D A G V R Y I F A N L G S D H P A I M E A I A R D R F P K I
UniRef90_F2PJU3 S T A H Y F L E A L V D L G I D Y I F A N L G T D H V A S I L E E I A R W P E V
UniRef90_H0TNT1 T I G H Y L A V R L A Q A G V K H H F V V P G G D Y N L G L L D K L Q Y N N Y L
UniRef90_Q9P7P6 T I G G D V L V S V M R R H G I D T A F G V S I H N L P L V E A V A R D L N F
UniRef90_A0A059MIA4 A T V Q L V I D S L J A A G V K Y V F G V P G A K I D S V L F A N H P E I K L
UniRef90_R8BJE7 T V I Q Y L L N R L K Q L G I R D I F G V P G G D Y A F P I N N A L C D D L R W
UniRef90_Q8TT45

UniRef90_UPI00040EBCB7 I V T R H E Q D A A L M A A A V G R L T T G T P A V V A A T S G P G G A S N L A T N G
UniRef90_I7KHT5 I E V R H E E A G S L A A S A Y E Y R K L T T G T K L G V C F G S A G P G G A T N A V L F T N G
UniRef90_UPI00039C7E7E T A T R H E E G Q A A T M A D D A Y A R Q L M S D T V A L V S V H Q G C G G A T N A V L T G
UniRef90_U1QVX6 T T M A H H E E Q A A A H A M A D D A Y A R Q V L T T G G E P G V C L A T S G P G G A T N A V L T G
UniRef90_R5RA55 I H V R H E E T G A Y A A D G A Y A R Q V L T T G G L P G C C A G S S G P G G H V H L I A N G
UniRef90_F4LDK9 V A Y R T E N A G A M A S A D A Y A R V L T T G K P A I V T A Q N G S P G A A T L L V A P
UniRef90_G1LQN9 I G M R N E Q A A C Y A A D A G Y A R L K G I A A M V T T F G V G G E L S A V L T N G
UniRef90_UPI0003455212 V G N T N E L N A S Y A A D D G Y A R L K G I A A M V T T F G V G G E L S A V L T N G
UniRef90_J0XFY9 Y D T R H E V L N A V F A A D D A V A R L R Q Q S V G V A V V T A G V G G E L S A V L T N G
UniRef90_C3A6P2 I E G R N E L N S G Y A A D D G Y A R L K G I S A L I T T F G V G G E L S A C T N A
UniRef90_M8DJL0 I A C R H E S A A A M M A A A E A K W T T G R P A V C T A T S G P G G T L N L N G
UniRef90_E5Y911 I A Y R T E N G G G Y M A D D G Y A R V S S K R P G V M I A Q N G P G A A T L V V A P
UniRef90_UPI0003B79402 I P V V H E E Q G A G H M A D D G F A R V S S K R H G V C L A Q N G P G G I T N F V T A
UniRef90_C5AZI3 V H V R H E E V A A F A A A G E S Q V T T G E L A V C A G S C G P G G N L H L I N G
UniRef90_D3CYF6 L D L R H E E T L A V A M A T G Y G L V T T G R P Q M V L L H A V P G G L T Q G A C
UniRef90_X5L9N1 V T P R H E E Q G A G Y A A D A Y A R V T T G R P G V V V A T S G P G G L T N A M T A
UniRef90_G7Q4C3 V G C C N E L N A A Y A A D G Y A R I K G R A A L C T T Y G V G G E L S A L C G
UniRef90_G8P1U0 L H V R N E E A G A F A A D G A E A H V T T G S K L A V C A G S C G P G G N M H L I N G
UniRef90_V4A0X9 I D T R H E E V T A A F A A D A V A R L R M S T G S V G V C A G S T A G P G G I T N T V T A
UniRef90_U7FRV1 I T V P H E E H V A V G M A H G F Y Q I S G R I Q S V M L H T N V G L T N G I T G
UniRef90_X1D3D3 V M V R H E E Q A A G H M A D D A V A R A T S G G L G V C L G T A G P G G I T N T V T A
UniRef90_F6SE92 V D T R H E E V T A V F A A D A V A R L S T G K I G V A A V T A G P G G I T N T V T A
UniRef90_UPI0002FEB001 V Q V R H E E V A A F A A A G A E A Q I T T G G L A A C A G S C G P G G N L H L I N G
UniRef90_D2BAW2 V H V R N E E A G A F A A A E A A Q L T T G R L A V C A G S C C G P G G N T H L I Q G
UniRef90_W2BQD4 V P V R H E E A G A F A A S A E A A T T G E L A V T V G S C C G P G G N L H L I N G
UniRef90_I0JHI3 I T A K H E E G A A A Y M A A S Y A K Y S Q Q S L A G V C I G S S G P G G G T N L V T G
UniRef90_UPI0004663ABF I H V R H E E A A A F A A S A D A Q L T T G E L A V C A G S C G P G G N L H L I N G
UniRef90_N9UNG2 V L A S H E E G A G F M A D V C G R L T T G V P G V C A G T F G P G G A T N L A T G
UniRef90_F0R1U0 V I R N E E Q A A S F M A C G Y T M F N P N N G V C F A T G G P G G A F N L F S G
UniRef90_UPI000376C6F0 V H V R H E E A A A F A A A G A E A H L T T G K L A V C A G S C G P G G I H L I N G
UniRef90_D5DBL0 L Q V R H E E V G A L A A S S Y A K I L T T G K I G V C L S I G G P G G A I H L L N G
UniRef90_M1SLG9 T A C L H E E Q A T G I S A E A Y G R Y H P C G G V A I V T S G P G G S T N V I T P
UniRef90_G8LDE4 V P A R G H E A G S V T M A D A H G R F S G L G V A L T S T G A G A G N A V L T G A
UniRef90_B8FDQ9 I D V R H E E Q A A M A H A W S I F S G K P G I C I A T A G P G G A F T N T V T G
UniRef90_W8TBZ1 I L C K D Q R N A V F M A A G Y A L T T N Q M S V C V V G K G P A L S N T L T G
UniRef90_V2TQE2 I H V R H E E V G G F A A G A D S L M T G K L T A C A G S C G P G G A N L H L I N G
UniRef90_UPI0003716A03 V S P H H E E S A G F M A E A V S R M T S G K A A L A I G T L G P G G V A N L A G A
UniRef90_D3F2F9 V H V H N E E A G A F A A G A E A Q L T T G R L A V C A G S S G P G G N L H L I Q G
UniRef90_UPI00046608A9 V S A S A H E C G A V L M A L G Y A Q V T G K V G V A M T V T H G P G G L T N T A
UniRef90_W4LE20 I I C R Q H E R V G V G I G D G Y A R V T N G R P P F A M Q Y G P G G A E N A Y A G
UniRef90_UPI000371D7A8 V T C R H E E G S A A F M A V A D A K L T T G R A G V C L V S R G P G G A N A A V A
UniRef90_UPI00035D15A7 V L G L F E E G V V T G A A D G Y A R M T N R P A L T L L H T H G P G G L A N G L A N
UniRef90_Q4JWD0 I H V R N E E V A A F A A G A E S L V T T G D L A V C A A S C G P G G N T H L I Q G
UniRef90_Q216P2 V L C L F E E G V A T G A A D G Y G R I A G K P A A T L L H L I G P G G L A N G L A N
UniRef90_A0A059MPJ6 V V A K H E F S A A T M A D D G Y A R S S G L G V V A A T S G G G A M N L V A G
UniRef90_UPI000467CAF3 I V M P H H E H A A M G M A H G Y Y F A T S G K A Q A V I L H T N V G L A N G S I G
UniRef90_W0Z844 V A A R H E E A G A A S M A D A Y S R I T T G D V S A L S L H Q G C G G L T N A L T G
UniRef90_UPI00035D2790 I C N H H E E Q A S A M A A V A Y A K Y N T N S Y S V A M T T S G C C G A T N A V T G
UniRef90_J2H1Z5 I G V R H E E G A A L A A A G Q A K I T T G R L G V C C G T T S G P G G A N L V A G
UniRef90_A2RNJ4 I Q V R H E E V G A L A A V G E A K V T T G E I G V T F G S A G P G G A V H L L N G
UniRef90_A4WD07 V G C A N E L N A S Y A A D G Y A R C Q G F A A L L T T F G V G G E L S A M N G
UniRef90_UPI0003B71C38 I H V R H E E S A A F M A A E A Q L T T G K L A V C A G S C G P G G N L H L I N G
UniRef90_X2NM52 V G C A N E L N A A Y A A D G Y A R M S G A G A L L T T F G V G G E L S A I N G
UniRef90_H8L738 I Q V R H E E V G A L A A A A D A K L T T G K V G A V F G S A G P G G A T H L I N G
UniRef90_UPI000400DB48 I E G R N E L N A G Y A S D G Y A R I K G I S A L I T T F G V G G E L N A C N P
UniRef90_X7TCT7 L G F R Q E A S A G N A A A A G F L T R R P G V C L T T S G P G G F L N A L P A
UniRef90_M0AFZ4 I V T R Q E R T A V H M A D A G R L S D E I V A F A C Q H G P G G T E N S F G G
UniRef90_G7Q8X6 I V A A H E S G A A M A D D G Y A R A S S G R F G A C L A I G G P G G A T N L A T V
UniRef90_UPI0003807A43 V L C L F E E G V C T G A A D G Y Y R M K G T P A S T L L H L I G P G G L A N G L A N
UniRef90_B1LSV3 I H T R N E E S A A F A A G A E A H L T T G A L A V C A G S C G P G G N L H L I N G
UniRef90_UPI0002EA3D82 V G N T N E L N A S Y A A D G Y A R L N G I A A M V T T F G V G G E L S A V N G
UniRef90_UPI000348C7AB V S S R V D N N A A F A A D G H A R L T T G E V T P L L V S T G P G G A L L T L A S
UniRef90_W9CRE3 L T C P N E M V A L S M A D D G Y A R L T T G K P Q C C V I V H V D V G T Q G L G A A
UniRef90_R0J0E3 T G N Q N E L N A A Y A A D G Y A R I K N I P G C C L V T T H G V G G E L S A L N G
UniRef90_UPI0003B406AE V T C P N E M V A L T I A H G H T Q I S G Q P Q A V I I H V I E C G T Q A L A G A
UniRef90_R4K1V4 Y G F R R E D S A V D A A A G A G F L T T G K P G V A L T V S A P G G F L N G L T A
UniRef90_Q5YN72 V I A K H E F S A A T M A D D G Y A R A T T G F G V V A A T S G G G A M N L V A G
UniRef90_A9HQ39 V L C L F E E G V A T G A A D G Y A R M A G K P A S T L L H L I G P G G L A N G L A G
UniRef90_C6ZDG0 V H V R H E E D A A S L A A A G Y T K L T T G K I G V A L S I G G P G G V I H L L N G
UniRef90_N1ZR42 Y G F R R E E D A A V D A A A A G Y L R Q K P G V A L T V S A P G G F L N G L T A
UniRef90_J5RIJ3 V G N A N E L N A A Y A A D G Y A R I K N N L A V L V T T F G V G G E L S A L C G
UniRef90_W5XW10 I H V H N E E A A A F A A G A E S L L T T G E L A V C A G S C G P G G N T H L I Q G
UniRef90_UPI000370FCDD I H V R H E E V A A F A A G A E A E L N G T L A V C A G S S G P G G N L H L I N G
UniRef90_U3A8K3 V L A R H E E Q G A G F M A D D G Y A R A T T G W P G V A C V I S G P G G L C N L M T P
UniRef90_T0LMR5 V L A R D E R N V A I M A D D G Y S R A G N R P G I C E V P G V G G A S Y A L P G
UniRef90_L8GZ11 W S F R N E Q A A S Y A A G A G Y A M T G R P A V C L A V S G P G G V V H A L A G
UniRef90_K6WVKH0 I D H R H E E A A A G N A A E G Y A R A T T G G L G V A F A T S G P G G F A N A F S S
UniRef90_UPI0002EF2EBE M P T R H E E V A A F A A G A Q A Q L T T G E L A V C A G S C G P G G N L H L I N G
UniRef90_V4RUG6 L S F R H E E H A G Y A A A A G F L T T K K P G I C A I C A G S A P G G N L N G L T A
UniRef90_K6WHJ9 Q H V R H E E A A A F A A S A E A A L A G E L A V C V G S C G P G G N L H L I N G
UniRef90_UPI0003702B8F Q H V R H E E A A A F A A A G E A A T T G R L A V C A A S C G P G G N L H L I N G
UniRef90_D8FMB3 I E V R H E E A G A L A A S A E Y A K L T T G K L G V C A M S A G P G G A I H L M N G
UniRef90_M1PWP6 I T V R Q E R T G A H M A D A L S R V T S G N A V G V F A C Q H G P E N S F G G
UniRef90_UPI00036ADD65 I L V R H E E Q A A T M A D D G Y A R A T T G K A G V V M V T S G P G G A T N A I T G
UniRef90_S5RL14 I L V R H E E Q A A A H M A D D G Y A R S N K I G V V L V T S G P G G F T N C I T S
UniRef90_K9QMN3 I V M T H E P C V G F A A D A Y S R I R G L G L A V V T Y S V G G L N M V N A
UniRef90_F2PJU3 I T C P H E M V A M S M A D D G Y A R V S S G P C V L T H V D V G T Q G L G P A
UniRef90_H0TNT1 I L C P H E V V A V H M A D G Y A I A T T G R G Q A V L V H V D A G T A N A C M A
UniRef90_Q9P7P6 V N C A N E L N C A F A A E G Y A R A N G I A A C V T Y S V G A F T A F D G
UniRef90_A0A059MIA4 I E V R H E E A A A V N A A D G Y A R A S G R I G V A L T S T G T G A G N A A G S
UniRef90_R8BJE7 V V T R H E E Q A A F I A A S I G K I T G R P G V C L A T S T G P G G S N L V T G
UniRef90_Q8TT45 L G C C N E L N A A Y A A D G Y A R I N G M S A L S T T F G V G G E L S A L C G

UniRef90_UPI00040EBCB7 L V T A T A E G D P V I A I A G Q V P R G D L S R L T H Q S D S R S M M A P
UniRef90_I7KHT5 L Y D A K Y D K T P M V A I V A N V P T S R Q D L D F F Q A S F D E D S K W F L D
UniRef90_UPI00039C7E7E L G E A D K S R T P M L V L A A E S A P A P V P T D L V G R D A F N F Q E T D D Q T S G L V A T D S
UniRef90_U1QVX6 L A D A D M S D P V V V A L A T A G Q V P T G E F G R T E A F F Q E T N T I K L F T N D P
UniRef90_R5RA55 L Y D A H R S G A P V I A L A T S T V I P T G E F G R T E A F F Q E T N T I K L F T N D P
UniRef90_F4LDK9 L A E A M K V S P V I A L A T S T V I P T G E F G R T E A F F Q E T N T I K L F T N D P
UniRef90_G1LQN9 M A N A N M N C W P V L L V I G G S S E R R Q E T Q E T R N A G A F Q E F P Q V L E A C R L
UniRef90_UPI0003455212 I A G S Y A E R V P V I Q I T G A P T R A V E Q A R G K Y V H H S L G E G R F D D
UniRef90_J0XFY9 V K N A Q M A E T A V L I I V G A A P V H L S K N R G A L Q D D Q T S L M R Y E
UniRef90_C3A6P2 I A G A N S E H V P I I H I V G A P P H K L M H H T L M D G N F D V F R K V Y P E
UniRef90_M8DJL0 L A D A Y A D H A P V L V A I T G Q V E T H K L G G P Y K Q Y V P Q E D L L R L P
UniRef90_E5Y911 L A E A L K S S I P L V V M L Q E L P L K N E D D R N A F Q E F H V L F F S A T
UniRef90_UPI0003B79402 I A A A Y W A H S P V V V C I T P E T G A G T T G L N G G F E A E Q L P F F E T
UniRef90_C5AZI3 L F D A H R T R T P V L V A I A A H I P S S E I G L N Y F Q A T R P E E L F R D
UniRef90_D3CYF6 L H G A L L A N V G M V V C S S S E I T Y G E T D P G S Q W Y R N A V A A P
UniRef90_X5L9N1 A A T A Y A E S Q P M L V L S S S G M P T G A E G R D Q L H H A K N V S G A M N E
UniRef90_G7Q4C3 V A G A Y T E H L P V I H L V G M P G V S T Q R A R R L V H H T L G T G E F D A
UniRef90_G8P1U0 L Y D C H R S R V P V L A I A A Q V A P S Q E I G S G A F Q E T H P E H L F K P
UniRef90_V4A0X9 I K N A Q M A E S P L L L A G G A A T L L K G R G A L Q D F D Q M S L F K D
UniRef90_U7FRV1 A I N A W C D Q V P V L M M S G R T P V M E A G R F W G Q E M F D Q T A L I R E P
UniRef90_X1D3D3 V V T A W A D S I P L L V T G A Q A A R M F D D T G I L Q G G L D Q M K L M E P
UniRef90_F6SE92 V K N A Q M A E S P L L L M G G A A A S L K G R G A L Q D F D Q M K L M E P
UniRef90_UPI0002FEB001 L Y D A H R S M A P V L A L A S H I P S S E I G L G Y F Q E T H P D Q L F R E D
UniRef90_D2BAW2 L Y D A H R S G A P V L A L A S H I P S S A Q I G T G F Y F Q E T H P D R Q F
UniRef90_W2BQD4 L Y D A N R S R V P V L A I A A H I P H D E I G G S Y F Q E T H P E I F Q E S
UniRef90_I0JHI3 A A N A M R E H L P V L F L T G A V P V N T V G L N A S Q E L H A D P L Y Q S E
UniRef90_UPI0004663ABF L Y D G A H R A R S R V L A I A S H I P S T E I G Q Q Y Q E T H P D R L F V E
UniRef90_N9UNG2 V G G A T L D R G S P M L A I T D E M P A P L R G R T V Q M G T H Q A L F A P
UniRef90_F0R1U0 M A V A L S D S I P I L A I T G Y T S M G Q R G K G A L N E S P D S Q V M F A P
UniRef90_UPI000376C6F0 L Y D C H R S R V P V L A I A A Q V P S N E I G S G Y F Q E T N P E H L F A Q D
UniRef90_D5DBL0 L Y D A K A D G A P V L V A I A G Q V P R A K L G N E S F Q E V N L E R V F D D
UniRef90_M1SLG9 V A G A Y I E S N P L L V I S G Q V K R S D L N R Q S G V Q E V D T M S M V K N
UniRef90_G8LDE4 L V E A M N A C T P L L H I S G A T V E K A W L D A D T G F I H R D Q L T A M V R P
UniRef90_B8FDQ9 L V N A A L E N A P L L V L I S G A T A V R D W Q K G A L Q E M E Q T A M V R P
UniRef90_W8TBZ1 L L E A K N L G A P V L L L A L G T G G D K L G T R S F Q E A D Q I S L V K P
UniRef90_V2TQE2 L Y E S H R N R A P V V L A S Q L S T D T A G F V D F P Q Y V D Q F K S V Y K P
UniRef90_UPI0003716A03 M M C A K V E N S P V I F L A G G Q R A R E Q R V R R G R I Q F V V Q A D L F A P
UniRef90_D3F2F9 L F D A H R S G A P V L A L A S H I P S A Q V G T L F F Q E T H P E R L F Q E
UniRef90_UPI00046608A9 L V E G V K A N T P M V L A G D T P V T D K D N F Q N V P Q R S M H V L A T G A S
UniRef90_W4LE20 V A T S F S D A V P L L L P L G H P R D R E G V Y P L F S S M K S F D
UniRef90_UPI000371D7A8 V H A A E D G T P L L L V G G V A E A E I D Q E V F Q S L D S G R F F G G
UniRef90_UPI00035D15A7 L H N A R R A R V P M I N V V G D H A S Y H L P L D A P L T A D L E C L A A P E
UniRef90_Q4JWD0 L Y D S H R N G A K L V A I A S H I P S V Q I G S Q F F Q E T H P E Q I L F O E
UniRef90_Q216P2 L H N A R R A A S P I V N V V G D H A T Y H L Q Y D A L L T S D I A G F A R P
UniRef90_A0A059MPJ6 L A E S Y T S R V P L L A L V G Q P P T T L E G G G A F Q Q D S D A A R L F F R E
UniRef90_UPI000467CAF3 A I N A A V D Q V P I L M M S G R T P V T E E G R F W G Q E M R D Q A A L V R E
UniRef90_W0Z844 I A E A A K C H T P L L V L A A D T A V G D V T S N F Y I D Q D T A V R G S
UniRef90_UPI00035D2790 L D A W Q D N T P V F F I S G G V K R S K E T V H N S P V Q E A N T I P I V S S D
UniRef90_J2H1Z5 L Y E A R K D H A P V L A L A S A K R G L D Y L Q E D N P V A L F N D
UniRef90_A2RNJ4 L Y D A Q Y D H V P V L A L V G Q V P T S A M N T N Y F Q E L N E N P M F A D
UniRef90_A4WD07 I A G S F A E Y V P V L H I V G A P C S A A Q Q K G E L M H H T L G D G E F R H
UniRef90_UPI0003B71C38 L Y D A H R S G A P V L A I A S H I P S A Q I G S G Y F Q E T H P E R L F V E
UniRef90_X2NM52 I A G S Y A E Y V P V L H L V G A P C S A A Q Q R G E L M H H T L G D G D F R H
UniRef90_H8L738 L Y D A Q M D H V P V L A F L G Q V A S T S M N Y N S F Q E L N E N P I F A D
UniRef90_UPI000400DB48 I A G A Y S E H V P L I H I V D Q K E H K L M H H T L M D G D F N V F R N M Y K
UniRef90_X7TCT7 L A N A T T N C F P M I Q I S G S S D R A L V D R R G D Y Q D L D Q L D A A R P
UniRef90_M0AFZ4 V A Q A Y G E S A P L V A I P A G Y D E A K T D V D P K F N S R V N Y Q H
UniRef90_G7Q8X6 A A S A R A D A S P V L F L T G Q V P T D W E G R G G F D S F D D T A L L S H
UniRef90_UPI0003807A43 I H N A R R A A S G M V N I V G E H S A S H L K Y D P P L M S D I E G L A R P
UniRef90_B1LSV3 L F D A H R S R V P V L A I A A Q P S A E I G R A Y F Q E T H P N Q L F Q E
UniRef90_UPI0002EA3D82 I A G S Y A E R V P V I Q I T G A P S T K Y V H H S L G E R Q F D N Y R K M Y E
UniRef90_UPI000348C7AB L Q E A A A S A P V L C L S S Q I P S E G L G R G F L H E L P D Q S A A A R G Q
UniRef90_W9CRE3 V H N A S C G R A P V L I F A G L S P Y T L E G I H W L Q D V P N Q A E I V R Q
UniRef90_R0J0E3 I A G S M S E H V K V I H V G Q S T T R A M Q K G Q M M I H H S L G M E P N H Q
UniRef90_UPI0003B406AE V H N A A K A R I P V L I F A G S S P F T Q D G E M W I Q D V H D Q R G L V R G
UniRef90_R4K1V4 L A Q A T K N C F P L I M I S G S S D R H I L D L D R G D Y E G D Q Y N V A K P
UniRef90_Q5YN72 L A E S F A S R V P V L A L V G Q P T T G L A G R G A F Q D T I D A A V L F G S
UniRef90_A9HQ39 L H N A R R A Q S S I V N I V G D H A T Y H L Q Y D A P L T S D I A G F A R P
UniRef90_C6ZDG0 M Y D A K M D N V P Q L I L A G Q T D S T A L G T K A F Q E T D I L S K M V A D V
UniRef90_N1ZR42 L A Q A T K N C F P L I M M S G S S E R H Y I L D L D Q G D Y E G D Q Y N V A K P
UniRef90_J5RIJ3 V A G S L A E R V P V L H I T V G A P N T K M Q S E H A L L H H T L N T D M S K P
UniRef90_W5XW10 L Y D S H R N G A K V L A L A S H I P S R Q I G G Q F F Q E T H P E I L F K E
UniRef90_UPI000370FCDD L Y D C Y R N R N V P V L A I A H I P S D E I G S G Y F Q E T H P E I L F Q E
UniRef90_U3A8K3 L G Q S W S D S V A V L A L S S C L P N G G P P D H R L H E M R D Q R A A A A
UniRef90_T0LMR5 I E A N S S G V P L I L S S D I L S S E K R N F L T E Y D K S A M F K S
UniRef90_L8GZ11 L G N A W A N C W P M V L I G G A T S T D H S E M G G F Q E A P Q I E T V R P
UniRef90_K6WKH0 C N A G A D R T P V L L I T S S P P L R E A E L N V L Q G G L D Q V A V G G V
UniRef90_UPI0002EF2EBE L F D C H R N H V P V L A I A A H I P S S E I G S G Y F Q E T H P Q E L F R E
UniRef90_V4RUG6 L A H A T T N C W P M I L S G S S E R E I V D Q R S G D Y E E T H P Q E L A I A R P
UniRef90_K6WHJ9 L F D A H R S R V P V L A I A A H I P G L E I G S G Y F Q E T H P E Q L F R E
UniRef90_UPI0003702B8F L F D A Q R S G T P V L A I A A H I P R A E I G T A Y F Q E T H P Q E L F R E
UniRef90_D8FMB3 L Y D A K Y D K T P M V A L V A N V P T P R Q D I N F F Q A F D E M P W F R D
UniRef90_M1PWP6 I A Q A Y G E S V P L V A F P A G Y D Q S N N D T D P K F S S L V N Y Q
UniRef90_UPI00036ADD65 I A T A Y A D S I P M V V I T S G Q V P S T M V G T D A F Q E T D M V G I S R P
UniRef90_S5RL14 I A T A N F D S I P I I L C G Q V V K K L I S Q N S F Q E L D N L N I S L S
UniRef90_K9QMN3 V A G A Y A E K S P L V I L S G S P G I K E R Q Q H H L L H H T Q R R V Y E E
UniRef90_F2PJU3 V H N A S V I G R T P V E I F A G L S P F T Q E G I H W L Q D V P D Q A Q I V A Q
UniRef90_H0TNT1 I Q N L F R Y R L P V L L A G R A P F A L H G E H F V L Q D S F D Q A S I V R P
UniRef90_Q9P7P6 I G G A Y A E D L P V L I T S G S P N T N D I G S S H L L H H T Y Q Y E M A K K
UniRef90_A0A059MIA4 M I E A L T A G S R V L H V I T G Q I E S E Y L T P E P L H E F P R Q R Q M L D A
UniRef90_R8BJE7 L I T A T D E G A P M V A I V G S V K R A Q A K R T H H Q S L Q A L L R P
UniRef90_Q8TT45 I A G S Y A E H N L V F H I V G M P A T P V Q H H T F G N G E F D Q F M T M A T

UniRef90_UPI00040EBCB7 130 140 150 160
UniRef90_I7KHT5
UniRef90_UPI00039C7E7E
UniRef90_U1QVX6
UniRef90_R5RA55
UniRef90_F4LDK9
UniRef90_G1LQN9
UniRef90_UPI0003455212
UniRef90_J0XFY9
UniRef90_C3A6P2
UniRef90_M8DJL0
UniRef90_E5Y911
UniRef90_UPI0003B79402
UniRef90_C5AZI3
UniRef90_D3CYF6
UniRef90_X5L9N1
UniRef90_G7Q4C3
UniRef90_G8P1U0
UniRef90_V4A0X9
UniRef90_U7FRV1
UniRef90_X1D3D3
UniRef90_F6SE92
UniRef90_UPI0002FEB001
UniRef90_D2BAW2
UniRef90_W2BQD4
UniRef90_I0JHI3
UniRef90_UPI0004663ABF
UniRef90_N9UNG2
UniRef90_F0R1U0
UniRef90_UPI000376C6F0
UniRef90_D5DBL0
UniRef90_M1SLG9
UniRef90_G8LDE4
UniRef90_B8FDQ9
UniRef90_W8TBZ1
UniRef90_V2TQE2
UniRef90_UPI0003716A03
UniRef90_D3F2F9
UniRef90_UPI00046608A9
UniRef90_W4LE20
UniRef90_UPI000371D7A8
UniRef90_UPI00035D15A7
UniRef90_Q4JWD0
UniRef90_Q216P2
UniRef90_A0A059MPJ6
UniRef90_UPI000467CAF3
UniRef90_W0Z844
UniRef90_UPI00035D2790
UniRef90_J2H1Z5
UniRef90_A2RNJ4
UniRef90_A4WD07
UniRef90_UPI0003B71C38
UniRef90_X2NM52
UniRef90_H8L738
UniRef90_UPI000400DB48
UniRef90_X7TCT7
UniRef90_M0AFZ4
UniRef90_G7Q8X6
UniRef90_UPI0003807A43
UniRef90_B1LSV3
UniRef90_UPI0002EA3D82
UniRef90_UPI000348C7AB
UniRef90_W9CRE3
UniRef90_R0J0E3
UniRef90_UPI0003B406AE
UniRef90_R4K1V4
UniRef90_Q5YN72
UniRef90_A9HQ39
UniRef90_C6ZDG0
UniRef90_N1ZR42
UniRef90_J5RIJ3
UniRef90_W5XW10
UniRef90_UPI000370FCDD
UniRef90_U3A8K3
UniRef90_T0LMR5
UniRef90_L8GZ11
UniRef90_K6WKH0
UniRef90_UPI0002EF2EBE
UniRef90_V4RUG6
UniRef90_K6WHJ9
UniRef90_UPI0003702B8F
UniRef90_D8FMB3
UniRef90_M1PWP6
UniRef90_UPI00036ADD65
UniRef90_S5RL14
UniRef90_K9QMN3
UniRef90_F2PJU3
UniRef90_H0TNT1
UniRef90_Q9P7P6
UniRef90_A0A059MIA4
UniRef90_R8BJE7
UniRef90_Q8TT45

UniRef90_UPI00040EBCB7 V M G H A V R P E P
UniRef90_I7KHT5 Y G W Q K I E
UniRef90_UPI00039C7E7E V Q D E R V P A A S I R A L E E
UniRef90_U1QVX6 V T G A E T D P P T H D P P E R
UniRef90_R5RA55 L A K K T A
UniRef90_F4LDK9
UniRef90_G1LQN9 F V N F Q V N V S S V K Y V E
UniRef90_UPI0003455212 V A N T E L E V T S P F E L A E H
UniRef90_J0XFY9 V L Y
UniRef90_C3A6P2 L V T K P I K V W T E P A P P R P T S
UniRef90_M8DJL0 I F S R T T V W P L V E T L P R
UniRef90_E5Y911 M L G M P A E P E K R D I P
UniRef90_UPI0003B79402 F F Y G D I E C D I P Q P I
UniRef90_C5AZI3 V A L K E A P K R A L S A P
UniRef90_D3CYF6 V L L E P W K P A P V A L P G S R V S T
UniRef90_X5L9N1 V L E Q D
UniRef90_G7Q4C3 H A D A P L A G E P V C V P E
UniRef90_G8P1U0 V L A R E C S A A T L A L
UniRef90_V4A0X9 V L Y
UniRef90_U7FRV1 V L C E Q T P P D G L D T P S K Q A P
UniRef90_X1D3D3 D L Q N I M N P E Q Y R P L E R P I
UniRef90_F6SE92 T L Y
UniRef90_UPI0002FEB001 I A S Q P A P E K T
UniRef90_D2BAW2 V A D L P A
UniRef90_W2BQD4 V L L S E T D A K P E K I E S A P F R A
UniRef90_I0JHI3 V Q L H D I P A P R I P A F P S R T P
UniRef90_UPI0004663ABF V A M A A A S G P M L P L
UniRef90_N9UNG2 M S A E A V I E A Q A
UniRef90_F0R1U0 V T T A E V
UniRef90_UPI000376C6F0 V A M R E V V E Q V S R L
UniRef90_D5DBL0 I P S S T I
UniRef90_M1SLG9 I Q A F V L P E D Y P D I D
UniRef90_G8LDE4 I Q G A K L P V I S T A P V K P T S V S A
UniRef90_B8FDQ9 V L N V I S A Q E N E I V P A
UniRef90_W8TBZ1 L M D Q S V P T G I Q F A P P E K L S
UniRef90_V2TQE2 I S E A Y I D D D
UniRef90_UPI0003716A03 V I L E E L D V P E P L P P A A Y
UniRef90_D3F2F9 L A N E D V
UniRef90_UPI00046608A9 F Q W Q E V E Y R S L H L P E Y R
UniRef90_W4LE20 V A V E E V D P A I V D G Y Q S P K P A
UniRef90_UPI000371D7A8 V L A R E
UniRef90_UPI00035D15A7 A A W G E A R P P A S A V I D R P A P
UniRef90_Q4JWD0 V S S Q P I E E E
UniRef90_Q216P2 V A W N E A A L J A A H K L D D
UniRef90_A0A059MPJ6 V Q Q A T V T G P R E T P P T R R V
UniRef90_UPI000467CAF3 V L C E D V D A A G L D A P
UniRef90_W0Z844 I Q D L E I A Y P G A R P A S N R V P T
UniRef90_UPI00035D2790 V Q G A M I E E
UniRef90_J2H1Z5 V F S A K V S G P V P S I A T L R P R
UniRef90_A2RNJ4 L G W Q E I E
UniRef90_A4WD07 V A K K P A I P P V S A F
UniRef90_UPI0003B71C38 V A E F E A S D A F P Q L V L T A P A T
UniRef90_X2NM52 V A K K T A I P P T Q A L A
UniRef90_H8L738 L G F E E I D E Q P F S T A H T H K T S
UniRef90_UPI000400DB48 L V D Q P I
UniRef90_X7TCT7 V L G Q A M D A S A A
UniRef90_M0AFZ4 V F H E E I P G D L E Y H P S S
UniRef90_G7Q8X6 I Q R A D V A A P W E P L D E
UniRef90_UPI0003807A43 A S W Q E A G A Q P P L P A P
UniRef90_B1LSV3 V G L M A M P G G A P D L
UniRef90_UPI0002EA3D82 V A Q S E I E
UniRef90_UPI000348C7AB V L L G P A G L P A V A D V D
UniRef90_W9CRE3 V M E E E I D D Y D L
UniRef90_R0J0E3 L S A E L V D
UniRef90_UPI0003B406AE V L E A P C E P V S V D M A R
UniRef90_R4K1V4 T V A Q K S D A N I Y K V V D
UniRef90_Q5YN72 V Q Q A E G Y P V P V P L E P R H V
UniRef90_A9HQ39 T A W A P A E P E T E M L P A T T P E S
UniRef90_C6ZDG0 L L T R K V K D T T N Q K V D T A P P A
UniRef90_N1ZR42 T I S Q E
UniRef90_J5RIJ3 V L H V K V S D E
UniRef90_W5XW10 L A S A E A E
UniRef90_UPI000370FCDD I A S L D E S T H P I P E Q
UniRef90_U3A8K3 L L E
UniRef90_T0LMR5 V Y D D V V E I Y S Q D A F S T Y P S
UniRef90_L8GZ11 V I Y D L M D E
UniRef90_K6WKH0 I M F K E I D E
UniRef90_UPI0002EF2EBE V A L K P A P E
UniRef90_V4RUG6 L L G Q T M D A
UniRef90_K6WHJ9 L F L K P C P K R R A G A P I R H V P
UniRef90_UPI0003702B8F V F R A
UniRef90_D8FMB3 F G W Q E I E D N Y R V S A S N H V A
UniRef90_M1PWP6 V F Y H E V E P F D Y T P
UniRef90_UPI00036ADD65 M
UniRef90_S5RL14 L
UniRef90_K9QMN3 M V Y A E I E E
UniRef90_F2PJU3 V L E E E L E P Y S L D
UniRef90_H0TNT1 T L A E T W D E R A M P
UniRef90_Q9P7P6 V A S Q P C A A P G P A S L I T E P E T
UniRef90_A0A059MIA4 L Q Y L A S P D E Q R A A E A R I
UniRef90_R8BJE7 V M T A P A F P A S A F T P P D Y G P S
UniRef90_Q8TT45 Y V H E N I

1 10 20 30 40
UniRef90_R5F623
UniRef90_B9QSS5
UniRef90_UPI0003B4B7D5
UniRef90_A0A0111TC74
UniRef90_R9GR88
UniRef90_G2INB3
UniRef90_UPI000369EC99
UniRef90_A0R480
UniRef90_G4ELW8
UniRef90_V6J067
UniRef90_UPI0002491F37
UniRef90_A3K0R0
UniRef90_G3MG81
UniRef90_R7WNB9
UniRef90_C2MBE5
UniRef90_UPI00037A01A2
UniRef90_X0GS58
UniRef90_N4UEF5
UniRef90_UPI00037309B5
UniRef90_UPI0003605887
UniRef90_D3T115
UniRef90_W9XFE6
UniRef90_S0DW71
UniRef90_G4BBV7
UniRef90_J3Z267
UniRef90_Q0CQV1
UniRef90_UPI0003FAB399
UniRef90_D5ULX2
UniRef90_B4UGN3
UniRef90_F7SWY6
UniRef90_D0Z353
UniRef90_E8SK18
UniRef90_Q96XV8
UniRef90_UPI000287B88F
UniRef90_V8QYK0
UniRef90_UPI000465CA20
UniRef90_A0A023F558
UniRef90_UPI000344B374
UniRef90_UPI0002626F45
UniRef90_L0NL13
UniRef90_Q211A5
UniRef90_UPI00047DF8CF
UniRef90_S0A161
UniRef90_W4M6C7
UniRef90_UPI00046789E0
UniRef90_UPI0004127E74
UniRef90_Q60A74
UniRef90_A4HB43
UniRef90_UPI0002E3A341
UniRef90_U5QK81
UniRef90_K2GMH5
UniRef90_I0JPY6
UniRef90_I7MIT6
UniRef90_B9R2G1
UniRef90_F4FEE7
UniRef90_UPI00046A6E6A
UniRef90_A0CTV7
UniRef90_E6QU91
UniRef90_W9X3J3
UniRef90_F1ZD36
UniRef90_UPI000255F2BD
UniRef90_M1CZC6
UniRef90_UPI000455EAC8
UniRef90_K8WY92
UniRef90_X6KVX6
UniRef90_A0A058YJTO
UniRef90_K0V6G8
UniRef90_UPI0004283E9E
UniRef90_D4IJG2
UniRef90_A0A010I2G2
UniRef90_A1CU50
UniRef90_UPI00035E99FE
UniRef90_UPI0004407DDE
UniRef90_P33287
UniRef90_W7ZUN5
UniRef90_UPI000471148B
UniRef90_F8MU83
UniRef90_R9C3C5
UniRef90_L0IW45
UniRef90_M5R197
UniRef90_E8UYT9
UniRef90_F2LCB4
UniRef90_R1F3S4
UniRef90_N8YB76
UniRef90_M9UWU0
UniRef90_UPI0003610B94
UniRef90_M0B2D8
UniRef90_UPI00037E7755
UniRef90_B3DZR6
UniRef90_B8FA09
UniRef90_D3QZM3
UniRef90_UPI000381C8C9

UniRef90_R5F623 Y[VVVV]DERTAAAFMA[]GMSQRSSTGEP[V]A[L]V[C]TSGTAL[]L[N]YA[P]A 80
UniRef90_B9QSS5 I[V]I[P]H[E]S[A]A[M]G[M]A[H]G[Y]Y[L]G[T]G[K]T[A]A[V]M[A]H[T]N[V]G[L]A[N]C[A]I[G]
UniRef90_UPI0003B4B7D5 M[H]V[R]H[E]S[V]A[A]F[S]A[D]G[E]A[A]A[A]T[G]A[L]A[V]C[A]G[S]C[G]P[G]G[N]L[H]L[I]N[G]
UniRef90_A0A011TC74 V[L]G[L]H[E]G[V]V[T]G[A]A[D]G[Y]A[R]M[A]D[K]P[A]A[T]L[L]H[T]G[P]G[L]A[N]G[L]I[N]G
UniRef90_R9GR88 I[H]V[R]N[E]E[V]G[A]F[A]A[D]G[E]A[R]L[N]G[L]A[C]C[A]G[S]S[G]P[G]G[H]V[H]L[I]N[G]
UniRef90_G2IN83 I[T]P[R]Q[E]N[L]G[L]H[M]A[D]D[A]Y[R]L[T]T[R]G[E]K[L]G[V]F[C]C[Q]H[G]P[G]A[E]V[L]A
UniRef90_UPI000369EC99 V[G]L[R]V[E]N[N]A[G]F[A]A[D]G[Y]G[R]V[L]R[G]M[A]A[L]V[T]T[F]G[V]G[E]A[A]N[A]I[A]G
UniRef90_AOR480 V[G]G[A]N[E]L[N]A[G]Y[A]A[D]G[Y]G[R]V[L]R[G]M[A]A[L]V[T]T[F]G[V]G[E]A[A]N[A]I[A]G
UniRef90_G4ELW8 V[G]S[V]N[E]L[N]A[G]Y[A]C[A]D[G]Y[A]R[V]N[G]V[G]V[T]T[F]G[V]G[E]L[S]A[L]N[G]
UniRef90_V6J067 V[H]C[R]N[E]L[N]A[G]Y[A]A[D]G[Y]A[R]V[N]G[L]G[A]L[I]T[T]F[G]V[G]E[L]S[A]C[N]A
UniRef90_UPI0002491F37 I[T]T[R]H[E]Q[N]A[A]F[A]S[G]G[L]G[R]L[T]G[K]P[G]V[V]A[T]T[S]G[P]G[V]S[N]L[A]T[A]
UniRef90_A3K0R0 V[L]A[R]H[E]Q[G]G[A]G[F]M[A]D[D]Y[A]R[A]S[G]R[P]G[V]G[Y]C[V]L[T]T[G]P[G]G[F]V[N]A[M]T[A]
UniRef90_G3MG81 V[D]T[R]H[E]V[N]A[V]F[A]A[D]A[V]A[R]L[S]S[G]K[V]G[V]A[V]T[A]G[P]G[V]T[N]T[V]T[A]
UniRef90_R7WNB9 V[A]A[R]H[E]G[G]A[A]S[M]A[D]G[Y]A[R]M[S]G[E]V[T]V[L]S[L]H[Q]G[C]G[Y]T[N]S[L]T[G]
UniRef90_C2MBE5 H[S]I[L]D[E]R[S]A[G]F[A]A[L]G[L]A[L]A[T]H[R]E[V]V[V]C[C]T[S]G[T]A[V]A[L]H[P]A
UniRef90_UPI00037A01A2 V[S]A[R]V[E]N[N]L[A]F[A]A[D]G[H]A[R]A[R]V[P]V[T]P[M]I[V]V[S]T[G]P[G]A[L]L[T]L[S]S
UniRef90_X0GS58 V[G]C[T]N[E]L[N]C[S]L[A]A[E]G[Y]A[R]N[G]V[G]V[C]V[V]T[Y]S[V]G[A]F[S]A[F]N[G]
UniRef90_N4UEF5 K[G]N[P]N[E]L[L]S[S]Y[A]A[D]G[Y]A[R]V[R]G[A]G[A]F[V]T[T]F[G]P[G]G[E]L[S]A[Y]C
UniRef90_UPI00037309B5 V[G]A[C]N[E]L[N]A[Y]A[A]D[G]Y[A]R[R]G[V]G[L]L[S]T[Y]G[V]G[E]L[S]A[L]N[G]
UniRef90_UPI0003605887 V[P]C[R]D[Q]R[N]A[M]Y[M]A[T]G[Y]A[L]Q[S]G[R]L[A]V[C]A[L]G[K]G[P]A[V]T[H]A[A]T[G]
UniRef90_D3T115 V[R]P[R]D[E]R[E]A[S]V[M]A[E]M[Y]R[L]T[G]D[P]G[V]L[T]G[Q]G[P]W[L]G[S]L[G]M[L]G
UniRef90_W9XFE6 I[G]C[C]N[E]L[N]G[A]Y[A]A[D]G[Y]T[R]I[K]G[S]P[G]V[L]I[T]T[Y]A[V]G[E]L[S]A[M]G
UniRef90_S0DW71 I[T]C[P]H[E]F[V]A[M]S[M]A[D]G[F]A[R]V[T]G[T]P[Q]C[V]L[V]H[V]D[V]G[T]Q[M]L[G]C[A]
UniRef90_G4BBV7 L[L]C[R]N[E]Q[G]A[A]M[A]G[Y]A[R]A[S]S[K]V[G]V[C]I[A]T[S]G[P]G[A]T[N]L[V]T[G]
UniRef90_J3Z267 I[L]V[R]H[E]Q[A]A[H]M[A]D[D]G[Y]R[S]S[N]K[L]G[I]V[V]I[V]T[S]G[P]G[Y]T[N]C[I]T[G]
UniRef90_Q0CNV1 V[G]N[C]N[E]L[N]A[G]Y[A]A[D]G[Y]A[R]I[N]G[L]S[A]L[V]T[T]F[G]V[G]E[L]S[A]L[N]A
UniRef90_UPI0003FAB399 V[D]V[R]D[E]R[A]A[V]H[M]A[A]Q[A]E[A]E[L]T[G]G[L]G[V]A[L]V[T]A[G]P[G]L[T]N[A]I[T]G
UniRef90_B5ULX2 V[H]V[R]H[E]E[A]G[A]F[A]A[A]E[A]E[V]T[G]R[L]A[V]C[A]G[S]C[G]P[G]N[L]H[L]I[N]G
UniRef90_D4UGN3 V[D]V[R]D[E]A[N]A[V]F[A]A[D]A[M]A[R]L[T]G[R]P[G]V[A]A[V]T[A]G[P]G[V]T[N]A[V]T[A]
UniRef90_F7SWY6 L[T]V[L]H[E]E[H]A[V]A[L]A[H]G[Y]A[K]V[L]T[G]R[P]M[G]A[L]L[H]A[N]V[G]L[M]H[G]S[M]A
UniRef90_D0Z353 I[G]T[R]H[E]E[V]A[A]F[A]A[G]A[E]L[T]G[E]L[A]V[C]A[G]S[C]P[G]N[M]H[L]I[N]G
UniRef90_E8SK18 I[H]V[R]H[E]E[V]A[S]L[A]A[A]Y[T]K[L]T[G]K[I]A[V]S[L]A[L]G[P]G[A]I[H]L[I]N[G]
UniRef90_Q96XV8 V[V]P[H]H[E]T[A]T[A]A[A]G[S]L[S]S[G]L[G]V[V]A[V]H[T]I[P]G[T]T[N]A[L]Q[M]
UniRef90_UPI000287B88F V[H]V[R]N[E]E[A]A[A]F[A]A[A]E[A]A[L]T[G]K[L]A[V]C[A]G[S]C[G]P[G]N[T]H[L]I[G]
UniRef90_V8QYK0 I[L]G[V]F[E]G[V]V[T]G[A]A[D]G[Y]A[R]M[A]D[K]P[A]A[T]L[L]H[C]G[P]G[M]A[N]G[L]A[N]
UniRef90_UPI000465CA20 F[G]I[R]H[E]G[A]A[A]F[A]A[S]G[A]K[L]T[G]K[P]A[A]C[F]G[I]A[G]P[G]G[L]N[M]F[T]G
UniRef90_A0A023F558 I[G]M[R]N[E]Q[S]A[A]Y[A]A[A]Q[A]G[L]T[G]Q[K]P[G]V[C]L[V]S[G]P[G]G[L]H[V]T[A]G
UniRef90_UPI000344B374 V[H]V[R]N[E]E[A]A[A]F[A]A[A]G[A]E[L]D[G]L[A]V[C]A[G]S[C]G[P]G[N]T[H]L[V]Q[G]
UniRef90_UPI0002626F45 V[L]G[L]F[E]G[V]V[T]G[A]A[D]G[Y]A[R]M[K]D[E]P[A]A[T]L[L]H[T]N[V]G[L]A[N]G[L]S[N]
UniRef90_L0NL13 I[T]I[P]H[E]H[A]A[M]G[M]A[H]G[Y]F[L]S[G]K[A]Q[A]A[V]I[L]H[T]N[V]G[L]A[N]G[L]I[G]
UniRef90_Q211A5 I[L]G[L]F[E]G[V]V[T]G[A]A[D]G[Y]A[R]M[R]D[R]P[A]A[V]T[L]L[H]L[G]P[G]L[A]N[G]L[A]N
UniRef90_UPI00047DF8CF I[V]S[R]N[E]L[N]A[G]Y[S]A[D]G[Y]A[R]I[K]G[A]S[A]L[L]T[T]F[G]V[G]D[L]S[A]A[N]A
UniRef90_S0AI61 V[P]A[R]G[E]A[G]A[V]T[M]A[D]A[H]G[R]F[S]G[L]G[V]A[L]T[S]T[G]A[G]A[G]N[A]V[G]A
UniRef90_W4M6C7 V[V]P[R]D[E]Q[A]A[A]C[M]A[D]M[Y]G[R]M[T]G[K]P[G]V[L]M[C]Q[G]C[Y]A[A]S[T]G[L]F[G]
UniRef90_UPI00046789E0 T[H]V[R]H[E]E[T]A[A]F[A]A[A]G[E]A[S]L[T]G[H]L[A]V[A]G[S]C[G]P[G]N[L]H[L]I[N]G
UniRef90_UPI0004127E74 W[I]H[V]R[H]E[E]V[G]G[A]Y[A]A[A]E[A]E[L]D[G]F[A]V[C]A[G]S[C]G[P]G[N]H[L]I[N]G
UniRef90_Q60A74 I[G]T[T]R[E]D[T]A[A]F[A]A[D]G[Y]A[R]C[R]G[M]G[A]L[A]V[T]Y[G]V[G]A[L]N[T]V[N]A
UniRef90_A4HB43 I[G]T[A]N[E]L[N]A[Y]A[A]D[G]Y[A]R[R]G[L]G[A]V[A]T[T]C[G]V[G]E[L]S[A]L[N]G
UniRef90_UPI0002E3A341 V[L]G[L]Q[E]N[V]V[T]G[M]A[D]G[Y]W[R]M[A]R[K]P[A]C[T]L[L]H[C]G[P]G[L]A[N]G[L]N
UniRef90_U5QK81 I[N]T[C]D[E]Q[G]A[G]F[A]A[D]A[Y]A[R]I[R]G[M]G[A]V[C]I[T]Y[C]V[G]G[L]K[V]A[N]T[T]
UniRef90_K2GMH5 I[Q]V[R]H[E]E[T]G[S]L[A]A[S]A[E]K[L]T[G]N[L]G[V]C[L]S[I]T[S]G[P]G[A]I[H]L[I]N[G]
UniRef90_I0JPY6 W[V]H[L]D[E]R[S]A[G]F[A]A[S]A[L]G[I]A[K]E[Q]H[K]P[V]A[L]V[C]T[S]G[T]A[A]A[N]Y[Y]P[A]
UniRef90_I7MIT6 I[G]F[K]S[K]G[A]V[F]E[A]A[S]A[L]G[F]M[T]G[R]P[G]I[C]V[F]G[R]E[Y]D[I]Q[V]I[E]G
UniRef90_B9R2G1 V[P]A[A]H[E]S[S]V[L]M[A]L[A]Y[T]H[V]S[G]A[G]V[G]A[T]V[T]H[G]P[G]A[L]T[N]C[L]T[A]
UniRef90_F4FEE7 I[Q]V[R]H[E]E[T]A[G]F[A]A[S]A[H]V[K]Y[G]G[G]P[G]A[V]L[V]T[S]G[P]G[N]H[L]I[N]G
UniRef90_UPI00046A6E6A I[L]A[L]Q[E]G[V]A[T]G[A]A[D]G[Y]R[M]T[G]K[P]A[S]T[L]L[H]L[G]P[G]L[A]N[G]L[S]N
UniRef90_A0CTV7 Y[G]F[R]N[E]Q[G]A[S]Y[A]C[G]A[G]Y[L]T[R]L[P]A[V]C[L]V[V]S[G]P[G]L[I]H[A]L[A]G
UniRef90_E6QU91 V[G]T[C]N[E]L[N]A[Y]A[A]D[G]Y[A]R[L]R[G]V[G]A[F]S[S]T[F]G[V]G[E]L[S]A[I]N[G]
UniRef90_W9X3J3 V[G]T[C]N[E]L[N]G[A]Y[A]A[D]G[Y]A[R]T[K]G[D]G[T]P[G]V[V]I[T]T[Y]G[V]G[S]A[L]N[G]
UniRef90_F1ZD36 V[L]G[L]F[E]G[V]V[T]G[A]A[D]G[Y]A[R]M[A]K[P]A[V]T[L]L[H]L[G]P[G]L[A]N[G]L[A]N
UniRef90_UPI000255F2BD T[A]A[R]H[E]G[G]A[A]T[M]A[D]A[Y]G[R]M[S]G[R]V[G]I[V]S[T]H[Q]G[C]G[L]T[N]A[V]T[G]
UniRef90_M1CZC6 V[G]C[C]N[E]L[N]A[G]Y[A]A[D]G[Y]A[R]S[R]G[V]G[A]C[V]V[T]F[T]V[G]G[L]S[V]I[N]A
UniRef90_UPI000455EAC8 I[T]C[P]N[E]M[V]A[L]S[A]A[D]G[Y]A[Q]I[T]G[K]P[A]A[V]I[V]H[V]G[V]L[G]T[Q]A[L]A[G]A
UniRef90_K8WY92 I[G]N[C]N[E]L[N]A[G]Y[A]A[D]G[Y]A[R]I[K]G[L]S[A]L[A]T[T]F[G]V[G]E[L]S[A]L[N]A
UniRef90_X6KVX6 L[V]I[P]H[E]H[A]A[V]S[M]A[H]G[Y]W[L]V[S]G[K]A[Q]S[V]M[L]H[T]N[V]G[L]S[N]G[A]T[G]
UniRef90_A0A058YJTO V[L]G[L]F[E]G[V]V[T]G[A]A[D]G[Y]A[R]M[A]D[K]P[A]A[T]L[L]H[L]G[P]G[L]G[N]G[L]A[N]
UniRef90_K0V6G8 V[L]C[L]F[E]G[V]A[T]G[A]A[D]G[Y]A[R]I[A]G[T]P[A]A[T]L[L]H[L]G[P]G[M]A[N]G[L]A[N]
UniRef90_UPI0004283E9E V[L]G[L]F[E]G[V]V[T]G[A]A[D]G[Y]F[R]M[K]G[K]P[A]S[T]L[L]H[L]G[P]G[L]A[N]G[L]A[N]
UniRef90_D4IJG2 V[H]V[R]H[E]E[S]G[A]F[A]A[A]E[S]E[L]N[G]I[A]C[C]A[G]S[S]G[P]G[H]V[H]L[I]N[G]
UniRef90_UPI000255F2BD V[G]N[C]N[E]L[N]A[Y]A[T]D[G]Y[A]R[N]K[G]F[G]A[F]V[T]T[Y]G[V]G[D]L[S]A[L]G
UniRef90_A1CU50 I[T]C[P]S[E]L[V]A[L]S[A]A[L]G[Y]A[Q]V[T]G[S]P[Q]C[V]I[V]H[V]D[C]G[T]L[A]M[G]Q[S]
UniRef90_UPI00035E99FE V[V]A[K]H[E]F[S]A[A]T[M]A[D]G[Y]A[R]S[T]A[G]L[G]V[V]V[A]T[S]G[G]G[S]M[N]L[V]A[G]
UniRef90_UPI0004407DDE V[G]N[C]N[E]L[N]A[Y]A[A]D[G]Y[A]R[S]T[W]R[S]I[G]V[L]L[T]T[F]G[V]G[E]L[S]A[I]N[G]
UniRef90_P33287 V[G]C[A]N[E]L[N]C[S]L[A]A[E]G[Y]A[R]A[N]G[L]S[A]C[V]V[T]Y[S]V[G]A[L]S[A]F[N]G
UniRef90_W7ZUN5 I[G]I[H]H[E]F[G]A[A]T[M]A[D]G[Y]A[R]A[T]N[R]L[G]V[V]A[A]T[S]G[G]A[M]N[L]F[A]A
UniRef90_UPI000471148B V[L]V[R]H[E]Q[A]A[V]H[A]E[A]Y[A]R[S]T[G]K[V]G[V]V[L]V[T]S[G]P[G]A[T]N[T]V[T]G
UniRef90_F8MU83 V[G]S[V]N[E]L[N]A[Y]A[A]D[G]Y[A]R[A]K[G]I[S]A[L]V[T]T[F]G[V]G[E]L[S]A[I]N[G]
UniRef90_R9C3C5 H[V]H[V]D[E]R[S]A[A]F[A]A[L]G[L]A[K]A[S]K[K]P[T]V[L]V[C]T[S]G[T]A[A]A[N]Y[F]P[A]
UniRef90_L0IW45 I[D]T[R]H[E]Q[T]A[A]F[A]A[E]G[W]S[A]R[V]I[R]G[M]G[C]V[T]Y[C]V[G]G[L]S[V]C[N]S[T]A[G]
UniRef90_M5RI97 V[G]C[T]R[E]D[C]A[G]F[A]A[D]G[Y]A[R]I[R]G[M]G[C]V[T]Y[C]V[G]G[L]S[V]C[N]S[T]A[G]
UniRef90_E8UYT9 I[G]C[C]N[E]L[N]A[Y]A[A]D[G]Y[A]R[L]N[G]S[A]L[V]T[T]Y[G]V[G]E[L]A[S]L[A]G
UniRef90_F2LCB4 I[L]G[L]F[E]G[V]C[T]G[A]A[D]G[Y]G[R]M[T]G[T]P[A]M[T]L[L]H[L]G[L]H[A]N[G]I[A]N
UniRef90_R1F3S4 V[C]T[R]N[E]A[N]S[L]M[A]A[A]G[K]L[S]N[G]K[G]C[C]L[S]T[S]G[P]A[V]S[N]L[V]T[G]
UniRef90_N8YB76 V[G]N[C]N[E]L[N]A[Y]A[A]D[G]Y[A]R[I]N[G]F[S]A[L]A[T]T[Y]G[V]G[D]L[S]A[L]N[G]
UniRef90_M9UWU0 V[I]C[P]H[E]M[T]L[S]A[A]D[G]Y[A]M[V]T[G]Q[P]L[V]L[V]H[V]D[V]G[T]Q[N]L[G]A[S]
UniRef90_UPI0003610B94 I[N]T[C]D[E]Q[G]A[G]F[A]A[D]A[Y]A[R]V[R]G[M]G[A]V[C]V[T]Y[C]V[G]G[L]K[L]V[N]A
UniRef90_M0B2D8 I[T]A[R]H[E]Y[N]A[A]V[M]A[D]T[Y]G[R]L[T]G[D]P[G]I[A]L[T]V[A]G[P]G[A]T[N]A[L]T[G]
UniRef90_UPI00037E7755 T[L]C[R]D[E]Q[R]N[A]V[F]M[A]D[T]Y[A]I[Q]S[G]A[L]G[V]A[V]V[G]K[G]P[A]V[T]N[T]V[T]G
UniRef90_B3DZR6 I[N]T[C]D[E]Q[G]A[G]F[A]A[D]A[Y]G[R]L[N]G[L]G[A]V[C]I[T]Y[C]V[G]G[L]K[V]T[N]P[V]
UniRef90_B8FA09 F[S]C[M]D[E]R[G]A[Y]R[A]L[G]Y[A]K[A]T[G]K[P]G[V]L[V]C[T]S[G]T[A]L[A]N[Y]H[P]A
UniRef90_D3QZM3 Y[Q]G[R]N[E]Q[G]M[A]H[A]A[L]G[Y]A[K]Q[K]N[R]S[L]I[A]C[S]S[T]A[L]P[T]N[M]V[T]A
UniRef90_UPI000381C8C9 I[A]V[V]H[E]V[S]A[G]I[A]A[E]Y[F]H[R]S[D]G[K]R[A]F[A]L[V]T[A]G[P]G[L]T[N]M[A]T[A]

UniRef90_R5F623 V A E A Y Y Q H I P L T V I S A D R P M E W I D Q D D S Q T L R Q Y G A L S H F
UniRef90_B9QSS5 A I N A S I E N I P M M L F S G R T P T T E E Q G R F W S G Q Q E M R D Q T E A L V F R E
UniRef90_UPI0003B4B7D5 L F D C Q R R R N R V P V L L A I A A H D I P S T S E I I G L S Y F Q E T H P T E L F R E
UniRef90_A0A011TC74 M F N A R R R A H T P M V N V V G D H A T Y H L Q H D A P L Q H D A P L Q H D A P L Q H D A P L Q
UniRef90_R9GR88 L Y D A H R S G A S V L L A I A S T I P T G E F G T N F F Q E T F N S T T K L A F D D
UniRef90_G2INB3 A G V A Q A Y G E S V P I L V M P G G Y S T A T A H V I G R N F R D S V Q R N M A F R Q
UniRef90_UPI000369EC99 L Q E A A A A S A P V L L A V S S Q I P V R G L G G G R H H L R F R D Q Q A S M F R D
UniRef90_A0R480 S Y A E H V P V V H I V G A P S K D S Q A A R R I V H H T L G D G D F E H F L R
UniRef90_G4ELW8 I A G A Y S E S D I P I I H I V G G P T K V V H H T L G N Y K F D E F K K I Y E
UniRef90_V6J067 I A G A Y S E S V P I I H I V G G P K S M M Q M Q H K P M H H T L D G N F D T
UniRef90_UPI0002491F37 L T T A T S E G D P V V A L G G Q V P R N D V A R L T H Q S I P S K E L L S T
UniRef90_A3K0R0 L G Q A Y S D S V P V L L A V A S C L A D E V A A R R G A L L Q Q M L N D Q T S G A G A S
UniRef90_G3MG81 I K N A Q M A E S V L L L A L G G A A A T A V K G R P M S N F F I D Q Q A I A E G
UniRef90_R7WNB9 V A E A A K S N T P L L V V T A E A T T P M S N F F I D Q Q A I A E G
UniRef90_C2MBE5 V A E A Y A Q G V P L V L A S A D R P E A A G L G H G Y L H E L P Q P G L F K A V
UniRef90_UPI00037A01A2 L Q E S M A A S V P V L L G I S S Q Q V P A A G L G H G Y L H E L P Q P G L F K A V
UniRef90_X0GS58 L G S A Y A E D L P V I L V S G S P N T D V G Q R L L H H D T T Y Q L E L A R K
UniRef90_N4UEF5 M A G H Y A E F V P V V H I V G A P T V D A V R N K K L M H H D M Y E N M A K N
UniRef90_UPI00037309B5 I A G A R S E H V P M V S I A G A P T L Y A T E Y A W H L H H T L A D G D Y T N
UniRef90_UPI0003605887 L V E A R E S G A P V L L A A G T P E R R R G S G G F Q E L D Q V A V A A P
UniRef90_D3T115 Q M E A R L A S P M V V L T E A S P E R S P Y Q Q A R G D Y G G F S L P D I L D G
UniRef90_W9XFE6 V G G A Y A E H A S G M I H I V G M P A R S L Q K A R A M L H H T M K A N M D H A
UniRef90_S0DW71 M H N A S C S R T P V F V F A G L S P F T L E G I H W L Q D A H D Q R A I V A Q
UniRef90_G4BBV7 L G D A L M D S S I V I A I T G Q V A S P L I G T D A F Q E A D V L G L S L A
UniRef90_J3Z267 I A T A V I D F S S I I I L C G Q V A S N K N L I A Q N S F Q E L N N L S I S L
UniRef90_Q0CNV1 I A G A Y S E F V P I V H I V G Q P H T R S Q R D G M L L H H T L G N G M S G G
UniRef90_UPI0003FAB399 I A N A H I L S R A P V L V I S G T S P R P Q E N R G G L Q D D Q A G L V R G E
UniRef90_B5ULX2 L Y D A N R T R V P V L L A I A S H I P S A Q I G T S Y F Q E T H P D R L F L E
UniRef90_D4UGN3 L E N A R L A Q S P V V L L G G A T A T L L R G R G A L Q D I D Q L A L M R P
UniRef90_F7SWY6 I F D A Y C R D V P V M V F G A T G P R R R P W I D W L H T S K D Q G A L V R S E
UniRef90_D0Z353 L Y N C Y R N K V P V L L A I A S D I P R S E I G T H Y F Q E T D P T R L F K E D
UniRef90_E8SK18 M Y D A K M D N V P Q L V L S G Q A D S H K L G T K A F Q E A V D L P K L F E D
UniRef90_Q96XV8 I L N A R F T S R I P L I V I A G R S P Y T E T G I H W T Q E A R D Q G E I V R Q E
UniRef90_UPI000287B88F L Y D A H R S G A P V L L A L A S H I P S N Q I G T G Y F Q E T H P E R L F T E
UniRef90_V8QYK0 M H N A K R A H T P M V N V V G D H A S Y H L Q Y D A P L T S D I E S L A T P
UniRef90_UPI000465CA20 M W D A K V I D R A P L L A L G G Q V N T Q V V G T G A F Q E V D L T K A F S D
UniRef90_A0A023F558 M A N A Q L N C W P L L V I G G S C S V D H E G I G G F Q E C P Q V E L S K P
UniRef90_UPI000344B374 L Y D A Q R S G V P V L L A L A S H I P S R Q I G T Q F F Q E T H P E R L F G D
UniRef90_UPI0002626F45 I H N A R K A H T P M V N V I G E H A T Y H I E H D A P L E N A D V E G I A R P
UniRef90_L0NL13 A L N A A T D H V P M L L M S G R T P T V E K G R F W G Q E M R D T E A L V R E
UniRef90_Q211A5 I H N A R R A N S P M I N T V G D H A V E H L P L D S P L T S D I D S L A R P
UniRef90_UPI00047DF8CF M A G A A S E S I P I I H V V G S P P S S T Q H H T L M N G D F D V F R R I H S
UniRef90_S0A161 M I E A L N A N T P L L H I T G Q V I K A W L D A D F I H E T R D D Q L G F L R A
UniRef90_W4M6C7 V I E A G L G S S P M T V I T D I T T Y S L Q C G G G E Y G N F D I A A I F K A
UniRef90_UPI00046789E0 L Y E A Q R S R V P V L L A I A A H I P S E E I G S E Y F Q E T H P Q D V F R E
UniRef90_UPI0004127E74 L Y D A H K S H V P L L A I A S T I N T G E M G M D F F Q E T N T I K L F D D
UniRef90_Q60A74 V A G A Y A E S S P V V V I S R E Q R E D P L T H H R F G P F R F Q R E I F E R
UniRef90_A4HB43 I G G S F A E S V P V I H I A G D A S T K S Q G N R E L L H H T L G D G N H A H
UniRef90_UPI0002E3A341 L H N A R R A R S G I V N V V G D Q A T Y H R P Y D A Q L T A D T E G W A R P
UniRef90_U5QK81 A Q A F A E K S P V V V I S G A P G T N E R Y K N P L L H H K V R D F D V F E Q
UniRef90_K2GMH5 L Y D A R G D H A P V L L A I V G Q V I T S T S V G T D A F Q E I N D Q E R M F E D
UniRef90_I0JPY6 I V I E A Y Y S R V P L L V L T A D R P H E L R D T G A P Q A I D Q T D M F G S
UniRef90_I7MIT6 L T N A W I N G W P V I V I S A C K D I Y N Q A K G T H Q E I D R K A F K K F
UniRef90_B9R2G1 I T E G V R G H L P I V L F A G D T P A E N P R H L Q G G I D Q R E L T K A
UniRef90_F4FEE7 L Y D A K L D H Q P V V A L V G H T A L T A E G G G Y Y Q E V D L L A L Y K D V
UniRef90_UPI00046A6E6A L H N A K K A G S G V V N I I G E H A S T H I E L D A P L T S D I E G I A R P
UniRef90_A0CTV7 A A N A Q V N G W P M V I V A G S S E N G Q Q S Y G A F Q E C D Q W N M V K P
UniRef90_E6QU91 V A G A Y A E R V P V V V I T I N F R T K P L L H H T L G D Y Q I P L R M F E K
UniRef90_W9X3J3 I A G A Y S E H V P I I H I V G T T T R A A Q K A R T K I H H T L G D D G W D H
UniRef90_F1ZD36 L H N A R R A R S P V I N M V G D H A T Y H L H Y N A P L T S D A A G V A R P
UniRef90_UPI000255F2BD I G E A A K A S T P M I V L T A D A A G P A V R S N F R I D Q D E L A R S
UniRef90_M1CZC6 I A G A Y S E N L P I I C I V G G P N T N D Y G T N R L H H T Q E L R C F Q T
UniRef90_UPI000455EAC8 L H N V D V G R T P V L I Y A G A S P F T C E G I M W M Q D I P D Q T Q A V R Q
UniRef90_K8WY92 I A G A Y A E H V P I F H L V G M P S R V Q R N R T J A H H F D V F Y K I S Q
UniRef90_X6KVX6 A I N A A C E H V P M I L M S G R T P A R T V P I G W G Q E M R D Q T A L V R E
UniRef90_A0A058YJTO L H N A K R A R T P M V N V V G D H A T Y H V Q Y D A P L T S D I E A V A Q P
UniRef90_K0V6G8 L H N A R R A F T P V V N V V G D H A T Y H Q P L D A P L T S D I E D A L G H W
UniRef90_UPI0004283E9E L H N A K K A H S G I V N I V G Q H A T Y H I G Y N A P L T S D I E G L A R P
UniRef90_D4IJG2 L Y D A H R S N C P V L A I A S T A C P S D Q F G T G Y F Q E T D P I R L F D D
UniRef90_A0A010I2G2 I A G S Y T E N I A V I H I S G A P S D H A I Q N K S L L H H T L V D G N Y H N
UniRef90_A1CU50 I H N A S V I T R V P V L C F A G L S P F T D S G I H W L Q D I P D Q A S I L R Q
UniRef90_UPI00035E99FE L A E F A S R V P V L A L V G Q A P T A F Q D T S G L A G T F D A A R L Y E P
UniRef90_UPI0004407DDE L A G A F S E H V P V L H I V G V P S T T Q M K T K P M L H H T L G D G R F Q Q
UniRef90_P33287 T G S A Y A E N L P L V L I S G S P N T N D P S Q Y H I L H H T Y Q Y E M A K K
UniRef90_W7ZUN5 L T E S F D S R T P I L A L V G Q P P T A L E G R G A F Q D T S D A E A I F G A
UniRef90_UPI000471148B L L D A M L D S I P V V C F S G Q V G V P L I G T D A F Q E A D T G I T R P
UniRef90_F8MU83 V A G A Y S E H V P I V H I V G C P S T I S Q R N G M L L H H T L G N G D F H V
UniRef90_R9C3C5 L V I E A K L S R I P L V L V T A D R P H E L R D V G G A P Q A I D Q L V D L Y G K
UniRef90_L0IW45 M A A A Q Q N Q S P L V L L G G R A P A L R W V G G S Q E I D H L P F V J A P
UniRef90_M5RI97 A Y A E K S P V V V I S G S P G I K E R S T L L H H M V R N F R T Q I D V F E K
UniRef90_E8UYT9 V A G A Y A E R V P M V C I T S G T P L H A M G A L L H H T M A D G N Y T N M W
UniRef90_F2LCB4 L H N A R R A R T P I L N L I G D H T R A H L K Y D A P L T S D I E S L A R P
UniRef90_R1F3S4 L L D A Q L D R V P V I A L T G C K P R S D Q G H S E F Q D I D Q A R L L A G
UniRef90_N8YB76 I A G A Y T E N V A V V H I S G I P L L H A V K N G A L L H H T L V D G N Y D N
UniRef90_M9UWU0 V H N A A R G R I P A I V V A G L S P V S C D P I H Y T Q D T T R Q S D I V A P
UniRef90_UPI0003610B94 V A E A Y A E K S A V V V L S G A P G M A E R K H H K V R N F E T Q R K I F E E
UniRef90_M0B2D8 V A Q A Y T A S P M I L V S A V L P K D A P T E S L H G V D D P F F K A F E P
UniRef90_UPI00037E7755 L J E A R C S A A P V L V L S G G T S A E H A G S G A F Q E L D Q V S V L R P
UniRef90_B3DZR6 A E A F A E K S P V V V I S G A P G L R E R Q K H H K V K D F D T Q L N V F K A
UniRef90_B8FA09 V I T A W R D E L P L M V V S A D R P S E L T G S D A N Q T S Q E G L Y G S
UniRef90_D3QZM3 A L T A T V N I L P L L L L P A D V F A T R Q P D Q G H G L S L T A N D C F R P
UniRef90_UPI000381C8C9 I G G A W L J E S R E L L I V G Q A R T E F I S H Q I G H Q Q I D G R S I V E P

UniRef90_R5F623 V K R S Y N L P M D G W Y F N R C I N D A L L T S L S G E K G P V V H I N I A V E
UniRef90_B9QSS5 A C K W D Y E L R F P E Q Q A V E T V D R A K A L T A E T T P K R G G P V V Y V S L P R E
UniRef90_UPI0003B4B7D5 C S H F C E M V I Q T P E S L P E L L H R E A R L R T A E T T G K R R G G V V A V L V I L P G A D
UniRef90_A0A011TC74 M S H W F G R I G T S P A E V L R E L R E A Y R E A Q M K R R G G V V S T L I L P P A D
UniRef90_R9GR88 C S C Y N E L A T T P V I Q L P R M L Q Q A L Q H A V I Q K K G G V V A V I G L P G D
UniRef90_G2IN83 I T K S A E P L N R P S S H V N A V M R A F T A L R N G R P G G G P V A L V E L P F D
UniRef90_UPI000369EC99 V V K S V H T V R T A S Q I L P S A V I M G A A W E S A L T A P R G H R G P V V L V E I P Q D
UniRef90_A0R480 M S R E I T C A Q A N L V P A T A T R E I D R V L V H E Q K R P G Y L L I A T D
UniRef90_G4ELW8 N V T C H Q V W I T D F L A N S I L D Q L N S A I Q S C L I Y K K P I V Y L M L P T D
UniRef90_V6J067 F K N M Y E Q I T A Y A A S I L T L E N N A I Q K A R E T K K P I V Y L M L P T D
UniRef90_UPI0002491F37 A T K D S V E I V Q D S N N I S E T F A N A Y Q T A M A P K S G A P T F I L S L P K D
UniRef90_A3K0R0 V C D W S E E A R S P E A A Y A L T L R A L G E F A A A R P R G P V K A L H V L I S D
UniRef90_G3MG81 L C K F S A T V T T V R D I V P T L R T A L Q K A Q S D T P R G P V V F E V E L P I I D
UniRef90_R7WNB9 L G A R T V R V R S A A S A V A D V T E A Y R L A A Q G R T P V V L N V P I I D
UniRef90_C2MBE5 Q L P E P H T D E E R W Y C N R L I N E A L L V A L A P L P G P V V Q I N V P I I S
UniRef90_UPI00037A01A2 V V K S V H L A R T A S Q I L P T A L R A A W E S A T A P Y G G P V V W V E I P Q D
UniRef90_X0GS58 I T C C A V R I R Q A A Q A A E L I D R A T W A A L S E K K R P V V Y I E V S P T N
UniRef90_N4UEF5 I T A A T V V I N Y A P T A A R E I D E A L T V M M R E K S R P V V Y I G L S V D
UniRef90_UPI00037309B5 M L D A I S Q F T P M N V V E E I V D R A L R T C L R E K R P V V H I T I P S D
UniRef90_UPI0003605887 L V R W A H R V G H P A R V V P A T V T A M T R A A G P P A G P P V Y L E I P D D
UniRef90_D3T115 V S K E W W F P R T P V E I L R S T Q L A F K H A V A G R S G R P V T A V L D G N
UniRef90_W9XFE6 T Y I H M A A P I R E T H A Y L M D K T M A I A T C I R S R P V Y I L Y V P V D
UniRef90_S0DW71 Y C R Y A G E F K T G K N I K Q L T S R A L Q F A T S D V P G P V V Y M V G A R E
UniRef90_G4BBV7 C T K H S F I V Q N I E E L P E I T A K A F E I A K S Y G R P G P V V I V D V P K D
UniRef90_J3Z267 I V K G F Y S L N C Y I N I P E I L I A K E S F I N T S N Y I N G R P V I I V N F P K D
UniRef90_Q0CNV1 I S C A M G R L N E T H E V A T L I D N A I R E C W L R S R P V Y I G L P T D
UniRef90_UPI0003FAB399 I T R Y A R T V R S E A L A L A E L I D E A I S R A E A G E P G P V C Y I D F P T D
UniRef90_D5ULX2 C S V Y S E L V S S A A Q A P R V I R S A I H H A Y G G P G V A V L S L P G D
UniRef90_B4UGN3 I A K W A T R V T T V G G L R P T L E R A L A L A R G G V P G P V V F V S E V P V D
UniRef90_F7SWY6 F V K W D A E P Y S L E G A R D A V L R A R Q L A T T Q P Q G P V V Y V C F D S A
UniRef90_D0Z353 C S V F C E K L T T P E Q M P Q L M E T A M R Q A I L K R K G V S V I V V P G D
UniRef90_E8SK18 V A V Y N Y Q L K D A T R I F E I V D E A R T A Y R E K G V A V L T L P N N
UniRef90_Q96XV8 W V K Y D F E I R R T E Q L P E V I A R A Y Q L A F S E P K G P V V Y I V I P R E
UniRef90_UPI000287B88F C S D Y C E M I G T R E Q M P R V L R I A L Q R A L G N S A V S V L V I P G D
UniRef90_V8QYK0 M S D W V R R I Q S A D D V S G A A A A I S A A H S G Y G G V S T L I L P A D E
UniRef90_UPI000465CA20 V A E F N H A V H Q S N S H S E L M A L A V K T A L I K R G R D V V S H L T F P D E
UniRef90_A0A023F558 Y C K Y A G R P A Q S P L I P R H V E K A V R V S I Y G R P G V S Y L D F P S N
UniRef90_UPI000344B374 V T G F R E L V A H P E Q M P R L A R V A I Q H A L G T P G G V S V L V L P G D
UniRef90_UPI0002626F45 M S D W V M T A R V S P E I A T T T A Q A L A E S Q R A P G C G L A S L L P A D
UniRef90_L0NL13 A A K W D Y E L R F P E Q V P D M L D R G H A I A N S T P K G P V V Y L S L P A R E
UniRef90_Q211A5 M S R W V R R I A D P V I Q I D S D V A E A W S Q S L T P G G I S T L T L P A D
UniRef90_UPI00047DF8CF E L S A E A V Q V N S P E N A A E T I P R V T Q L L A L E Q R Q P V V A L D I P Q D
UniRef90_S0A161 C S K R A Y R V N S P E Q A V A V I Q R A I L D A Q T L P C G P V V A V E I P I
UniRef90_W4M6C7 T C K F T S V A H T P G E G I Q S V Q R A I K H A V T G R P G P T A A V L A I G
UniRef90_UPI00046789E0 C S V Y C E L A M T P E Q V P R L L H I A M R M A V G R G G V S V L V V P G D
UniRef90_UPI0004127E74 C S C Y N Q M I M T A E Q A P R I I Q T A I Q H A L G K K G V V A V I G L P G D
UniRef90_Q60A74 I T C A A V V L D D P V I A F R Q V E R A L A A A R Q H C K P V Y I E I P A D
UniRef90_A4HB43 F L H I S A E V C C I A V M L T P E N C L M E D R L Y Q K K P G Y I A L P T N
UniRef90_UPI0002E3A341 V S A W V R T S T A A A D V G R D A A V A V Q A A R T A P G Q I A T Y L I L P S N
UniRef90_U5QK81 L T V A T A V L D D P Q T A F C E I D R V L A A A R R Y C R P V T Y I E L P R N
UniRef90_K2GMH5 V A V F N K R A E S A E H Q I P D R L N R A I R T A Y T E K G V S V L I V P D D
UniRef90_I0JPY6 Y V R W Y Q D L A V H M Y A R R Q A R A V E A V G N H P G P V V H L N L P F
UniRef90_I7MIT6 Y L K Y S Q K V T S V A D I P M V T E K A Y K M C V S G R A G P V Y I E I P G N
UniRef90_B9R2G1 T G A G F E Q L R T P E T V A M D V A R A F Y R A Q V E R R P I T L N M P A D
UniRef90_F4FE7 A A A F L A Q L D H P S Q V R H L V D R A C R T A L A R R T V T A L V L P L D
UniRef90_UPI00046A6E6A V S H W V H T S K S V A T V G A D A A R A V Q S A M T A P G Q I A S L I L P S D
UniRef90_A0CTV7 Y L T F G A K I T N L R Q A P L E I E K A I R Q S C V G R P G Q V T Y I E V S G D
UniRef90_E6QU91 I T A A S T Q L L S G E T A P D E I D R V L S A C L A H H Q G Q P V V Y L S L P S D
UniRef90_W9X3J3 T I Y Q K M S E P A R R A S V F L T N D A I E R A Y Q T R H P V V Y L F I P M D
UniRef90_F1ZD36 M S D W V R V A H S P R S D L A Q A G A E A H L A A M T Y P G Q V A T V I V P A D
UniRef90_UPI000255F2BD V G A V P E R V H S P A S A V A D T V R A Y R T A V N E R R V T V V L S L P T D
UniRef90_M1CZC6 V T C Y Q A V I N N L E D A L E Q I D R A I S T A L I E R K P V V Y I S L C N
UniRef90_UPI000455EAC8 H M R Y T A Q I E S P V N L T Q V V R R A L Q S A T S E R P G P V Y I W A R R E
UniRef90_K8WY92 H L S C A H S I T P E N C I T E L E R L I N S A L F E R R P V Y I G I P S D
UniRef90_X6KVX6 S C K W D Y E L K Y P E Q T I G L I D R A Y A T S N S T P R G P V Y L S I P R E
UniRef90_A0A058YJTO M S H W V G R L R D A A S V A A Q T S E A Q V V A R Q E P G N V S T L I L P A D
UniRef90_K0V6G8 T G G S V H R P E S A D L D A A V H G A V R S A T G T P G R V A T L V L P A D
UniRef90_UPI0004283E9E M S A W V R T S P D A R S V A A D G A A A I A A A K S A P Q Q I A T L I L P A D
UniRef90_D4IJG2 C S G Y N Q M A V T P A Q F A R M L P S A A L Q H A T H R R E R V A V V G L P G D
UniRef90_A0A010I2G2 V M N C M K E F T V J A Q A L L T P S N A A Y E I T C W L E R R P V H L Q L P S D
UniRef90_A1CU50 Y C R Y T G E I R T G R N I K Q M V Y R A M Q F A M S D P K G P A Y L T A A R E
UniRef90_UPI00035E99FE I T S Y C A R V N S A A E L P A H L A R A V A T T R R G G P V A V L L L P K D
UniRef90_UPI0004407DDE F T I A Q A H P L S K D T I A A E I D R V L S A C V T T A R P V V Y L T L P T D
UniRef90_P33287 I T C C A V A I P R A I D A P R I L I D R A L R A A I L A R K P C Y I E I P T N
UniRef90_W7ZUN5 V S R H C A K V T R P Q D V I S A E L T H E A L D A A L T G G P A I L L L P K D
UniRef90_UPI000471148B A T K Y N Y L I R R P E D V A A C V H R A S T S R A A A G P V V I V W L P T D
UniRef90_F8MU83 F A N M S E N L S C P S E I A Y Q I D H A I R E C W I R S R P V Y I V L P T D
UniRef90_R9C3C5 H V K W F M E M A T S D S P G M I R R A I A M A K G H P S G P V H V N I P P
UniRef90_L0IW45 L T R F A A T A Q S A D A V G G I I D D A L R A A V G A P S G V A F I D F P M D
UniRef90_M5R197 F T I A G T E L S D S L T A F S E L D R V L D A C D R Y K R P V Y I D V P R D
UniRef90_E8UYT9 N C A R E F T V A Q A R I E P S N A R Q E I A D R V L R T E K R P V Y L Q L P S D
UniRef90_F2LCB4 V S V W Y R S V A T E Q D L R D T A Q E I A T M G S A R G V A T L V L P V D
UniRef90_R1F3S4 G L A Y S I T I A D P T Q L L S V I R D A I A I A F T K R A A V H I A I P V D
UniRef90_N8YB76 I M N C M K E F T V A Q T R L T P A N A A K E I D R V L Q K R P V H I Q L P S D
UniRef90_M9UWU0 Y M K W M Y E L R A P E M V E Q V V A G R A L Q I S C T H P R G P V Y I T G P G R E
UniRef90_UPI0003610B94 I T V G A T V L D N P D T A A S E I D R L L D L A R R Y H R P V V Y I E V P R D E
UniRef90_M0B2D8 A T K W S T Q V H D A E R V P D A L N R A F D V A T R G R P G P V V F V G I D D E
UniRef90_UPI00037E7755 L V K W A R V E H P S R V L P L L R Q A I L A A Q D G V P G P V Y L E L P D E H
UniRef90_B3DZR6 L T V F A T I L E N P R D I G A Q I L Q A V E L A L Q Y K R P V Y L E I P R D
UniRef90_B8FA09 H C L E S L N L P C P E Q D Y P L E A L A V C H M A Q A K N G A V H I N I P M E
UniRef90_D3QZM3 V C R Y W D R V S R P E Q L M T A M L A M R V L T N A G A V C V I N A L P Q D
UniRef90_UPI000381C8C9 M S K L S I T I T E P F N R N E L K S V A D L S K T G R K G P V F L E I C L D

UniRef90_R5F623 P L T Q E M D M P S E R F V T R I P S S 170 180
UniRef90_B9QSS5 V L C E P C P M D Q L A A P A I M V A
UniRef90_UPI0003B4B7D5 V A
UniRef90_A0A011TC74 A A W G E V Q P D T L S P V
UniRef90_R9GR88 V T A M D A V E S P A
UniRef90_G2IN83 V L E Q D G A Q V A Y Q P V L R S
UniRef90_UPI000369EC99 V L E A A T A L P V V S G L D A T P R
UniRef90_A0R480 V A R F P T E P P T A P L P R
UniRef90_G4ELW8 V M K M E I G P
UniRef90_V6J067 V V T
UniRef90_UPI0002491F37 V L D D N V T T E T I D P L
UniRef90_A3K0R0 L L E Q A V A P A P A P
UniRef90_G3MG81 V L Y
UniRef90_R7WNB9 V Q D E L L P D D Q V A P R V V
UniRef90_C2MBE5 D P S V S L L P P T P D P S D R R P
UniRef90_UPI00037A01A2 V L L A P V A L P A I R S V P A A P A
UniRef90_X0GS58 L A G E P C A R P G P
UniRef90_N4UEF5 I A Y E M I D A E G L N V P
UniRef90_UPI00037309B5 I T H L S I Q A P E E A L
UniRef90_UPI0003605887 V R T A E I V V P E A L P
UniRef90_D3T1I5 A I T A E V P E D P T P R A
UniRef90_W9XFE6 A V S V Q L D A K R L E T P
UniRef90_S0DW71 V M E E D I P A Y S L
UniRef90_G4BBV7 V Q L A P T T A K P
UniRef90_J3Z267 L
UniRef90_Q0CNV1 I I V K K I E
UniRef90_UPI0003FAB399 T L R A E V P
UniRef90_D5ULX2 V A D E A A
UniRef90_B4UGN3 L L Y D E A
UniRef90_F7SWY6 L Q E A P A D A P P L L P L A R H A P
UniRef90_D0Z353 V A
UniRef90_E8SK18 I L N T K V E D N F P T E V E P Y V P
UniRef90_Q96XV8 V S I E K S E Y R K V R V
UniRef90_UPI000287B88F V A H A Q A T H P T
UniRef90_V8QYK0 A A W S E T P V E T A P P V T R
UniRef90_UPI000465CA20 V A
UniRef90_A0A023F558 L L N S Q C
UniRef90_UPI000344B374 I A G R R A T G P A
UniRef90_UPI0002626F45 A A W Q D A
UniRef90_L0NLI3 V L S E T I D A S A
UniRef90_Q211A5 M A W N E
UniRef90_UPI00047DF8CF T A K A E I D M P E P T F P
UniRef90_S0AI61 I Q
UniRef90_W4M6C7 S L V G E I T D E T F P R V
UniRef90_UPI00046789E0 M L
UniRef90_UPI0004127E74 V S E L K A
UniRef90_Q60A74 R V M A P G Y P I P Q E T P E T P
UniRef90_A4HB43 L A E M I V P P P P T K L M R R
UniRef90_UPI0002E3A341 A S W N E G G V V A E P L
UniRef90_U5QK81 I V N A
UniRef90_K2GMH5 L F A E K
UniRef90_I0JPY6
UniRef90_I7MIT6 I L D S Q V P
UniRef90_B9R2G1 F M W Q E A A F E K H
UniRef90_F4FEE7 V Q D E A A V P D P P H A H G Y H T S S
UniRef90_UPI00046A6E6A T A W N E I D L P A P A P F D
UniRef90_A0CTV7 L L R S N I P E T E L
UniRef90_E6QU91 V V M M K C N R P G T F G F P A P A R S
UniRef90_W9X3J3
UniRef90_F1ZD36 H A W S E G S A P V A P R V
UniRef90_UPI000255F2BD V Q S Q P A Q G A P
UniRef90_M1CZC6 L P A T P H P T F S R D P I P
UniRef90_UPI000455EAC8 V M E Q E I D E
UniRef90_K8WY92 Y A L M P I
UniRef90_X6KVX6 V L C E T T R S E G L E A P
UniRef90_A0A058YJTO A A W T D L P D D T P A P Q P
UniRef90_K0V6G8 Y S W G S A P Q N P L P
UniRef90_UPI0004283E9E T A W N E A D
UniRef90_D4IJG2 V A A S P C A E S P
UniRef90_A0A010I2G2 I T H L E I E V D D Q P L I
UniRef90_A1CU50 V L E E Q V E I P D L
UniRef90_UPI00035E99FE V Q Q A D M G E V E P F R V P
UniRef90_UPI0004407DDE L V Y A K I P
UniRef90_P33287 L A G A T C
UniRef90_W7ZUN5 I Q
UniRef90_UPI000471148B
UniRef90_F8MU83 M V E K K I E
UniRef90_R9C3C5
UniRef90_L0IW45 H V F S E A Q D A P G A L S Q R P V A A
UniRef90_M5RI97 M
UniRef90_E8UYT9 V A G V R T G P I T V P L
UniRef90_F2LCB4 L Q S I A V D S S A S L A V P V Q P P S
UniRef90_R1F3S4 I Q V A T V A S P P A R V L S C S P E T
UniRef90_N8YB76 I T H V K L Q V E D Q P L
UniRef90_M9UWU0 V W E A S A P P A R S P A E H W R P S A
UniRef90_UPI0003610B94 L M L V P C R P P S T R R
UniRef90_M0B2D8 I L M E S V D I P E S A F E W T P V S
UniRef90_UPI00037E7755 L A K E E I P V S H D G V A T E L P T
UniRef90_B3DZR6 I V A A E I E I P
UniRef90_B8FA09 A P S G P V S Q P V L E A A K R Y
UniRef90_D3QZM3 V Q G E I Y D F P E Y F F R K R
UniRef90_UPI000381C8C9 V T A M E V D V E S L N K I P S R T T

UniRef90_V8A665
UniRef90_S3CQB1
UniRef90_W4M855
UniRef90_F9YMZ0
UniRef90_F9F2Z2
UniRef90_D8J3M7
UniRef90_I4EJL2
UniRef90_G8PAU3
UniRef90_W7CIK9
UniRef90_B5JNX3
UniRef90_K2DHSV0
UniRef90_F2RUL4
UniRef90_UPI00034BC2D7
UniRef90_Q09EA2
UniRef90_F8EBY6
UniRef90_Q09737
UniRef90_UPI0001FFE0B7
UniRef90_L0JLK6
UniRef90_UPI00023B23EB
UniRef90_D8J2U7
UniRef90_E3QLS8
UniRef90_M2MTI8
UniRef90_M3C9H8
UniRef90_UPI00046A3346
UniRef90_H2IEN1
UniRef90_F4RL41
UniRef90_H3K904
UniRef90_I2FPY6
UniRef90_A6QYW4
UniRef90_U2TF92
UniRef90_B1N056
UniRef90_H1HQ36
UniRef90_A7NRP8
UniRef90_F5IT35
UniRef90_M7SGJ0
UniRef90_Q6C9L5
UniRef90_D5A2Q7
UniRef90_F5SQV4
UniRef90_L0DBG5
UniRef90_I8AKX9
UniRef90_M2RL26
UniRef90_UPI000472EA74
UniRef90_M1Y65
UniRef90_UPI00032A72D4
UniRef90_F9D620
UniRef90_UPI00037247FD
UniRef90_H8I142
UniRef90_D7IIV5
UniRef90_N8VIZ7
UniRef90_H6BX44
UniRef90_S3I373
UniRef90_Q3IQZ0
UniRef90_B8PAY6
UniRef90_F3ZPG0
UniRef90_E9PWM4
UniRef90_A0A016PD83
UniRef90_B7RRZ8
UniRef90_UPI0003B5E36A
UniRef90_Q26CK3
UniRef90_UPI00036D7B1D
UniRef90_M7SPK7
UniRef90_B5QKU0
UniRef90_UPI0003F7EC6F
UniRef90_A0A052IBR7
UniRef90_UPI00047EC64C
UniRef90_A3QCS9
UniRef90_R5AVJ0
UniRef90_M5RA48
UniRef90_R5MN12
UniRef90_A0A037ZK71
UniRef90_A7GU91
UniRef90_C4RM99
UniRef90_UPI00041D21DD
UniRef90_V2YJR7
UniRef90_B4W3U3
UniRef90_F4BPJ0
UniRef90_O06335
UniRef90_C3N921
UniRef90_UPI0004765C9F
UniRef90_G3EC51
UniRef90_B9S976
UniRef90_B0J1I8
UniRef90_A4YFS0
UniRef90_G4L5Z7

```

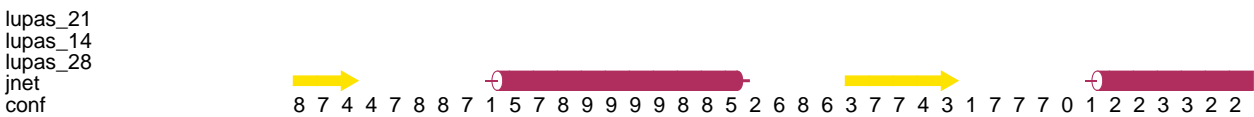
1          10          20          30          40
A T I A H L V I E A L Q C N G L N T L Y G V V G I P L T D L A R A Q E K G M R F
UniRef90_V8A665      A T I A D Y L F T R L R Q Q L G V L E S V H G V V P G D Y N L L E L L D Y V E P G L Q R W P
UniRef90_S3CQB1      T G A E A L V H S L V J A A K V D T C F A N P G T S E M H F V A A L D S A E E A G R L I R C
UniRef90_W4M855      A A Y L F R R L Y E A G A R E Y L H G V P G D Y N L T A L D Y L E P G L I A W S
UniRef90_F9YMZ0      V N E A I A Q D L R E E G V R E Y L F G F P G S N R P L F D T D S A E E A G V I R S
UniRef90_F9F2Z2      K A G Q A L A K V L E S W D V V D H L Y G I T A D S I N N T V D G L Y Q N L K Y
UniRef90_D8J3M7      A F V I E L V J Q A G V D E A V I T S P G S R S T P L L M A F A H P T N L K I
UniRef90_I4EJL2      A D V L V E T L R R K G V D Y A I T C P G S R S S P L T F A F A R N I E A
UniRef90_G8PAU3      S H F I A E F L A K K G V I S H V F D V S G G M I A N L E D S I S Q G L E C
UniRef90_W7CIK9      S G G Q L F H E M M L R L G V L T T I F G Y P G G A I L P V F D A I Y N D H F D F F
UniRef90_B5JNX3      T V R D A A V A V L R A H G L V K T T I F A N P G S T E V A F L T D A I Y P D D L R F F
UniRef90_K2DHSV0     T L A Q A V V R L R D A Q R V S R V F G I F G G N V T G L G Q A L E E H L P F F
UniRef90_F2RUL4     I A E L C A R K K G V K N S I L G V P G G S R S A A L T L A F A R K I Q T
UniRef90_UPI00034BC2D7 V G E Y L F K R L E Q L G V V E H L F G V P G D F N L A L L D L I D E K F R W
UniRef90_Q09EA2     T V A Q Y L A R R L G E L G V L E H L F G V P G D F S L T L D H M E G R Q E W
UniRef90_F8EBY6     G R V L A D E L A K S G L E A V C L A P G S R S T P L T V A F A E I G I D V
UniRef90_Q09737     A K A F T A A G V T H M F G V L G I P V T S F A R A V S I H L F
UniRef90_UPI0001FFE0B7 G R T V V I D E L V A S G I E D V C L A P G S R S T P L T V A F H D S I T V
UniRef90_L0JLK6     V V E Y L F R R L H E I L G V L R S V H G L P G D F N L V A L D Y L P E Y L K W
UniRef90_UPI00023B23EB G S D A I A E R L S R L H L R D Y I A L V P G S S Y R G L H D S L V N Y L F E M
UniRef90_D8J2U7     A E Y L F T R L K Q L G V L G T I H G V P G D Y N L E L L D Y V E P Q L H W
UniRef90_E3QLS8     E A A V L V M R R E G V D T A F G I F G A A I N P L Y A A L Q K V I D H
UniRef90_M2MTI8     T T A Q A L V K F M N Q G G I E H I F T F G H A G N V Q A L E E D A K S L E V
UniRef90_M3C9H8     T I G A Y L I L R L A Q L G I K Q V H G V P G D F N L R F L D L T H P D L D W
UniRef90_UPI00046A3346 T V A Q A L L K F L N N Q G L Q S T I F G H G N V V G L G E A L I E N D L I V
UniRef90_H2IEN1     K I G A Y L L E R L V Q L G T Q S I F G V P G D F N M G F L D L I E D H L E W
UniRef90_F4RL41     A E Y L F R R L Y E L G T I R S V H G L P G D Y N L V A L D Y L P K V L D W
UniRef90_H3K904     T V A Q A L V K F L N N Q G L Q S T I F G I F G G N V V G I G Q A L E E D P G H
UniRef90_I2FPY6     G A D I V A Q S L T N H G V D L V F G I F G A K I D R L F E T L E H P P H L
UniRef90_A6QYW4     V L T S L L V V Y G V R H A V V C P G S R N A P I V H N L D A C I R C
UniRef90_U2TF92     A T T L V D E L A R A G L R H V C L A P G S R N T P L V L A F A R H L R V
UniRef90_B1N056     V T Q Y L F T R L Y Q L G I R S V H G V P G D F N L V A L D Y L P K G L K W
UniRef90_H1HQ36     G D Y L F A R F K Q L G V D S Y F V G V P G D F N L T L L D H V Y N D M R W
UniRef90_A7NRP8     G N L I V E E L V R H G V S Y F I V S P G S R S T P L T V A I A R N Y Q A
UniRef90_F5IT35     T I A D Y L F D R V A E A G A T E V F G V P G D Y N L S F L D N I S D K L R W
UniRef90_M7SGJ0     S V G D Y L F S C L K Q C E G V T C I F G I P G A Q S N E F W D A L A R R V P Y
UniRef90_Q6C9L5     T A A A A F L K A L V D A G L T H V F V N W G N D H P A F L E E L E R Q L E V
UniRef90_D5A2Q7     S T A E L L I D S I S S Q I S D V F G I A G T H G L S L F E E I R K K L K Y
UniRef90_UPI00032A72D4 T L G N H L A R R L V I E I G I S D V F G V P G D F N L A L L D Y L E P K L N L
UniRef90_F9D620     I V I A R L L K E Y Q I E R H I V L N P G G T N L P L V Q A V Q D D F F H C
UniRef90_UPI00037247FD T V A Q A V V R L A R Q Y Q I E R R F G I F G H G N M G Q A A D D D E L P Y
UniRef90_H8I142     L I A L L A D E G V A H F F I N P G T D S A P I Q E A L A A A R A A
UniRef90_D7IIV5     Q L I N A L K K Y G I H C V L S A G S R N V P F V H S V D P F F E C
UniRef90_N8VIZ7     I G Q Y L N Q R L K E L G I Q Y I F G V P G D F N L S Y L E E I D P K L E F
UniRef90_H6BX44     V A T Y L F T R L K Q L G L D S V H G L P G D F N L V A L D Y L E C G L K W
UniRef90_S3I373     T V A D Q L D Y L V L E R A T L M F G V P G A G I A H L L E R L R Q R F T Y
UniRef90_Q3IQZ0     G Q T V A D E L A T V G I E T A V L A P G S R S T P L A A V A F A Q H I E A
UniRef90_B8PAY6     T T A S V F L A T L S R V G V T H I F A N W G N D H P A F L E E L E R Q H I D V
UniRef90_F3ZPG0     Q E L V A L L E A H K V R K I V L C P G S R N A P I V Q T L E S Y F S C
UniRef90_E9PWM4     S G A K V I A Q A L K T Q D V E Y M F G V G I P V T E I L A A Q E L G I K Y
UniRef90_A0A016PD83 G A Y L F T R L K Q L G I G S V F G V P G D Y N L K L D Y V P A G L N W
UniRef90_B7RRZ8     N G A E S V V R S L H A G G V D V C F A N P G T S E M Q F V D A L D R T M R C
UniRef90_UPI0003B5E36A V L K V L E E W G I R N A Y G L P A G S L M D A F Q G N I N F
UniRef90_Q26CK3     A Q Q V L L L F K K K G V Q H I V I S P G S R N A P L T I G F D S Y F K C
UniRef90_UPI00036D7B1D N V A Q A V G I A L A R F G V R R A F G V V G S G N F H V T N G L R G G A E F
UniRef90_M7SPK7     A E Y L F A R L K Q L G V G S I H G V P G D F N L T L D Y V E P S L K W
UniRef90_B5QKU0     A A L H T L E S W G V T H I Y G I P G G T F N N M M Y A L D E R I K Y
UniRef90_UPI0003F7EC6F H A I V Q T F L R A G V E D V V I S P G S R S T P L A Y A F S Q T F N T
UniRef90_A0A052IBR7 S D A I A D I L R G L D I P Y V L L N P G A S F R G L H D S I V N H L Q M
UniRef90_UPI00047EC64C S V A H R L A G A L R R H G V E V I F G Q S I P A A L C V V A P E F G L R Q
UniRef90_A3QCS9     Q L L T S L L K K H G V R Y V V A S P G N T N T A F I G S I Q Q Y F T I
UniRef90_R5AVJ0     T G M R V L A M S L K Q L G V D K M Y G L V G I P V T E V Y I A Q E E G I K F
UniRef90_M5RA48     A F V I E Q L V H A G I Q Q A V I S P G S R S T P L V M A E H P Q L N I
UniRef90_R5MN12     L A S L T R S H G I K R I V L C P G S R N I P I V Q T L T N D F T Y
UniRef90_A0A037ZK71 T V T D V M V D T M T N W G L Q S V F G M V G H S N L G L A E S I R G K L K Y
UniRef90_A7GU91     A F V D E L A R L N V C D V V I S P G S R S T P L L M E Q H E Q I K T
UniRef90_C4RM99     T V A D L V V E R L R A W R V P R A F G C P G A A I D P V V A A L N R D P E F
UniRef90_UPI00041D21DD T L V A I C A K K G V H H V I L S P G S R C A P L T L A F A R H I I Q A
UniRef90_V2YJR7     T T S S A F L Q I L S N A G L T H A F V N W G S D H P A L L E D L Q R C L Q V
UniRef90_B4W3U3     T N S D Y L V D Q L T Q N Q T D T J V F T I P S G K L I D P L F E S V S Q I Q P
UniRef90_F4BPJ0     N I S T A S L K V M A G W G I D T I Y G I P S G T L A P L M E A L E T D I K F
UniRef90_O06335     T V G D H L V A R M R A A G I S V V C G L P T S R L D S L L V R L S R D F Q I
UniRef90_C3N921     N A G K I F L S L L K E S G I N E A L F I V S G T D Y A S L I E A D P L P D F
UniRef90_UPI0004765C9F A R V L V D E L V R C G L E E A V V A P G S R S T P L A L A L P S D I R V
UniRef90_G3EC51     S I S E Y L L A R L N Q L K V K T I F G V P G D F N L I E F L D Y I E P D F T W
UniRef90_B9S976     T L G G H L A R R L V E I G V K D V F S V P G D F N L T L L D H L E P E L N L
UniRef90_B0J1I8     G S I L V E T L A R L G L K I G V V S P G S R S T P L T I A L H P Q I E A
UniRef90_A4YFS0     N V A E S I F K T L S S S T T V Y G N P G T T E I S F L K Y L P S E F R Y
UniRef90_G4L5Z7     L K V L E E W G V Q D V F G I P A G S L N S L M D A F Q E N I N F

```



UniRef90_V8A665
UniRef90_S3CQB1
UniRef90_W4M855
UniRef90_F9YMZ0
UniRef90_F9F2Z2
UniRef90_D8J3M7
UniRef90_I4EJL2
UniRef90_G8PAU3
UniRef90_W7CIK9
UniRef90_B5JNX3
UniRef90_K2DHSV
UniRef90_F2RUL4
UniRef90_UPI00034BC2D7
UniRef90_Q09EA2
UniRef90_F8EBY6
UniRef90_Q09737
UniRef90_UPI0001FFE0B7
UniRef90_L0JLK6
UniRef90_UPI00023B23EB
UniRef90_D8J2U7
UniRef90_E3QLS8
UniRef90_M2MTI8
UniRef90_M3C9H8
UniRef90_UPI00046A3346
UniRef90_H2IEN1
UniRef90_F4RL41
UniRef90_H3K904
UniRef90_I2FFPY6
UniRef90_A6QYW4
UniRef90_U2TF92
UniRef90_B1N056
UniRef90_H1HQ36
UniRef90_A7NRP8
UniRef90_F5IT35
UniRef90_M7SGJ0
UniRef90_Q6C9L5
UniRef90_D5A2Q7
UniRef90_F5SQV4
UniRef90_L0DBG5
UniRef90_I8AKX9
UniRef90_M2RL26
UniRef90_UPI000472EA74
UniRef90_M1Y65
UniRef90_UPI00032A72D4
UniRef90_F9D620
UniRef90_UPI00037247FD
UniRef90_H8I142
UniRef90_D7IIV5
UniRef90_N8VIZ7
UniRef90_H6BX44
UniRef90_S3I373
UniRef90_Q3IQZ0
UniRef90_B8PAY6
UniRef90_F3ZPG0
UniRef90_E9PWM4
UniRef90_A0A016PD83
UniRef90_B7RRZ8
UniRef90_UPI0003B5E36A
UniRef90_Q26CK3
UniRef90_UPI00036D7B1D
UniRef90_M7SPK7
UniRef90_B5QKU0
UniRef90_UPI0003F7EC6F
UniRef90_A0A052IBR7
UniRef90_UPI00047EC64C
UniRef90_A3QCS9
UniRef90_R5AVJ0
UniRef90_M5RA48
UniRef90_R5MN12
UniRef90_A0A037ZK71
UniRef90_A7GU91
UniRef90_C4RM99
UniRef90_UPI00041D21DD
UniRef90_V2YJR7
UniRef90_B4W3U3
UniRef90_F4BPJ0
UniRef90_O06335
UniRef90_C3N921
UniRef90_UPI0004765C9F
UniRef90_G3EC51
UniRef90_B9S976
UniRef90_B0J1I8
UniRef90_A4YFS0
UniRef90_G4L5Z7

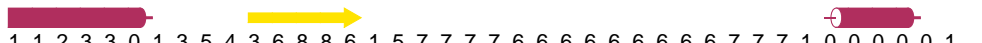
50 60 70 80
I S F R H E Q P A A H A A S I S G Y L T R K P G L C L T T S A P G F L N A L P A
V G N A N E L N A A Y A A D G Y S R L I K G S A V V T T F G V G G E L S A L N A
I M F R Q E N G A L M A A D G Y F R R L S N R K A F G V V I T Q P G G E N S M G N
V L G L Q E N V V T G M A D D G Y F R R L S N R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



UniRef90_V8A665
UniRef90_S3CQB1
UniRef90_W4M855
UniRef90_F9YMZ0
UniRef90_F9FZ22
UniRef90_D8J3M7
UniRef90_I4EJL2
UniRef90_G8PAU3
UniRef90_W7CIK9
UniRef90_B5JNX3
UniRef90_K2DHSV
UniRef90_F2RUL4
UniRef90_UPI00034BC2D7
UniRef90_Q09EA2
UniRef90_F8EBY6
UniRef90_Q09737
UniRef90_UPI0001FFE0B7
UniRef90_L0JLK6
UniRef90_UPI00023B23EB
UniRef90_D8J2U7
UniRef90_E3QLS8
UniRef90_M2MTI8
UniRef90_M3C9H8
UniRef90_UPI00046A3346
UniRef90_H2IEN1
UniRef90_F4RL41
UniRef90_H3K904
UniRef90_I2FFPY6
UniRef90_A6QYW4
UniRef90_U2TF92
UniRef90_B1N056
UniRef90_H1HQ36
UniRef90_A7NRP8
UniRef90_F5IT35
UniRef90_M7SGJ0
UniRef90_Q6C9L5
UniRef90_D5A2Q7
UniRef90_F5SQV4
UniRef90_L0DBG5
UniRef90_I8AKX9
UniRef90_M2RL26
UniRef90_UPI000472EA74
UniRef90_M1IY65
UniRef90_UPI00032A72D4
UniRef90_F9D620
UniRef90_UPI00037247FD
UniRef90_H8I142
UniRef90_D7IIV5
UniRef90_N8VIZ7
UniRef90_H6BX44
UniRef90_S3I373
UniRef90_Q3IQZ0
UniRef90_B8PAY6
UniRef90_F3ZPG0
UniRef90_E9PWW4
UniRef90_A0A016PD83
UniRef90_B7RRZ8
UniRef90_UPI0003B5E36A
UniRef90_Q26CK3
UniRef90_UPI00036D7B1D
UniRef90_M7SPK7
UniRef90_B5QKU0
UniRef90_UPI0003F7EC6F
UniRef90_A0A052IBR7
UniRef90_UPI00047EC64C
UniRef90_A3QCS9
UniRef90_R5AVJ0
UniRef90_M5RA48
UniRef90_R5MN12
UniRef90_A0A037ZK71
UniRef90_A7GU91
UniRef90_C4RM99
UniRef90_UPI00041D21DD
UniRef90_V2YJR7
UniRef90_B4W3U3
UniRef90_F4BPJ0
UniRef90_O06335
UniRef90_C3N921
UniRef90_UPI0004765C9F
UniRef90_G3EC51
UniRef90_B9S976
UniRef90_B0JII8
UniRef90_A4YFS0
UniRef90_G4L5Z7

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

lupas_21
lupas_14
lupas_28
jnet
conf



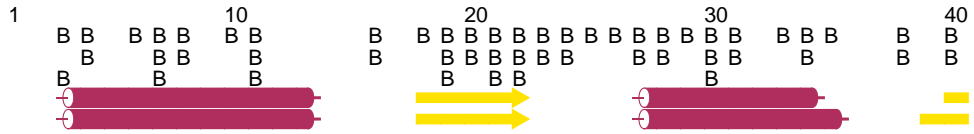
UniRef90_V8A665 F A K A A Y R V N R A A D G G V A 130 140 150 160
UniRef90_S3CQB1 V T A A Q T R L Y D P Q T S A E Q I D S V L Q Q L I H H R G V V Y L D L P A A
UniRef90_W4M855 V S T Y G E V L W K P E M T A S V M R A F H K L R N G R P G Q I A S L V E I P A D
UniRef90_F9YMZ0 S S E W H R F G T K P A S I G A D A M A G L K E A S F G Y G Q I A S L V L P A D
UniRef90_F9F2Z2 I T Q V Q E N L M D V S T A P A Q I D R A I I A C V R H K R P V V Y I Q L P A D
UniRef90_D8J3M7 V S K S C E Q L A D P R E A V S E T M R R A F S S A R N G R P R P S V V E V P K D
UniRef90_I4EJL2 Q V K W F V E V A M P R Y V R M L A G R A V A T A L A S G R S G P V V H L N F P F R
UniRef90_G8PAU3 V A V F N K Q V V S A Q Q I P Y V V D A A I R A A Y A N K G P A V V I I P D N
UniRef90_W7CIK9 H V K D F T D M E M L R F A K W H G S K A V D I A M N A P R G P V V H L N F P L R
UniRef90_B5JNX3 Y V R K Q V E V A M L R Y L R Q A V S H C T N L A I A P D R G P V V H L N V P F D
UniRef90_K2DHSV I T K Y A Q L I L N P E N L R K Y E L E K C V Y L M K E G R Q G P V V L L D
UniRef90_F2RUL4
UniRef90_UPI00034BC2D7 Y P V W T C E P A V P Q E V P G A L I A R A R F E A E H G R G P A I V V V P Q G
UniRef90_Q09EA2 V S R Y W D R I Q R P E Q I L S A L P E A M R V A D P A E T G A V T L C L P Q D
UniRef90_F8EBY6 L P A D Y A H P D A N W Y I E R V L N E A I N L S Q T A K G R P V V H I N V P I
UniRef90_Q09737 F M D M F K K V S A Y S I M I D N G N D A I D E A L S K K A R P V V Y I G I P S D
UniRef90_UPI0001FFE0B7 F A R A Y A E V T A A G A V L T A R D A A A R I A T A V R E R P V V Y L A V P V D
UniRef90_L0JLK6 A V R W Y T E L P E P E A D E R K V R A A R A L A E T G P P D G P V V H V N C P F R
UniRef90_UPI00023B23EB F S K F S A K A T D I S Q I P K S V R K V L D Q A L S G R P D G C Y F D L P T D
UniRef90_D8J2U7 A V R S Y R E L P E P A P E G R R L R R A L A E S T G T P A G P V V H I N A P F A
UniRef90_E3QLS8 F S N M S S Q L S C D V J A R L L N N P A E A N Q I D H S L R S R P V V Y I M L P T D
UniRef90_M2MTI8 F V K W D D Q P H S V N A A L A S V V H A T V A T S A K P C A P T Y V C F D L S
UniRef90_M3C9H8 F A M Y K H V T S D P R T A T A S L D A A L A Q C L L H S R P I Y L Q I P V D
UniRef90_UPI00046A3346 V T K W A T T V M E P G Q V P R A F Q K A F Y X A T G A E Y L D A P
UniRef90_H2IEN1 V S R Y W D R I T R P E Q Q L M S A M V N A M R V L T D A D T G A V T I C L P Q D
UniRef90_F4RL41 V T C A S S A L K T P K D A P D E I D R L L K A A L T E C R P V V Y L C L P P N
UniRef90_H3K904 V S K Y W D R I T R P E Q L M S A C I N A M R V L T D A D T G A V T I A L P Q D
UniRef90_I2FFPY6 F V N M S K E I S A D S A V L K Q K E A I R I L V S A K A R P V V Y L A L P T D
UniRef90_A6QYW4 F A E M S R R V T S C A V A I L D D Q S S A A M A C I L L K S R P V V Y L S L P T N
UniRef90_U2TF92 I T N F S S E L Q D P E N I S E L I A N A F A A N G A K G A F V S L P Q D
UniRef90_H1HQ36 S L P E S C D E E E H W Y C N R M L N E A M I A C M Q G S R G P V V H I N V P I
UniRef90_A7NRP8 F A R W S V D V A L P E A M P P V V A R A M A I A G G E P R G P V V H L N V P F R
UniRef90_F5IT35 L V K K S V N L P D T W F C N R L I N E A L I D C M T D A Q G P V V H I N V P T D
UniRef90_M7SGJ0 F A N M S A G V S C V J A R L N D A A E A L R E C Y L R S R P V V Y L M L P T D
UniRef90_Q6C9L5 I S E Y T H H I E D P S E A A D V I D T A I R I A Y T H Q R P V V Y I A V P S N
UniRef90_D5A2Q7 Y V R W K F D I P C P D E K I T T I D Q A V V R A Q R S P Q G P V V H L N C
UniRef90_F5SQV4 F I K M A E P V S V J A R A E I T A K N A A S E I M V L K K Q R P G Y L L L S P D
UniRef90_L0DBG5 L V K A L T E V R H Q A E I T G A T Y Q A F E I A R S G E R P G P V V G L M V A S F P
UniRef90_I8AKX9 F Q Q T Y E S L C A Y S V E I T P K N K A I A I A K H E R R P V V Y M K I A I D
UniRef90_M2RL26 Y M R Y T A Q I Q S G K T V A K T V L R A L Q F A Q S E P K G P V V Y L W A R R D
UniRef90_UPI000472EA74 V T K H N Y Q V R N V E D V P Q I V K E A F H I A S T G R M G P V V V I D L P K N
UniRef90_M1Y65 V T K A S F R I Y N S A S E A Q S T M E K A F R I A S L E D K M G P V V Y V E V P V D
UniRef90_UPI00032A72D4 V T C H Q A V I N H L E D A R E K I D T A I A I S L R E S K P V V Y I S I A C N
UniRef90_F9D620 A V K K S Y D V N T R V L C Q Q S R A R E A M L E L T H H T P G V Q L N I R I D D
UniRef90_UPI00037247FD V S R Y W D R I N R P E Q L P S A L L A A M R V L T D A E T G G A V T L A L P Q D
UniRef90_H8I142 Y A K W H M E V P R G R E L A P I V R R A F Q V A Q S S P S G P A Y V M L P R E
UniRef90_D7IIV5 H V K K S V N L P D F H C Q R V V N E A L L E L D H H G T G P V V H I N I P M
UniRef90_N8VIZ7 E F T V A Q T R L T P A N A V S E I D R V L K C I L M R R P V V H I Q L P S D
UniRef90_H6BX44 F A D M A S H I T D P R D I P G Q I D H A L R E C Y L K S R P V V Y I A L P T D
UniRef90_S3I373 G T R Y S A D I A A S A G A P I V I E R Q A L R D M L S I P R R A V R L N G I S D S
UniRef90_Q3IQZ0 A V R S Y R T L P E P E A A A R K L M R A W Q F A T S G P Q G P V V Y L W A R R E
UniRef90_B8PAY6 Y M R H T A Q L M S G K T T A K Q L M R A W Q F A T S G P Q G P V V Y L W A R R E
UniRef90_F3ZPG0 N L P E V K S D E D K W Y C N R L I N Q A L L E L Y H H G R G P V V H I N V P I
UniRef90_E9PWW4 Q A V R S S I Y G R P G A C Y I N D I P A D
UniRef90_A0A016PD83 F A A M H T H V T A A Q V C L T N G M T A I E Q A M V H Q R P V V Y L Q I P D D
UniRef90_B7RRZ8 F S D W V R S G R D A G S F A A N A M T A L A V A K G Q R G R I A T L V A P A D
UniRef90_UPI0003B5E36A V S V Y N R R V A Y P E Q L P K V L D E A I R T A Y A K K G V V A V E V P V D
UniRef90_Q26CK3 M I D D Q D D L E T I A T N E R L I N K A L N V A I T H H G P V H V N I P F E
UniRef90_UPI00036D7B1D V G A V S V L V R S A A T A L A D V R D A F T L Q A R R D R R T V V L R L P L D
UniRef90_M7SPK7 F A Q M H A H V R D P R T S P A Q I R D A V L Q Q C L I H S R P V V Y I E V P V D
UniRef90_B5QKU0 A A V Y A R T V T T A Q S L P H V I D E A I R R A Y A A H G A A I V V I P N D
UniRef90_UPI0003F7EC6F H V K W S V D F P T I P F V E R H T G R A V T M A K A A P L G P I H I N I P D A
UniRef90_A0A052IBR7 F I K W D A Q P A S I L G A Q E A I L R A R Q I A S T A P Q G P V V Y V C F D A A
UniRef90_UPI00047EC64C A A K W V R R V S E A D R V E D Y V D M A F T A A S G R P G P A V L V V P I D
UniRef90_A3QCS9 N L P I V K D N D V W E C E K I N Q A L E S C R H G G G P V V H I N L P
UniRef90_R5AVJ0 L V K A Y R V N K P W E D I P T A V V R A Y R A A S G R P G G V V Y L D M
UniRef90_M5RA48 Y V K W F V D M Q M L R Y A E M V A A R A V C V A T S V P A G P V V H I N V P
UniRef90_R5MN12 N L P E V T D E E S E W F C N R L I N E A L L E L N H H K G P V V H I N V P I
UniRef90_A0A037ZK71 V S A F S Q P V L S S S N H A E L T S L A M K N A L I H Q D V A H L I F P D D
UniRef90_A7GU91 M A L P E A R E P M Y Q Y V R M A A G R A V A S A S F A P M G P V V H M N F P
UniRef90_C4RM99 C N Q F V R Y G R T P A Q V S P A V L D Q A F R T A A A T R S P T C V V L P R E
UniRef90_UPI00041D21DD L P D Q T N Q A D L A W H S S R L V N E A L N V A M Q A P L G P V V H I N I P
UniRef90_V2YJR7 Y M R Q T T E T H S G K N I D Q V V N G A L Q I A R S D P K G P V V Y L
UniRef90_B4W3U3 A V D Y A A K R V T Q P E R F D E Y L K Q A L T A T A F E L R C P A F L S E I P L D
UniRef90_F4BPJ0 I A V Y N A K V A Y A E Q L P K L I D D A I R T A I S K R G V A V L S E V P G D
UniRef90_O06335 F C R C S V S I E S I A N A R S K I D S A F R A L A S I P R G P V V H I A L P R D
UniRef90_C3N921 Y V K Y D F E I R M A D Q I P A A L S R A Q I M M S E R P R G P V V Y L V L P R E
UniRef90_UPI0004765C9F A V R M F A E V G T P Y W R S L A C R A W S A S V D R R P G P V V H L N V A F R
UniRef90_G3EC51 F E D M S A K I S A H T G K L T R A E N A T K V A L R E C R P V V Y L T F P T D
UniRef90_B9S976 V T C I Q A A V N N L N D A H E Q I D T A L S T A L K E N K P A Y I S I P L
UniRef90_B0J18 I S C P S A N I E R L R Y L R Q T I I H A W W R C L D P V P V V H L N I P F R
UniRef90_A4YFS0 Y A K D V I E V R R K E E V S K A L I R G I K T A V S L P P G P V V I L G L P Y D
UniRef90_G4L5Z7 V A V Y N R R V A Y P E Q L P K V L D E G I R A A I A N N G V A A V E V P V D

lupas_21
lupas_14
lupas_28
jnet
conf

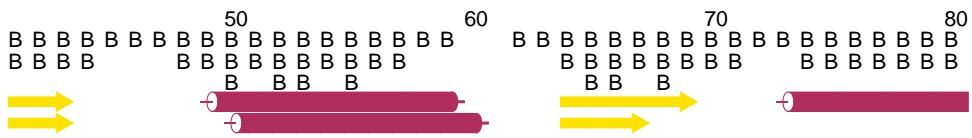


UniRef90_V8A665 V L S E T L D
UniRef90_S3CQB1 L V A V P L S T E R L A I P
UniRef90_W4M855 V S T Q E V P E S S
UniRef90_F9YMZ0 V S W S E
UniRef90_F9F2Z2 M V D A K V P S A P L
UniRef90_D8J3M7 V F Y T D L E E E
UniRef90_I4EJL2 L V P L P V D P D A
UniRef90_G8PAU3 L S G Q E I D Y S P L
UniRef90_W7CIK9 E P L M P L L E P S P F A V R R H V
UniRef90_B5JNX3 G F A S P F D E E S Y E A F F A H L E S
UniRef90_K2DHSV
UniRef90_F2RUL4
UniRef90_UPI00034BC2D7 D W S A P A G G A G H P A P A R V V R S
UniRef90_Q09EA2 V Q A E A F D P A H F L Q E R
UniRef90_F8EBY6 R E P F Y P L A D E T Y D R H V
UniRef90_Q09737
UniRef90_UPI0001FFE0B7
UniRef90_L0JLK6 K P L E P I E V P
UniRef90_UPI00023B23EB V L H Q T V
UniRef90_D8J2U7 K P L E P T E T D P A D F P R R R P T A
UniRef90_E3QLS8 M V Q K K V E G E R L Q T P
UniRef90_M2MT18 L Q E D E I D P E T V H L P D T E
UniRef90_M3C9H8 M V A V P V S S A T L E T P
UniRef90_UPI00046A3346
UniRef90_H2IEN1 V Q G E A Y D F P E Y H R I E R R P A T
UniRef90_F4RL41 L V D A K I P A
UniRef90_H3K904 V E G E A Y D Y P E Y H R I D R R P A T
UniRef90_I2FPY6 L V H A T I P A D A L
UniRef90_A6QYW4 M V Q A K V D
UniRef90_U2TF92 V E G E A W D Y P E Y F F K K R
UniRef90_B1N056 V D D A P V T I D A L P Q V P
UniRef90_H1HQ36
UniRef90_A7NRP8 P P L E P T P M P
UniRef90_F5IT35 S E P L F D Y S V
UniRef90_M7SGJ0 I V G K K V E
UniRef90_Q6C9L5 F S E V D I A D Q A
UniRef90_D5A2Q7 M F R E P L A P
UniRef90_F5SQV4 I A K L P I Y P P T T K L K D
UniRef90_L0DBG5 F F N E V W D Y D
UniRef90_I8AKX9 D V T K T I
UniRef90_M2RL26 V M E E D L D E
UniRef90_UPI000472EA74 M M V E K
UniRef90_M1IY65 V L E D S T D I E
UniRef90_UPI00032A72D4 L S T I P H P S F I H H S I P
UniRef90_F9D620
UniRef90_UPI00037247FD V Q A E A Y D W P D E L F A R R H V P
UniRef90_H8I142 A L M E P
UniRef90_D7IIV5
UniRef90_N8VIZ7 I T H L Q I K V P K Q P L D L S R P Q S
UniRef90_H6BX44 M V K K K V E G E
UniRef90_S3I373 V A S A K I D D E D P F V A P R P P A
UniRef90_Q3IQZ0 K P L E P L A A A E P P
UniRef90_B8PAY6 T L Q E E V
UniRef90_F3ZPG0
UniRef90_E9PWM4 F V T L Q A
UniRef90_A0A016PD83 M V Q L P I
UniRef90_B7RRZ8 I L A E V I A P K G P V P L D D H
UniRef90_UPI0003B5E36A F G W A K I D
UniRef90_Q26CK3 V Q Q P Q V D P K V L E P
UniRef90_UPI00036D7B1D I Q N A P F D E
UniRef90_M7SPK7 L V A A T V
UniRef90_B5QKU0 L A A E L I P A
UniRef90_UPI0003F7EC6F
UniRef90_A0A052IBR7 L Q E S R L A Q Q P A R L P S R Y L P
UniRef90_UPI00047EC64C M F L E T P Q A V T P R R A S
UniRef90_A3QCS9
UniRef90_R5AVJ0
UniRef90_M5RA48
UniRef90_R5MN12
UniRef90_A0A037ZK71 V Q T L P S E Q P A A L P E G R V A A
UniRef90_A7GU91
UniRef90_C4RM99 V Q V A S V P D L V A Q F A
UniRef90_UPI00041D21DD L R E P F Y P P K E E V I
UniRef90_V2YJR7
UniRef90_B4W3U3 V Q Q A V Y S P K K P
UniRef90_F4BPJ0 F G Y H E I D Y S S G H S F R D Y V S S
UniRef90_O06335 L V D E
UniRef90_C3N921 V S I Q E V N E V K R L P M D Y Y E P A
UniRef90_UPI0004765C9F D P L T P D G P S P V P
UniRef90_G3EC51 L F H V K I S S A A L
UniRef90_B9S976
UniRef90_B0JII8 D P L A P T P
UniRef90_A4YFS0 I M E E E I
UniRef90_G4L5Z7 F G W E Q L D T A T

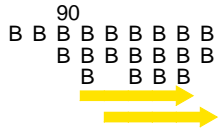
sol25
 sol5
 sol0
 jhmm
 jpssm



sol25
sol5
sol0
jhmm
jpssm



sol25
sol5
sol0
jhmm
jpssm



B B B B B
B B

90
B B B B B B B B B
B B B B B B B
B B B B

100 B B

110 B B B B

B B B B

120

sol25
sol5
sol0
jhmm
jpssm

