Unimensio Diplogosasia hasis K V V V S S O G N S C N		
UNRESPO NOT SORPHYS UNRESPO N	QUERY	PKALI VYGSTTGNTEYTAETIJAROLANAGYEVDSRDAASV
UNRESPO NOT SORPHYS UNRESPO N	UniRef90_UPI000381A159 UniRef90_UPI00036A9C6B UniRef90_UPI0004722126	K D V T V L Y G S Q T G N S E T L A E E L S A K L K A Q D F N V T L S S M D D F K E V T V L F G S Q T G N A Q G L S K K L A Q Q L T S Q G F D V T L S S M G D Y L T V L Y G S Q T G N A E R V A E Q A A E H A K A R G F T T R L V D M A D I
Unicagio Upino 474404	UniRef90_W4PYR2 UniRef90_A0A059NYT3	KEVTILYGSQTGNAEGVATACAARLQQAGHEVRLVEMDSY KEVTILYGSQTGNSQNLAKSTEKKLKEQGFDVKVSSMSDF VTILYGSHTGNCQGLAEEFTQHLKDKGFTVKLSDMDDY
Unicago Di Unicago Carlo	UniRef90_M1AYF7 UniRef90_U5UQ28	KKLLILYASETGNALDAAERLGREAERRGOPVLLLSVDDF
UNINCERIO JUNINGERIO J	UniRef90_H0E6V6 UniRef90_UPI00047C4CAA	LTVLFGTDTGNSKELAGQLADAVRPHGIEAKVVDMADY ATVLYGSQTGNSHKLATKLSKKLTDQGVQTTLSSMSDF KNLVVEYGSQTGNSHKLATKLSKKLTDQGVQTTLSSMSDF
UNINGRIGO JORDOSCACDAA VI VI VI VI VI VI VI V	UniRef90_A0A059FIB3 UniRef90_UPI0003702B35	KLAILF GSET GNA A EVARSLE A KAQQA GÜVPSÜQD MA DY VTVLF GSQT GNCQRLASGLSRKLE EQGF QVT T MA MNSF KLLVLY ASQT GNALDAAERI GREAERR GCAASVVST DEF
Unimerso 2-3-Mins 9	UniRef90_L8J3E2 UniRef90_J3DA01 UniRef90_P18086	KLTIIIYASQTGNAKGVAQALKEEADAAGVAVELFAAGDY PAVTLLWASQTGNAETLAERLAARLRDGGFAVELSAMADF KSLIVYGSTTGNTETAAEYVAEAFENKELDVELKNVTDV
UNIRGEDU CASCAPI UNIRGEDU CAS	UniRef90_UPI00047680D0 UniRef90_UPI0002EACDAA UniRef90_Z5XM69	V
UNIRGESO GSRY3 UNIRGESO GSRY3	UniRef90_G0SZ04 UniRef90_A0A023FK14	KKCVI FYGSQTGTAEDYGTRI AKEIKSRGI SSLVCDPEDY
UNIRGE90 UPIN004550338 UNIRGE90 MSD	UniRef90_V9ZUN7 UniRef90_Q5KIY3	KRCVI FY GSQT GNAK GVASAL QAQAEAR GLPVTLT SMADY KRCVI FY GSQT GTAEEYALRLAK EAK SRGL SSL VC DPEEY VTI LY GSET GNGET LAK DLGEKVESR DF KVTI SSMDNF
UNIRGE90 _UPI000284538	UniRef90_G7GRH3 UniRef90_UPI0004560338 UniRef90_Q1IDH0	L L I VY G T Q T G N A E Y V A E Q V E T A A A E H G F A A E T K D M G D M K R L A I F Y G S Q T G T A E E Y A T K L A K E A K A R G T S S L V C D P E E Y V V W A S Q T G N S E T L A E R C A Q H L R E A G L P V R L S C M D A L
UNIREGIO J-P100021476AB K	UniRef90_H4EAV1 UniRef90_M5N8U1 UniRef90_S9RKQ5	V T V L Y G S E S G N A M R L A E L F S E R L S D L G H Q V V L M S M D E Y K L T I I F A S Q T G N A K G V A Q A L L K E A Q A E G L N A Q L F D A S D Y K P L Y V L Y G S E T G T A E E L S E R L Y R N L L R L G Y R V V T L P M D E F
UNIRE/90_U1L12 UNIRE/90_U1L12 UNIRE/90_U1U00262806A UNIRE/90_U1D000262806A UNIRE/90_U1D0002678085B UNIRE/90_U1D0003656006 UNIRE/90_U1D0003656006 UNIRE/90_U1D0003656006 UNIRE/90_U1D0003656006 UNIRE/90_U1D00036628060	UniRef90_UPI00021A76AB UniRef90_R7ZJR9	KEVILLI V G S E I G I A Q D V A E Q I W K I A K R K G L E S S V F A M N D Y
UNIRE/90_U1L12 UNIRE/90_U1L12 UNIRE/90_U1U00262806A UNIRE/90_U1D000262806A UNIRE/90_U1D0002678085B UNIRE/90_U1D0003656006 UNIRE/90_U1D0003656006 UNIRE/90_U1D0003656006 UNIRE/90_U1D0003656006 UNIRE/90_U1D00036628068 UNIRE/90_U1D000362628086 UNIRE/90_U1D000362628086 UNIRE/90_U1D000362628086 UNIRE/90_U1D000362628086 UNIRE/90_U1D000362628086 UNIRE/90_U1D000362628086 UNIRE/90_U1D00036628086	UniRef90_T1LR36 UniRef90_I1NRG5	RLVILYASQTGNALDAAERVGREAEHGGCPVDVLSMDSF RLLVIYASETGNAMDAAERVGREAERGGCPVDVLPMDSF PSILTVIYGSQTGNSEGNAEMUGDQANAUGUNARAVDMADE
UniRef90_VSASD3	UniRef90_G5JKG4 UniRef90_U4L503 UniRef90_I0JLL2	KNMVILYGSQTGTAEDYASRLAKEGSARGLKTMVADLEDY
UniRef90_S8EQ94 UniRef90_H1V6A3 UniRef90_H1V6A3 UniRef90_L5N636 UniRef90_A0PNS8 UniRef90_A0PNS8 UniRef90_W5TKF6 UniRef90_W5TKF6 UniRef90_W5TKF6 UniRef90_W5TKF6 UniRef90_W7LTU7 UniRef90_W7LTU7 UniRef90_W7LTU7 UniRef90_W7LTU7 UniRef90_H2YB52 UniRef90_P19618 UniRef90_UP10003679B5B UniRef90_UP100037F4C94 UniRef90_V5CAF5 UniRef90_V5CAF5 UniRef90_UP100037F4C94 UniRef90_U	UniRef90_UPI000262806A UniRef90_V5ASD3 UniRef90_F2SI13	KEVCVLFGSQTGTAEMFAKTLVREGTQLGVPLRICDTENY
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UniRef90_S8EQ94 UniRef90_H1V6A3 UniRef90_H1V6A3 UniRef90_L5N636 UniRef90_A0PNS8 UniRef90_A0PNS8 UniRef90_W5TKF6 UniRef90_W5TKF6 UniRef90_W5TKF6 UniRef90_W5TKF6 UniRef90_W7LTU7 UniRef90_W7LTU7 UniRef90_W7LTU7 UniRef90_W7LTU7 UniRef90_H2YB52 UniRef90_P19618 UniRef90_UP10003679B5B UniRef90_UP100037F4C94 UniRef90_V5CAF5 UniRef90_V5CAF5 UniRef90_UP100037F4C94 UniRef90_U	UniRef90_F4GV72 UniRef90_F0FVQ0	PKVVLVASQSGIGERLAKKVAKELKAKGHIAKLSSLDVY PKVVLLWASQTGNAKRVAESLAERAGGQGLNIRLVRADSY PKVVLLWASQTGNIESLTEDYATQLMNAGFEIRTACMSDY
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UniRef90_F0ESU3 UniRef90_H2YB52 UniRef90_UP19618 UniRef90_UP10003679B5B UniRef90_UP100037F4C94 UniRef90_A7ETE7 UniRef90_UP100035F6D66 UniRef90_UP10003B56D66	UniRef90_A0PNS8 UniRef90_H9GJF6 UniRef90_W5TKF6	PPL V V L WA S Q T G T A E E L A A S V A A Q L S A A E L P V V L H G M D E F K M L V L F G S Q T G T A Q D A A E R V G R E A K R H R F Q C K V E A L D D Y L V V L WA S Q T G N A E D F A T T L V S D L T E S G H K P T V L G M D E A
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UniRef90_UPI000362E0B6 I S L V Y G T E T G N A K K L A T Q L A G L A K K K G I MV K L T G L D Q Y	UniRef90_F0E303 UniRef90_H2YB52 UniRef90_P19618 UniRef90_UPI0003679B5B	K L TV L Y G S Q T G Q A E E L A T Q L H E D A V F N G Y D V D L H C L K D A L V V F Y G S Q T G T G E E F A N R L S K D A H R Y G M G S M A A D P E E Y T L L Y G S Q T G N S K A L A E K L H Q A F K A S G L A S S L K S L R D Y
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UniRef90_UPI00047EE0F6 RLTIVYGSQTGNARRAAERVVARLGDTGLDVRLVNAADY UniRef90_V5HRG0 AIVLYGSETGNAQEVAEELGRLVERLHFSTHVAELNEV	UniRef90_E9ED08 UniRef90_UPI000362E0B6	I SL V Y G T E T G N A K K L A T QL A GL A K K K G I M V K L T G L D Q Y
UniRef90_K5X0H3	UniRef90_UPI00047EE0F6 UniRef90_V5HRG0 UniRef90_K5X0H3	RILTI VYGSQTGNARRAAERVVIARLGDTGLDVIRLVNAADY AI VLYGSETGNAQEVIAEELGR <u>LV</u> ERL <u>H</u> FSTHVAELNEV RILLLEATETGTAODUADRUARESRNULEKSOVVISVD <mark>O</mark> V
UniRef90_12J113	UniRef90_I2JTT3 UniRef90_M5EBQ5 UniRef90_Q1JPJ0 UniRef90_F9WC78	KILILYGSETGNAQDYAETLSLTYRYQGYQATVSAMDDL KRLVIFFGSQTGTAEEYALRIAREAKSRGTSALVLDPENE RLLVLFGSQTGTAQDVSERLGREARRQLSCRVEELDSY

QUERY UniRef90_UPI000381A159	50 60 70 80 E A G G L F E G F D L V L L G C S T W G D D S I E L Q D D F I P L F D S L E E T K P K N I K N L D H L F V V V S T H G E G D P P D T A L S F Y E F L H G K K A P
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UniRef90_H2N0W1 UniRef90_G7EAE6 UniRef90_J0DCY0 UniRef90_E8X512	AVADLIAESLVVFVCSTAGQGEPPDNMKNFWRFLFRKSLPDKSEVLEEQWIIFVAATSGQGQEPSNMRSFWQFLLRSDLPDFDNLDQIPEDSCAIFVVATYGEGEPTDNSVQLLQNLSDDPVHELAVEECAVIVASTYGEGDPPDGVKGFFDSLCAEGAP
UniRef90_F4GV72 UniRef90_F0FVQ0 UniRef90_G3IXM7 UniRef90_E4T7I7	PVHELAVEECAVIVASTYGEGDPPDGVKGFFDSLCAEGAPTTRELKDEQLLYIVMSTQGDGDPPDDSLSFVEFLDSRRAPPVASLAGAQYMLLMTSTFGDGDPPDNGREFSDALHDASAAKLPQLKAEKNLLVIVSTYGEGEPPDNARELVEYLFSKRAPKVRDLQSEKNLLVIVISTHGEGVPPFAARELHEFILYSKRAPKVRDLQSEKNLLVIVISTHGEGVPPFAARELHEFILYSKRAP
UniRef90_B1HXC0 UniRef90_I1CQW0 UniRef90_S8EQ94 UniRef90_H1V6A3	K L P Q L K A E K N L L V I V S T Y G E G E P P D N A R E L V E Y L F S K R A P K V R D L Q S E K N L L V I V S T H G E G V P P F A A R E L H E F I Y S K R A P K A S N L K K I T N L L L I V S T H G E G D P P D Q A I Q F Y E F L H S K R A P E Q A P L Q T T D L L L L V C S N T G D G D A P D N S L K F W K F L R R N K D K D F E K L P E D C C V F F V V A T Y G E G E P T D N A V T L C Q N L S D D S F E Q L S T L L Q Y T L V V L V I S T T G Q G D M P R N S G T F W R S L L R K K L P C C N R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D M P R N S G T F W R S L L R K K L P C C S N T G D G D M P R N S G T F W R S L L R K K L P C C S N T G D M P R N S G T F W R S L L R K K L P C C S N T G D M P R N S G T F W R S L L R K K L P C C S N T G D M P R N S G T F W R S L L R K K L P C C S N T G D M P R N S G T F W R S L L R K K L P C C S N T G D M P R N S G T F W R S L L R K K L P C C S N T G T G T T T T C T T T T G T T T T T T
UniRef90_L5N636 UniRef90_A0PNS8 UniRef90_H9GJF6	AVADL VST QRL LIVTSTTGDGEPPDNGAAFWREL CAPTAP
UniRef90_W5TKF6 UniRef90_F4PE90 UniRef90_H3F6Y6 UniRef90_W7LTU7	A A D A L P K Q A D L L V V S S T F G D G E A P D N G A A F W D S L N A L P D G N K A L L P N E S L V L F V C S V T G Q G E E P D N M K R F W K F L L R K N L P D I E S L P S E R A V L F V M A T S G Q G E F P P T A R A S W R W M L R K S H R D Y N D L S E L S E Q V V L M F V L A T Y G E G E P T D N A Q D F Y T E Q P D V
UniRef90_F0ESU3 UniRef90_H2YB52 UniRef90_P19618 UniRef90_UP10003679B5B	DYNDLSELSEQVVLMFVLATYGEGEPTDNAQDFYTEQPDVKAKTIADEKYLLVTSTQGEGEPPEEGVVLHKLLNGKKAPGKFDISQITCAVFVCSTTGDGDPPENARKFLRTLSRKTLDMSELSRGNSLAIFCMATYGEGDPTDNAQDFYDWLQETDGRPQHLKKEQRVVFVVSTHGNGEPPDDARTFFQFINNERAPTTRELKDEQLLYIVISTQGDGEPPDDSIGFVEFLGSRRAP
UniRef90_UPI00037F4C94 UniRef90_V5CAF5 UniRef90_A7ETE7	TTRELKDEQLLYIVISTQGDGEPPDDSIGFVEFLGSRRAPKFKQIAQERLLVIVASTQGEGDPAEEAVALHKYLHSKKAPDFDNLDTLGDDKVAIFVLATYGEGEPTDNAVDFYEFFMNEEYEEKMKKETLALFFMATYGDGEPTDNAARFFKWFKEREN
UniRef90_M0S2F4 UniRef90_UPI0003B56D06 UniRef90_I0H271 UniRef90_W9CIH5	K T K N M K K V E N L L V I V I S T H G E G D P P D N A I L S F H E F L I N G R K A P A A E L L E P G A D L L V T S T F G D G D A P D N G A A F W Q S L A G D A A P D I I R E L S K Y D E V L E T L S T T G O G F F P K N S R K F W N N L L K K R I P
UniRef90_M1ZMI3 UniRef90_A4CFU2 UniRef90_UPI00035C9490 UniRef90_E9ED08	DIVS QLIPME KIV V LIFV VISTI GQGE MPPNMRKI WKILL LIRK SILIG KPNSLIKKE KFLITI V VISTYGE GEPPEDAENLIHEFILIGS KKAP TPARILAPGTDILLI VITSTEGDGDAPDNGADE WOALLAAPDTG
UniRef90_UPI000362E0B6 UniRef90_Q4SRM0 UniRef90_UPI00047EE0F6	NLNELLQHQFVLFVISTTGQGDMPHNSLLFWKKLLRKKLPRFTDLPKEEYFFVVISTQGEGEPPILAKKFYDYIHEN QLNVANLISENLVVFVCSTTGQGDPPDNMKNFWRFIFKKSLPPLRDLKSETLLLVVISTQGDGDPPDDSRAFVEHVLGPRAP
UniRef90_V5HRG0 UniRef90_K5X0H3 UniRef90_I2JTT3 UniRef90_M5EBQ5	PLRDLKSETLLLVVISTQGDGDPPDDSRAFVEHVLGPRAPKADTLSSYALTIIAVSTTGQGDFPANARSFWRTLLLKRLPTLENLVEEDFVIFVVSTTGSGVEPRAMTPMWNMLLSANLPPAKDLLDYHVLLVICSTTGQGELPRAMTPMWNMLLSANLPPAKDLLDYHVLLVICSTTGQGELPRAMTPWNMMEFLKSLPEMDKLDLVPEDGVVVFVMATYGEGDPTDNAVNMMEFLKSPPVVNLLNEPLVIFVCATTGQGDPPDNMKSFWRFIFRRSLP
UniRef90_Q1JPJ0 UniRef90_F9WC78	PVVNLINEPLVI FVCATTGQGDPPDNMKSFWRFI FRRSLPRSDISGEKCAI I VCATYGDGEPTDSMLAFHEWLMDESRT

QUERY	120 V
UniRef90_UPI000381A159 UniRef90_UPI00036A9C6B UniRef90_UPI0004722126 UniRef90_UPI0004782774	K L D G L N Y S V L A L G D S S Y E Y Y C Q T G K D F D K R L E E L G A S R L T Q L A D A K Y A V L G L G D T S Y E F F C Q T A K D F D K R L E E L G A E R I V K L D G S H F A V L G L G D S S Y E F F C E M G K R T D K R F A E L G A Q R I H K L T G V R Y A V L G M G D S S Y E Q F C G F G R L L D A R L T Q L G A E R L C
UniRef90_W4PYR2 UniRef90_A0A059NYT3 UniRef90_UPI0002DAC8F4	KLTGVRYAVLGMGDSSYEQFCGFGRLLDARLTQLGAERLCKLNDLRYSVLSLGDSSYEFFCQTGKEFDQKLEELGATRLHKLDGVRYSVLALGDSSYEFFCQTGKEDERLAELGAERIHKLDKLQYAVIGLGDSSYEFFCQTGKDFDAFLSKQGAKAIV
UniRef90_M1AYF7 UniRef90_U5UQ28 UniRef90_H8GK75 UniRef90_H0E6V6	KLDKLQYAVIGLGDSSYEFFCQTGKDFDAFLSKQGAKAIVQNWRVNYAVFGLGDSGYQKYNFVAKKLDKRLSDLGATAVVKLEGVRFSVLALGDGSYEYFCQAGKDFDFKLAELGAERLYRLEKLQYSVLALGDTSYDLFCQAGKDFDFKLAELGAKRVYKLPGVRFAVLALGDTSYDLFCQAGKDWDERLAELGAKRVYKLPGVRFAVLALGDTSYEFFCQTGKDFDKKLEELGGKRLQLDDLRFSVLALGDTSYEFFCQTGKDFDKKLEELGGKRLV
UniRef90_UPI00047C4CAA UniRef90_V9KCB0 UniRef90_ADA059FIB3	KLPGVRFAVLALGDSTYEHYCSAGRQVDERLEELGAERLA QLDDLRFSVLALGDTSYEFFCQTGKDFDKKLEELGGKRLV DLSGVKYTVFGLGNKTYEHFNAMGKYLDKRLEELGAERIF TLGDTRFSVLALGDSTYEFYCQAGKQLDSRFAALGAKQIL QLGHLRYSVLALGDTSYEFFCQTGKDFDQKLEELGGARIS
UniRef90_UPI0003702B35 UniRef90_Q1KUY9 UniRef90_L8J3E2 UniRef90_J3DA01	QL G H L R Y S V L A L G D T S Y E F F C Q T G K D F D Q K L E E L G G Q R L S K T W L Q G V R C F G L G D S G Y Q K Y N F V A K K L D K R L S D L G A T A L I K L P N L K Y A V I G L G D S S Y E F F C Q T A K D F D G F L S K L G A E P M L R L E S L R F A V L A L G D P A Y D R F C Q H G K Q L D E R L Q E L G A T R L L
UniRef90_P18086 UniRef90_UPI00047680D0 UniRef90_UPI0002EACDAA	DLKGKKVSVFG <mark>C</mark> GDSDYTYFCGAVDALEEKLEKMGAVVIG QLDTVNFAVLALGDQDFPDFCQAGKDFDHILDELGANRIA AKLPNLKYGVIGLGDSSYEFFCQTGKDFDAFLSKQGATPFI
UniRef90_Z5XM69 UniRef90_E1VH81 UniRef90_G0SZ04 UniRef90_A0A023FK14	K L D G V K V A V I G L G D S S Y E F F C Q T A K D F E E R F N K L G A E T I F K L D T L Q Y A V L A L G D S S Y P D F C G V G R K I D E R L A A L G A K R I H P Q F S N R Y V I F G L G N S T Y E H F N A V S R N L D A R L T E L G A H R V G D L P G V N Y A V F A L G N K T Y E H F N A M G K Y V D K R M E E L S A T R V F
UniRef90_H2T154 UniRef90_V9ZUN7 UniRef90_Q5KIY3 UniRef90_Q8EQP1	DLPGVNYAVFALGNKTYEHFNAMGKYVDKRMEELSATRVFELSGLNYTVFALGNKTYEHYNAMGKYVDKRLEELGAKRIFKLEGLKFAVLGLGDSSYEFFCQTGKDFDDFLSKAGAERIHESQGNYVIFGLGNRTYEFYNEVAKKLDKRLTELGAKRIGKKDVRFSVLSLGDQSYEFFCQTGKEFDNRLEELGGDRLYRLDGAFFGVAKKLDKRLTELGATRVIRLDGAFFGVAKKLDKRLTELGATRVI
UniRef90_G7GRH3 UniRef90_UPI0004560338 UniRef90_Q1IDH0	RLDGAFFGVVALGDSTYDGFCQAGKNFDARLAELGATRVT DVQFSNYVIFGLGNRTYEHYNALARKLDARLESLGAKRIG HCATLPYAVLALGDSSYDQFCGFGRKLDQRLAELGARRLL
UniRef90_H4EAV1 UniRef90_M5N8U1 UniRef90_S9RKQ5 UniRef90_UPI0002884538	N L N H V R Y S V L A L G D Q T Y E F F C Q A G K D V D V L L E N L G A E R I C K L P N L K Y G V L G L G D S S Y E F F C Q S G K D F D Q F L E N L G A Q R F V M N D D M Q Y A V F G C G D T S Y V R Y N W A S K K L D S R L R Q L G A Q S F C R L E G R R Y A V L A F G D S S Y D D F C G H G R R L D D R M D E L G A V R L A
UniRef90_UPI00021A76AB UniRef90_R7ZJR9 UniRef90_UPI000359C6E1	TTSDVKYGILGLGDSSYQKFNFAAKKLNRRIIMQLGAEELL NLEHLHYSVLALGDSSYEFFCKTGQDFDEQFEKLRATRIA DLSGIRYSVFGLGNKTYEHYNSMGKFVDKRLGELGGERVF
UniRef90_T1LR36 UniRef90_I1NRG5 UniRef90_UPI000347CA9D UniRef90_G5JKG4	ARWLKHYAMFGLGDSSYREYNFPAIKLDQRLFDLGAKRITARWGVRYAVFGLGDSGYQKYNFAAKKLDKRLLHLGAEPIISLKHLKYGVLALGDTSYEHYCQTGKDFDEAFARLGGTALVRLDHVSFSVLALGDTYEFFCQAGKDADTGLEKLGAQRLY
UniRef90_U4L503 UniRef90_I0JLL2 UniRef90_UPI000262806A	EPNFSKYVTFGLGNNTYEHYNAMÜRRÜDESLTKLGARRIG KLDGVRFSVLSLGDSSYEFFCQTGKDLDQKLEELGAERIY KLEDVRFSVLSLGDESYEFFCQTGKDFDKRLEELGGERLY
UniRef90_V5ASD3 UniRef90_F2SI13 UniRef90_H2N0W1 UniRef90_G7EAE6	PDRNVKYAVFGLGDRQYRYFCEEGIVVDRRMAELGAQRIYDASFMRYVAFGLGNNTYEHYNAMVRIVDKALTKCGAKRIGSLSRLDCAVLGLGDSSYPKFNFVAKKLHKRLQLGANMLMAQDQLRFTVFGLGDSSYSKYNWPARKLWNRLLMLGAVPFH
UniRef90_J0DCY0 UniRef90_E8X512 UniRef90_F4GV72 UniRef90_F0FVQ0	S F A F S N G D H F G L G N R T Y E H Y N A M A R K V D A C L E A A G G K R I G R L E R L E Y S V L A L G D S H Y E H F C K F G V D L D E R L Q D L G A K R S I K L P Q L K Y A V L G L G D S S Y P D F C G L A Q R I D A R L Q E L G A T R L H C C C C C C C C C C C C C C C C C C
UniRef90_G3IXM7 UniRef90_E4T7I7 UniRef90_B1HXC0	SLKQVQFAVLGLGDSGYEFFCKTGVDFDRRLEALGATRIH KLENTTFAVLALGDSSYFQFCKTGKDFDEQLEKLGAKRLV KLEHLQYSVLALGDSSYEFFCKTGKDFDEQFAKLGATRMV
UniRef90_I1CQW0 UniRef90_S8EQ94 UniRef90_H1V6A3 UniRef90_L5N636	T Y F K H A K F T V G L G D S N Y S N F N N T G K R L E K K L K D L G A T V F Y F S N G E H Y V I F G L G N K T Y E H Y N L I A K N V D R D L Q K M G A I R I G S G C A V R F T T F G L G D S M Y I K F N W A A R K L H K R L E Q L G A V E F Y K I E G V R Y S V L A L G D S S Y D L F C F T G K V L D F K L A F L G A F R M Y
UniRef90_A0PNS8 UniRef90_H9GJF6 UniRef90_W5TKF6	SLAGTRYSVLALGDSNYADFCGHGRALDHRLAELGASRIT SLCQMDYAVLGLGDSSYPKFNFVAKKLHKRLLQLGGHPLT ALTGTRFAVLAFGDSNYDDFCGHGRKLDERLATLGATRIL
UniRef90_F4PE90 UniRef90_H3F6Y6 UniRef90_W7LTU7 UniRef90_F0ESU3	D A S F M R Y V A F G L G N N T Y E H Y N A M Y R I V D K A L T K C G A K R I G S L S R L D C A V L G L G D S S Y P K F N F V A K K L H K R L L Q L G A N M L M A Q D Q L R F T V F G L G D S S Y S K Y N W P A R K L W N R L L M L G A V P F H S F A F S N G D H F G L G N R T Y E H Y N A M A R K V D A C L E A A G G K R S I K P Q L K Y A V L G L G D S S Y P L F C K F G V D L D E R L Q D L G A K R S I K P Q L K Y A V L A L G D S S Y P L F C G G H G R R L D A R L A E L G A T R L C S L K Q V Q F A V L G L G D S S Y F Q F C K T G K D F D E Q L E K L G A K R L V K L E N T T F A V L A L G D S S Y F E F C K T G K D F D E Q L E K L G A T R L W L E N T T F A V L A L G D S S Y F E F C K T G K D F D E Q L E K K L G A T R M V T Y F K H A K F T V G L G D S S Y E F F C K T G K D F D E Q L E K K L G A T R M V T Y F K H A K F T V G L G D S S Y E F F C K T G K D F D E Q L E K K L G A T R M Y T Y F K H A K F T T F G L G D S S Y F R N N T G K R L E K K L K D L G A T R M Y T Y F K H A K F T T F G L G D S S Y P K F N F N N T G K R L E K K L A E L G A S R M Y S L A L G D S S Y P K F N F V A K K L H K R L L Q L G A S R M T T Y E H Y N L A L G D S S Y P K F N F V A K K L D E R L A T L G A T R L L C C C G M D Y A V L G L G D S S Y P K F N F V A K K L D E R L A T L G A T R L L C C C G M D Y A V L G L G D S S Y P K F N F V A K K L D E R L A T L G A T R L L N D Q K V Q F G V F G L G D S S Y P K F N F P A K K L D E R L A T L G A T R L L N D Q K V Q F G V F G L G D S S Y P K F N F P A K K L D E R L A T L G A T R L L N D Q K V Q F G V F G L G D S S Y P K F N F P A K K L D E R L A T L G A T R L F S K D H L S H L K Y G L G D S S Y P N F C G G P K K L E R V L I N L G A K Q I H Q L S G V N Y P A V P A L G D S S Y P N F C G G P K K L E R V L I N L G A K R V F C C C C C C C C C C C C C C C C C C
UniRef90_H2YB52 UniRef90_P19618 UniRef90_UPI0003679B5B UniRef90_UPI00037F4C94	SKDHLSHLKYGLGDSNYSTFCGGPKKLERVLINLGAKQIH QLSGVNYPVFALGDKTYEHYNAMGAYVDKRLEELGAKRVF QLKELHYAVLALGDSSYDAFCQSSVELDQRLEKLGATRWL
UniRef90_V5CAF5 UniRef90_A7ETE7 UniRef90_M0S2F4	KLLETAFAVFGLGDSSYENF <mark>C</mark> QSGKDFDGKLAALGAERLL DLEFSKFVAFGLGNNTYEHYNSMVRNVTKAFEKLGATKIG WLENLQFSVFGLGNRQYEHFNKVAKVVDEMLANQGGKRIV
UniRef90_UPI0003B56D06 UniRef90_I0H271 UniRef90_W9CIH5 UniRef90_M1ZMI3	RLEDARFSVLALIGDTSYEHFOOTIGKDFDQRLEDLIGGTRLY RLDGRRYAVLAFGDSSYDFCGHGRRLDERLAELGAVRLA PNYHVNFTTFGLGDSSYAKFNFAARKLHKRLEQLGGNELY ADFLKNVNIGGLGDSSYQKYNFAGKKLYRRLVQLGAKMMG
UniRef90_A4CFU2 UniRef90_UPI00035C9490 UniRef90_E9ED08	S K D H L S H L K Y G L G D S N Y S T F C G G G P K K L E R V L I N L G A K R V F Q L S G V N Y P V F A L G D K T Y E H Y N A M G A Y V D K R L E E L G A K R V F Q L K E L H Y A V L A L G D S S Y D A F C Q S G V E L D Q R L E K L G A T R W L K L P S L S Y A V L G L G D S S Y P S F C G I A R H L D E R L A E L G A T R I L L E T A F A V F G L G D S S Y P S F C G I A R H L D E R L A E L G A T R I L L E F S K F V A F G L G D S S Y E N F C Q S G K D F D G K L A A L G A E R L L L E F S K F V A F G L G D S S Y E N F C Q S G K D F D G R L E D L G G T R L Y K L E D A R F S V L A L G D T S Y E H F N K V A K V V D E M L A N Q G G K R I V K L E D A R F S V L A L G D T S Y E H F C Q T G K D F D Q R L E D L G G T R L Y R L D G R R Y A V L A F G D S S Y A K F N F A A R K L H K R R L L Q L G A K M M G K L D G V K V A V L G L G D S S Y Q K Y N F A G K K L Y R R L L Q L G A K M M G K L D G V K V A V L A F G D S S Y G D F C G H G R R L D E R F H A L G A T R L L P D C Q M K Y S C V G L G D S S Y Y E F F C Q T A L D F E T R L Q N L G A T R L L P D C Q M K Y S C V G L G D S S Y Y E F F C K T G E D V D A R L E V L G A A R R V L R L S Q L G A S M L I R L S Q L G A S Y P S F C K T G E D V D A R L E V L G A G A T R I L R L E N L R F G V L G L G D S S Y P K F N W A S R K L H K R L L Q L G A S M E I Y P D L F E D F A V F G L G D S S Y P K F N W A S R K L H K R L L Q L G A S M E I Y P D L F E D F A V F G L G D S S Y P Q F C A L G R Q L D D R L E A L G A Q R W V P T F L Q G V N F F G L G D S S Y P Q F N W A L R K L H A R F L Q L G A A R E I C G D S S Y P Q F N W A L R K L H A R F L Q L G A A R E I C G D S S Y P Q F N W A L R K L H A R F L Q L G A S A L L A G K Q L K Y A V F G L G D S S Y A K F N F V A K K L H R R L L Q L G G S A L L A G K Q L K Y A V F G L G D S S Y A K F N F V A K K L H R R L L Q L G G S A L L A G K Q L K Y A V F G L G D S S Y A K F N F V A K K L H R R L L Q L G G S A L L A G K Q L K Y A V F G L G D S S Y A K F N F V A K K L H R R L L Q L G G S A L L A G K Q L K Y A V F G L G D S S Y A K F N F V A K K L H R R L L Q L G G S
UniRef90_UPI000362E0B6 UniRef90_Q4SRM0 UniRef90_UPI00047EE0F6 UniRef90_V5HRG0	SLSQLDCAVLGLGDSSYAKFNFVAKKLYQLGASMLI RLENLRFGVLGLGDSSYAKFNFVAKKLYQLGASMLI RLENLRFGVLGLGDSSYPQFCALGRQLDDRLEALGAQRWV PTFLQGVNFFGLGDSSYPKFNWASRKLHKRLLQLGANEIIY
UniRef90_K5X0H3 UniRef90_I2JTT3 UniRef90_M5EBQ5	P D L F E D F A V F G L G D T S Y D K F C W P A K M L S K R L R S L G A T E V C G D S H L R F S T F G L G D S S Y P Q F N W A L R K L H A R F L Q L G A K E F C D V A F T H Y V A L G L G N R T Y E Y F N E S L R Q L D R R L Q E L G A H R I G S T A C N D S A Y E N E S L R Q L D R R L Q E L G A H R I G S T A C N D S A Y E N E S L R Q L D R R L Q E L G A H R I G S T A C N D S A Y E N E S L R Q L D R R L Q E L G A H R I G S T A C N D S A Y E N E S L R Q L D R R L Q E L G A H R I G S T A C N D S A Y E N E S L R Q L D R R L Q E L G A H R I G S T A C N D S A Y E N E S L R Q L D R R L Q E L G A T E V C N D S T A C N D S
UniRef90_Q1JPJ0 UniRef90_F9WC78	A G K QL K Y A V F G L G D R Q Y L N F C R E G V T V D R R L S E L G A R R I Y

	130 140
QUERY UniRef90 UPI000381A159	D G L R I D G D P R A A R D D I V G W A H D V R G A I D R V D C D V D F D E D A A K W A N N V L E S L
UniRef90_UPI00036A9C6B	SRADCDVD FEEQAAEWIDQVLSAL
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UniRef90_UPI0004782774	ERLDADSD YEDQAESWISSLEPLL
UniRef90_W4PYR2 UniRef90_A0A059NYT3	ERLDADSD YEDQAESWISSLEPLLDRVDCDLD FEEPAAEWVQGVLNGLPRLDCDVD YDADAETWSADVLSKV
	PRIL DCDVD YDADAETWSADVISKV
UniRef90_M1AYF7	E G L G D D Q H S S G Y E G A L D P WM S T L WK A L D R V D C D I D Y E E D A E K WMA N V I N A L
UniRef90_030Q28	DRADCDVD FEEPAEAWIKAVIP
UniRef90_M1AYF7 UniRef90_U5UQ28 UniRef90_H8GK75 UniRef90_H0E6V6	DRVECDVD YEDDAAAWI ADVAGRU
UniRef90_UPI00047C4CAA	PRI DUDU FDEAATEWIAQVISGAL
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UniRef90_UPI0003702B35	PRVDCDLD YDEQVAEWTGQVLSAL
UniRef90_Q1KUY9 UniRef90_L8.I3F2	PREDCDVDYDAP AAEWRHOALEKV
UniRef90_J3DA01	ERVD <mark>C</mark> D TEFEER <u>AD</u> TWLEQLQKTL
UniRef90_P18086	DSLKIDGDP ERDEI VSWGSGIADKI
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UniRef90_Z5XM69	QRADLDVD YDDEAAKWIDGALDA
UniRef90_E1VH81	PROFORDAKS MEEDYNAWKDEMEDAN
UniRef90_A0A023FK14	ELGLGDDD AN EEDFVT WKERFWN AV
UniRef90_H2T154	DILIGILIGADO GNUE E DE VISWR E QE WP A V
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UniRef90_Q8EQP1	PRVDCDVD FDDLAAE WIDGVLHEL
UniRef90_G7GRH3	ERVDCD TEFEERADT WLEQLQKTL DSLKLDGDP ERDELVS WGSGLADKI DRVDCDFD FEETAEQWLSNMLELL ERLDCDVD YENAAQQWRKDVKDAL QRADLDVD YENAAQQWRKDDAL NRGDCDLDLETVAEPW WVDTL PRGEGDDDKS MEEDYLAWKDEMFDAI ELGLGDDD GNLEEDFVTWKERFWNAV DLGLGDDDD GNLEEDFVSWREQFWPAV ERGEGDDDKS MEEDYLAWKDPMWTA PRVDCDVDV YQDAASAWGEQAVNAV ERGEGDDDKS MEEDYLAWKDPMWTA PRVDCDVDV GPADEWI DRVDCDVD YQGPADEWI ARVDCBGD DD GNLEEDFVSWRDGVLHEL DRVDCDVDYQGPADEWI ERGEGDDDKS MEEDYLAWKDGMFEAL LARVDCBGD DYCASAGWLDALMKQL KRVDCDDDYEEDAES GWQTSLI ERLDADVD YQTSAAEWRAKVLGL KRVDCDDDD YEEDAES GWQTSLI ERLDADVD YQTSAAEWLDQVLGGLL FPGLADQHDLGLDAVVDSWVEEMW
UniRef90_0F10004560556	ARVDCEGD IDEAFSGWLDALMKQL
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UniRet90_M5N8U1 UniRet90_S9RKO5	PRGEGDOHPOGVEGGEAEWCTHUSSAL
UniRef90_UPI0002884538	PR DCEPD YETQASEWLDQVLGAL
UniRef90_UPI00021A76AB	P GLA D D Q H D L G L D A V V D S WV E E M W
UniRef90_R7ZJR9 UniRef90_UPI000359C6E1	PRTDCDLD YDEPAAQWFAAVQQELELGLGDDD ANLEEDFVTWKEKFWPAV
UniRef90_T1LR36	E GILIG D D Q H SILIG Y E G EILID P WIL LISILIWT SILI
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UniRef90_G11000347CA9D	PRVDCDID YEEDAEKWMANVINTI
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UniRef90_H3F6Y6 UniRef90_W7LTU7	GIVIGEADDAAGTTEEDEII IA WKODMWPKII I
UniRef90_F0ESU3	KRVDADLDYSATAEQ WIRDIVA HSGFAD DGTDMELVVEPWLEELWPAL
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UniRef90_M0S2F4	PILIGILIG D D D Q CI I E D D F T A W R E IL L I W P E IL I
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UniRef90_Q4SRM0 UniRef90_UPI00047EE0F6	S R G D A DIL ID II ID E IV IA T P WII ID A
UniRef90_V5HRG0	PCGEADQHPEGILIEATFILIPWCSDILIRKHILI
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UniRef90_M5EBQ5	NRGESDOSSEGSEAYFAAWTDLIAKSL ERGEGD DENSLEEDYLAWKDPMFEKL
UniRef90_Q1JPJ0	PCLIGDDQHEILIGPDAAII IDPWILIQDILIWEKIVI
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UniRef90_G4QJS1	1
UniRef90_F7XXM5 UniRef90_R7YSW8 UniRef90_V9L9V0 UniRef90_Q5NRM1	I TL LS A S Q T G N A R R L A E Q L R D H L V A A Q L D V V L I N A G D Y L V I F WG S Q S G T A E G F A N R L A R E C H R F G L E A L A A D L S D Y K L L V L Y G S Q T G T A Q D V A E R I G R E G K R R H F A C R V T A L D H Y L T I L S A S Q T G N A R R L A E E L R D D L L A A H L K V N L I N T G D Y
UniRef90_P50126 UniRef90_I3Y8U5 UniRef90_V6MNP3	KNTLLLFGSQTGTAEDYANKLSREILHSRGLKTMVADFADY
UniRef90_G8TQF5 UniRef90_E0IB58 UniRef90_B6HNU0 UniRef90_H5F3F7	K K V T L I S G S T M G S A E Y V A E H L A E I L S D E G F E T D L H H G P S L K I T I A Y G T E T G N S K K L A T D L A A K A K K S G I Q A K V V S L D Q Y P K V I I V F A S M S G N T E E M A D A I A E G V K L A G V E P I V M N V M D A V L I L Y G S E T G N A Q E V A E E L G A L T E R L R F A T H V S E L N Q C P G I T I I S A S Q T G N A R R V A E A L R D D L L A A K L N V K L V N A G D Y R F L L L Y A T Q K G Q A K A I A E E I R E Q A I R H G F S A E L H C I S E S
UniRef90_UPI0003290C43 UniRef90_A4BVP1 UniRef90_G7XSA7	RFLLLYATQKGQAKAI AEELREQALRHGFSAELHCISES PAITILFGSETGNAQGLAQLAAERAQRLGFQANVANMADF ALVLYGSETGNSQEVAEELGALAERLHFRTHVGEMNVY RFLLLYASQKGQAQALAEELEQQGKEHGFEADLHCISES
UniRef90_G1KJY1 UniRef90_I3NIN6 UniRef90_J7S8N6	K
UniRef90_B4H635 UniRef90_M0QPX0 UniRef90_Q0AGU2 UniRef90_UPI000382049D	R L L V L Y G S Q T G T A Q D V A E Q I WR E S R P L G F H G P V L S F E D Y P P V R I L WA S Q M G T A E D F A S T V A G R L T E A G H P V S T A S M D E Q L T I L H L S E T G N S T E L A L R L A A L A L E Q G L N P T L V D I A D Y P Q L R I L Y G T Q T G N A E G V A N D A A A A A K S Q G F D V K V S G L D E I
UniRef90_Q493N4 UniRef90_F4H441 UniRef90_D7FGS7	KTIITLISASQTGNARQLAEKLRDDIRALNMDVMLEDARDY LVVLWASQTGNAELLAAQVAARLSDAGRAPQVLAMDEA
UniRef90_UPI0004409370 UniRef90_X2H875 UniRef90_H6N3D6 UniRef90_V4TBP9	V L I L Y A T E T G N A L D V A E Q I V R E A R R R L F T V R L S S V D A Y K V L V L S A S Q T G N A R R V A E S L Q L K L E A A G I N A A L I A S G D Y I T V L WA S Q M G N A E D F A E T L V A R L R E G G H P V T A T A M D E C K V T V F Y G T Q T G T A E G F A K A L A E E L K A R K A A V K V V D L D D Y L N V Y F G S Q T G T A E S F A Q T L A A E G R R H G F H L D V V D L E E F
UniRef90_D8LBE4 UniRef90_S4XCH1 UniRef90_T2M3V1	
UniRef90_L8J5S4 UniRef90_W4YVF9 UniRef90_L8DH19	PAVIFIC LIVAGS ET G Q S Q A LI A E ELI HELLS S K H DICLES ELI H CLISLIT PAVIFIC LIWAS Q T G T A E E Y A Q S C LIS HICLIS G A GILINITIA E Y S M D S F
UniRef90_D7W2P9 UniRef90_Q3JBJ2 UniRef90_L7KHC6 UniRef90_UPI000468B01D	KKLTLAYGTETGNSKKLATALATIVKKKGLQVKLADLSQY ATVLFGSQTGNAEKLAEKLCAQLSQAGFVPTLQDMGSY PKVEVLWASQTGTVEDYAPVVAHSLSSNGITAVARTLDDA PSITLLSASQTGNARRLAEQLRDDLLAAKLNVNLVNAGDY
UniRef90_R7WHD5 UniRef90_A0A010RGE5 UniRef90_C6MAV5	
UniRef90_Q2I6J8 UniRef90_G0W7W0 UniRef90_X2H843 UniRef90_K0KUX3	K DV V V F WG S Q S G T A E G F A N R L A R E L H Q R H L N T M S A D L S D Y L V L S A S Q T G N A R G V A E S L H A K L K N A G V E A V L S S A G D F K K V S I F Y G T Q T G T A E G F A K A L V E E A K V R Y E K T S F K V I D D E K N Y L V L Y A S Q T G T A E D Y A K K F S K E L I S K G L K V M C A D L E S Y K K V T I I S A S Q T G N A R R V A N D L T Q D I E R L G I E V T H L P A G E Y K Q Y L V I Y G S Q T G T T E D Y A N K F A K E L K S K K L N V M V A D I E D Y
UniRef90_A1S9I5 UniRef90_B6HMT8 UniRef90_H1V672	KNI VVEWGSQSGTAEGFAHRLAREISRWGQEAMTADLSDY LTVLFASDNGNATNVAKRLGNRGKARGLKTKVMAMEDY
UniRef90_UPI000472B650 UniRef90_S8DNM2 UniRef90_J6FAK4 UniRef90_K5VG95	KILVVYASLTGNTEEIAELIAEGIRQSGGEAVLKLVTDC VTILYATETGTAQEVADRIAAQCRRTHVRTRVYNLEAY KQLAVFFGSQTGTANEYALRIAKEAKSRGVTSLVCDPEEY VLYGSNTGTCEAFAQRIASDAAAHGFRATIGTLDSA
UniRef90_S8BA48 UniRef90_W9WCL8 UniRef90_R7DZX0	V LY GSNTGT CEAFA QRI ASDAAAH GFRATI GTLDSA I FY GSNTGT CEAFANRLAADASTHGFKAKV DSLDGA KPMLI LY GSNSGT CEGLA QGFASSAGNRGFNATV KSLDAA I TI I Y GTETGNSESLAREAREKLTKLGHQATV VDMEDM
UniRef90_K8W635 UniRef90_A3WNN4 UniRef90_W3XCK2 UniRef90_F7NR15	I TI I I Y GT ET GN S E S L A RE A RE K L T K L G H Q A T V V D M E D M I TI I I S A S Q T G N A R R L S E Q L R E R L V A E K I S V N L V N A G D Y I HI L V G T T S G N T E A L A D H V Q E I L E S H D L S T Q M H Y E P T F R I L I L Y G S E T G N S H D F A I D L E T M A E R L R F R A D V F A I D T I L T I L Y G S Q T G N A K T V A S K I K A V A E R Q Q G I S V K L A D I G S Y
UniRef90_N1QH40 UniRef90_UPI0004131DBC UniRef90_A1CS83	T V L F A S D G G N A E N L A K R L A N R G K A R G L K S M F M A M D D Y K K I T I T Y G T E T G N S K K L A T E F A A K A K K N G L Q T K L V G L D Q Y K P I T V L Y G S N T G T C E S L A R Q F S R D A S R Y G F N P T M L P L D S A P K L V I L Y G S N A G T C Q F M A Q R L A S S A A A K G Y R S S V D A L D T I
UniRef90_E9F787 UniRef90_K8ETT1 UniRef90_K4JMN0 UniRef90_M5P6N1	PSAKIVYASMTGNTEEIADVAEALENLUVETVECTNA FYGSQTGTGEEFAGRLAKEGVRYQMKGMVADPEEY LLVLYGSNLGTAEDAARQLADEALLQGYQTRTAELDQY RFLVLYGSATGQAQAMAEEICEKATGFGLTAELHPMDEI
UniRef90_UPI00035A1119 UniRef90_K5X5C1 UniRef90_F8FCR6	V L Y G S N I G I S E S F A Q HI I A N D A A M H G F R A I L G I L D S V I K V I L V F A S M T G N T F D M A D A V A F G V O A A G A F II T O K N V M D T
UniRef90_D3UY09 UniRef90_F2BCP6 UniRef90_A0A023RRB0 UniRef90_UPI0001850AB9	I TL I SGSTMGSSEYVAEHMAELLENHGFSTEVLHGPSLITVLSASQTGNARAVAARLHEALLSRNLPATLVSCADYKLNLVVGSMLGAAEYVADHVASLLEQAGHQTRIHNPASLKPVAIVYASMSGNTEALADLILEKLKSHPLQADLLEIVDL
UniRef90_M4DBF1 UniRef90_B7GI59 UniRef90_UPI000441709D UniRef90_S8CJZ1	K P V A I V Y A S M S G N T E A I A D I I L E K L K S H P I Q A D L L E I V D L R V S I F F G T Q T G T A E G F A K A L A E E I K A R Y E K A A V K V I D L D K V I M V F T S M T G N T E E M A E A I A E G V R E Q G A E L D V K E V L D A P P L L V L Y A S D G G K A E K V A K R L A G R G K A R G L S T T V A T M D S V K R I S I F F G T Q T G T A E G F A K A F A E E A R A R Y P Q A T F K V I D E Q
UniRef90_M3VHW0 UniRef90_G0RLA6 UniRef90_UPI000203AFD1	K PL AV Y Y G S N S G T C E A L A Q R V A T D A N S H G F K V T D L A P L D T K N I V V F Y G S Q T G T A E E F A N R L A K D A H R Y G M R G M S A D P E E Y P S V T V V W A S Q T G T A E E Y A L G L E P T L G S A G V T T T V R C A D A V
UniRef90_M3UJP4 UniRef90_W0Q6K1 UniRef90_W5IQD1 UniRef90_W7YEI1	VIIVLS AS QIGNAKS VANKLIIE ILNIA GVI AVHHSLIS NY I LI LF GT ET GNAE MVADDLADAL GAD YPT QVRDMAAF KI SILIV GT HT GNS KILIA FOFAVLIA FAK GUDVS LTS MPFY
UniRef90_W77E11 UniRef90_E5YHM2 UniRef90_C7ZDG9 UniRef90_X8AY43	KRISIFYGSNSGTCESLAQRLAAAGLPVALHSMDDF VVVLWASQTGNAEELAADVAAQLAAAELPVALHSMDDF VTVLWASQTGTAEELAGLVAQRLAATGRTPRVVAMDEA
UniRef90_D5UEK7 UniRef90_J4HUV4 UniRef90_G4MVB5 UniRef90_UPI0002A4C64F	V T V L WA S Q T G T A E E L A G L V A Q R L A A T G R T P R V V A M D E A P P L T V L Y A S D G G K A E K V A K R L A M R A K M R G L S A S V A A M D T V A L V L Y G S E T G N A Q D I A E D L G R A V E R M R F K A T V E E M N A V R F V V L Y G S Q K G Q A Q S I A E G I A E E A E D H G L V A E L S C L N Q D

Wilson W		
Winsteady Castrops	UniRef90_F7XXM5 UniRef90_R7YSW8	K D D O I I K N E T L V V I VS T L C E C D A D D D A IVIETI V E E I I A S K K A D
United 90 Hensing 19 Hensing 20 H	UniRef90_Q5NRM1 UniRef90_P50126 UniRef90_I3Y8U5 UniRef90_V6MNP3	K F K Q I D R E K I I L M V T S T Q G E G E P P E E A V A F Y K F L F S K K A P D W D N F G D I P N D I L F I V A T Y G E G E P T D N A D E F H T W L T D E A D R A R D L E R E G L L I V V S T H G E G E P P D A A R E L H G F L F S R R A P N D L P N E G L W L V V T S T H G A G D L P D N L Q P F A S E I S A D S V
Winsterson	UniRef90_E0IB58 UniRef90_B6HNU0 UniRef90_H5F3F7	EASQLAD YDAI ILGAYTWGDGELPDEMLDYYEAMDGL KPESLFSYTLTIFVASTTGQGDLPVNARSFWKSLLLKKLP KFKQIASEKLLIVVTSTQGEGEPPEEAVALHKFLFSKKAP DKYNLKETAPLVIIVSTTGTGDPPDTARKFVKELQDKTLP
DINIRERGO CONGRED	UniRef90_G7XSA7 UniRef90_G1KJY1 UniRef90_I3NIN6	DENOL DENVINVENTE STYGEGDE PDGALNE E VINE ODAG
Direction Dir	UniRef90_M0QPX0 UniRef90_Q0AGU2 UniRef90_UPI000382049D	SVADLAT CDTI LEI SSTT GDGDPPDNGSTFWDSL VADSP KVRKLKEEQDLLI I TSTHGEGDPPQSGMEFFELI ESRKAP
Direction Dir	UniRef90_F4H441 UniRef90_D7FGS7 UniRef90_UPI0004409370 UniRef90_X2H875	VGALPRRADLVVVTSTFSDGDAPDNGAAFWEALADPEAQ PISHAVECSLAVFVVSTTGDGEVPSNMSTFWRFLLRRGLP PLEELIHESLIIFVVSTTGSGIEPRSMTPMWNMLADLPPD KIKQLSSEDILLVTSTQGEGEPPEEALPLYKYLFGKKAP
Dirice190_07W2P9	UniRef90_V4TBP9 UniRef90_D8LBE4 UniRef90_S4XCH1 UniRef90_T2M3V1	A MD DL K K E T L A F F MVA T Y G D G E P T D N A A R F Y K W F T E G N D R S A S E L L E K G K A I F L M A T Y G D G E P T D N A S E F T T W L K E L E S D G V G V L T S G S S H V L I V T S T Y E G E M P D N A G M F W E D L T S T E M P P L S K L I E E K L V V F V V S T T G Q G D P P D N M K K F W M F L K N L P E D
DIRIERIO_LYRHC6 DIRIERIO_DIPLO00468B01D	UniRef90_W4YVF9 UniRef90_L8DH19 UniRef90_D7W2P9 UniRef90_Q3JBJ2	KPKDLAKEEFFFVVISTQGEGDPPALAKKFYDYI HENE II KPROLKRENYI EVLVSTHGEGDPPDNAFAFHEFLHSKKAP
DIREPO_GOW/WO	UniRef90_UPI000468B01D UniRef90_R7WHD5 UniRef90_A0A010RGE5	KFKQI AQBALIVLI VITSTI GDGDPPDNAAAF WDALLSGDDAP KFKQI AQEKLLI VVITST QGEGDPPEEAVAL HKFL MSKKAP GANFII SARGTII I VVITST FGT GDAPDNGAAL WRSII AADGAP
Unire190	UniRef90_G0W7W0 UniRef90_X2H843 UniRef90_K0KUX3	KAKKLSQEEILILITSTYGEGDFPDGSFSFQIDDEDN KAKKLSQEEILILITSTQGEGEPPEEALPLYKYLFAGKAP DFDRLNEQVPISIFVATYGEGDFPDSSLNFEEHLSTLGEG
UniRef90	UniRef90_H1V672 UniRef90_UPI000472B650 UniRef90_S8DNM2	PIEDLPSEENLIFVSSTAGQGEFPQNGHALWNALKDNTEL NAFDIASYDGAVL PPDYLISEDVVIFSIATTGSGKEPRAMTPLWNLLSDLPQD
UniRef90	UniRef90_K5VG95 UniRef90_S8BA48 UniRef90_W9WCL8 UniRef90_R7DZX0	TNN LPKDGPVVIVTASFEGQPADNAAHFVSWLTALEGA TNN LPKDGPVVIITASFEGQPPDNAAHF©EWIKSCSGE VDQ LPSNGPVVVITSSYEGNAPDNAAGFVEWIKTVDAA
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UniRef90_UPI00035A1119 GKRFNLEHEQCVVMVASTIGDGDPPPNAEKFMRRIKKRTIL UniRef90_K5X5C1 A D H	UniRef90_A1CS83 UniRef90_E9F787 UniRef90_K8ETT1 UniRef90_K4JMN0	LEKLPTDWPVIILAASYEGQPAANAAKFVSWLQKIKKPRGSMP EGTPVIIITSSYEGEPPHNAAHFTHWLQTLDPGEPD DFENVDLCLVATYTYGDGDLPDELVDFYEDLADVDMGELVNMKELPVFCLATYGEGDPTDNAMDFYEWLQNGSA
UniRef90_UPI0001850AB9 DSATELQEYDMVJFLGLJYTWGD GEYPDESLJDLVJEELJEELJ UniRef90_M4DBF1 DYAALKKET <u>LSFF</u> CVJATYGDGEPTDNAARFYKWFTEGTEG UniRef90_B7GJ59 TATELJEFYDGLLL GAYTWGDGEIPDDFFDFYDFUDSV	UniRef90_UPI00035A1119 UniRef90_K5X5C1 UniRef90_F8FCR6 UniRef90_D3UY09	ADH LPTDGPLVIVCASFEGEPADNAAHFVERLTSLQGQ NASFLAGYDG LIJGAYTWGDGDLPDFFLDFYDFLFFV
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UniRef90_G0RLA6	UniRef90_S8CJZ1 UniRef90_M3VHW0 UniRef90_G0RLA6 UniRef90_UPI000203AFD1	S V D D L A N E E Y V A F V T S V A G Q G E F P Q N G R Q L M K A L N A A A T R Y E E K L K K E A L A I F F L A S Y G D G E P T D N A S R F Y K W F T E D T E R D V S R L R G T A L F V T S T T G D G D P P D N G S A F W D A L N A A D A P A H Q N L P K D R P V I I V T A S Y E G L P P S N A T H F V N W I E N L K G N N L S D L N R L P E I D V F C M A T Y G E G D P T D N A Q D F Y D W L Q E T D A
UniRef90_M3UJP4	UniRef90_W0Q6K1 UniRef90_W5IQD1 UniRef90_W7YEI1	KAKNI SDEDI VILVISTI GDGDPPDNGAAL WIRLSAATES KAKNI SDEDI VILVIST QGDGEPPEEGVVLYKFLNGKKAP DPATL NPQDFHVIVOSTYGDGELPNSAQPFHAALQGQRP KNRKI KFFKNII VIVSTHGEGDPPASAFDEYNYI FGKKAP
UniRef90_E5YHM2 K F K Q I A Q E K L L V V A S T Q G E G E P P E E A V A L H K Y L F S K K A P UniRef90_C7ZDG9 UniRef90_X8AY43 A K E N L P T N Q P V V I L T S S Y E G Q P P D N A A H F V S W L K N L E G K V A L T G D A A P UniRef90_D5UEK7 UniRef90_J4HUV4 L D D L P R S G D V L V T S T F G D G D A P D N G T A L WE A L A D P Q A P UniRef90_G4MVB5 UniRef90_G4MVB5 E L K E L L Q Y T V V I F V T S T T G Q G D L P Q N A N R F WR S L L R R K L P	UniRef90_C7ZDG9 UniRef90_X8AY43 UniRef90_D5UEK7 UniRef90_J4HUV4	AKENLP TNQPVVIITSSYEGQPPDNAAHFVSWLKNLEGKPAAELAATRELLLITSTTGDGDAPDNGSGLWRALTGDAAPLDDLPRSGDVVLVTSTFGDGDAPDNGTALWEALADPQAPKLEDIAKEPTVLWVTSVAGQGEFPQNGRAMVKALNARKERELKELLQYTVVIFVTSTTGOGDIPONANRFWRSIIRRKEP

UniRef90_G4QJS1 UniRef90_F7XXM5 UniRef90_R7YSW8	100
UniRef90_V9L9V0 UniRef90_Q5NRM1 UniRef90_P50126	A NCL VD S A V LGL GD S S Y P K F N F L A K K L R K R L VQL G S N P L M K L T H T A F A V F G L G D L T Y E H F A Q A G N D F D R R F E E L G G E R L L T L S T L R Y T V F G L G N S T Y E F Y N A L G R K F D R L L E E K G G E R F A R L E S V E F A V L G L G D S S Y E H F C K T A R D F D E R L T E L G A R R A I
UniRef90_I3Y8U5 UniRef90_V6MNP3 UniRef90_G8TQF5 UniRef90_E0IB58	R L E S V E F A V L G L G D S S Y E H F C K T A R D F D E R L T E L G A R R A I D L S K V T F G A I G I G S S E Y D T F C G A L R T L D Q K L V E K G A T R L G K L P Q I K Y G V L A L G D T S Y P L Y C K A G E D V D Q Q L Q K L G G Q R V V D L S G K Q A A T F G S G D S A Y D I F C G A V D M L E Q K L K D C G A V I A A
UniRef90_B6HNU0 UniRef90_H5F3F7 UniRef90_UPI0003290C43	ATFGIDFTCFGLGDSSYPKFNWAIRKLYKRLQLGANEIY KLENTAFAWFSLGDSSYEFFCQSGKDFDSKLAELGGERLL ADFFAHLQYGGLGDSEYTYFCNGGKIIDRRLKELGAQRFY
UniRef90_A4BVP1 UniRef90_G7XSA7 UniRef90_G1KJY1	ALKGKRETVLALGDSSYENF <mark>C</mark> QTGHDFDARLEALGAERIY GDFLDGVRFFGLGDSSYPKFNWAARKLHKRLLQLGANEIY PQDYFSHLRYGLGDSEYTFF C NGGKIVDRRLQELGAQRF C
UniRef90_I3NIN6 UniRef90_J7S8N6 UniRef90_B4H635 UniRef90_M0QPX0	R D WL K Q Y G V F G L G N R Q Y E H F N K L A K V M D Q L I S D Q G G K R L V S L E N I K Y T I F G L G N T Y E F F N S A A K K A M K A L D N A G A R L V G S L Q G L Q F A C L G L G D S S Y P K F N Y A A K K L S K R L L N L G A T S V S D L A G I Q Y A V L A F G D S A Y D D F C G H G R A L D D R L A A L G A Q R L A
UniRef90_Q0AGU2 UniRef90_UPI000382049D UniRef90_Q493N4	DIL A G Q Y A V L A F G D S A Y D D F C G H G R A L D D R L A A L G A Q R L A A L P E L R Y A I L A L L G D M S Y E H F C G A G K R L D E R F E E L G A K R L Q R L E G V S F G V L A L G D T G Y D G F C Q A G K L F D M R L E Q L G A T R V V K M P N T H F A V F S F G D R S Y E Y F A K A G K D F D H R L E E L G A H R L C
UniRef90_F4H441 UniRef90_D7FGS7 UniRef90_UPI0004409370	RLDGARFAVLALGDSSYDQFCGHGRRVDRRLAELGAERLV KDCNMCFAIFGLGDSGYTKYNATARKLHARLLQLGAVELV LFEDLHFAVEGLGDSAYEKFCWAAKKLSRRMLSLGAREI
UniRef90_X2H875 UniRef90_H6N3D6 UniRef90_V4TBP9 UniRef90_D8LBE4	A L N Q L H F A I V L G L G D S S Y P Q F C Q C A K D F D N Q L A H L G A Q R L A A L D E L A Y S V L A F G D S S Y D D F C G H G R R L D E R L A E L G A T R L T G P W L Q Q F G V F G L G N R Q Y E H F N K I G I V L D E E L C K Q G G A R L V Y L A T V E F T V F G L G N T Q Y E H Y N M V G K S T N E G M E K L G A Q R M F
UniRef90_S4XCH1 UniRef90_T2M3V1 UniRef90_L8J5S4	RLEDLHFAVLALGDSGYDGF <mark>C</mark> QAGRDIDIRLEQLGARRLT SLKGLYIAVLGLGDSSYLKFNFIGKKLYRRLLQLGALSLT DLSQLKYAVIGLGDSSYDTF <mark>C</mark> AAAKNLDQQLSSLGATRLG
UniRef90_W4YVF9 UniRef90_L8DH19 UniRef90_D7W2P9	S DHLANLNFAALGDSNYSNF CRNGKNFDERLQELGAKHIYALPGIRYAVLAFGDSSYADF CGHGRRIDERLSELGAQRLLDLSGLKYGVLALGDSSYPLFCQTGEDVDSRFEILGAQRIIKLDGLQFSVLALGDSSYEYFCKTGKDFDTRLEELGGKRFS
UniRef90_Q3JBJ2 UniRef90_L7KHC6 UniRef90_UPI000468B01D UniRef90_R7WHD5	K L D G L Q F S V L A L G D S S Y E Y F C K T G K D F D T R L E E L G G K R F S P L H G L R Y G L L A F G D P S Y D E F C G F G K K L D A R L V E L G A T R L V K L D A T A F A V F G L G D T S Y E F F S Q A G K D F D N K L G E L G G E R L L D L T E L R Y S T L A L G D S S Y T N F C G H G R R V D A R L A E L G A T R L A
UniRef90_A0A010RGE5 UniRef90_C6MAV5 UniRef90_Q2I6J8	PLASLRYAAFGLGNSNYRYYNKVVDVVDKALVD <mark>C</mark> GASRLADLGKLTFAVLGLGDSSYPNFCQAGKDFDAKFAELGARRLNWLKKLQYGVFGLGNRQYEHFNKLALVVDDKLTEMGAKRLV
UniRef90_G0W7W0 UniRef90_X2H843 UniRef90_K0KUX3 UniRef90_A1S9I5	S L T N L Q F T M F G L G N S T Y E F F N G A A K K A V K Y L K G A N A N L L G K L A N L Q F A V M G L G D S S Y P K F C Q A A K D F D Q R L A E L D A Q R M L D L E N L N Y T L F G L G N T T Y E F Y N A A S Q K T H N F L S G A G A T L I G K L P E L Q F A V L G L G D T S Y E F F C K T A T D F D S Q L A A L G A K R L H
UniRef90_B6HMT8 UniRef90_H1V672 UniRef90_UPl000472B650	SLSNLRYAAFGLGNTNYKFYNRVVDVIVEGLEKFGAQALM DLANVNYSVFGLGDRHYWYYNKPAKDLDRVLANLGAKRLA DLAGTKAAVFGSGDSGYELY <mark>C</mark> GAVDRIEEKLKERGAALVQ
UniRef90_S8DNM2 UniRef90_J6FAK4 UniRef90_K5VG95	L F E DL S F AL F GL G D S A Y E K F C WP A KL L S R R L V S L G A T E I C DV T F S N Y W M F GL G N T T Y E K Y Q G A A R KL D A R L E E L G A R R I G A L A R V A F A V F G C G N K D W T T Y Q R V P A L C D D T L A A R G G T R V Y
UniRef90_S8BA48 UniRef90_W9WCL8 UniRef90_R7DZX0 UniRef90_K8W635	DLANVNYSVFGLGDRHYWYYNKPAKDLDRVLANLGAKRLA DLAGTKAAVFGSGDSGYELYCGAVDRIEEKLKERGAALVQ LFEDLSFAIFGLGDSAYEKFCWPAKLLSRRLVISLGATEIC DVTFSNYVMFGLGNTTYEKYQGAARKLDARLEELGARRIG ALARVAFAVFGCGNKDWGTYQRVPALCODDTLAARGGTRVV EAKGVKFTVFGCGHHDWTTYQRVPKQVDEMLGKLGGERLC KVKNVQFAVFGCGHRDWTTFQKIDAELAAKGGKQIA DLSTVNYAVFALGDEFYENFCQAGKDFDAFLERLKAQRLL NLSQTSYAVCAIGESCYDTFCEAGRHCDKKLSVLNATRLF
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UniRef90_N1QH40 UniRef90_UPI0004131DBC UniRef90_A1CS83 UniRef90_E9F787	PFKNVNFTTFGLGDSSYRQYNWAARKFHKRLLQLGASEFYKLDGLQYAVLGLGDSSYRQYNWAARKFHKRLLQLGASEFYKLDGLQYAVLGLGDTSYEFFCKTALDFDEQLAALGGKRLHDLVNVKFSTFALGDSHYWYYNKPGKDLHARLLELGAQLVAKIPQLKFGVLALGDTAYPQFCKAGEDVDSQLQKLGGNRIVLSGVSFAVFGCGNRDWTTFHRIPKLIDRLLSDAGAHRLLAMKHVSYAVFGCGHSDWHTFQKVPKLIDSTLERLGASRLGDLTGKSVDDFTERFIETGATKGADLTGKSVDDFTCKSVDDFTERFIETGATKGADLTGLNYAVFGCGNSSWSTYQRIPRLIDSALEKKGASRLHPTDYLAHLHYGLGARGFF
UniRef90_K8ETT1 UniRef90_K4JMN0 UniRef90_M5P6N1	DLTGKIFGTCGSGDTFYDDFCKSVDDFTERFIETGATKGADLTGLNYAVFGLGNKTYEHYNAVGIYVDQRLEELGATRVCDLNGVKYAVFGCGNSSWSTYQRLPRLIDSALEKKGASRLH
UniRef90_UPI00035A1119 UniRef90_K5X5C1 UniRef90_F8FCR6 UniRef90_D3UY09	PLQNLRYAVEGCGHRDWFRYQRIPKLVDQTLEDRGAQRLT
UniRef90_F2BCP6 UniRef90_A0A023RRB0 UniRef90_UPI0001850AB9	DLGGLKFAVLGLGDSSYPKFCGAAVDFDSRLAALGGWRLL DLNALKYGVIGLGDRSYDTFCQGGKTLDRLLAE <mark>C</mark> GASRIG NLS <u>S</u> KAFALFG <u>S</u> GDHSYPHFCGA <u>VDM</u> LEELIENRGG <u>VLAA</u>
UniRef90_M4DBF1 UniRef90_B7GI59 UniRef90_UPI000441709D	DL A G K K A A V F G S C D S S Y S A Y G A A V D I L I E K L Q E R G A E I V I D L S N V T F G A V G I G S S E Y D I F C G A I K S F E H L L K D R G A K R I G D L G G L K F A V L G L G D S S Y P K F C G A A V D F D S R L A A L G G V R L L D L N A L K Y G V I G L G D R S Y D T F C Q G G K T L D R L L A E C G A S R I G N L S S K A F A L F G S G D H S Y P H F C G A V D M L E E L I E N R G G V L A A D I R L Q K Y G V F A L G N R Q Y E H F N K I G I V L D E L S K K G A K R L I D L T G K K A A V F G S C D S S Y E K Y G A A V D I L I E K L Q E R G A E V V L G E K L F K Y S V F G M G D S H Y W Y Y N K A G K D L N A R L E Q L G G E R F A G E W L K N L Q Y F G L G N R Q Y E H F N K L A K V V D K I L K E Q G G Q Q L V D L S G V D F A V L A L G D S N Y D D F C G H G R K L D E R I G E L G G R R L L E L G G G G H H D W O T F H R L P K L V D S T I F C H G A T R L L
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UniRef90_M3UJP4 UniRef90_W0Q6K1 UniRef90_W5IQD1	DIVID DIL A Y A IVI GFGDSSYADF CGFARKLDGRLAHLGATRI AKLDRLQFAVLGLGDSSYPNFCQAGKDFDSQLAKLGASRLLDLAGLRFATFGLGDSFYETFNRGSRLIADALVELGAQQVG
UniRef90_W7YEI1 UniRef90_E5YHM2 UniRef90_C7ZDG9 UniRef90_X8AY43	QLTGTAFAVEGLGD5SYLINFUQIGKDLFNQLKSLGSNEVH QLTGTAFAVFGLGDTSYENFCQTGKDFDTRLGELGAERLL PLDKVSYAVEGVGHREWATFHKVPKLVNTELEDHGAKRVA RLGNTRYAVLALGDSNYDDFCGHGRKIIDARIIAFIIGATRIIA
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	420
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LiniDofOO A/B\/D1	D C V D C D V D E D D D A S D WI D A V T E
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UniRef90_D8LBE4	EYGEGDDD NQLEEDFEAWREKMWMAL
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UniRef90_L8J5S4	ERLDIDVS KDPVPEDAEAWLAEWKNA
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UniRef90_D7W2P9	PEKK <mark>C</mark> DID YEQEASHWIEHVFETV
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UniRef90_F8FCR6 UniRef90_D3UY09	DRLEIDQKYEIPEDPAEDWVKEWAKLL
UniRef90_F2BCP6	KLGEGDAN DDFEGSFEAWQNGLWPNLATGFAD DGVGLELVAEPWLEGIYPALTRGEGDAGSSEFFEAFEAWEAKLWELLEGLKVELGPSSEDEVCKSLGETLARSLDRLEIDQKYEIPEDPAEDWVKEWAKLLPRTDCDL EFQAEAEAWMAKLVPAVDRIFTPEDAFAWMAKLVPAVDRIFTPEDAFAWMAKLVPAVDRIFTPEDAFAWMAKLVPAV
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L<mark>C</mark>AGLGLLPLQPPP

UniRef90_C7YV68	90 100 110 GLG <u>NLIRF</u> GAF <u>GLI</u> GNSTYT <mark>H</mark> YNKVMR <u>R</u> V NDQ <u>LLIAS</u> GAQR[I	120 L_G_
UniRef90_M5G4P0 UniRef90_Q7SEJ6 UniRef90_W8VEK9	T K P L Q G V K Y A V F G A G N H D W F Y R L P K L V D S R M E E L G A E R I N T N C V K F S L F G L G D S S Y P K F N WA A R K L R V R L L O L G A S F I	L I F F
UniRef90_UPI000441800 UniRef90_S0K5G8	09	G A
UniRef90_G8Y0Z0 UniRef90_R7S050 UniRef90_T1XGG8	P D D L F N H I K F G L G D S S Y P K F N Y A L K K I H A R L L Q L G C G Y I L F S K L K F T V F A M G D S H Y W Y Y N K P G K D L D A R L E Q L G G E R Y S L N G V R F S V F G C G N T D W A A T Y Q A V R R L D E R L E A L G A M R Y	V A V H
UniRef90_A9LZ73 UniRef90_X5LJ79 UniRef90 UPI0003704A2	K L D K L Q F A V L G L G D S S Y P N F C R A G K D F D K R F E E L G A K R I R L E H L S F A V L A L G D S S Y E L F C N A G K L L D E R L E A L G A T R I 20 D L T G K I A A V F G S G D S A Y P K Y G A A V D I L I E K L Q D C G A K V Y	
UniRef90_Q0HGU7 UniRef90_B3V6E2	LPECKYSVIALGDSSYDTFCGAGKSVDELLSELGAKP	v V I T
UniRef90_C0NPG6 UniRef90_UPI00040E521 UniRef90_UPI000470E71	DLSSTHYSVESLGDSHYWYYNKPGKDLDARVSFLGGKKI 19 PLDSTSHAVLALGDSTYGRFCGFGRALDEKLVELGSRVI 10 DLTGKLYAAVGSGDTFYEKFCQSVIDFDEQLAKTGATK	- II V G G
UniRef90_H3SML9 UniRef90_K8F527 UniRef90_V7ZE92	D L S G T K A A V F G S C D S C Y A Q V G K A V D I L V D R L R E L G S E L S L L N L K F A V F G L G D S S Y E K Y N F V A K K L F R R L E Q L G G E S I D L K A V Q Y A V L A L G D R G Y T Q F C A F G R R L D D R L Q A R G A T R I	√
UniRef90_V6Q2I1 UniRef90_Y0KFY1	DLTGKLYGVVGSGDTFYEMFCSCVDDFDRVFSQTGATKORLTHLAYALLALGDTSYTHFCGFGHTLDTWLQHTHANPI	ĞA LF
UniRef90_M4GF48 UniRef90_Q6CRI8 UniRef90_B6K6E0	R T F F II IR Y A IV F G II IG N S T Y E F F N G A S K K T E K Y L IK D A G A N L T	V G
UniRef90_J7TR76 UniRef90_T0S6G6 UniRef90_H6BRR0	S L T K I R Y A V L A L G N R A Y P Q F C Q A G K N F D N R L H A L G A Q R I S L A N V R V A I F G L G D S S Y A K Y N A V A R R L Q A R L I Q L G A T E I L N N S N Q Y A A F G L G N S N Y K Y F N R V V D V V A Q T L T E N G A T L I	I L I V L L
UniRef90_H0RGM6 UniRef90_G0QTT9 UniRef90_H3SM19	DLSHLRFAAFGLGDSSYDTYNNALSILAG <mark>C</mark> LSDLGASRIKLSDMKYTIFGLGNSSYDEF <mark>C</mark> GMSVKTNNKLQELGARLIAFEGVRYAVFG <mark>C</mark> GDHNWGTYQQVPRFIDEALADKGATRI	I G L <u>Y</u>
UniRef90_A0A044V583 UniRef90_K6XRR3	L MEQKPFAVIGLGDSSYDSY <mark>C</mark> GAGKQI FELLVELQGRP	I Y V <u>S</u>
UniRef90_UPI00038ECB UniRef90_F1SYI4 UniRef90_M7P867	ELLANVIS Y AVEGUGS TUVPK Y NWS S KKU V R RU TOUGA O SI	V L L L I Y
UniRef90_M3AIK2 UniRef90_V5XBQ7 UniRef90_A1UI27	VLRKERFSSFGLGDSSYAQYNWAHRILLHGRLVQLGAQSI RLEHLHFAVLALGDSSYEFFCNAGKLLDERLEALGAQRI KLDHIRFAVLGIGDRSYSDFCGHARSLDGRLASLGATRI SSDHYKHISYGLGDTNYANFCNCGKAIDRRLRELGASQI	M V
UniRef90_H2TGW1 UniRef90_UPI00039DE7	'E/	F Y M_H
UniRef90_F2DP99 UniRef90_U1M2E3 UniRef90_Q898L5	I HILLI Y AIV I IGII IGD S S Y D O E N O A A K DII ID O HIL IA S K G A IVIKII	I \/
UniRef90_UPI000455D79 UniRef90_H3RGX4 UniRef90_K8Z9W0	HOPTH RYGVTALGOSSYENE <mark>C</mark> GAGKREDALLOAHOAKRI	ĒΑ ∐G GΑ
UniRef90_T1VLI1 UniRef90_R8L9Y5 UniRef90_UPI000367E64	DEDGKVYGVAGSGDTTYDHFCKSVEDFDAQFASTGATKORMAETRYAVIAFGDSNYDDFCGHGRKLDARLGELGASRIECAGIRYAVFGCGDRNWANYQSVPKFLDKELEQKGALRI	F 1
UniRef90_J3P678 UniRef90_A0A024TA74	D G E MA GVN Y A V F G C G H R D W F H R V P T L V D T K L A E L G G A R II D L S T M H Y T V F G C G N S D Y D S Y N G M A K F V D A K L G A F G A T R I	L A F Y
UniRef90_UPI00029A5BI UniRef90_F0B8Y1 UniRef90_A6W7N0	RLPELKYAVLGLGDSSYAEFCGLARRIDDRLAELGASRI	L V V Q I I
UniRef90_C6CET7 UniRef90_S0K929 UniRef90_Q09590	Y Q P DIL H Y GIL I ALL G D S S Y D N F C G G G H Q F D A L L Q E M S A K R! D L S G K I Y G V C G S G D T F Y D D F A K S V D D F D L A F A K T G A T K C	V G G A I F
UniRef90_UPI000464609 UniRef90_UPI000311E70 UniRef90_I7LRI5	90 <u>S</u> FR <u>G L</u> PGA V <u>I G </u> L GDSY <u>G</u> DTF <mark>C</mark> GGGEQ <u>M</u> RE <u>L F</u> AE L G V RE ^v	V L L G
UniRef90_S6E049 UniRef90_F5ZHC2	GL S G <u>L NV</u> T L F G F G N S T Y E F Y N G A S K K <u>V</u> M E H <u>L</u> K R S H A T <u>L</u> I DL S D R I Y G <u>V V</u> G S G D T F Y D <u>Y</u> F <u>C</u> K S <u>V</u> D E <u>F</u> E E Q <u>F A L</u> T G A <u>I K</u> (G A G A
UniRef90_UPI000255C0° UniRef90_A0A024PXT4 UniRef90_S7P4M8	11D NLRGRLAATFGSGDTAYDLFCEAVDTLEKKLIEREAEL RSDDHRFAVFGLGDASYEYFCESGKVLDSRLEALGAQRL PGDFFAHLRYGLGDSEYTYFCNGGKVIDKRLQELGARHI	V L L <mark>C</mark> F Y
UniRef90_J3HYR9 UniRef90_G9MZ17 UniRef90_C9Y3H1		
UniRef90_UPI000372433 UniRef90_M5CAN5	39	ν̈́ <u>A</u> L L
UniRef90_UPI000441125 UniRef90_V9KHA8 UniRef90_M5E4X4	PADHYSHLRYAVEGUGNHDWFQRIIPKII VIDSVMEAHGAERI PADHYSHLRYAVGDSNYLNFANGGKII DRLLQQLGAQHI LTEATRFAVEGMGDSHYWFYNKPGKDLYKRLITELGASPI	FY L <u>V</u>
UniRef90_X1WJ14 UniRef90_A0A022FSC3 UniRef90_S3FWM8	LTEATRFAVFGMGDSHYWFYNKPGKDLYKRLTELGASPIDLKGLNYAVFGLGNKTYENYNRISIYVDKRLEELGATRYDLVHVRYGVIALGDRTYETFCGGGGRRIDEALASKGAVRYTLSGLPCAAFGSGDTDYPKYCAAVDTLEAALLASGGNI	V H V G I T
UniRef90_G4L587 UniRef90_W7R3Y3 UniRef90_Q3IK38	TLSGLPCAAFGSGDTDYPKYCAAVDTLEAALLASGGNI DLQGKIYGVVGSGDKEYHFYCFAADTFDEDFKQAGAKK LSKTGYAVICMGDDSSYRETFCEAGKQFDEAMYETMAKRI DLSNIKYSVLGGDDSSYDTYNLAGRNIDELIAOKGALRI	G A L V
UniRef90_UPI000441158 UniRef90_J9HY60	K C K S M R Y T IV F G II G D T S Y F Q Y N V I G R F F N F G I F V I G G F R II	i V I Y
UniRef90_L0GR22 UniRef90_UPI00035C513 UniRef90_B1LS98	QLQDLEYSVLAFGDRQYRDF <mark>C</mark> AFGRRLDERLRQLGG <u>V</u> PI 3E KLRGVRYTVFG <mark>C</mark> GDHNWSTYQRIPVYIDERLEVLGAARI BLDGVEFAVISCOTSVAFFCALGKALDARFFA	L F L V
UniRef90_Q56GD6 UniRef90_UPI00044097A UniRef90_UPI000287DA	WL S DIL IT Y GIV F GLIGN R Q Y E H F N KIV A K A V D E <u>IV L T I</u> E Q G A K R II A1 SL N DII A Y T <u>V</u> F G <mark>C</mark> G N R E WR T Y <u>Q</u> R <u>II P</u> K L <u>I</u> D E K <u>M</u> N E A G A E <u>R I</u> I	L M Y O
UniRef90_F9X5V5 UniRef90_S3BZ97	SLAKSKYAVFGVGNREWTTYQRQPKLIDEVMGQKGAESI EGKGVSYAVFACGHRDWQTYHRLPKLVDTKLAACGAERI	L A
UniRef90_A9IU94 UniRef90_D2TKI2	A A P G L T Y A V L A L G D S S Y R H F C G F G R R L D A W L L E R G A T P I Q P N L R Y G V I A L G D S S Y T H F C N G G K Q F D A L L Q E Q S A R R	ᄔ

UniRef90_C7YV68	130 140 ALGESDDSRETPEETFLQWKEEMW
UniRef90_M5G4P0 UniRef90_Q7SEJ6	PRGEGDAGGANVYNSFDAWEKALWSAV
UniRef90_W8VEK9	R P G E A D E H E N G L D S I Y L P WY Q E L R E S L E M L K I D A S E D P E P E S V N P WV E Q W A T L L
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UniRef90_G8Y0Z0	E R <u>A</u> E A D Q S P E G S D G Y Y T S W E S <u>A</u> L <u>I N G L </u>
UniRef90_R7S050 UniRef90_T1XGG8	D G L G D D Q D A D G P E T G Y K A WE P L L WK A L P R G E G D A R E D M D G A F Q D W S D A L W P E L
UniRef90_A9LZ73	ERIVI DADILIDFAAAANAWTDNII IAAILLI
UniRef90_X5LJ79 UniRef90 UPI0003704A20	DRVDVDGY YEQPAKAWTTDLVKLL GGLKVELTPENEDVDA
UniRef90_Q0HGU7	ARLELD <mark>AC</mark> ETMEPEEAIKWLESW
UniRef90_B3V6E2 UniRef90_C0NPG6	PRVDCDVDYDAM DGLGDDQDPDAFQTGYQEWEPRLWRAL
UniRef90_UPI00040E5219	ARQECEPD YEDAVADWRPRL LAAL
UniRef90_UPI000470E710 UniRef90_H3SML9	D MV MV N L N P E E DI I E L E R L A D Q L K A A V D G L K V E L T P S D L D K E C R A F G R N L V N S V E G L G D D Q H F S G Y D G G L D Q W L E T L
UniRef90_K8F527 UniRef90_V7ZE92	E G L G D D Q H F S G Y D G G L D Q W L E T L Q R E V D <u>N</u> A D P R A L Q Q W Q R R L A E L A P A L
UniRef90_V6Q2I1	FS V K V D L AAFFFD V R L FAFASF L ASK L
UniRef90_Y0KFY1 UniRef90 M4GF48	D MV E V D K S D D G A L R H W Q Y Q L P L G V T D A A D G N T F L D F E T W E E K L W P A L
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UniRef90_B6K6E0 UniRef90_J7TR76	PRAEADSDYQIVIT ADNWIIISQILLIPEILI
UniRef90 T0S6G6	E GLGDDQHELGFYGALNPWLEKLWGTV PVGKADDAQRSTEEDFLAWKDAL
UniRef90_H0RGM6	ELIGRHDAVS GDSFTDAVE WTKSI IPAL
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UniRef90 A0A044V583	SILIGILIG D D D G NILIE E D E M R W R E G E W S T IV L
UniRef90_K6XRR3 UniRef90_UPI00038ECB8D	DLLI ID AMETLEPEEA VP WVEK V LPK L ARGEGOCOHGSLEADFAAWKAK FISRL
UniRef90_F1SYI4	E A G A G D A S S A E F F E T F D D WE H K L WG T L K R G E A D Q H E Q G L D G A L I P W S E E L WR L L
UniRef90_M7P867 UniRef90_M3AIK2	ERGEGNQHPEGHSAGFREW <u>LV</u> QL <u>KKQL</u>
	DRVDCFAYD ODRMFHWAOOM
	DRVDCEAYD QDRMEHWAQQM ASGYAD DGVGLELVVDPWLKGLWNAI
UniRef90_UPI00039DE7E7 UniRef90 F2DP99	ERGEGDAS GDFDAAYRTWHDGLWDAI DRGEAD AKGDFFGDFDQWNSTLWSTL
UniRef90_U1M2E3	DRILIEIVIDAQSEEILIPEDAILIAWILIPQILLIAKILI
UniRef90_Q898L5 UniRef90_UPI000455D790	D G L I I N Y T P D D E L E K C K Q L G E S L V K A E G L G D D Q D A D G P A T G F K V W L P K L W K D V L L I D A T E D P E P E S V T P W V E Q W G K Q L
UniRef90_H3RGX4 UniRef90 K8Z9W0	DV L L I D A T E D P E P E S V T P WV E Q W G K Q L E N V K V E L E P E A E D Q H L E A F A K S L V E K _
UniRef90_T1VLI1	DR AD <mark>C</mark> EPD FEDTAAGWLDSVTAEL
UniRef90_R8L9Y5 UniRef90_UPI000367E646	E M <u>L</u> E <u>L</u> D A <u>L</u> E Q P E P <u>E V </u> A M P W <u>V </u> E K W A T Q L
UniRef90_J3P678 UniRef90_A0A024TA74	P M G A T D A A D G N T F L D F E T W E E K F W P A L D L T L G D A A G D H L D N D Y A A W E S T I L D V L
UniRef90_UPI00029A5BDC	DRGEAD AREGILESAEDAWSATII WNTILL
UniRef90_F0B8Y1 UniRef90_A6W7N0	PRGEADLDLDSLADPWRAQALTHAREL DRVECE PGEDQRAAEWSARVLDLL
UniRef90_C6CET7 UniRef90_S0K929	ELLEIDAAEHPEPEVISPWVESWATML EVVKVDLNVEAEDDNLEEFAKKMVAAL
UniRef90_Q09590	HILIGILIG D D D A NILIE E D F MII W R E A F ILIP K IV I
UniRef90_UPI0004646090 UniRef90_UPI000311E7C4	PML RL D A S E SVT P E D A E P WL G E L V D A L E RI E I D A M E T M A D D A A I P WV E E WI
UniRef90_I7LRI5	ERLEIDAMETMADDAAIPWVEEWI DSVKVDLAAEEDDVKLEAFAETLAAKV NHDLADDGTHTTDEDYLAWKENTLQAL
UniRef90_S6E049 UniRef90_F5ZHC2	ESVKVDLAAEDEDANLEAFAEALSKS PSLKLDVTMSPDEE
UniRef90_UPI000255C01D UniRef90_A0A024PXT4	P S L K L D V T M S P D E E A R V D A D V D Y E E P A T Q W L D A T L E A
UniRef90_S7P4M8	A R V D A D V D Y E E P A T Q WI D A T L E A D T G H A D D C V G L E L V V E P WI D G L W A A L P M L E V D R M Q P H A L Q Q W Q Q L L A D
UniRef90_J3HYR9 UniRef90_G9MZ17	DTYEADEOPDGII IDGS FII IR WA F DII IK K HII I
UniRef90_C9Y3H1 UniRef90_UPI0003724339	EPLKINLDHDIPEDPAEVWLGSWKNLL DMLEVDALETEPEQDVVDWVNGIKDKL
UniRef90_M5CAN5	ARGEGDAGGDRFTESFDEWEDKLWETL
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UniRef90_M5E4X4	A GIL IG D D Q D A D G W Q T G Y K IV IW E P Q IL IW K A IL I
UniRef90_X1WJ14 UniRef90_A0A022FSC3	E I G I G D D D S R L E I D A S R T S F P D E A R A WLE D WV P D L
UniRef90_S3FWM8 UniRef90_G4L587	PGLKIEFDPHTDEEACIAFAKAFVSPL
UniRef90_W7R3Y3	NRLEI DACET DT A A A S A A WI GQL V D K I E R L E L N L D E A L P E D T A L A WL D S WL A K A G L G D D Q D A D G P Q T G Y K A WE P L A WK A L K Y G E G N A E G N K T E D D F N E WK C Q L WK E V
UniRef90_Q3IK38 UniRef90_UPI000441158E	E K L E L N L D E A L P E D I A L A WL D S WL A K A G L G D D Q D A D G P Q T G Y K A WE P L A W K A L
UniRef90_J9HY60 UniRef90_L0GR22	K Y G E G N A E G N K T E D D F N E WK C Q L WK E V D R L E A D R G D P G V L R H W Q H Q L A
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UniRef90_B1LS98 UniRef90_Q56GD6	ERADIDLD FEKPAADWIKGALKAL PVGLGDDD QCIEDDFTAWREQVWPEL
UniRef90_UPI00044097A1	ECGEGDAGSPEFFQKFDEYEERMWGVL ETLKLELAPETDDDVFLAWAD
UniRef90_UPI000287DA39 UniRef90_F9X5V5	DRGLADVCDGDLFNAFDRWTEKLWPAV
UniRef90_S3BZ97 UniRef90_A9IU94	DRGIADVCDGDIFNAFDRWTEKLWPAVEMGGADASGGNMFEDFEAWEDNLFPALDRVEAD DADPAALRHWQHHL
UniRef90_D2TKI2	E ML LIDASEHPEPEESNPWVEHWGTLL

	1 10 20 30 40
UniRef90_Q2NQ96	V T T S G S T L G S A E Y V A E H V A G L L E Q Q G L S T D L H G A E L
UniRef90_X5LF56	VII LEGTESGNSEMVADDLSKSLEDNGIKNEVEDMEGY
UniRef90_V4Q9Q4 UniRef90_UPI0003694376	L I AFASQGGQAREL AERSARQLADAGVSSTTRTINEL L V VIV ASQTGSAEYLAQRTAATLTLGGLDARAACISDL
UniRef90 UPI0003094376	IVIKILIEYGSOTGTAKREAKAILIAEAIVISSILINILIPIVIEILTIN MEDY
UniRef90_Q39NW6	L L V <u>L</u>
UniRef90_C4L1I0	K L L I G Y V S M S G N T E D L A N L I R H T W Q D A G H D V S L S D D L K K V I L Y G S E T G N A H D F A T L L S H R L H R W H F S H T F C S L G D Y
UniRef90_Q12181 UniRef90_UPI000265554A	KKII VI LIYGSETGNAHDFATII LISHRILIHRWHFSHTF <mark>C</mark> SIIGDY RVTI LIFATETGKSEALIAWDILIGALIFS <mark>C</mark> A FNPKVLI <mark>C</mark> MDKY
UniRef90_UPI00045D5368	KVTI LFATETGKSETLARDLGSLFS <mark>C</mark> A FNPQ <u>VV<mark>C</mark>M</u> DEY
UniRef90_E3DZD0 UniRef90_W9AC47	
UniRef90_W9AC47	KI QI FI G SVY G G A E EVA EL V G E EL R SLIGHEVIT L'N T Y
UniRef90_D2VNQ7	KKI VI LYGSETGNAHDFATIL LSHRLHRWHFSHTFCSIGDY RVTI LFATETGKSEALAWDLGALFSCA FNPKVLCMDKY KVTI LFATETGKSETLARDLGSLFSCA FNPQVVCMDEY LLVLYGSNLGTAEGLAELADIGRYQGFQTETAPLDDY I TLITGSTLGGAEYVADHLAELLTAQGHQADIVNQPAL KI QIFIGSVYGGAEEVAELVGEELRSLGHEVT LLVLYGSNSGTCESFASMLHQDAKSKGFDCKVGRLNTF VVI LYGSEAGTAEQVAEHLVDVLSEFGGDVALYDMTDY LTILYGTHTGRSAAIAQSLHEKALKLNIKSSVYPMDEY
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UniRef90_Q04GK6	KVDI I Y A TITT G N N E L LA N A V A N E F K K R G Q T P E I H E F D D T
UniRef90_H3NI48	ALIIFASLTGNTEEMADIVANRLEEKGITTDVLEVSQAINVYYGTTSGNSSRLAFQFADEATQHKFLPKVFNLKEF
UniRef90_A0C5T1 UniRef90_A6XKZ4	RV CV L Y A T E T G N S E R Y A Q R L G K F L S A F A A V T V S N M E T Y
UniRef90_C5DUC5	K K <u> </u>
UniRef90_UPI0002E5959E	
UniRef90_UPI000464D5EE UniRef90_A0A031GGE7	UVAYASOSGOAFRIJALIFSARALIQOAGWAVDVOSLIDRE
UniRef90_C1FEE9	RVAVYYGTQTGTSARLARELEEALHRYGKQVHVRLMDRA
UniRef90_D5E795 UniRef90_UPI000464E7E5	KEVTVLYGSQTGNAQGLAENAGKQLEQSGFQVTVSSMSDF LVAYASQSGQAERLALESARALQQAGVAVDVQSLDRF RVAVYYGTQTGTSARLARELEEALHRYGKQVHVRLMDRA KVLVIYDSMWGSTEMMAKALAEGVRASGTDVGLFHLRKN PKVTLLWASQTGTVEGLVEPFAMRLMGAGCEIRTACMSDV VKIIFATITGNNEEIADVISESLENKNLTVDVEEISQA LAIGFVSMSGNTEDIVSIIQHELEQHGVNVTITELDQF
UniRef90_UPI0004699CE2	VKI IFATIT GNNEEL ADVISESLENKNLTVOVEELS QA
UniRef90_U6BDQ6	LAUGENSMSGNTEDUVSLUQHELEQHGVNVTUTELDQF
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UniRef90_M2SZY8	K SIVISILIE Y G S N S G I C E AII IS N M E A N D C A K A G E II V IQ P II IR AII IN
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UniRef90_F4H9S5 UniRef90_UPI00035DA91C	K K T I S G S T L G G A E Y V A E H L E D C L Q Q Q G F K T N L F H G P D L L V L WA S Q T G T A E E F A A G A A A H L G R T G R T P E V L S M A D A
UniRef90_E6RN63	L V L WA S Q T G T A E E F A A G A A A H L G R T G R T P E V L S M A D A I S I F V G S V Y G G A E R L S E Q V S D T L E Q A G H Q V S V F E Q P T L I T L I S G S T L G S A E Y V A E H L A Q K L E E A G F S T Q T L H G P T L
UniRef90_UPI00036A78FD UniRef90_P36587	I T L I S G S T L G S A E Y V A E H L A Q K L E E A G F S T Q T L H G P T L L
UniRef90_F30367 UniRef90_C6CQW2	A A V F F G S Q T G T A E D F A Y R F S T E A K A N N L T N M V F D L E N Y I T L I S G S T L G S A E Y V A E H L E S L L Q Q D D F T T R L L H G P E L K E I S V L WA S Q T G N A E Q F A A E A A R R L A E S G W R P V V V S M A E A
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UniRef90_W6KEQ2	IL V I LIY G T Q T G T A E QIVIA F RIVIA RILIAILIK R GII IPIVIR CILIP A D EIVI
UniRef90_H0WT42 UniRef90_Q0CXM9	PQLLVLIFGSQTGTAQDVSERLIGREARRRILITCRVQALIDSY
UniRef90 UPI0003687A0C	P Q L L V L F G S Q T G T A Q D V S E R L G R E A R R R R L T C R V Q A L D S Y K P M R I F F G S N M G T C E A F A W R L A H D A L Q Y G F R A E V K A L D A A K I A I I V G S V Y G A A E E L A E T T L T R L R D A G F E A E I F V D T S L
UniRef90_W9ASR0	ILIAIVI H GS NILIGI CRAILIAK OILIAEEA GDILIGCA A LIVIGELID DA
UniRef90_UPI00047D0970 UniRef90_S9X3G1	KIVIAYASMSGNTEELAELLKVSTEPFGHETEMMEMEHM VLFGSQTGTAEDFAYRFSTEAKSKKFANSTEDLDDF
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UniRef90_G8E4B8	
UniRef90_G1NC69 UniRef90_UPI0004061532	KAIII LIYATETGKSQIVIYAKTILI <mark>C</mark> EII FKHA FDAKIVIMSMDEY KETVI V GTESGNSEII JAEDII GAKII PETHODIVIEWIEDII ONE
UniRef90_G8WAY5	KATILYATETGKSQVYAKTLCEIFKHA FDAKVMSMDEY KFTVLYGTESGNSELIAEDLGAKLRETHDDVEVFDLQNF ITLISGSTLGSAEYVSEHLAEKLEEAGHSTTIQHGPLI KELVVIYWSGTGNTESMANAVAEGARIDDVNVKLMNVSEA KVKIVFASITGNDEDIAYVLTEKFEELGCDVDMSEVSQT LVGFASQSGFAERLAWQAAGQLQAAGVPVQVQSLAQL
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UniRef90_W7GA38 UniRef90_K4BVB3	PRGKI FFI SOTGTSKTI AKSI HSI I NI NGFFFDI VIDPKEV
UniRef90_C5F3B4	VYASCT ĞNNEDI AĞTI EEAFEDLGVDVT TTEVSQA
UniRef90_G7FS88	VINI I VIGSQMGSAEYIVAEQILISDELINNQGILITTQILIHDQPKF
UniRef90_UPI00037B55F9 UniRef90_UPI00033192A8	RFILLLYATQKGQAKAII AEEII RERAAAQGFSAEILHCLSES
UniRef90_S9NZD8	
UniRef90_UPI00031D2742 UniRef90_M5CGW6	
UniRef90_U2LFR6	KKŢŢŸVŸĠŚŚŦĠŦ <mark>Ċ</mark> ĠŚĠĀĔŢĬĀŚĸĠĠŸĔĀŪĎŸŦ <u>ĸF</u> ĎĀĎ
UniRef90_A5MZ81	KVNILY WT GT GNT EAMAKLLE EGAKEKGAEVKLLHVS EA
UniRef90_R0CVC7 UniRef90_UPI000466D536	LIIGSTUGAAEYVAEHUAEQUOTHOHTTTUHYOPDU
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UniRef90_UPI000395A2AE	- D D E D CII 18 8 D NII 1 <mark>0</mark> 1/1611
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UniRef90_I3I9B4 UniRef90_D2VNQ7	ARAEDLARDANEII L <mark>C</mark> HSNTGSGELPDNIQPLYLHRDYP TGNIPLD TPLLIVTASYEGQP <u>T</u> EDAKQFVGW <u>LE</u> HVPEN
UniRef90_R7WII3	D P G D L D P E D F H V V V C S T Y G D G E L P T G A E P F H E A L E D D E P
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UniRef90_A6XKZ4 UniRef90_C5DUC5	DAQKL EKEEVVI <mark>C</mark> VASTFGDGDSPS <mark>C</mark> ASSFKSKLEEGNL TPQDILS <mark>C</mark> RYLFII C STTGQGELPRNVDRHNTIWSFLKKR
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UniRef90_UPI000464E7E5 UniRef90_UPI0004699CE2	K P N Q L K K V N N L L I V V S T H G E G E P P D N A L S F H E F L H G R R A P D P A Q L R Q Y E R A L I L A S T F G E G E A P D G T R R F A R L L H A T S G T E V I F T R G H E P L A L F L Q S T Y G D G E P T D S S L E F L H W L R D Q A D D W S M L I K E L M E C R V F A L G C P T M H N G M F F T M G G F L T Y L K G L M P A S F A S G R Y L L V M S S T F G D G E A P D N G Q A F W E G L N G M A D G D A F D L E N F D A V V V C P Y T Y D G G S L P E E G L D F F D D L E E V
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UniRef90_UPI0003687A0C UniRef90_W9ASR0	
UniRef90_UPI00047D0970 UniRef90_S9X3G1	T G G L P K A D A IV V I V A S S Y N G Q P I D D A R E F L S WL I D P D A I D V H D L L K Y D G I L L G S Y T W G D G D L P Y E T E E F Y E N L L T V D F T D M D K L D P S K L L V F F L A T Y G E G E P T D N A E S F I E L I E S E D G S K V A E Y D A I A F G C P A M G D E V L E D T E F E P M F D G C K G A L K D N K T L H K A T C V L E V I S T T G E G D P P D H A Q P F V H V L A T S L P D S A T L K A A G R A L L I V S T T G E G D P P D T A A R F V R K T M G Q G A G R F O L E S T R N A L E V V S T F G D G F A P D G A R G F E R O L G O S L
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UniRef90_A0A024HNM2 UniRef90_E3PV83	GREQL ESTRNAL FV VSTFGDGEAPDGARGFERQL LGQSL SVDTVAQADAVAL GCSAMGAEV LEEGEMEPFTESIK GV VS
UniRef90_UPI0002C2FA3B UniRef90_S6ARR4	DVVSLEHETLVLVVTSTFGNGDPPENGEVRSYKIRFNSVS
UniRef90_F3ZPU1	AKFSSDEFQNYDVLI LGTSTWGEGDLQDDWYDALDEIKNM
UniRef90_J0UPE8 UniRef90_W4PN52	SKLTEALVQEFDVLVLGSSTWGAGELQDDWYDGVKLLKSC
UniRef90_C3YDE3 UniRef90_K2JUK4	GREQIL ESTRNAL FVVSTFGDGEAPDGARGFERQLLGQSSSVDTVAQADAVALGCSAMGAEVLEGEMEPFIESIKGVVSDVSDVSLEHETLVLVVTSTFGNGDPPENGEVRSYKIRFNSVSDGGTLAQ ARNALFVVSTFGDGEAPDNARGFERKVLGQASAKFSSDEFQNYDVLILGTSTWGEGDLQDDWYDALDEIKNMSQCDPSDFEDVDLCIVVPYTYDEGALPDEGIDFFEDLNDLSKLTEALVQEFDVLVLGSSTWGAGELQDDWYDGVKILKSCTFTEEMEAGSVCVFILSTYTDGQPPEGAAWVCRWLEESSTAGVIQDRPDALLVVTSTTGQGDIPDNLVPFFVALKDAFPM
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UniRef90_Q4XLZ7 UniRef90_S6GVW4	NÎMKFYNYENÎ I Î VSTTGYG <mark>C</mark> PAHNMSKFWÎN <mark>LHKC</mark> NNÎ TER <u>D</u> L S <u>Q</u> S <u>Q</u> NAL <u>FVV</u> STFGDGEAPD <u>S</u> AR <u>G</u> FERKLLGS <u>Q</u> L
UniRef90_UPI0004716B60	SOWIDESTONRE LITSTICOCDEPDITARITY SOMEDO CO
UniRef90_UPI0004767B96 UniRef90_R5C5N1	P G E A G P P P E G P L I V V A S S Y N G K A P D N A Q R F D A L G T L P D K L T A E L A N T Y D V L V L G T S T W G D G E L Q D D W Y D A I K V L K G M D A T L L A G S A R V L F I V S T T G E G D A P D H A L P F L R K V M S T P P P
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UniRef90_UPI00037B55F9	LAS DFEDVDICVTATYTYSDVGDGELPDEAVDFYEELQEL NEI DQHNTLWLICTSTYGAGDYPDNLLSFVEQVAQT VADLGLDGRDVVLIVTSTHGLGELPDNIIPVHDDLAANRP GKFDLTERAPLVVVVSTTGTGDPPDSARAFVRDIQDQSLP AGK LPKQGAVVVVVTASYNGQPPDNARAFHTWLSSVPAG
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UniRef90_Q2NQ96 UniRef90_X5LF56	90 100 110 120 S L S T V T F G A L G I G N S A Y D T F C G A I D T L D R Q L T S L G A K R I G D L S S T R F A A F G L G D S T Y D T Y N R G L A T L V S A F I D L G A T Q V G
UniRef90_V4Q9Q4 UniRef90_UPl0003694376 UniRef90_UPl000395A2AE UniRef90_Q39NW6	SLSTVTFGALGIGNSAYDTFCGAIDTLDRQLTSLGAKRIG DLSSTRFAAFGLGDSTYDTYNRGLATLVSAFIDLGATQVG DLSGLQYAMLALGDSQYPNYCGFGRRLDEALRSRGAEPLF DLSHLHYAVLALGDSSYANYCGFGRRLDAWLAGRGATPLF DFRVGRYAVEGLGNSAYDHYNTVARRMDRWLWMLSASRIM ALDGVHFSVLGCGNKQWARTYQAIKRVDEALEKAGATRVH SLNGLPCAAFGSGDTDYPKYCAAVDTVEHAFQTAGGNVLV SNNHLQTAMLGLGDSSYPKFNYGIRKLHQRITQLGANELF TNKFRYAVFGLGSSMYPQFCAFAHDIDQKESHLGASQLT LTNKFRYAVFGLGSSMYPQFCAFAHDIDQKFSHLGASQLT
UniRef90_C4L1I0 UniRef90_Q12181 UniRef90_UPI000265554A	SLNGLPCAAFGSGDTDYPKYCAAVDTVEHAFQTAGGNVLV SNNHLQTAMLGLGDSSYPKFNYGLRKLHQRITQLGANELF TNKFRYAVFGLGSSMYPQFCAFAHDIDQKLSHLGASQLT
UniRef90_UPI00045D5368 UniRef90_E3DZD0 UniRef90_W9AC47 UniRef90_I3I9B4	A L K Q L K F A V T G L G D S N Y D T F C A A G K N I E A L L L Q L G A T A I A R I S G R R F G V I N L G D S S Y T T F N E A G V M L A A A F E D L G A Q P I G
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UniRef90_C1FEE9 UniRef90_D5E795 UniRef90_UPI000464E7E5 UniRef90_UPI0004699CE2	DGRLPTFCVFGLGNSSYEQFNAAGKCVDHSLKSLGAARLM RPKDKKVSFFG SYGWGGGALRQMEEALKNTKMEFVE SFAHVGFSVLAFGDRHYDQFCGHGVRLDARLDALGARRLH DLTGKFYAVAGSGDEFYDDFCVAVDKFDAQLAKSGATKAT
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UniRef90_Z9JMN5 UniRef90_B4W8T9 UniRef90_A0A024HNM2 UniRef90_E3PV83	G K N I A L F G S Y G W G D G E W M R N W E E S C K E A G A N L V C L P Q L R Y G L I A L G D R R Y K T F C A F G R R L D H W L T D Q G A E A L F D L A G L R F G L L A L G D R S Y D H F C G F G H A V D G W L R R S G A E P L F G L G Q L R Y A M L A L G D R Q Y A T F C G F A R R V Q G W L Q G Q G A R P L F G K P L V L F G S Y G W G D G E W M R D W E A R M N S C G A N L L A
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UniRef90_UPI0004061532 UniRef90_G8WAY5 UniRef90_A0Q1A8 UniRef90_UPI000219750C	N S N N V R F S V F G L G S R A Y P H F C A F A R A V D T L L E E L G G E R I L D L T G V R Y A M F G L G D T F Y E T Y S Q G S E H I D R R F A Q G A E R V G D L S A V R F G A V G I G S R E Y D T F C G A I D K L E T A L N A C G A K Q I G G K K L V L F G S Y G W G N G E W M E D W E E R M T G Y G A N I V D D L S G K V Y G V C G S G D T F Y E D F C R A V D E F G K I F D Q V G A V K G A P L P E L G Y A L L A L G D R Q Y A R F C G F S R R L E Q W L A A Q G A Q A L F L C G F S R L E Q W L A A Q G A Q A L F L C G S G D T F Y E D F C R A V D R S V R R L E Q W L A A Q G A Q A L F L C G S G D T F Y E D F C R A V D R S V R R L E Q W L A A Q G A Q A L F L C G S G D T F Y E D F C R A V D R S V R R L E Q W L A A Q G A Q A L F L C G C S C S C R L C G S C R L C G C R C R L C G C R C R L C G C R C R L C G C R C R L C G C R C R L C G C R C R L C G C R C R L C G C R C R L C G C R C R C C G C R C R C C G C R C R
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UniRef90_R5J9V7 UniRef90_UPI00034D1500 UniRef90_R5C3C2 UniRef90_UPI00047883F0	KI GVFYGSTTGTTEDVARKI AEKL NVPQGDI HDA KI GLFFGTQTGNTESLAQTI QKELGGDSV VELQDVAQA VVI AYGSMYGNTEQMAEAI AAELSAQGI KI VMHNVSKS LHI AYGSESGNAEKLAQQLI QQNFLKCYSPTI STLNET KI GLFYGTQTGNTQTEAELI QKEFGGDSV VDI YDI SKV
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LINIDATON OCLITON	FCFFFFACKAII VIDDNIFIVICII I <mark>C</mark> IVID
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UniRef90_R6YYV1 UniRef90_R7MJG2	DAICCGAPDASAEEALKELGRQLAES DYVICNEAP DDDASKQCEELGAAL
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UniRef90_UPI00036C938C UniRef90_H2X2E4	D G Y E Y E A S D D L T D E R I D R WV E A V K S A L E V L A D D Q H E L G I D G A F V P WK N R I WE K I
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UniRef90_E6L7S2 UniRef90_UPI000289E706	E G Y N F E A S D A V V D G K F V G L A L D D R T A A D A S G D L T G T V R E F T R T L R T A L
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UniRef90_K6YEI9 UniRef90_G7YRK5	P A L N D V L N Q P P E S A Q W L E W L D S L G L A D E Q A E L G V N S V M N W W V P R L W T V L
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UniRef90_H6Q5X5	K G Y K F E A S K A L I N K K F V G L A L D

LI=:D=f00 C4O5\/0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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UniRef90_D1XW31	ISVVYWSGTGNTQAMAEAI GEGIESAGAQVNVISVDQA KKTIVVYGSSTGVCEEIANTIGSKLGAEVIDVADFTAD KIGLEYGSDEGNTESIALRIRARLGED RVDLFDLADV
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UniRef90_G9ZER7	LLLLYASQGGQAETLAQTLAPQL GLTAHNLDAWHA
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UniRef90_O30070	KVLVVYATMWGSTERMVNLLTELLMKEGLKVAV <mark>H</mark> NLASA
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UniRef90_S2VN21 UniRef90_W0E9Q6 UniRef90_X0TST6 UniRef90_V2Y4A4	I L L Y G S E G G N T L S V A Q K V L V Q L Q A L G K K A Y L A P L N S Y V T I I Y D T M W N S T R R M A E E I A L G L R E A N L T V K L F N S A R S K S I I I Y Y S Q T G N T K K V A R A I Y K G M S Q F V E Q C A I V P V K E A V F I A Y A S M Y G D T E L A A N V L A A K L A E R G V N M K M V D V S N H R I T I V Y D T M S N N T R M M A D A I A K G I R K G S P E T K V Y N L S K H
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UniRef90_U3IZ92 UniRef90_X0SQJ8 UniRef90_T0L1U9	K A VMI V Y A S M Y G N T E S A A T V L A T K F V E K G I K V V M Y D V S S T K A T I L Y A T E T G K S Q V Y A K T L C E I F K H A F D A K V M S M D E Y K T L I V Y D S V H G N T E K I A R A I G D A I A G D V K V L R A G E V I T I L Y D T M W D A T R L M A E A I A K G L I Q E D S E V R V K L L D K N I Y I F Y C T L Q G A A E R C A N K V M A K L K E L K H R P L L L N L D D L
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UniRef90_X0TJ02 UniRef90_UPI0003F73650 UniRef90_K2IEP6 UniRef90_R5LI88	V L I A Y D S L T G N T E R M A Q A V A E G V K R V G A V A M V K R V S E V K F I I L V G S E N G S T L Q F A S S V H E Q L I Q S G E K S F L A E M R I G L F Y G S T N C H T E M V A E K I R D V I G S E L V E L N N L V F I A Y A S V Y G N T K K A A D M I A S K I A D K G V H V T V S D I A R D
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UniRef90_K2JEP9 UniRef90_B5JMS4 UniRef90_C0C055 UniRef90_R5LFT2	KILVLYFSEGGSTRKVAECVGEGAEVRLRSVSEAVVII YGSEYGHTEAAVNSLACRMADAGIKIKIYDASAVKGVLIVYATMYGNTEEMAGVLAAKLADRGLNIVMHDVSST
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UniRef90_UPI0004641A26 UniRef90_F2J3H4 UniRef90_G7W1H6 UniRef90_J9JN78	V L L V Y G S M Y G N T E N A V E V L A A E MV E Q G M K I K V Y D A S V T L L L V G S E G G T T W G F A A T L H G A L T K A G R S V H A A P M S A F R M I V Y D S E N G H T E R L A R S I V E G A R H E H T E V L L K H V D E A K A T I L V A T F T G R S E M V A K K I G E I F A F T G R S E M V A K K I G E I F A F T G R S E M V A K K I G E I F A F T G R S E M V A K K I G E I F A F T G R S E M V A K K I G E I F A F T G R S E M V A K K I G E I F A F T G R S E M V A K K I G E I F T G R S E M V A K I F T G R S E M V A K K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V A K I F T G R S E M V
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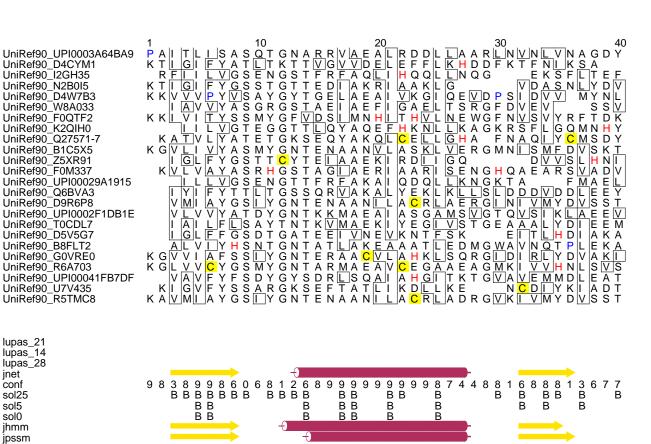
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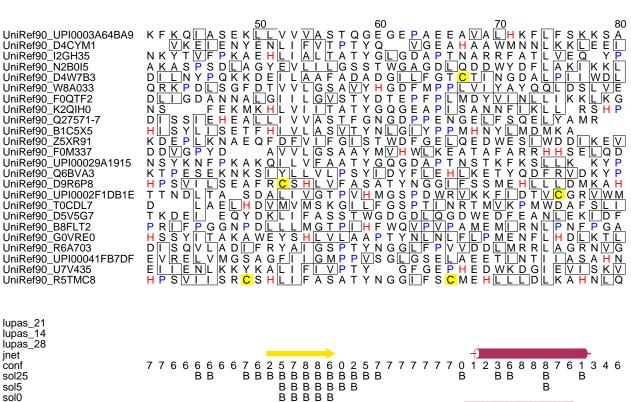
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E PVHISSAPADDDE KLAGLIAD
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Q P Q P V R Y S V L G F G S H A Y P D F C K F A F E V N Q L L R Q S W A V P L V

D L S G K F V A I F G C I S Q

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

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

G K P I L L I T D Y G W G D V

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lupas_21 lupas_14 lupas_28 inet conf sol25 sol5 sol0 jhmm