QUERY	1 ANPLYQKHIISINDLSRDDLNLVLATAAKLKANPQPELLK
UniRef90_R8ATH4 UniRef90_B0TSQ4 UniRef90_G4CTV5	40 40 40 41 41 40 40 41 41 41
UniRef90_C4LBX2 UniRef90_Q0TRA8 UniRef90_W0EUV0	ANPLYKKNILSIADLSRTDLELVVQTASQLKQSPRHDLLQ LKNKHLLDPSDFTIEEFDEIFKLAHQIMANPKQNICN MKRESIVSITDESKEELIDILIQKASREEANPNORIJE
UniRef90_R7I5T3 UniRef90_I7J550 UniRef90_W8TEK5	RHLIDITDESÜDELESLLDEADKMKANPYRDTMH LKGRHLLDPMDFTTSELDELLELGGELSKNPEKKACQ
UniRef90_A5D509 UniRef90_W1SC01	FKGRHLLSLHDFSPDEIAYILDLAGELKKNIPHPYLRNHLKGKDFLQLSDYSTDDIHYLLDVAQELKAGKPHPYLSFKGRDFLAIRDYTSEEVMEILELAQKLKKGIPHPLLA
UniRef90_D7CJ38 UniRef90_UPI00037C2D26 UniRef90_R5BHL2	NEKGRDFLGLGDFSSEEIRYLIDLAELKKGKNQPLK KSEISIQDFSKEEVLHILEVAKEFEADREQNFLA
UniRef90_D5WRE7 UniRef90_V9H2E0 UniRef90_K4LII9	N M K S K H L I D P M D F S K E E L Q E I F K L A H Q I L A N P R S H I C D S L K G R D F L T I S D F T A E E I R L I L D A A H E L K E G V P H P V L K G T S L K G K D F L K L S D F T P S E I H L L L E E A A R L K R M K K H P F L A
UniRef90_M1ZDQ5 UniRef90_U7USJ3 UniRef90_UPI0003D0956D	R N L I E P R D F T T E E L D K L F D L A D A I I Q D P K R D V C K H P L V G Q H V L S V K Q F T K D Q M S H L F N V A H T L R K E R S L E I L K
UniRef90_I0XB62 UniRef90_D2RBF6 UniRef90_R5B7L5	ANSLAGKSVVTLDDISTAQIRMLLDKARYLDSHRKAHTCD MNSNSLVSLNDLSRDELLDLIERARFFEEHPNHKILD
UniRef90_D3R0M6 UniRef90_R7APE5 UniRef90_W6S4Q2	K H L L N P L D L S V E E T D R L L N L A D S L A A D P Y S H C C T L K G K D L I D P K D L S L E E Y E E I F K L A E D M M E N K Y S E L A K
UniRef90_W4BYH8 UniRef90_G8ZZC0 UniRef90_C4G9E9	NPFKGRUFIEFIDYTAEEIRYLLDLAIEIKGKQKSQPLK NPFKGRHVLSVRQFKRSDFHALFAVAQELRAAVERDLMK RHLMSPMDLSVEEINRLMDLAADMKADPYAHSLE
UniRef90_K5ZGR7 UniRef90_I4BJC8 UniRef90_D4JH74	LRGRDFIEFTDYTAEEIRYLLDLAIEIKGKQKSQPLK NPFKGRHVLSVRQFKRSDFHALFAVAQELRAAVERDLMK RHLMSPMDLSVEEINRLMDLAADMKADPYAHSLE RHFLDLKDFSAAQLRAMLDDAAAFKANPTRKPLA RHFLRDDDFSPEEQAEVLALAAELKKNPHRPLEG RHLMSPLDFSVEELDKLLDLANDIEAHPEKHKOD HFISIADLSVEEANEILDVADRLKKERRRDYLK FKHKDLIGLQDLTREEIQLLLDTADNMKEIKKVPTLR
0	
UniRef90_U2DQS5 UniRef90_UPI00037F2CDE UniRef90_A8MIU1	LAGRNLISPSDFSPRELDELFALADDIVKDPYAHACD LKGRSFLTLKDFTAEEIEYLIDLAAELKEKKKQDTLK PLKGKHLIDPDQLTFNEIHEIINLGLDMEQNPYSKVCE
UniRef90_A0B8L1 UniRef90_P77918 UniRef90_UPI000316F9D7	WK GR DV I SIRDFSKEDIETV LATAEELKEK GQLEYAK SSLKGK DL LTL LDYTSEEVQEL I SLAIKMKK GROPKL LD
UniRef90_C3P7R4 UniRef90_R6NAZ9 UniRef90_E1QP27	RHLMSPLDLSVEELAKVLDLANDIEKNPEKHKCD SLRGRDFITLMDYTTDEIKYLLGLSRDLKSRRYSDVLR
UniRef90_B0K2E9 UniRef90_R4SWA1 UniRef90_C0GH81	R N F L R D D D L S R E E II L E V L D I A K E M K K E K Y S QI L K R N F L R D D D L S P A E Q A E I L D L A D Q L K A E P S S R A L E S D L R G R D F L A V N D F F R E E L A E I L D F A L Q L K A G K E H H L L R
UniRef90_UPI0004657A86 UniRef90_UPI00037B5CFD UniRef90_D6X207	MNKASFYSI EQLTAEQI I EI LDSAELFEQNPNRDFLH HSLANKHI LSVDMFTKDQLNDI FNLAQTFKERAVDHI LK
UniRef90_UPI00047901B9 UniRef90_J7IKS4 UniRef90_F4X7C6	FKGRDFISLHDFSQDELSFILDVAKDIKAGRPHPILQ SNSLIGHHVLTVEIFNKDILKDIFHLAETFKERPLDHILK
UniRef90_S2Y0U0 UniRef90_R7PBF7 UniRef90_M1YQA9	KKSFVTIANHSREKLMYLLTMAAEFEKFPNRKILE KHLIDPMDISIDELESLFKLAEELIKNEDNNICS
UniRef90_C4K7I6 UniRef90_K2P349 UniRef90_UPI0003B2E246	A P R H F I D L S QL A P Q E L R S M L D D A E R L K A G E R E R P L D L K G R N F L T L K D F T P A E I T G L L D L A A D L K E K K K K D I H R
UniRef90_R6J1S2 UniRef90_H1HRP2 UniRef90_R6Q9R8	RHCLDTTDFTVEETDDLTHLATDITADPKKHVCD RHMLKPLDFSVEETAELLSLAGRIEKNRYAKVME RHLLDTTDLSLEEVDGIISTALDLINNKEKHVCD
UniRef90_F0FAW9 UniRef90_L0KXF1 UniRef90_UPI00047904B9	R H L I S F A D L T H D E V I E L L D M A E D L K R G K L T D L L K Q L A G K D F L T L A D Y S K P E I A Y L L E L A A Y L K N Q R L K Q P L Q
UniRef90_Q74GU2 UniRef90_A2BJ24 UniRef90_UPI000381E6C8	GSGWKGRDVI SILDFDRDSLEQLFEV ADKFRERGRIPLLE RHFLRDDDLSPAEQAHVLELAAEVKRNPHKPLAG
UniRef90_D9SWU0 UniRef90_R6EUQ0 UniRef90_A8SKG8	R S L I S I L D F T A E E L D R L I D T A M D I I E N P Y S Q K C R R N L V S S E D F S C E E L L E L M K L G A E I Y N D P E K E K C R
UniRef90_H8I482 UniRef90_N1ZDW4 UniRef90_R7R578	AVNUK GRSFLT LK DFT A E E I E Y FI DLA MELKEKKKKR MK LK GR H FL T LK D Y T P E E I VYL L DLA A S Y K E K K K H D T L R
UniRef90_UPI0003B517B3 UniRef90_D5EAC7 UniRef90_W0K316	KHVLSMTDLSKEDIMDILETGEDLKKGKVTDLLK MRHDHLLTAKQLSRADVETVLDRAAEFDADPARDLHA
UniRef90_C2BD31 UniRef90_Q3AL44 UniRef90_S7UY81	R N F L R A D D D L F R R A C L R Q A E I L D L A A D Q L K A E P S E S H H L R R A G R D E I A C N A C A C A V L D L A A B L L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A B L K Q H P Y G D A L A A C L K Q H P Y G D A L A A C L K C A C R P L A C L T A A C D L T A A C D L T A A C D L T A C D L T A C
UniRef90_D4K1F0 UniRef90_UPI00034D8E13 UniRef90_R5K088	LK GR D FL S LA DL S V G E L D F L L QL A K Q M K A G R A N P H C K N L I D P Q D L S V A E I D G I L T L A Q K I I D D P Y S E V C K
UniRef90_UPI0003783BD4 UniRef90_UPI0004751766 UniRef90_L9XFE0	PLS GR DL L KI DEFS GDEL LYLL QS ALHLK QG QQY EPLK PLS GR DL L S L S DL S P D E L A E L L A F A T E L K A G K H H P Q F P R H F L E I D D L S R E E L QV V L E R A E R Y K R G E D H A D L A
UniRef90_E1REB2 UniRef90_Q606D8 UniRef90_E5XPS0	KKDII LISII LIDILINSEELLT GIVLIALIA DKILIKNGII FPEYILIY MKPRHFVTLRDLISSAEFRALI ARAI DLIKARKEPEPLK RHFLRDDDLISPAEQAEVLALIA AELIKREPKRTLAG
UniRef90_D3EMC8 UniRef90_UPI0004746A17	S L K G R D MII E L D E Y S T E E II Q F L L D S A L E I K R K Q K N Q P L K R H F L D L S D H D S P T L R H M L D L G M R C K R G E M A D P L A

	50 00 70 00
QUERY UniRef90_R8ATH4 UniRef90_BOTSQ4 UniRef90_G4CTV5 UniRef90_QTRA8 UniRef90_QTRA8 UniRef90_W0EUV0 UniRef90_R7I5T3 UniRef90_I7J550 UniRef90_W8TEK5 UniRef90_MSTEK5 UniRef90_DTCJ38 UniRef90_DTCJ38 UniRef90_UPI00037C2D26 UniRef90_WBEP7 UniRef90_D5WRE7 UniRef90_D5WRE7 UniRef90_D5WRE7 UniRef90_D5WRE7 UniRef90_D5WRE7 UniRef90_D17USJ3 UniRef90_UPI0003D0956D UniRef90_W4BYH8 UniRef90_W4BYH8 UniRef90_W4BYH8 UniRef90_UPI0D03TP5 UniRef90_UPI0D03TP5 UniRef90_UPI0003TF2CDE	885
UniRef90_R6Q9R8 UniRef90_F0FAW9 UniRef90_L0KXF1 UniRef90_UPl00047904B9 UniRef90_Q74GU2 UniRef90_A2BJ24 UniRef90_UPl000381E6C8 UniRef90_D9SWU0 UniRef90_R6EUQ0 UniRef90_A8SKG8 UniRef90_H8I482 UniRef90_H8I482 UniRef90_N1ZDW4 UniRef90_R7R578 UniRef90_UPl0003B517B3 UniRef90_UPl0003B517B3 UniRef90_UPl0003B517B3 UniRef90_UPl0003B517B3 UniRef90_UPl0003B517B3 UniRef90_UPl0003B517B3 UniRef90_UPl0003B517B3 UniRef90_R5K088 UniRef90_UPl00037B3BD4 UniRef90_UPl0003783BD4 UniRef90_UPl0003783BD4	GK S V M A S I F F K A S T R T R R F S F E V G M A Q Q G G G G A A V V V V S D S A S M S M Q G G G M A V V V S D S A S M S M Q G G G M A V V V S D S A S M S M Q G G G M A V V V S D S A S M S M Q G G G M A V V V S D A K K N S M Q G G G M A V V V S D A K K N S M Q G G G M A V V V S D A K K N S M Q G G G M A V V V S D A K N S M Q G G G M A V V V S D A K K N S M Q G G G M A V V V S D A K K N S M Q G G G M A V V V S D A K K N S M Q G G G M A V V V M M A G G G M A V V V M M A G G G M A V V V M M A G G G M A V V M M A G G G M A V V M M A G G G M A V V M M A G G G M A V M Q M A G G G M A V V M M A G G G M A M M A G G G M A M M A G G G M A M M A G G G M A M M A G G G M A M M A G G G M A M M A G G G M A M M A G G G M A M M A G G G M A M M A G G G G
UniRef90_L9XFE0 UniRef90_E1REB2 UniRef90_Q606D8 UniRef90_E5XPS0 UniRef90_D3EMC8 UniRef90_UPl0004746A17	GQILGMIFQKPSIKIRVSFETGMTQLGGHAV FLGADDUQKKSVGLIFEKASTRTRISFETGIFELGGHPL FLNPNDMQNKVLGMVFEKSTRTRVSFEVGMAQFGGSSI FLSPRDTQPRSVGVVFEKPSIRTRFSFEVALTQLGGHPI VVDGNSVQLGKTIGLIFEKSSTRTRVSFEAGMFQLGGHAL FLSKNDUQGKTVALIFEKPSTRTRVSFEVGIRQLGGDVVVL SGKDS

QUERY	90 100 110 120 LIGKKGQTLIADTIISVISTYVDAIVMRHPQEGAARLIATEFSG
UniRef90_R8ATH4 UniRef90_B0TSQ4	I G K K G E T I A D S I R V I S N Y IV D A I V IM R H P O E G A A R I A S E E S N
UniRef90_G4CTV5	A K K G E T IL IA D T A R II I IS S Y T D A II I IQ R H P K D G A A R IV IA A E F S S
UniRef90_C4LBX2 UniRef90_Q0TRA8	II IA K K G E T II IA D S IV IR IV I I T S Y T D A F IV I IR H P O E G A A R II IS A F E S
UniRef90_W0EUV0	S S K G E T L K D T I M M V S N Y V D L I I M R H H L E G A A R Y A S E I S
UniRef90_R7I5T3 UniRef90_I7J550	SATKGESLMDTI HTVSCYCDI I AMRHPKEGAPM AGTLTS VAKGESL ADTI RTI ACYADI AVMRHPKEGAPRVA AMYSS
UniRef90_W8TEK5	STSKGESII ISDTII IRTIVIAAYADII I IAMRHPKEGAPRII IGA KEII I
UniRef90_A5D509 UniRef90_W1SC01	L G R G E T I A D T A R V L S R Y L D G I M I R T Y S H A D V E E L A R H A L G R G E S I S D T A K V L S R Y V D G I M I R T F S H D S V E E L A E H A M G R G E T I K D T A L T L S R Y L D G I M I R T F A Q E E V E E L A Y W
UniRef90_D7CJ38	MGRGETI KDTAKVLSRYVDGI MI RTFSHDSVEELAEHA MGRGETI KDTALTLSRYLDGI MI RTFAQEEVEEL AYW
UniRef90_UPI00037C2D26 UniRef90_R5BHL2	M G R G E T L H D T A K T L S R Y L D G I M L R T F A H R T L T D L A R Y A Q R K G E T L E D T L K I V S N Y V D M I VM R H P Q A G A A D L A A S V A
UniRef90_D5WRE7	QUGRGEPI PDTARVISRYVDGI MIRTESHESVRFI AFYA
UniRef90_V9H2E0 UniRef90_K4LII9	TAKGETL ADTITMVSIYSDIIAMRHPMEGSAKLASMYSEQLRRGESLADTARTLERYLDGIMIRTFAQDDVVELARYALGRGESIH DTGKVLSRYVDGIMIRTYSHEMVEEL ARE
UniRef90_M1ZDQ5 UniRef90_U7USJ3	LGRGESI H DTGKVLSRYVDGI MIRTYSHEMVEEL ARE
UniRef90_UPI0003D0956D	TSKGESLV DTLRTVENYADI VAMRHPKDGAALLATKYLT SVQKGESLADSVQTMSCYADVLVLRHPQPGAVELAARHCR SVKGETL ADTIRVVSSYVDVIAMRSPKEGAALLASKYSP
UniRef90_I0XB62 UniRef90_D2RBF6	S V K G E T L A D T T R V V S S Y V D V T A M R S P K E G A A L A S K Y S P S A S K G E T V N D T L K V V S N Y V D V A M R H P K E G A A F V A T Q A V S S Y V D V A M R H P K E G A A F V A T Q A V S S Y V D V A M R H P K E G A A F V A T Q A V S S Y V D V A M R H P K E G A A F V A T Q A V S S Y V D V A M R H P K E G A A F V A T T A T T T T T T
UniRef90_R5B7L5	SSKGESL KDTIKMVSNYVDLITMRHYLEGAA RYATEVT
UniRef90_D3R0M6 UniRef90_R7APE5	STSKGESVQDTVRTVSQYADIIAMRHPREGAARLASE T <mark>C</mark> ASKGESVS DTIRVIS <mark>C</mark> YADI <mark>C</mark> AMRHPKEGAPMVAA GKS
UniRef90_W6S4Q2 UniRef90_W4BYH8	A S K G E S V S D T I R V I S C Y A D I C A M R H P K E G A P M V A A G K S A A K G E S L G D T L K V V S A Y G D I I A M R H P K E G S A Y L A S K F S L G R G E T T H D T A K V L S R Y L D G I M I R T F G H H N V T E L A E H A
UniRef90_G8ZZC0	SVKKGETLQDTIRTLACYSDALVMRHPDEMSAHI AAKYSP
UniRef90_C4G9E9 UniRef90_K5ZGR7	SVKKGETLQDTIRTLACYSDAI VMRHPDEMSAHIAAKYSPAAKGESV ADTLRVISSFADICAMRHPKEGAPLVASLHSEIGRGETIP DTANVLSRFVHGILLRT DRAAKMHELAAH
UniRef90_I4BJC8	LGREETL EDTGAVLSRYVDALVWRTFAQERL AAMASG
UniRef90_D4JH74 UniRef90_H8IB23	LGREETL EDTGAVLSRYVDAI VWRTFAQERL AAMASG SASKGESVSDTIRVISCYADICAMRHPKEGAPLVASEKSR LGRGETIG DTARILSRYVHGIMIRAKSHSTVVEM ARN
UniRef90_Q74DP5 UniRef90_K0B198	V T K G E T L S D T A R N I L A M K P D I I V M R H A A S G A H H Y L A Q R V L G K K E S V K D T A R V L G R M F D G I Q F R G F S H D T V E E L A K Y A S T S K G E T V A D T A R M V S S Y A D A I A M R H F L E G A P R A A T L Y A
UniRef90_U2DQS5	STSKGETVADTARMVSSYADAI AMRHFLEGAP RAATLYA
UniRef90_UPI00037F2CDE UniRef90_A8MIU1	SVITK GESVA DTI RV L GRILT DGI ETK GEGVE VE ELAKTA
UniRef90_A0B8L1	II IA K G F SIL I A D TII IRIV VIG G Y A D A II V L IR H P K F G S A RII IA A F F S P
UniRef90_P77918 UniRef90_UPI000316F9D7	SVKKGESLRDTIKTVEQYCDVIVIRHPKEGAARLAAE VAQLGRGEPISDTGLVLSGYLDGIMIRANSHKMVEELAEYSGRGETVSDTAKVLSHYIDGIMIRTFSHADVEEL AKE
UniRef90_C3P7R4 UniRef90_R6NAZ9	GRGETVSDTAKVLSHYLDGLMLRTFSHADVEEL AKE AAKGESV ADTVRTVS <mark>C</mark> YADL <mark>C</mark> AMR <mark>H</mark> PKEGA <u>PLV</u> ASMASE
UniRef90_E1QP27	I I G R G F T II I A D T A R IV V ID R F IV ID A II IA A R IV IY K H F S II I I F M A K Y A
UniRef90_B0K2E9 UniRef90_R4SWA1	IIIGREETII EDTSRIVI ISRYII IDAII VIWRTEAOKRII — DAMASA
UniRef90_C0GH81 UniRef90_UPI0004657A86	QI GRGEPIK DTARVLSRYLDGI MIRTFDHGEVEQL ASF LGREETLG DTARVLSRYTDLVVWRT SGQVRIDEFAAA
UniRef90_UPI00037B5CFD	SIVIK G F TILL R D TILIO MIVIS G Y A DILL VIM R H NILIF G A A ILIY A S FIVIS
UniRef90_D6X207 UniRef90_UPI00047901B9	SVKKGETLEDSVAVMAGYADVVLRHPTPGSVMRASHHCR SVSKGESLADTVRTVAAYADVIAIRHPKEGAALVAARAAE
UniRef90_J7IKS4	IIIGRGEPIUS DIARIVISRMIVIDGIIIMII IRLESHOEIVI IEII AFE
UniRef90_F4X7C6 UniRef90_S2Y0U0	SVKKGETLEDSVTVMAGYADVVVLRHSAPGAAARVAQHCR QIGKKESIKDTARVLGRMFDGIEYRGYGQEIVEEL AKY
UniRef90_R7PBF7 UniRef90_M1YQA9	S S K G E T L K D T I K M V S N Y A D I I V M R H Y L E G A A R Y A S E V T S V M K G E S I P D T I R T V G S Y V D I I A M R H P K E G A P R Y A S Y Y S V S K G E S L S D T L R V I S S Y V D A I I I R H P K E G A P Q Y A A G F C
UniRef90_C4K7I6	VSKGESUS DTLRVISSYVDAI IIRHPKEGAP QYAAGFC
UniRef90_K2P349 UniRef90_UPI0003B2E246	QLGRSETI ADTAKVLSRYVDAI MIRTTAHERLLEL AEN QLGKKESI ADTARVLGRMFDGI EYRGYEQTI VEDLAKYS SASKGETVGDTVKI VSCYADI I AMRHPLEGAPRVASFKSD
UniRef90_R6J1S2 UniRef90_H1HRP2	SASKGETVGDTVKI VS <mark>C</mark> YADII AMRHPLEGAPRVASFKSD
UniRef90_R6Q9R8	SASKGESVADTVRVVSCYADIIAMRHPKEGAPMVASEFSRASKGETV EDTVRMVSCYADIIAMRHPLEGAPRVASFKSGSVSKGETLKDTLLMVSNYADAIVMRHYLEGAAQYASE VA
UniRef90_F0FAW9 UniRef90_L0KXF1	S V S K G E L K D L M V S N Y A D A I V M R H Y L E G A A Q Y A S E V A Q V G R G E S L A D T A V V L S R Y V H C T A R V N K H S T L E L A A H S
UniRef90_UPI00047904B9 UniRef90_Q74GU2	QVGRGESIADTAVVLSRYVHCITARVNKHSTILEIAAHS IGRGEPIS DTAKVLSGYLDGMMIRTFSQQVVEEL AEN QMGRGEPIKDTARVMARYCDGVMIRTYGQEIVEEF ARY
UniRef90_A2BJ24	A K G E T A D T R ML D S Y A D MI V L R H R Y E G A A L Y A A E L A
UniRef90_UPI000381E6C8 UniRef90_D9SWU0	LAKGETL ADTIRMLDSYADMIVLRHRYEGAA LYAAEIA QLGREETLADTGRVLSRYVEAVVWRTYGQDRLEEMASAA TAKGESL EDTTRMASLYGDIIAMRHPEAYSPC KASKVS
UniRef90_R6EUQ0	S S S K G E S V A D T A K L I S C Y A D I I A M R H P M E G A P L V A S R N A S A T K G E S L Q D T I R T V G C Y S D L I A M R H P H E G S A E L A K E V T S T V K G E T L S D T I K V I E S Y A D A I V I R H P R E G A A R M A S E I S L G H K E T V E D T A R V L G R M F D G I E F R G F S Q E T V E K L A K Y I G K K E S I A D T A R V L G R M Y E G I E Y R G F E Q T I V E E L A K Y V A K G E T L K D T L L N L E A M N T D A I I I R H A F A G S P Y F I S T C S
UniRef90_A8SKG8 UniRef90_H8I482	STVKGETLSDTLKVIESYADAI VIRHPREGAA RMASEUS
UniRef90_N1ZDW4 UniRef90_R7R578	LIG HKETVEDTARVLGRMFDGII EFRGFSQETV EKLAKY
UniRef90_UPI0003B517B3	VAKGETLKOTLINLEAMNTDAILIRHAFÄGSPYFIISTFCS
UniRef90_D5EAC7 UniRef90_W0K316	QI GRGETVADTAKVLSRYVSAI TARVNSHSTVEELAEHA SVKKGESLADTVRVVEGYADGLVLRHPKQGAAKLASDYVD SAKKGESLQDTVKTVSQYADII AMRHPQEGAAYLASLAAD
UniRef90_C2BD31 UniRef90_Q3AL44	SAKKĞE SLQDTVKTVS QYADI I AMRHPQEĞA AYLASLAAD LGRGEPLLEDTARVLSRY <mark>C</mark> DVLAIRTFAQQELVDY A <u>H</u> W
UniRef90_S7UY81	SAAKGE <u>SIL</u> YDSTRI <u>M</u> NGYAD <u>IL</u> I VMR <mark>HH</mark> EAGS <u>A</u> EKAAR <u>V</u> S
UniRef90_D4K1F0 UniRef90_UPI00034D8E13	QIVIS R G F PIL VID T A RIV L ID R Y IL IDIV L IAIL IR T F A Q F DIL L — Q T F A G C
UniRef90_R5K088	ATKGESVG DTVKI VSCYADLI AMRHPKEGAPMLASMKSD LGRGEPLS DTAQVLSRYIDAI MIRTYSHADVEQLAKYA
UniRef90_UPI0003783BD4 UniRef90_UPI0004751766	
UniRef90_L9XFE0 UniRef90_E1REB2	L GRGEPL KDTSRTLSRYVDVVMARLFKHDNVEVLAEYS L GRGETIS DTAKVLSRYVLSAIMMRSYSHRTVEELALHS L GRGEPI EDSARVLSRMVDCI MLRTHAHRTVEIF AEY GVRESVP DSARVMSRYTSAVVWRTHGHDRLDELAAYA L GRGEPIS DTAQVMSRYLDGLMI RTFGHDNV VNLAKY
UniRef90_Q606D8	L G R G E P I E D S A R V L S R M V D C I M L R T H A H R T V E F A E Y
UniRef90_E5XPS0 UniRef90_D3EMC8	GVRESVP DSARVMSRYTSAVVWRTHGHDRLDELAAYA LGRGEPLS DTAQVMSRYLDGLMIRTFGHDNV VNLAKY
UniRef90_UPI0004746A17	QLGRGESPADTARVLSRYVDAI MLRTDSAGKLCELVEHA

QUERY UniRef90_R8ATH4	130 140 150 160 N V P V L N A G D G S N Q H P T Q T L L D L F T I Q Q T E G R L D N L H V A M V G V P V F N A G D G A N Q H P S Q T L L D L F T L R E T Q G R L D N I S I A M V
UniRef90_B0TSQ4 UniRef90_G4CTV5 UniRef90_C4LBX2	S V P V I N G G D G S N Q H P T Q T L L D L F S I Y E T Q G T L D K L Q V A F V V P V I N A G D G S N Q H P S Q T L L D L V T I Y E T Q G T L S N L K I A M A S V P V I N A G D G S N Q H P T Q T L L D L F S I Y E T Q G T L D G L K I A F V
UniRef90_Q0TRA8 UniRef90_W0EUV0 UniRef90_R7I5T3	
UniRef90_I7J550 UniRef90_W8TEK5 UniRef90_A5D509	DAPI INAGDEGHQHPTQTLTDLLTILKSLKGTLSNLTILGLC
UniRef90_W1SC01 UniRef90_D7CJ38 UniRef90_UPl00037C2D26	- A S II P V N G D
UniRef90_R5BHL2 UniRef90_D5WRE7 UniRef90_V9H2E0	TVPVINALTDLSHPCQALADYQTILEHKGKLAGLKMAYV SVPVINAGDGANQHPSQTLLDLYAVQKTQGRLDGLTVNMV TVPVINGLTDLHHPCQVLADAMTILEHKSRLEGVTVAYV VPVINAGDGGHQHPTQTLTDLLTIESLKDGLTNHTIGLC
UniRef90_K4LII9 UniRef90_M1ZDQ5 UniRef90_U7USJ3	
UniRef90_UPI0003D0956D UniRef90_I0XB62 UniRef90_D2RBF6	A T V P V I N G L T D T H H P T Q V L A D L L T I K E V K G D L K G L K V A F V R M P L I N A G D G A H N H P T Q T L T D L L T I R H Y K K R F N N L T I G V C K P V I N A G D G G H Y H P T Q T L T D L V T I R Q L T G G L E N H T I G F C T P I I N A G D G G H M H P T Q T L A D L A T I L A R F G R L N N L T V G L C D T P I I N A G D G A N Q H P S Q T M L D L Y S I Y K T Q G S L N D L T I T M V E V P L I N A G D G G H Q H P T Q T L T D L L T M Q L Y S I Y K G R L D N L N I G L C C C C C C C C C C C C C C C C C C
UniRef90_R5B7L5 UniRef90_D3R0M6 UniRef90_R7APE5	TPIINAGDGGHMHPTQTLADLATILARFGRLNNLTVGLC DTPIINAGDGANQHPSQTMLDLYSIYKTQGSLNDLTITMV EVPLINAGDGGHQHPTQTLTDLLTMQIYKGRLDNLNIGLC RIPVINAGDGGHQHPTQTLTDLLTTRSLRGSLGNLTIGLC KYPVINAGDGGHQHPTQTLTDLLTIKRKLGRLTNLRIGIC
UniRef90_W6S4Q2 UniRef90_W4BYH8 UniRef90_G8ZZC0	K Y P V I N A G D G G H Q H P T Q T L T D L L T I K R K L G R L T N L R I G I C D V P V I N G L S D A A H P C Q V L A D F Q T V L E Q K G K L A G L K M A Y I I P I V N G G N G S R E H P T Q A F L D L F T I R E E L G T V N G I T V T F M
UniRef90_C4G9E9 UniRef90_K5ZGR7 UniRef90_I4BJC8	I PVI NAGDGGHQHPTQTLTDLFTLHTLRGSI DHI VVGLC ASVPVI NGLTELSHPCQI LADLLTFEEHKGPVAGQSI AWV SSVPI VNALSDDFHPCQVLADLQTLVERKGALKGLKLAYF
UniRef90_D4JH74 UniRef90_H8IB23 UniRef90_Q74DP5	PV NAGDGGHQHPTQTLADLLT RSLKGRLNN TI GFC
UniRef90_K0B198 UniRef90_U2DQS5 UniRef90_UPI00037F2CDE	A T V P V T N G L D D L E H P C Q V L A D L M T I R E R K G R I K G L K L A WI S C S V I N A G D G A H E H P S Q G L L D M L T M R Q K F G T I E G L T V A I V G V P V W N G L T D K F H P T Q I L A D F L T I K E K K G Y L K G I K F A Y I G I P V I N A G D G G H Q H P T Q T L T D L Y T I R T A K G R L D H L T I G L C G V P V W N G L T N E Y H P T Q M L A D L L T I R E H L G R V K G V K L V Y M V P V I N G G D G G H Q H P T Q T L T D L I T I Q K Y H G E I R G L K V A F C V C V I N G G D G G H Q H P T Q T L T D L I T I Q K Y H G E I R G L K V A F C V C V I N G G D G G H Q H P T Q T L T D L I T I Q K Y H G E I R G L K V A F C V C V I N G G D G G H Q H P T Q T L T D L I T I Q K Y H G E I R G L K V A F C V C V C V C V C V C V C V C V C V C
UniRef90_A8MIU1 UniRef90_A0B8L1 UniRef90_P77918	GVPVWNGLTNEYHPTQMLADLLTI REHLGRVKGVKLVYM VPVINGGDGGHQHPTQTLTDLITI QKYHGEI RGLKVAFC VPVLNAGDGAGHHPTQTLLDLYTI KKESH LDDLSI ALV EVPVINAGDGSNQHPTQTLLDLYTI KKEFGRI DGLKI GLL
UniRef90_UPI000316F9D7 UniRef90_C3P7R4 UniRef90_R6NAZ9	TIPVINGLT DLY HPCQALADIETIVENKGKLKGLKTAYV SSIPVINGLT DDHHPCQALADLMTIYEET NT FKGIKLAYV
UniRef90_E1QP27 UniRef90_B0K2E9 UniRef90_R4SWA1	PV NA G D G G H Q H P T Q T L T D L L T R S L K G R L D N T G L C V V P V N A L S D R E H P L Q V L A D A L T L WE V K G R L D G K L A F V A S I N A G D G N E H P T Q A L L D M M T R E K K E S F E G L K V A I A S P V N A L T D E F H P C Q V L T D L M T R E R K G K L A G L T L V Y L
UniRef90_C0GH81 UniRef90_UPI0004657A86 UniRef90_UPI00037B5CFD	A DII
UniRef90_D6X207 UniRef90_UPI00047901B9 UniRef90_J7IKS4	K P L N A G D G V G E H P S Q A L D F T R E E L G T V N G L T T L V R A P V N A G D G G H M H P T Q T L A D L A T L R Q R C G R L T D L T V G L C
UniRef90_F4X7C6 UniRef90_S2Y0U0 UniRef90_R7PBF7	K PILLNAGDGTGEHPTQALLDIFTIRDEFGTVNGLTITMV
UniRef90_M1YQA9 UniRef90_C4K7I6 UniRef90_K2P349	Q
UniRef90_UPI0003B2E246 UniRef90_R6J1S2 UniRef90_H1HRP2	G
UniRef90_R6Q9R8 UniRef90_F0FAW9 UniRef90_L0KXF1	VPI I NAGDGGHQHPTQTLTDLMTI QSLKGRLDHMTVGLCVPI I NAGDGGHSHPTQTLADLLTI FREKGRLDNMTVGLCPVPI I NAGDGAHQHPSQCLLDLYTI CQTQGTLENLNI YLVSVPVI NALSDVEHPCQI LSDLLTI REYKNHFDGLKYVWV
UniRef90_UPI00047904B9 UniRef90_Q74GU2 UniRef90_A2BJ24	V P I I N A G D G G H Q H P T Q T L T D L M T I Q S L K G R L D H M T V G L C V P I I N A G D G G H S H P T Q T L A D L L T I F R E K G R L D N M T V G L C P V P I I N A G D G A H Q H P S Q C L L D L Y T I C Q T Q G T L E N L N L Y L V S V P V I N A L S D V E H P C Q I L S D L L T I R E Y K N H F D G L K Y V W V A T I P V I N G L T D S Y H P C Q V L A D L Q T I E E V K G G L S G V K L A Y I S S V P V I N G L T D L F H P C Q I M A D L F T V I E Y K G G Y Q G L K F A W V E H P V I N A G D G K Q H H P T Q A M L D L Y T V R K L F G T I D G L T Y G V L T I P V V N A L S D D F H P C Q V L A D L Q T I A E Q K G K L A G L T L T Y L T I P V V N A G D G G H Q H P T Q T L A D L L T I R A K F N R L N N L K I G F C S I P V I N A G D G G H Q H P T Q T L A D I L T I Y R E K G R L N D L T I G M C L V P F I N A G D G G G H Q H P T Q T L T D L L T I S Q N K K T L E N M T I G L C S V P V W N G L T D E D H P T Q V L A D F M T I K E K L G K L E G I R F V Y A G V P V W N G L T N E Y H P T Q M L A D M L T I R E H F G T L K G I K L T Y M
UniRef90_UPI000381E6C8 UniRef90_D9SWU0 UniRef90_R6EUQ0	TI PV VN ALS D D F H P C QV L A D L Q T I A E Q K G K L A G L T L T Y L T I PV I N A G D G G H Q H P T Q T L A D L I T I R A K F N R L N N L K I G F C SI PV I N A G D G G H N H P T Q T L A D I L T I Y R E K G R L N D L T I G M C
UniRef90_A8SKG8 UniRef90_H8I482 UniRef90_N1ZDW4	SIPVINAGDGGHNHPTQTLADILTIYREKGRLNDLTIGMCLVPFINAGDGGHQHPTQTLTDLLTISQNKKTLENMTIGLCSVPVINAGDGAGHHPTQTLTDLLTISQNKKTLENMTIGLCSVPVINAGDGAGHHPTQTLLDLYTMRKCRKPIEDLNVAIVSGVPVWNGLTDEDHPTQVLADFMTIKEKLGKLEGIRFVYAAGVPVWNGLTNEYHPTQMLADMLTIREHFGTLKGIKLTYM
UniRef90_R7R578 UniRef90_UPI0003B517B3 UniRef90_D5EAC7	SHI I NAGDGAHEHPT QAILIDAILTI RORKKKI SGI KI VIA
UniRef90_W0K316 UniRef90_C2BD31 UniRef90_Q3AL44	TVPVINALSDKEHPCQILADLLTIKEYKSTLEGQKLTWVVPVVNAGDGAGHHPSQTLLDLYTIREQ AGLEDLSIGIMCPIINAGDGGHQHPTQTLTDMLTISNYKESFENHVIGICASVPVINALTDLEHPCQALADFLTMREAHGALPGQTLAYV
UniRef90_S7UY81 UniRef90_D4K1F0 UniRef90_UPI00034D8E13	A S V P V T N A L T D L E H P C Q A L A D F L T M R E A H G A L P G Q T L A Y V T I P V I N A G D G A G Q H P T Q A L L D L Y T I K D H F S E I N N L K V A M V A G V P V I N G L T D Y A H P C Q V L A D L M T I R E R R G A L A G Q K L C F V A K I P V I N A L S D R A H P C Q T L A D L L T V Q E C F G R L E G V T L T Y L
UniRef90_R5K088 UniRef90_UPI0003783BD4 UniRef90_UPI0004751766	A KI PVI N ALS D RA H P C QT L A DL L T V Q E C F G R L E G V T L T Y L V P I I N A G D G G H S H P T Q T L A D L L T I K R E K G R L D N L T I G L C SI P I I N G L T D M F H P C Q A L A D M M T I L E H K G R L Q G V K L A Y V A SI P V I N A L T D L E H P C Q L L A D L L T I Q E E F G T L K G L T L A Y L
UniRef90_L9XFE0 UniRef90_E1REB2 UniRef90_Q606D8	TIPVINGLIDDA HPCQILA DILLITIRE EMDGFDGVSA A WV SRVPVINGLIDDA HPCQILA DIMTMRENFNNLEDLTIA WI SRVPVINGLIDR F HPCQILA DMQTYFEHRGDIA GKTVA WI
UniRef90_E5XPS0 UniRef90_D3EMC8 UniRef90_UPI0004746A17	T V P V V N A L D D V F H P C Q V L A D L L T I S E R K G S L K G L R L V F L A S I P V I N G L S D M A H P C Q V L A D L Q T V L E H K G K L K G L K M A F I T V P V I N G L T D L S H P C Q I M A D V M T F E E H R G P I A G Q V V A W T

QUERY UniRef90_R8ATH4	G D L K Y G R T V H S L T Q A L A K F D G N R F Y F I A P D A L A M P E Y I L D G D L K Y G R T V H S L T Q A L A K F N G N R F Y F I A P D A L A M P D Y I L E
UniRef90_B0TSQ4 UniRef90_G4CTV5 UniRef90_C4LBX2 UniRef90_Q0TRA8	G D L K Y G R T V H S L T Q A L S L F D C E F H F V A P P A L S M P E Y I D G D L K Y G R T V H S L A Q A L K R W G C S F A F V S P P S L A M P A Y I T E G D L K Y G R T V H S L A Q A L S L F G A R F Y F I S P E A L A M P D Y I C E
UniRef90_W0EUV0 UniRef90_R7I5T3 UniRef90_I7J550 UniRef90_W8TEK5	G D L K F G R T V H S L T K A L S R Y K N N K F T L I S P T E L R P N Y T R E Q G D L K Y G R T V H S L L M A M S H F N P T F H F V A P D E L K M P T E Y K I F G D L K F G R T V H S L I G A M S R Y P G V E F V L I S P P E L R V P A Y I T Q G D L K F G R T V H S L I K A M S R Y E N N K F I L I S P K E L K P D Y I K K E G D L K F G R T V H S L I K A F S R Y P G N K F I L I S P Q E L K I P Q Y I K T
UniRef90_A5D509 UniRef90_W1SC01 UniRef90_D7CJ38 UniRef90_UPI00037C2D26	GDLKYGRTVHSLLMAMSHFNPTFHFVAPDELKMPIEYKIFGDLKFGRTVHSLIGAMSRYPGVEFVLISPPELRVPAYITQGDLKFGRTVHSLIGAMSRYENNKFILISPKELKPDYIKKEGDLKFGRTVHSLIKAFSRYPGNKFILISPKELKPDYIKKEGDLKFGRTVHSLIKAFSRYPGNKFILISPQELKIPQYIKTGDG NNVCHSLLFGCAKTG MHISVASPEGYKPKEEIVRGDG NNWCHSLLFGCAKTGMN FSIASPEGYLPNGKVIEGDG NNNWCHSLLVGGAKVGMNV VVACPPGFAPKHEIMKGDG NNMVHSLLVEGAKVGMNV VVACPPGFAPKHEIMKGDG NNMVHSLWIGAAKLG LHISIASPEGYDMDEMIISGDLKYGRAVHSLVEALRWFDP RFIFTSPEELNMPKKYLEGDG NNMANSWLVGAPLFGMNLRVATPQGYECDPGVAARGDLKNGRTVHSLIKAMSRYEGTKFILISPKELIPVYIREE
UniRef90_R5BHL2 UniRef90_D5WRE7 UniRef90_V9H2E0 UniRef90_K4LII9	GDG NNMVHSLMGAAKLG LHISIASPEGYDMDEMIIS GDLKYGRAVHSLVEALRWFDP RFIFTSPEELNMPKKYLE GDG NNMANSWLVGAPLFGMNLRVATPQGYECDPGVAAR GDLKNGRTVHSLIKAMSRYEGTKFILISPKELIPVYIREE GDG NNVAHSLLEICAKMG VHMTVACPPGYEPDSGLLS
UniRef90_M1ZDQ5 UniRef90_U7USJ3 UniRef90_UPI0003D0956D UniRef90_I0XB62	G D G K N N M A H S L L E G A A L T G M H L V I G T P A G F E P D P E L F H Q A G D L K F G R T I H S L V R A M N R Y E N V K F V F I S P E E L K M P K V F G D L K H G R T V H S L A C L L T Q Y R L N L R Y V T P H S L R M P D D I I H G D L K F G R T V H S L A E A M R H Y K G N K F I F I S P K E L T V P D Y L I K
UniRef90_D2RBF6 UniRef90_R5B7L5 UniRef90_D3R0M6 UniRef90_R7APE5	GDLTYGRTVHSLIETLCRFGNVHFVLISPDELKPQYVIDR GDLKYGRTVHSLLMAMQ YFNPTFHFVACPELQMPKEYKD GDLKYGRTVHSLIKVMSLFPNNRFTLISPAELKPGYFKRS GDLKFGRTVHSLINSLIRYDNVKFVLISPKELRVPDYIRD
UniRef90_W6S4Q2 UniRef90_W4BYH8 UniRef90_G8ZZC0 UniRef90_C4G9E9 UniRef90_K5ZGR7	GDLK F GR TV H S L T K ALARY E GN S F V WI S F R E LD F M T I R E E G D G N N M A H S L M L G A K M G M H V A V A T P E G Y E P D S A V V E G D L K Y G R P V H S L C R L L Q H Y Q V R I N L V S P N E L R L P T A L R K E G D L K F G R T V H S L I T A M S R Y E G I S F V L I S P P E L R P G Y I R E D G D G N N V A A S E I E A A A R E N E K V R I A C P E G V I P R P E V L A
UniRef90_I4BJC8 UniRef90_D4JH74 UniRef90_H8IB23 UniRef90_Q74DP5	GDLKYGRAVHSLUEALRWFDPRRTIFTSPEELNMPKKYLE GDG NNMANSWLVGAPRGMNLRVATPQGYEODPGVAAR GDLKNGRTVHSLLELCAKMG GDLKNGRTVHSLLELCAKMG GDLKFGRTVHSLLELCAKMG GDLKFGRTVHSLLELCAKMG GDLKFGRTVHSLLELCAKMG GDLKFGRTVHSLLELCAKMG GDLKFGRTVHSLLELTQYRLNLRY VITPHSLRMPDDLLH GDLKFGRTVHSLLETCRFGNVHFVLISPKELLTVPPVLIDR GDLKFGRTVHSLLETCRFGNVHFVLISPKELLRVPPVILDR GDLKFGRTVHSLLETCRFGNVHFVLISPKELLRVPPVILDR GDLKFGRTVHSLLAEALLRAMQ YFNPTTHFVLISPKELLRVPPVILDR GDLKFGRTVHSLLAEALLRAMQ YFNPTTHFVLISPKELLRVPPVILDR GDLKFGRTVHSLLIKAMQ YFNPTTHFVLISPKELLRVPPVILR GDLKFGRTVHSLLIKAMQ YFNPTTHFVLISPKELLRVPPVIRR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLRVPTALR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLRVPTALR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLRVPPVIRR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLRVPTALR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLSVPPALR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLSVPPALR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLSVPPALR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLSVPPALR GDLKFGRTVHSLLIKAMQ YRINLVSPRELLSVPPALR GDLKKFGRTVHSLLIKAMQ YRINLVSPRELLSVPPALR GDLKKFGRTVHSLLILLASAKK GMHVR VLASPPELLKMPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLIKAMQ YRINLVSPRELLSVPPALLA
UniRef90_K0B198 UniRef90_U2DQS5 UniRef90_UPI00037F2CDE UniRef90_A8MIU1	GDGRNNMANSLLIGAAK MGMDFRIVAPKELFPEDEIVK GDLKFGRTVHSLIEAMCRYEGVTFYCISPEELSLPNYIIA GDARYNMGNSLMI LCAKMGMHFVACAPKKYFPNDECEA GDLLFGRTVHSLLKTLSRFPDMEFILISPPELPIPEDLKT
UniRef90_A0B8L1 UniRef90_P77918 UniRef90_UPI000316F9D7 UniRef90_C3P7R4	G D L K Y G R T V H S L A Y A L S L Y G A D I Y L V S P P T L R M P E Q I I G G D L K Y G R T V H S L A E A L T F Y D V E L Y L I S P E L L R M P R H I V E G D G N N V A H S L V V A A A H V G M D I V V A T P K G Y E P M K K A Q A G D G N N V C H S L L L A S A K V G M H M T V A T P V G Y K P N E E I V K
UniRef90_R6NAZ9 UniRef90_E1QP27 UniRef90_B0K2E9 UniRef90_R4SWA1	G D L K F G R T V H S L I E A L V R Y E G V K F V L I S P E E L R I P D Y I R E G D G D N N V A H S L MI I G A K L G W E V R I I S P K K Y W P S K F A E L L T G D I M H S R V A R S N I W G L K K M G A E V R V A G P S T L M P P A I E K L G D G A N N M A H S L L L G G T T A G M H V R V Y S P E G F Q P D Q Q V M L
UniRef90_C0GH81 UniRef90_UPI0004657A86 UniRef90_UPI00037B5CFD UniRef90_D6X207 UniRef90_UPI00047901B9	GDG NNVANSLLLAUSKFGMNVAVASPKGYEUPKDAAQI GDGANNMAHSLLLGGVTAGMHVR IAAPEGFHPLPWVLD GDLKYGRTVHSLLEGTSHFNPTFSFVAPRQLELPREYVDY GDLKNGRTVHSLLETLCRWGNLHEVLVSPPFLRWPOYVDD
UniRef90_J7IKS4 UniRef90_F4X7C6 UniRef90_S2Y0U0 UniRef90_R7PBF7	GDG NNMAHSLMFGGAKMG LHVVLAAPQGYKPDSGI I A GDLKHGRTVHSLARLL TLYNVELRYVNPPGLDMPNHVVN GDARYN MGNSLMIACAKMGMHFVACAPEKYFPDQEECRK GDIKYGRTVHSI LMAMRHFSPTFHFII APKFI AMPFFYKIY
UniRef90_M1YQA9 UniRef90_C4K7I6 UniRef90_K2P349 UniRef90_UPI0003B2E246	GDLKFGRTVHSLIKAMSRYENIKFILISPQELQIPEYIKM GDLKYGRTVHSLTKALSTFPNNEFFLISPPELSMPCPLVK GDG NNVLHSLIEASARMDFRLNIAVP QGSEPMAQYVD GDARYNIG NSLCIVCSKLGLNLTLCAPEKYFPLVDECDK
UniRef90_R6J1S2 UniRef90_H1HRP2 UniRef90_R6Q9R8 UniRef90_F0FAW9	G D L K F G R T V H S L T K A M C R Y T D V E F V L T S P K E L A V P D Y T K T G D L K F G R T V H S L T S S L T R Y P G T R F V L T S P P E L R T P G Y T R E G D L K F G R T V H S L T K A M T R Y K N V K F V L T A P K E L A P D Y T K T D G D L K Y G R T V H S L T M A M R H F N P T F H F T A P K E L A M P E E Y K L Y
UniRef90_L0KXF1 UniRef90_UPI00047904B9 UniRef90_Q74GU2 UniRef90_A2BJ24	GD GNNVCNSAILGCAIVGMQMVVACPPGYEPDEKIVK GD GNNMAHSLMLGGSIMGMDIIIAAPGGYQPEKAITK GDG NNMANTWIEAAAILGFDLALACPTGYEPDRQVWDW GDLRYGRAASSFILALTIYRPRMIYLISPPLLRVRPEVRM
UniRef90_UPI000381E6C8 UniRef90_D9SWU0 UniRef90_R6EUQ0 UniRef90_A8SKG8 UniRef90_H8I482	GDLKFGRTVHSLAQAFSEYENNSFVFISPKELKMPDYVKQ GDLKYGRTVHSLIEAMSERKGIKIVLISPDELRPGYIKKD GDLKYGRTVHSLIEAMSERKGIKIVLISPDELRPGYIKKD
UniRef90_N1ZDW4 UniRef90_R7R578 UniRef90_UPI0003B517B3 UniRef90_D5EAC7	GDGRNNMSNALMI GCAKMGLHYVVASPESLYPEKQCKV GDARYNMG NSLMIACSKLG MHFTACTAKEYFPAAECQE GDILHSRVARSNALLLKKLGAEVVFVGPPLLLPPYFSTLG GD GNNVCNSMILGCVLVGMELAVACPDGYFPDDDLVK
UniRef90_W0K316 UniRef90_C2BD31 UniRef90_Q3AL44 UniRef90_S7UY81	GDLKYGRTVHSLAHALTNFD ARQHFVSPESLRLPRGVRY GDLKYGRTVHSLIKI LNLFEGNKYI LISPEELKLPQYVKE GDGNNVAHSLMLCGALLGVNVQIGCPEGFEPLPGVLEQAQ GDLKYGRTVRSLSYLLTKYSGIRIVFVSPPVCRMASDIKS
UniRef90_D4K1F0 UniRef90_UPl00034D8E13 UniRef90_R5K088 UniRef90_UPl0003783BD4	GDG ANNMAHSLLLGGVTAGMHVR I AAPEGE HP WVLD D GDGANNMAHSLLLGGVTAGMHVR I AAPEGE HP WVLD D GDLKYGRTVHSLLLEGTS HENPTF SFVAAPRQELPREYVDY DY GDLKNGRTVHSLLLEGTS HENPTF SFVAPRAF VI SPPSL KMPPSHI TS GDLKNGRTVHSLLARLL TLLYNVVQLRYVSPPSL KMPPSHI TS GDLKNGRTVHSLLARLL TLLYNVVQLRYVSPPSL KMPPSHI TS GDLKNGRTVHSLARLL TLLYNVVQLRYVSPPSL KMPPSHI TS GDLKNGRTVHSLARLL TLLYNVVQLRYVSPPSL KMPPSHI TS GDLKNGRTVHSLARLL TLLYNVVQLRYVSPPSL KMPPSHI TS GDLKNGRTVHSLARLL TLLYNVVLRLXYVNPPGL DMPNHVVN GDDLKHGRTYN MGNSLMHACAK MGMHFVACAPPKYFPDDQEEQRK GDLKYGRTVHSLLARLL TLLYNVVLRLXYVNPPGL DMPNHVVN GDDLKYGRTVHSLLARLL TLLYNVVLRLXYVNPPGL DMPNHVVN GDDLKYGRTVHSLLARLL TLLYNVVLRLXYPPPBL VNDEQX GDLKYGRTVHSLLARL TLLYNVVLRLXXYVNPPGL DMPNHVVN GDDLKYGRTVHSLLARL TLLYNVVLRLXXYPPPBL VNDE GDLKYGRTVHSLLKAMSRYFTDVRFFVL I SPPELQLAMPEEY KLYY GDDLKFGRTVHSLLKAMSRYTDVRFFVL I SPPELQLAMPEEY KLYY GDDLKFGRTVHSLLKAMSRYTDVRFFVL I SPPELQLAMPEEY KLYY GDDLKFGRTVHSLLKAMSRYTDVRFFVL I SPPELQLAMPEEY KLYY GDDLKFGRTVHSLLKAMSRYTDVRFFVL I SPPELLRLAPPDYI KTTY GDDLKFGRTVHSLLIKAMSRYTDVRFFVL I SPPELLRLAPPDYI KTY GDDLKFGRTVHSLLIKAMSRYTDVRFFVL I SPPELLRLAPPDYI KTY GDDLKFGRTVHSLLIKAMSRYTDVRFFVL I SPPELLRLAPPDYI KKTY GDDLKFGRTVHSLLIKAMSRYTDVRFFVL I SPPELLRLAPPDYI KKTY GDDLKFGRTVHSLLIKAMSRYTDVRFFVL I SPPELLRLAPPDYI KKY GDDLKFGRTYNAMSRY I SPPELLRLAPPDYI KKY GDDLKFGRTYNAMSRY I S GDDLKFGRTYNAMSRY I S GDDLK
UniRef90_Q606D8	GDGNNMCQTYVHAAGLLDF RLRIACPPGYEPEAELV
UniRef90_E5XPS0 UniRef90_D3EMC8 UniRef90_UPI0004746A17	GDGANNMAHSLLLAGATAG IDVVVAAAPEGFHPDPDAVAGDG NNMAHSLLIGGAKMG MHVAVASPKGYEADASIVKGDG NNVARSFIQAAARFDFTL RVATPPELSPPAQLVD

QUERY	210 220 230 240 MLDEKGIAWSLHSSIEEVMAEVDILYMTRVQKERLDPSEY
UniRef90_R8ATH4 UniRef90_B0TSQ4 UniRef90_G4CTV5 UniRef90_C4LBX2	210 220 MIL D E K G
UniRef90_Q0TRA8 UniRef90_W0EUV0 UniRef90_R7I5T3	LEKNNIEYKEITSLEEGIKEADILYMTRIQRERFDQSEY CEQHHIPYYEHTEFSEEVINQADILYMTRVQRERFDLMEY KLADDGIPFREVETMEEVMPELDVLYMTRVQKEFFNEADY
UniRef90_I7J550 UniRef90_W8TEK5 UniRef90_A5D509	V L E K N N II E F IL E V E R M E D V I G K IL D IL L Y M T R V Q R E F F N E E E Y Q V L E K N N II E F I E T E K I D E V M G D IL D Y M T R V Q K E R F F N E E D Y D A E Q T G S R I E I L T S P V E A V S G A D V V V T D V W A S M G Q E Q S R R
UniRef90_W1SC01 UniRef90_D7CJ38 UniRef90_UPI00037C2D26 UniRef90_R5BHL2	DAEETGAKL WV VEDPAEAV DGADV I YT DV WAS MGQEKHEK QAKDLAAKL VI TRDPKEAV QDADV I YT DV WAS MGFEQQER MIDHEGIDY ROT DRIJEDGI DECDI I YMT RIV QOFEPDOFFY
UniRef90_D5WRE7 UniRef90_V9H2E0 UniRef90_K4LII9	A Q E R A G T E M S L V H D P R E A V A G A D V I Y T D V W A S M G Q E A E E R L L I K N N I E F K E V E K L E D V I D E L D I L Y M T R I Q K E F F N E E E Y E A R S D A A Q L E V T E D P E D A V R D A D V I Y T D L W A S M G Q E Q E R R
UniRef90_M1ZDQ5 UniRef90_U7USJ3 UniRef90_UPI0003D0956D UniRef90_I0XB62	KRSMTEGSVQVTTSPEEAVAEADVVIJTDVWASMGQEEESE LDELPKESYRETSDLEGSIPDLDILYMSRVQRERFSEEEY FVASKGLKQEEFDSLEEALPDTDVLYMTRIQKERFSTQEY
UniRef90_D2RBF6 UniRef90_R5B7L5 UniRef90_D3R0M6	I I DTPSCTYEETRDLMEVIGKLDVLYMTRVQEERFTDREY FCKEHGIKYYEHTDFSPEVIAASDYMTRVQRERFSDLMEY VIEAGNISYTETGSLEESIPDLDILYMTRIQKEFYSEADY
UniRef90_R7APE5 UniRef90_W6S4Q2 UniRef90_W4BYH8	DVEANHVEYKEVEKLEDVMPELDILYMTRVQREFFNEDEY LDRIGNVEYIETTSLEEHIEDLDILYMTRIQRERFDKEEY QARLIGSEVTVTYSAQEAAKDADIVYTDVWASMGFEEEQR
UniRef90_G8ZZC0 UniRef90_C4G9E9 UniRef90_K5ZGR7 UniRef90_I4BJC8	VLEANHIPYREVVSLDELMPELDILYMTRVQKEFFNEEDY WAKAEGADVALGQDPAWAVENAACVVTDTWLSMSDSEDER RARQTGASVSVIDDPLRAADGADVLVTDTWTSMGQENDDR
UniRef90_D4JH74 UniRef90_H8IB23 UniRef90_Q74DP5	DVRANNIEFKEVEKLEDAMGELDVLYMTRVQKEFFNEEDY RARAMRGQIEIMRNPKDAAEGADILYTDVWVSMGDEKDKR GNVTVCRDMREAIEGVDVVMMLRIQLERQGKTLL
UniRef90_K0B198 UniRef90_U2DQS5 UniRef90_UPI00037F2CDE UniRef90_A8MIU1	AILKEIDGKI II I DNI DEGVKGVDVI YI DVWVSMGEEDQER QMEAAGAAFHQVRTMEE <mark>CI</mark> GRLDVLYMTRVQGERFDRAEY FAKESGATI TLTEDVEAGTKNADVI YTDVWVSMDEVWEER FVLEKYNVKI TETDEKHMAEIDI I VMTRV OKERFI NOEDY
UniRef90_A0B8L1 UniRef90_P77918 UniRef90_UPI000316F9D7	DLSRMGTRVREVSDLREVIKEVDVLYITRIQREFPDPVEY ELREKGMKVVETTTLEDVIGKLDVLYVTRIQKEFPDEQEY LAEKNGSTVVVTNDPLEAVKDADVIYTDVWTSMGQEEEAA
UniRef90_C3P7R4 UniRef90_R6NAZ9 UniRef90_E1QP27 UniRef90_B0K2E9	KAKETGAELEI LHNPELAVNEADFI YT DVWMS MGQEEEEK DVLKASGHEFI EVEREEAMPSLDLLY MT RVQREFF NEEDY EDSRTGANI VISDNIEDVRGVDAVY T DVWVS MGMEAEER
UniRef90_R4SWA1 UniRef90_C0GH81 UniRef90_UPI0004657A86	DAKHRSGSTTVFTDPYAAVEGADVVVTTDTWTSMGQENDGL NAKIGGTTVTLTDNPQEAVKNADVVYTDVWASMGQEDEHR AVAKRAAETSVFTDPHAAVDGADVVTTDAWTSMGQEGRDR
UniRef90_UPI00037B5CFD UniRef90_D6X207 UniRef90_UPI00047901B9	CAEHGIEADYHNELTSEVIAKSDIVYMTRLQRERFDEEDY FVASKGIPQNEHSTLEEVLPDTDVLYMTRIQRERFSQEEY RIDKASGCSYFOVRDIAGVIGDVIYMTRVOKFRFFSFDFY
UniRef90_J7IKS4 UniRef90_F4X7C6 UniRef90_S2Y0U0 UniRef90_R7PBF7	DAKANGGL VEV VDDPAEAV KGADV LYTDV WASMGQEAESK YVAERGISQERFSTLEEALPDTDV LYITRIQNERFATQEY FAEESGATITLTKDVSTGTKDADIIYTDVWVSMDSVWEER
UniRef90_M1YQA9 UniRef90_C4K7I6 UniRef90_K2P349	CKQNHIKYIEHEDLNENLISEADILYMTRVQRERFDLMEYEILNKKNIPFIEVERLEDVIDDILYMTRVQRERFDLMEYEILNKKNIPFIEVERLEDVIDDILYMTRIQQERLKPEHRWARANGGRVAFQKTAEAAVDGADCVVTDTWVSMGQEHRARWCQESGGSITLESDVDKAAAGADIIYTDVWVSMDAVWAERDVLDASGMKYTEVEHMEDVMPDVLYMTRIQRERFFSEDEYDVLEKNRIPFTEVDSLEAMPDLDILYMTRVQKEFFNEEDYLDKSGSEYKEVETMEEAMPELDVLYMTRVQKEFFSEDEYCREHGIRFEEHEAFTPDVIAKADILYMTRVQKERFDLMEY
UniRef90_UPI0003B2E246 UniRef90_R6J1S2 UniRef90_H1HRP2 UniRef90_R6Q9R8	WCQESGGSIITLESDVDKAAAGADII IYT DVWVS MDAVWAER DVLDASGMKYTEVEHMEDVMPDVLYMTRI QRERFFSEDEY DVLEKNRIPFTEVDSLEAMPDLDILYMTRVQKEFFNEEDY
UniRef90_F0FAW9 UniRef90_L0KXF1 UniRef90_UPl00047904B9	CREHGIRFEEHEAFTPDVIAKADILYMTRVQKERFDLMEY QARELGGDITITDDPFEAAKGADVLYTDVWVSMGDEDQKR HAQSLAASNEVTSDVAAAVDKADVVYTDVWASMGQESEQR AQQRATSSLTLTEDPEEAVRDADVVNTDVWASMEQEQKER
UniRef90_Q74GU2 UniRef90_A2BJ24 UniRef90_UPI000381E6C8 UniRef90_D9SWU0	A Q Q R A T S S L T L T E D P E E A V R D A D V V N T D V WA S ME Q E Q K E R V L D E R G M R Y R E V E S L E E V L G E L D V L Y V T R L Q R E F P D Q R E Y Y A A E R G G S V T V L G D P Q E A V A G A D V L V T D T W T S M G Q E G K D R E F D D R Y
UniRef90_R6EUQ0 UniRef90_A8SKG8 UniRef90_H8I482	VLDERGMRYREVESLEEVLGELDVLYVTRLQREFPDQREY YAAERGGSVTVIGDPQEAVAGADVLVTDTWTSMGQEGKDR ELEQKDMPYIETDNLEDAIADLDIIYMTRVQKERFEDDEY VMDKKGMEYEEIGSLEQALPGLDVLYMTRVQRERFDSEEY YLNDRNVEFIEVRTIEEVMDKLDILYMTRVQREFFNEADY YLRKQGVELVETPRIDDVLADADVLYMTRVQREFFNEADY
UniRef90_N1ZDW4 UniRef90_R7R578 UniRef90_UPI0003B517B3	Y A E E S G G S I T V T S D M K Q A V K N A D V I Y T D V WV S M G E E A K T K Y A K E S G A T L T L T E D V D A G T K N V D V I Y T D V WV S M E E V W A E R A K A K A K B D Y N L D R A V K G A D V I M M L R I Q L E R Q A K N F F
UniRef90_D5EAC7 UniRef90_W0K316 UniRef90_C2BD31 UniRef90_Q3AL44	Y A E E S G G S I I V I S D M K Q A V K N A D V I Y I D V WV S M G E E A K I K Y A K E S G A T L T L T E D V D A G T K N V D V I Y T D V WV S M E E V W A E R A K M A R E M G G K V E L L R D P I E A S T D A D V L Y T D V W I S M G D E E D K R D L H E A G A Q V R E H E E L E N V L P N L D V L Y T D V W I S M G D E E D K R D L H E A G A Q V R E H E E L E N V L P N L D V L Y V T R I Q R E F P D E D E Y E V F D E N S Q Y E E V R S L D E V I D K I D I L Y M T R I Q R E F Y S D A Q Y S L A Q H G A S I E V M S D P R E A V A G A Q A V Y T D V W A S M G Q E Q A Q R Y L D K E G I P W A E D T D L D N V L P Q V D C V Y M T R I Q K E R F I I P E Y F A H K Y G S A F R L L E D P S E G V K D A D V V V T A V W N P G T S E S E S R E I A K G K S E V T V T G D P V A A V K G A Q V I Y T D V W A S M G Q E F E A R
UniRef90_S7UY81 UniRef90_D4K1F0 UniRef90_UPl00034D8E13	YLDKEGIPWAEDTDLDNVLPQVDCVYMTRIQKERFIIPEY FAHKYGSAFRLLEDPSEGVKDADVVVTAVWNPGTSESESR EIAKGKSEVTVTGDPVAAVKGAQVLYTDVWASMGQEEEAR
UniRef90_R5K088 UniRef90_UPI0003783BD4 UniRef90_UPI0004751766 UniRef90_L9XFE0	EI AKGKSEVT VTGDPVAAVKGAQVLYTDVWASMGQEEEAR VLDRNNIPYKEVYTMDEVMGELDVLYMTRVQKEFFNEADY YADESGASLTFTDDPVQAVTGADAIYTDVWTSMGFENEVR QANRLMGKVLVTTDPDLAVKDAQILYTDVWASMGQESEQR RARELGGDPTTTTDPVDAVTDADVVYTDVWTSMGQEDEYR
UniRef90_E1REB2 UniRef90_Q606D8 UniRef90_E5XPS0	RARELGGDPTTTTDPVDAVTDADVVYTDVWTSMGQEDEYR LAEKAGAYVKFFDNPRDAVSGADVIYTDTWISMGRENEKE EAAGKCVEVGHDVRTAVNGADLVVTDVWASMGQESEQT RGELTGARPQIVADPVKAVEGADVVVTDAWVSMGQEPRDR LSEELAAQITITQDPLEAAKDADVIYTDVWASMGFEEEQR
UniRef90_D3EMC8 UniRef90_UPI0004746A17	LS E E L A A Q L T L T Q D P L E A A K D A D V L Y T D V WAS M G F E E E Q R WARAEGARLEVT D D A V A A V R G A R C V V T D T WVS M S D E E D R R

QUERY	250 260 270 A NVK A Q F V L R A S D L H N A K A N M K V L H P L P R V D E I A T D V D K	
UniRef90_R8ATH4 UniRef90_B0TSQ4 UniRef90_G4CTV5 UniRef90_C4LBX2		T
UniRef90_Q0TRA8 UniRef90_W0EUV0 UniRef90_R7I5T3 UniRef90_I7J550	ERLKDVYVLDEAKMKGAKEDMMVLHPLPRVNEIAYEVDEEKVKNVYTLRNSMLEHSKENLRVLHPLPRVNEISYDVDSIRLKDTYILDPDKLKTAKPDMAILHPLPRVNEISTKVDALRLKDSYILDKAKLKGAKEDMIILHPLPRVNEIAVEVDA	D N D
UniRef90_W8TEK5 UniRef90_A5D509 UniRef90_W1SC01	I R L K D S Y L L D R D K M A M A K E D M I V L H P L P R V N E I S Y E V D E V R V F A P Y Q V N R Q L T G H A R P D Y I F L H C L P R G E E V T D E I I D L K V F E S Y Q V N E D L C K L A K N D F I F L H C L P R G E E V T A D I L D	D G G
UniRef90_D7CJ38 UniRef90_UPI00037C2D26 UniRef90_R5BHL2 UniRef90_D5WRE7	EKHFARYQVNASLLGKAKPDVIVMHCLPRGREIITDEVMD EAAFKDFQVNEELAKHAKPDYLFMHCLPRGEEVSAGVID DKVKDVYRLTASMLGGVKPNMKIMHPLPRVNEISTDVDD LRAFAGFEVTPALVARAAPDYLFMHCLPRGEEVAPDVID	G G T G
UniRef90_V9H2E0 UniRef90_K4LII9 UniRef90_M1ZDQ5	IRLKDSYLLDVEKMKLAKKDMIVMHPLPRVNEISLEVDR SKVFRRYQVNSALLKKAAPDAIVLHCLPRGEEITDEVMD KRKLAPYQVNSRLVQYAKSDYLFLHCLPRGEEVTEEIJD	D G G
UniRef90_U7USJ3 UniRef90_UPI0003D0956D UniRef90_I0XB62 UniRef90_D2RBF6	VRLKDFFILDKEKLKQAKADMIVMHPLPRVNEIATDVDDEACFGQFVLTPHSMTRAKKKMVVMHPMPRVNEISVEVDSIRLKDSYILDTERMKLARKNMLVLHPLPRINEITPEVDDLRLRDTYILTEEKLQKAKSHMPVLHPLPRINEITAVDVDD	
UniRef90_R5B7L5 UniRef90_D3R0M6 UniRef90_R7APE5	EKVKNLYTLRNSMLDVAKDNLRVLHPLPRVNEIDRDVDDIRLKDSYILTAAMLQQAKPDLAILHPLPRVNEISKDVDSLRMKNFYILDAEKMQLAKPDMYVLHPLPRVNEISVEVDDERLKDSYILTVDKLENAKEDMIILHPLPRVNEIDYHVDE	N D D
UniRef90_W6S4Q2 UniRef90_W4BYH8 UniRef90_G8ZZC0 UniRef90_C4G9E9	E RLK DS YIL I VID KLE N A K E D MI I L H PL P RVN E I DY H V D E E Q A F A A Y Q V D E E L M K G A K P D Y M F L H C L P R G E E V S A G V L D E R L K D V Y V V D N K I L S H A K K H M A V M H P L P R V N E I K E E V D Y L R M K D F Y L L T P E K M K R A R K D M F V L H P L P R V N E I S V E V D Q A K I F A P Y Q V T N A L M G K A A P G A I F Q H C L P R G E E V T A E V I D	D G D
UniRef90_K5ZGR7 UniRef90_I4BJC8 UniRef90_D4JH74	AKIFAPYQVTNALMGKAAPGAIFQHCLPRGEEVTAEVIDVRPFRPFQLNAALMSRADSEAVVLHCLPRGHEITDEVIDVRLKDFYLLTKEKMELAKDDMIVLHPLPRVNEISVDVDD	G G D
UniRef90_H8IB23 UniRef90_Q74DP5 UniRef90_K0B198 UniRef90_U2DQS5	PEYARYYGLNPQNLKLADKDOUTUPRGEETTEDVTQ PEYARYYGLNPQNLKLAKPGAMVMHPGPRGVELSSYVAD INQLKAYQVNMDMLKKADKDVIFMCLPAFHDQDDEVFE ERLRDCYT LDAAKMAGAGADTIVLHPLPRVSEITATEVDA	C S S D
UniRef90_UPI00037F2CDE UniRef90_A8MIU1 UniRef90_A0B8L1 UniRef90_P77918	I R E L T P Y K V T K K V M E N A G D Q A V F L H C L P A F H D V T D E V F E E K L K D S Y I L T N S L L E N A K Q D L I I L H P L P R V N E I H T E V D R N R V A R S Y S I T I R D L E G V K P E L R I M H P L P R V D E I S P S V D E L K V K G S Y Q V N L K V L E K A K D E L R I M H P L P R V D E I H P E V D N	S D T
UniRef90_UPI000316F9D7 UniRef90_C3P7R4 UniRef90_R6NAZ9	QRDFKGYQI NEEL VAHAKPDFMFLHCLPAHEEVATSVID YTLFQPYQI NKELVKHAKQTYHFLHCLPAHEEVTGEI I D VRMKDFYLLDKAKMALAREDMLYLHPLPRVNEI SVEVDA	G G D
UniRef90_E1QP27 UniRef90_B0K2E9 UniRef90_R4SWA1 UniRef90_C0GH81	KKVFRPYQVNAEVMKKAGPQAVFMHCLPRGEEVTDDVIDPSYREYFGINKERMKLAKPDAILMHPGPRNVELTSEAANDRPFRELQVNSALMRRAADEALVLHCLPRGEEITDEVIDIRFKPYQVNDELLKVANDEAMVLHCLPRGEEITESVMEVRPFLPYQVNGELLARTGTDTLVLHPAHRGMEITDEVID	G D G G
UniRef90_UPI00037B5CFD UniRef90_D6X207	VRPFLPYQVNGELLARTGTDTIVLHPAHRGMEITDEVID QAVKDSFVLDNSLLQEAKPTMKILHPLPRVNEIAQEVDD DKACGHFIVTPQLMTRAKRKMVVLHPLPRVFEISPEFDT VRLRDTYVLDRARLAAARPDMAVLHPLPRVNEIATDVDA	G T
UniRef90_UPl00047901B9 UniRef90_J7IKS4 UniRef90_F4X7C6 UniRef90_S2Y0U0	VR MA A F Y QI N S D S L K L A A R P D MAV L H P L P R VN E I A I D V D A VR MA A F Y QI N S D S L K L A N Q S A L V L H C L P R G E E I T E D V I E H K M C G F F L V T P Q L M S R A K R K M A V M H P L P R V F E I S K E F D T L R D L T P Y K V T M D V M K N A G E Q A L F L H C L P A F H D W T D E V F E	G D S
UniRef90_R7PBF7 UniRef90_M1YQA9 UniRef90_C4K7I6 UniRef90_K2P349	EKVKDLFVLRNDMLAQAKKNMKILHPLPRVNEIAYDVDN IRLKDSYILDKEKLKLARKDLSILHPLPRVNEISYEVDE HKTAFILEGKHLLPGQVKTNLKILHPLPRVDEIAYDVDT	D T
UniRef90_UPI0003B2E246 UniRef90_R6J1S2 UniRef90_H1HRP2	VRPFLPYQVNGELLARTGTDTLVLHPAHRGMEITDEVID QAVKDSFVLDNSLLQEAKPTMKILHPLPRVNEIAQEVDD DKACGHFIVTPQLMTRAKRKMVVLHPLPRVNEIATDVDA VRLRDTYVLDRARLAAARPDMAVLHPLPRVNEIATDVDA VRMAAFYQINSDSLKLANQSAIVLHCLPRGEEITEDVIA HKMCGFFIVTPQLMSRAKRKMAVMHPLPRVNEIATDVDA HKMCGFFIVTPQLMSRAKRKMAVMHPLPRVNEIAYDVDR EKVKDLFVLRNDMLAQAKKNMKILHPLPRVNEIAYDVDN IRLKDSYILDKEKLKLARKDLSILHPLPRVNEIAYDVDE KTAFILEGKHLLPGQVKTNLKILHPLPRVDEIAPEVDT DNVFRPYQVNEELMKRAKPDALFMHCLPRGEEVTDEVTD IADLKAYQVNAEELMKRAKPDALFMHCLPRVDEIAPEVDT DNVFRPYQVNEELMKRAKPDALFMHCLPRVDEIAPEVDT LRHKDAFVLDPEKLESAKSDLTIMHPLPRVHEITVDVDD IADLKAYQVNAEELMKRAKPTALFMHDLPSFHDVTDEVFE LRHKDAFVLDPEKLESAKSDLTIMHPLPRVNEIAVEVDK LRHKDSYILTEKLKLSAKSDLTIMHPLPRVNEIAVEVDK LRHKDSYILTEKLKLSAKSDLTIMHPLPRVNEIAVEVDK LRHKDSYILTEKLKLSAKSDLTIMHPLPRVNEIAYDVDE LKVKDSFILDLDKLKTAKEDLTIMHPLPRVNEIAYDVDE LKVKDYILTERDMLSQARPNMRILHPLPRVNEIAYDVDE LKDLKDYQINAELLGLAKSDAIVMHCMPRGQEISAEVMD	. D
UniRef90_R6Q9R8 UniRef90_F0FAW9 UniRef90_L0KXF1 UniRef90_UP100047904B9	LKVKDSFILDLDKLKTAKEDLTIMHPLPRVNEIATEVDDERVKNVYLLRRDMLSQARPNMRILHPLPRVNEIAYDVDELKDLKDYQINAELLGLAKSDAIVMHCMPRGQEISAEVMDEQVFLDFQVNKKLLELAHPDALFMHCLPRGEEVTEDVID	S G
UniRef90_Q74GU2 UniRef90_A2BJ24 UniRef90_UPI000381E6C8	ERVKNVY L L R R D M L S Q A R P N M R I L H P L P R V N E I A Y D V D E L K D L K D Y Q I N A E L L G L A K S D A I V M H C M P R G Q E I S A E V M D E Q V F L D F Q V N K K L L E L A H P D A I F M H C L P R G E E I T D S V I D E A A F Q G Y C L D D A L V A L A R P D C M V L H C L P R G E E I T D S V I D E K V R G S Y R V T L E L E Q H A R R E L R I L H P L P R V D E I A P E V D G V A P F R P Y Q I N A E L V E L A D P D A I V M H C L P R G E E I T D E V L D E R L K D F Y I L D G E K M S K A K D E C I V L H P L P R V N E I S C E V D S E R L K D S Y I L T P E K L A H A D E K M A I L H P L P R V N E I S V A V D D V R L K D T Y I L D N K K M K T A K D D M I I M H P L P R V N E I A T E V D S L K V A D S Y R I T P D T L K G V K D D M I I M H P L P R V N E I D P A V D S E R I Q P Y Q V N E E V M A A T G N E N T I F M H C L P R G Y E V T H E V L E I K V L S P Y K V T S D V M R N A G E K A I F L H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L P R G E E I S A E V M D L S D L A D Y Q I N S T L L D V A K N D V I M H C L	G i T
UniRef90_D9SWU0 UniRef90_R6EUQ0 UniRef90_A8SKG8 UniRef90_H8I482	ERLKDSYILTPEKLAHADEKMAILHPLPRVNEISVEVDS URLKDSYILDNKKMKTAKDDMILHPLPRVNEISVEVDS LKVADSYRITPDTLKGVKDDMILMHPLPRVNEIDPAVDS	D D T
UniRef90_N1ZDW4 UniRef90_R7R578 UniRef90_UPl0003B517B3 UniRef90_D5EAC7	ERIQPYQVNEEVMAATGNENTIFMHCLPRGYEVTHEVLEIKVLSPYKVTSDVMRNAGEKAIFLHCLPAFHDVTDEVFEPSLREYYSLTRERFQNAKKDAIIMHPGPRGEELSAEVMD	S
UniRef90_W0K316 UniRef90_C2BD31 UniRef90_Q3AL44	EAVAGEYRI TAETLEÄAKDDLAVMHPLPRVDEI AAEVDD TRLKDSYLLDKEKMERARKDMI VLHPLPRVNEI AKEVDD EQAFAGFCVDHVLMEQAAADAI VLHCLPRGEEI SAEVME	A D G
UniRef90_S7UY81 UniRef90_D4K1F0 UniRef90_UPl00034D8E13 UniRef90_R5K088	PS	A G D
UniRef90_UPI0003783BD4 UniRef90_UPI0004751766 UniRef90_L9XFE0	L K A F Q G Y Q I D Q Q L A R H A A A D Y I F L H C L P R G E E V A A D I I D L P A F Q P Y Q V N S Q L L E Q A S S D A I V L H C L P R G E E I T H Q V M E M D A F E G F Q V N S E L L E S A N D S V M H C L P A H R G E E I T D A V I E	GGSC
UniRef90_E1REB2 UniRef90_Q606D8 UniRef90_E5XPS0 UniRef90_D3EMC8	A KIVIN A F Y KIVID E SIL LIA GUDS D SIL VIFH CLIPR GE ELIS D EVID E R T F R D Y Q V N A A L MA L A H A D A L F M H C L P R GE E V S A E V L E A T L M R P Y Q V N K A L L S H A K P D A IL V L H C L P A H E E I T S E V L D E A A F A D Y Q V N E E L V K A A K P D Y L F L H C L P R G E E V S F G V I D	GGG
UniRef90_UPI0004746A17	Q N L L A P Y Q L N T Q L L R H A A P D A L V M H C L P R G E E I T D E V L D	Ğ

	200 200 240
QUERY	290 300 310 P H A WY F Q Q A G N G F A R Q A L L A L V L N R D L V L
UniRef90_R8ATH4	PHAWYFQQAGNGIFARQALLALVLNRDLVL PYAYYFQQADNGVYARQALLALVLNPELNL PYAYYFQQAKNGVYARQALLALVLTNEF PYAYYFEQATNGVYARMAILSLILNEEV NHAYYFQQAGNGVYARMAILSLILNEEV SRAFYFKQAKCGMYVRMALLALVLNEEV SRAFYFKQAKCGMYVRMALLALVLNEEV PRAMYFEQQRKNGLYARQAIICKVLGE PKAYYFQQAKNGLYARQAIICKVLGE PKAYYFQQAKNGLYARQAIICKVLGE PKAYYFQQAKNGLYARQAIICKVLGE PKAYYFEQAKNGLYARQAIICKVLGE PRAMYFEQWRNGRFVRMALISTLLEGV ERACYFKQVEYGMYARMALILKLLGVDK PHSAVWDEAENRLHAQKAILKLLAK PHSVVFDEAENRLHAQKAILKLLAK PHSVVFDEAENRLHAQKAILKLLAK ENSIVIFDEAENRLHAQKAILKLLAK
UniRef90_G4CTV5	PYAYYFEQATNGVYARMAI LISILILNEEV
UniRef90_C4LBX2	N H A Y Y F Q Q A G N G V Y A R Q A L L A L V L N E E V
UniRef90_W0EUV0	PKAYYFQQAKNGLYARQAII <mark>C</mark> KVLGLEV
UniRef90_R7I5T3	PRAMY FEQVRNGR FVRMALISTLLEG
UniRef90_173550 UniRef90_W8TEK5	ERACYFKQVEYGMYARMALIAKILIGVDK
UniRef90_A5D509	PHSAVWDEAENRLHVQKAVLALL
UniRef90_W15C01 UniRef90_D7CJ38	PNSIV VIF DEAENRILIHA QKAJI LIKIL LIAK PNSIV VIF DEAENRILIHA QKAJI MAIL VIM
UniRef90_UPI00037C2D26	ENSLIFDQAENRLHAQKAVMAAIL
UniRef90_R5BHL2 UniRef90_D5WRE7	ENSIIFDQAENRLHAQKAVMAAIL PYAYYFQQAGGGMYVRMAIISYLLG PHSVIFDEAENRLHAQKAILVATMAGPL
UniRef90_V9H2E0	DRACYFKQAEYGMYVRMALLAKLLG
UniRef90_K4LII9 UniRef90_M1ZDQ5	D H S IV V IF D E A E N R IL H A H K A II IMA IL L IM D H S IV V IF E E A E N R IL H A H K A II L IH IL IF M G
UniRef90_U7USJ3	ERAVYFKQAGFGMYVRMALIMTLLGLE
UniRef90_UPI0003D0956D UniRef90_I0XB62	PRAAYFRQAENGMYIIRMAILLAIVLIGR PRAAYFKOVKYGMYARMAILIAKIITG
UniRef90_D2RBF6	PRAAYFEQVKNGMLMRMALESSVLGDEL
UniRef90_R5B7L5 UniRef90_D3R0M6	PKAYYFEQARNGLIFARQAIII <mark>C</mark> KALGIID <u>VL</u> PRAIIYEKQVR <mark>C</mark> GMYVVRMALIIAKIIIGVDK
UniRef90_R7APE5	PRAAY FKQVQNGVYVRMALILTLLGUD
UniRet90_W6S4Q2 UniRef90_W4RYH8	K K A A Y F D Q A E Y GII Y A R M A L L A L L L L G P N S L I F D Q A E N R II H A O K A II M A A II M S F
UniRef90_G8ZZC0	HRAAYERQMRYGLEVRMALLAMVMGVDL
UniRet90_C4G9E9 UniRet90_K57GR7	P K A A Y F K Q V E UG R Y I R Q A L L S L L G K S D V L P A S V V F D E A E N R I H A O K A I T W A M G
UniRef90_I4BJC8	PQSAVWDEAENRLHAQKALLVWLLGK
UniRet90_D4JH74 UniRef90_H8IR23	P + S V F D E A E N R H A Q K A L V A T M A G P L D R A C Y F K Q A E Y G M Y V R M A L I A K L L G P Q S V V F D E A E N R L H A H K A I M A L L M D H S V V F E E A E N R L H A H K A I L H L F M G E R A V Y F K Q A G F G M Y V R M A L I M T L L G R P R A A Y F R Q A E N G M Y L R M A L L A T V L G R P R A A Y F K Q V K Y G M Y A R M A L L A T V L G R P R A A Y F E Q V K N G M L M R M A L E S S V L G D E L P K A Y Y F E Q A R N G L F A R Q A I I C K A L G I D V L P R A L Y F K Q V R C G M Y V R M A L I A K L L G V D K K R A A Y F D Q A E Y G I Y A R M A L I L L L G L P N S L I F D Q A E N R L H A Q K A L M A A L M S E H R A A Y F R Q M R Y G L F V R M A L L L A M V M G V D L P R A A Y F R Q W E C G R Y L R Q A L L L S L L G K S D V L P R A A Y F R Q W E C G R Y L R Q A L L L T L L G P Q S A V W D E A E N R L H A Q K A L L V W L L G K P R A C Y F R Q A Q Y A V Y V R M A L I L T L L G E N S A I F D E A E N R L H A Q K A L L V R L L G K P R A W Y F K Q A Q Y G M F A R M A L L C K V L G E Q S V V F D E A E N R M H T L K A I M V A T L G K P R A W Y F K Q A Q Y G M F A R M A L L C K V L G E Q S V V F D E A E N R M H T L K A V M A A T L C E Q S V V F D E A E N R M H T L K A V M A A T L C E Q S V V F D E A E N R M H T L K A V M A A T L C E Q S V V F D E A E N R M H T L K A V M A A T L C E Q S V V F D E A E N R M H T L K A V M A A T L C E Q S V V F D E A E N R M H T L K A V M A A T L C
UniRef90_Q74DP5	DQSAILTQVENGVAVRMAMLYHVSGGEL
UniRef90_K0B198 UniRef90_U2DQS5	K H S V V J F D E A E N R M H T I L K A I L M V A T J L G K P R A W Y F K O A O Y G M F A R M A I L C K V L G
UniRef90_UPI00037F2CDE	E Q S V V F D E A E N R M H T I K A V M A A T L
UniRef90_A8MIU1 UniRef90_A0B8L1	PRAKYFEQAKMGWYVRMALLLG EHAVYFRQSFYGVPVRMALLKMIL KHALYFRQVFNGVPVRMALLALVLG
UniRef90_P77918	KHALYFRQVFNGVPVRMALLALVLG
UniRef90_UPI000316F9D7 UniRef90_C3P7R4	PNSTVFEQAENRI HAQKAVL TSLL POST VFEQAGNRI HAQKALI VSI F
UniRef90_R6NAZ9	PRAAYFKQVQYGVYVRMALILSLLG
UniRef90_E1QP27 UniRef90_B0K2F9	P N S Y V F E Q A E N R L H A Q K A V L L S L L P Q S I V F E Q A G N R L H A Q K A L L V S L F P R A A Y F K Q V Q Y G V Y V R M A L I L L S L L G P Q S I V W D Q A E N R L H T A K A V L I S L L K Y S V I E E Q V T N G V A V R M A L L K I L C E R P A S A V W D E A E N R L H A Q K A L L V W L M E Q S A V F D Q A E N R L H V Q K A I M A K V M P A S A V W D E A E N R L H A Q K A L L V W L S R Q E P Y A Y Y F R O A V N G M F V R F A L L C R A L G I F IV
UniRef90_R4SWA1	PASAVWDEAENRLHAQKALLVWLM
UniRef90_C0GH81 UniRef90_UPI0004657A86	E Q S A V F D Q A E N R L H V Q K A I M A K V M P A S A V W D F A F N R I H A Q K A I I V W I S R Q F
Offit(Cl30_Of 100037 D301 D	I I A I I I K Q A W IN O WII IV IN E A E I O K A E IO E E W
UniRef90_D6X207 UniRef90_UPI00047901B9	PRAAYFRQAE <mark>C</mark> GMYVRMALLAMVLGK PRA <u>AY</u> FDQVANG <u>MLV</u> RMALMA <u>A</u> VL
UniRef90_J7IKS4	P Q S V V F D E A E N R L H A Q K A V M A L V M
UniRef90_F4X7C6 UniRef90_S2Y0U0	P Q S V V F D E A E N R L H A Q K A V M A L V M P R A A Y F R Q A E N G V Y V R M A L L A M V L G R A Q S K V F D E A E N R M H T L K A V M A A T L G
UniRef90_R7PBF7	PHAYYFQQAKNGLYARQAII <mark>C</mark> DALG PRA <mark>C</mark> YFDQVEYGMFIRMALIT <u>K</u> LLG
UniRef90_M1YQA9 UniRef90_C4K7I6	P Y A C Y F D Q V E Y G M F I R M A L I I K L L G P Y A Y Y F Q Q A A N G M F I R E A L L A L L N
UniRef90_K2P349	PHSIVVIEDEAENRILIHAQKAIVLIAW <mark>C</mark> ILIGQ
UniRef90_UPI0003B2E246 UniRef90_R6J1S2	P R A K Y F F O A K N G K Y M R M A II I M T II I
UniRef90_H1HRP2	PRAAY FKQVQY GVYVRMALIMKLL
UniRef90_R6Q9R8 UniRef90_F0FAW9	PRAAYFKQVQYGVYVRMALIMKLL PRAKYFVQALNGKYVRMALIKTLL PHAYYIQQARNGLFAREAIFCHCLG
UniRef90_L0KXF1	PHSVVYDQAENRLHAQKALLMKLIG
UniRef90_UPI00047904B9 UniRef90_Q74GU2	PHSVVYDQAENRLHAQKALLMKLIG KKSVVFRQAENRLHAQKALMTALMG PRSAVWDEAENRLHIQKAIMASLM
UniRef90_A2BJ24 UniRef90_UPI000381E6C8	PYAAYFEQARNGVPVRMALLALIAGREV PRSVVFDEAENRLHAQKAVLIWLLEQ
UniRef90_D9SWU0	PRAWYFKOAFYGMYGRMAILLIKILL
UniRef90_R6EUQ0 UniRef90_A8SKG8	PRACYFROALNGKYMRMALILKLSE PRAKYFNQVKFGMIIRMALILKLL
UniRef90_H8I482	RHARYERQAEYGIVIPII IRMAIVI ISII VIIGKE
UniRef90_N1ZDW4 UniRef90_R7R578	K Q S V V F D E A E N R M H T I K A V M V A T I G E A Q S L V F D E A E N R M H T I K A V M A A T L G
UniRef90_UPI0003B517B3	T E SIV L L IQ QIVIE N GIL IAIVIR M AIV L IYIL L L IG G
UniRef90_D5EAC7 UniRef90_W0K316	THSVVFDQAENRLHAQKALILKLIG PNATYFEQAHNGVPVRMALLDLL
UniRef90_C2BD31	PRAIVIYEK (JAKE GMYIVIRMAII I I IKII I IEAN
UniRef90_Q3AL44 UniRef90_S7UY81	SASRIFDQAENRLHAQQALLAVLMGG PRAHYFEQAQNGLYIRMALLYLLITAD
UniRef90_D4K1F0	HADEII IF I EAENRILI <mark>H</mark> IVIQKAIVLIAIVLLI
UniRef90_UPI00034D8E13 UniRef90_R5K088	SHSRVWDQAENRMHVQKALLASLLG PRACYFRQALNGKYVRMALIMTLLG
UniRef90_UPI0003783BD4	R H S IV V IF D Q A E N R IL IH A Q K A IV L IA A IV I I
UniRef90_UPI0004751766 UniRef90_L9XFE0	A A S R V W E Q A E N R M H A Q K A L L A S V L G D R S V V F D Q A E N R L H A Q K A L L S W L L
UniRef90_E1REB2	PMSRIVIWDQAFNRII IHAQKAII I IAKII I IGDDII I
UniRef90_Q606D8 UniRef90_E5XPS0	P Q S V V W D E A E N R L H A Q K A L L E F L L T A Q S A V W D E A E N R L H A Q K A L L V W L L E R
UniRef90 D3EMC8	A N SIV I IF D Q A E N RIL IH A Q K A IL IMIVIA IL IM
UniRef90_UPI0004746A17	P Q S V V F D E A E N R L H A Q K G V L L WAL G

UniRef90 R6FHY1	1
UniRef90_UPI000465CA6D	S S L V G T S V V T L D D L S T S Q L R E L L H R A Q Y L D A H R K A H T C D A P K H F L D L H T H G S A D L R A I L D L A A E Y K R G E K R R P L E Q H F L T L L D F S R D T A S R I L D R A A A M K A N H R S K L L D
UniRef90_K9HQA8 UniRef90_UPI0004672001	A P K H F L D L H T H G S A D L R A I L D L A A E Y K R G E K R R P L E
UniRef90_U7M0J1	MSLRHFLADDDLSPEEQKEVLDLAVKLKADPRRPLEG
UniRef90_A3DL27	T S L K G R D F L T L A D Y S R E E L L F V L E T A K H L K Q R R V I P L L P
UniRef90_D7JEK4 UniRef90_Q0W2V3	R S L L E L T D F T VE E I D E L V A L A M D I T A N P K K D V C K H F I S F A D M S P A E I E A L I D R A E D L K R M R R T D Y L K
UniRef90_B8GP66	HEISEADMS PAEIEALIDRAEDLKRMRRTDYLK RHLLTIEGLPHALITEILDTAESEQAVKKVPLLR
UniRef90_B6YRC6 UniRef90_A1ATU5	MKKKDFVSITD <mark>C</mark> SKQDILHLIERSAYFERNLNQLLLK RHFLSL <u>H</u> DYTKEELDRLLALALELKQG <u>GEHHL</u> LK
UniRef90_A6LW74	HFI SFADMS PAEI EALI DRAEDLKRMRRTDYLK RHLLTIEGLPHALI TEIL DTAESFQAVKKVPLLR MKKKDFVSI TDCSKQDI LHLI ERSAYFERNLNQLLK RHFLSLHDYTKEELDRLLALALELKQGGEHHLLK AVNLRGRSFLKLLDFKPEEIRYLLDLSKELKAGILHDKLK KHFLTLLDISEEERRYLLLLKAMQKHRTLA
UniRef90_UPI00036E7A00 UniRef90_D5WXZ9	MKKKDFVSIIDUSKQDILHLIERSAYFERNLNQLLLK RHFLSLHDYTKEELDRLLALALELKQGGEHHLLK AVNLRGRSFLKLLDFKPEELRYLLDLSKELKAGILHDKLK KHFLTLLDISEEEARYILLRATELKAMQKHRTLA RHVLGAKQFTRPEVEALFETSRTFKGGQVLDRLR RHFLDLTEFGGEEIRAILELGKEIKKTRNQGPLA SSLKGRDLLSIADLTPEEIRTILDLASDLKKGELQFNS MNVRHFLRLSDLSPSELRALLQRAIALKKGERYAPCA SSLKGRDFLTLTEYTREELWFMLETAAQLKQRRIIPVLQ STFRHKHILSVNQFNRTDLHLEFFLAAQLKQRRIIPVLQ
UniRef90_E2CAY1	RHVLGAKQFTRPEVEALFETSRTFKGGQVLDRLRRHFLDLTEFGGEEIRAILELGKEIKKTRNQGPLASSLKGRDLLSIADLTPEEIRTILDLASDLKKGEL QFNS
UniRef90_UPI00034ADF99 UniRef90_B5EME4	S S L K G R D L L S I A D L T P E E I R T I L D L A S D L K K G E I Q F N S M N V R H F I R I S D I S P S F I R A I I Q R A I A I K K G F R Y A P C A
UniRef90_D5U0D8	MNVRHFLRLSDLSPSELRALLQRAIALKKGERYAPCASSLKGRDFLTLTEYTREELWFMLETAAQLKQRRIIPVLQSTFRHKHILSVNQFNRTDLHLLFTVAQEMRLGVQRQILK
UniRef90_C5FKA7 UniRef90_D5MHR1	K K DIL LISI I S DIL T VIS EI I D SIL IF FIL A A DIL K A Q Q R H PIL L P
UniRef90_U1H2G0	R H F L D I N E L P L G E L R N M L S A G A A M K A K K G R K P L E
UniRef90_G3BFI5 UniRef90_UPI00036A3C36	K DIL I TILK DILSI E GILK QILE DILS AKI K K GILE H KIL I
UniRef90_F4CLF9	RHL LRDDDLTPDEQREVLDLADAMKADRHTPLAG
UniRef90_UPI0003595D7D UniRef90_J5U4P4	R NIL I NI I T DI SVQ EII D KIL I EVA D DI VK N K Y F NI CA
UniRef90_D7EB01	SSLKGRDFLTLTEYTREELWFMLETAAQLKQRRIIPVLQ STFRHKHILSVNQFNRTDLHLLFTVAQEMRLGVQRQILK KKDLLSISDLTVSEIDSLFFLAADLKAQQRHPLLP RHFLDINELPLGELRNMLSAGAAMKAKKGRKPLE NSFLRNSVLSVKDLTRSDMHALFSVAQEMRLAVERQLLK KDLLTIKDLSLEGIKQIFDLSAKLKKGIEHKILL RHLLRDDDLTPDEQREVLDLADAMKADRHTPLAG HGLTGHHVTTVMNFNKDQLSQVFNLAHNYKDRPLDHVLK RNLINITDLSVQEIDKKLIEVADDIVKNKYENICA FKDLDISMKDFSRDMIDHILDTAEKLKNEEKSDILN KDFLTLKDFSSEELFDFIKLADEMKNGVYKKPLA
UniRef90_F8E558 UniRef90_G4TJQ3	FHRRHILSVKQFKHQDIHDLEDLAHEMRNGSIDLLK
UniRef90_I4W801	R H L T T L E N L P R A T I E H L L D R A I A M R D A R K L D V L A
UniRef90_R5HFH3 UniRef90_E6JYB2	K R D L T D L T V E E L D E L L A K A E D T T E H P E R E K <mark>C</mark> R H S L R G K S V V T L D S V S L D E L D Y L L R K A D Y F S Q <u>H</u> P D <u>Q</u> A R L T
UniRef90_B9XEN2 UniRef90_UPI00038093DB	H S L R G K S V V T L D S V S L D E L D Y L L R K A D Y F S Q H P D Q A R L T S W N R K H L L D I E S L S P E E I N T V L D T A R A F K A V K K V P A L R L K G K D L L S I H D L T T E E V Y E I L D L A K E L K A K Q K H P I L K
UniRef90_W0FJD3	R S V I D V P D L T T D E L D R L M D T A E D I J A H P Y S E A C R
UniRef90_UPI00037133FF UniRef90_E8XVP0	KRDLIDITDLTVEEIDELIAKAEDIIEHPEREKCR HSLRGKSVVTLDSVSLDELDYLLRKADYFSQHPDQARLT SWNRKHLLDIESLSPEEINTVLDTARAFKAVKKVPALR LKGKDLLSIHDLTTEEVYEILDLAKELKAKQKHPLLK RSVIDVPDLTTDELDRLMDTAEDIIAHPYSEACR RHFLRDDDLTPAEQREVLELAERLKRNPYRPLEG TTLKNRHFLKLLDFTPEEIQQLIITLALTLKDDKQRPCLR RHFLRDDDLTPQEQTRVLDLAEEMKRDRFRPLAG MLKKGLLSSKDLSRADLLRVFAEELWAMLQTSIKVKEKTSNLMK RHFLDLSAVSKSALRGILDDAASRKAGTADKPLA PAKGHHFLHIDDFSKEELWAMLQTSIKVKEKTSNLMK RHFLDLSAVSKSALRGILDDAASRKAGTADKPLA LKGRSFLKLLDYTPEEILYLVDLAAELKDKKKKGILQ RHLIDPMDLSLEEIDQLLQVGDDIIKNPQKEVCK LKQRDVVSVDDIETDEMFAIFELAKKLKSGEIPRPLE KHLIDPMDLSLEEIDQLLQVGDDIIKNPQKEVCK KHFLDLNRFDTRQLREILDLAAKKLKSGITTKYLR KHFLDLNRFDTRQLREILDLAAALKKGITTKYLR KHFLDLNRFDTRQLREILDLAAALKKGEIPRPLE TALQGRDVLGLADLSADEIHELLHLAGQLKTG
UniRef90_UPI0003458327	RHFLRDDDLTPQEQTRVLDLAEEMKRDRFRPLAG
UniRef90_K2BMJ4 UniRef90_UPI000364211C	MLKKGLLSSKDLSRADLLRVFAETEKLRKEKTSNLMK RHFLDLSAVSKSALRGLLDDAASRKAG <u>T</u> ADKPLA
UniRef90_I0YUH0	PAKGHHFLHIDDFSKEELWAMLQTSIKVKEALKSKPFA LKGRSFLKLLDYTPEELLYLVDLAAELKDKKKKGILQ
UniRef90_R7N2B0 UniRef90_R6CPZ8	LKGRSFLKLLDYTPEE LYLV DLAAELKDKKKG LQ RHLI DPMDLSLEE DQLLQVGDD IKNPQKEV <mark>C</mark> K
UniRef90_T0N0K7	LKQRDVVSVDDIETDEMFAIFELAKKLKSGKRISDFE
UniRef90_H1BLD0 UniRef90 UPI00037F3590	K
UniRef90_B4W2Y0	TALQGROVLGLADLSADEI HELLHLALQLKTG QVNLRC
UniRef90_UPI00047C5BAE UniRef90_E8N9I7	T A L Q G R D V L G L A D L S A D E I H E L L H L A I Q L K T G Q V N L R C R H L L T L E E L T A E G L T D L L E L A K A V K Q A P Y A H T L S R H L L R D D D L S P A E Q A E I L D L A I E L K K D R Q K P L A G
UniRef90_X1FYE2	NKDLLSVSDLSPKEISSLMEQALVMKRGDTP <mark>O</mark> VLA SFTLSRRHLLGIEGLSPEEIVGLLDLAEEFQVEKKRATLR MAVQHFLTLLDLPADELRQLVLRAMDLKQGKLYEPLK
UniRef90_D7A9Q2 UniRef90_D5BV08	NKDLLSVSDLSPKEISSLMEQALVMKRGDTPCVLASFTLSRRHLLGIEGLSPEEIVGLLDLAEEFQVEKKRATLRMAVQHFLTLLDLPADELRQLVLRAMDLKQGKLYEPLK
UniRef90_G8S2R8	MTLRHFLRDDDLSPQEQSDVLDLAVEMKASRFAPLAG
UniRef90_B1QZ96 UniRef90_K9SR86	T NLK G R DL L S L A DL Q T S EI L EL L DL A K QL K S G EL R P N F E
UniRef90_E3GWW5	KHVLSV <mark>C</mark> DL KDEVEELLDU AEKFKNGKKEKVLK
UniRef90_C9S7J6 UniRef90_D6THJ1	MTLRHFLRDDDLSPQEQSDVLDLAVEMKASRFAPLAG KKDLLKMDDLSKEEILDILNLADQLKHGIEHPLLK TNLKGRDLLSLADLQTSEILELLDLAKQLKSGELRPNFE KHVLSVCDL KDEVEELIDIAEKFKNGKKEKVLK SSWRHQNVLSVTQYTRSDLHHLFTVAQEMRRGVQRELLR FKGKDLVSFDQFSADDVRRIFALAGHMKQKEPCQLLA
UniRef90_A7C313 UniRef90_G9EDZ5	NQGRUKHFLGIEGUKRSLLIEILDTATSFQAVKKVPLLR
UniRef90_UPI00038214C1	NQGREKHFLGIEGEKRSELIEI LDTATSFQAVKKVPLLRAFNEKNRHFLTLRDFTPREISFLLKESADEKTAKYTPQLQSLYGKDILTLADFNVDEYNLILDTAREMKNEKKVPTLR
UniRef90_UPI00047DFF51 UniRef90_H8GII4	RHMMNPLDFSVSEILEDLFDVANDIEKNAYSHK <mark>C</mark> D KLKHFLTIEGLDKSLLTEILDMAESFQQVKKVPLLR NLQGRSFLKLLDFTTDEIKYLLDLAKDFKNLKRHRYLE
UniRef90_E7NY86	NEQGRSFIKLEDFTTDEIKYLIDEAKDFKNLKRHRYLE
UniRef90_K2C3M3 UniRef90_E0MM40	K H E I DI A A W D G G E I R S I I D G A WA M K O G A S P R P I E
UniRef90_A0A023X6C3	SPLAGRD <mark>C</mark> LTLAEFT ASETRTI I SEAVKÜK AŬQRSRPLR
UniRef90_Q2BRE4 UniRef90_UPI0004776469	S P I A G R D C L T L A E F T A S E T R T I I I S E A V K I K A I Q R S R P L R K H F I T T E G L S R E L L T E I L D T A D S F K Q V K K K V P L L R R H F L T L N D I S K D E L K S I I D R A I E M K E G R A Q P L L E S P F K S K H I T S V K Q F S R A D L H L F T I A Q E M R L G A Q R Q V L K A G K H V L S V D M F S K E H L N E I F N V A T T M K D R P L D D L L R A K P S A I R H F L D L D E I D A R T L R R I I D A A H T M K A A G K R V P L R R H F L T D L D L S P E E L D R V L S L A E H V K A Q P Y K K A L A S N T T G K D M L S L L E W N K E E L I D I I K L A V A M K T N P Y S H I L S K K K K H L L T T E G L P R A I L N Q I L D T A E S F R E V K K K V P L L R N L Y G R D F L K L L D Y T G E E I R Y L L D L S K D F K K K K Q H E Y L K N F R G R D F I T T R A F S R E E I D Y L I D L A V E L K Q L R E L E P L R S L K G R D V L A L E D F S A E E I R L L N T A R E M K N I K K V P P A L R S L R N K S F L R L L D F T Q D D I Q Y L L D L S H K L K K D K F A D T L E N L T V E Q F T R H D L H G L F N V A Q E L R T Q V E R D L L K K R D F V S F T D L S R E E V L G I I D Y A K K L K K D K F A D T L E N L S L K S H F L K E L D F T P R E I H Y L L D L A R D L K R A K Y T P R L K W K K K D L I G I E E L S K E E I E L I V E T A V N M K D I K K V P T L R H L L S I E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L R S L S L E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L R S L R S L S L E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L R S L R S L S L E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L R S L E L L S L E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L R S L E L L S L E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L S L S L E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L S L S L S L S L E G L P R D V I H H I L D T A G T F R E V K K V P L L R C S L S L S L S L S L S L S L E L L R E N P T A C S L R S L S L S L R S L S L S L S L S L
UniRef90_E4ZRS5	SPFKSKHITSVKQFSRADLHLLFTDAQEMRLGAQRQVLK
UniRef90_Q16VN4 UniRef90_V5S9X7	A K P S A L R H F L D L D E I D A R T L R R I I D A A H T M K A A G K R V P L R
UniRef90_UPI0003B358AC	RHFLTDLDLSPEELDRVLSLAEHVKAQPYKKALA
UniRef90_Q92BC1 UniRef90_Q1GZG8	KLK HLLITTEGLPRALLNQILDTAESFREVKKVPLLR
UniRef90_R5TE21 UniRef90_U2V460	NLYGRDFLKLLDYTGEEIRYLLDLSKDFKKKKQHEYLK
UniRef90_I0A0A1	NERGROEITTRAFSREEILDYLIDLAVELKAMARELEPLR
UniRef90_L1N5V6 UniRef90_I0FDT5	SILIK GRDIV LIAILIE DFSAEEII IRILI LINTAREMKNI KKVIPAL R
UniRef90_F4S4Q8	FYRRHULTVEQFTRHDLHGLENVAQELRTQVERDULK
UniRef90_B2V8A7 UniRef90_R6C7U7	K R D F IV IS F T D IL IS R E E IV L IG II I ID Y A K K IL IK K D K F A D T L E N I I D II N D Y P IV S WWN O II I A II A H E II R E N P Y A K IV I <mark>O</mark> D
UniRef90_C1DD77	AFNUKSRHELKELDET PREI HYLLDLARDLKRAKYTPRLK
UniRef90_B5YFH6 UniRef90_UPI000368E814	WKKKULIGIELLSKEEIELIVETAVNMKDIKKVPTLR HLLSIEGLPRDVI <mark>HH</mark> IIDTAGTFRFVKKVPTIR
UniRef90_V6MAY4	HLLSIEGLPRDVIHHILDTAGTFREVKKVPLLR KGKDLLRIDEFNGEELMELLQLAAHIKQLQKHQPLQ MNPRHFLSFLDLPAEETRAVLHRALELKRQLKADLLR
UniRef90_UPI00035D1BB8 UniRef90_F9ZRT5	MNPRHFILIS FILIDILIPA E E T R AIV LI <mark>H</mark> R AIL EL K R QL K A DL L R T P R H F IL R L Q D L S R A F II T AII I I H R A A F II K A G F IV H A PI I R
UniRef90_A0A031MDN9	T P R H F L R L Q D L S R A E L T A L L H R A A E L K A G E V H A P L R R H F L G L D G L S R E L L T E I L D T A D S F R A L K K V P L L R R H M L A D D D L T P E E Q A Q V L D L A E K V K A D R Y R N I L E
UniRef90_B1VH32 UniRef90_E0XYF5	R
OTHINGIOU_LUXTI J	<u> </u>

	50 60 70 80
UniRef90_R6FHY1	GKI L A T L F Y E P S T R T R L S F E T A M L N L G G R T L G F A G A E Q C S
UniRef90_UPI000465CA6D	GRVLATLEYEPSTRTRLSFETAMLRLGGQVIGFAGAQL S
UniRef90_K9HQA8 UniRef90_UPI0004672001	G R T <u>L A M</u> F E K P S T R T R V S F E V G A K Q L G G D V V L D G N G S G K T C L I F E K A S T R T R V S F E V A V R H L G G W P I F M T Q N D S
UniRef90_U7M0J1	PKTI AVLFDKTSTRTRFSFETGI AHMGGSAI TVDSSGTQM
UniRef90_A3DL27	GRHLAMI FEKSSTRTRISFETAMRELGGDAL YLGWKELQ
UniRef90_D7JEK4	SKKLATLFYEPSTRTRLSFTAAMMELGGNVLGFSDAAA S NRSLAMIFEKSSTRTRVSFEVGMTDLGGHAL YLDPASMQ
UniRef90_Q0W2V3 UniRef90_B8GP66	N R S M
UniRef90_B6YRC6	DKI CATL FFEPSTRTRLSFETAINRLNGRLIGFSDVHTTS
UniRef90_A1ATU5 UniRef90_A6LW74	GKTVVNLFFEASTRTRUSFEVGMTDLGGHALL YLDPASMQGKTVVNLFFEASTRTRTTFELAAKRLSADVLNMNISTSATDKICATLFEPSTRTRUSFETAINRLNGRIIGFSDVHTTSGKTLAMIFDKSSTRTRUSFEVGLYQLGGHGL FISTGTSGKNIVLLFEKTSTRTRUSFEVAGRDLGGHALFUDSAGSQGKTLGMIFDKASTRTRVSFEVAGRDLGGHALFUHSGA
UniRef90_UPI00036E7A00	GKNIVLLFEKTSTRTR <mark>C</mark> SFEVAGRDLGM GVTYLDSAGSQ GKTLGMLFDKASTRTRVSFEVGMYQLGGHALFLHSGA T
UniRef90_D5WXZ9	GRIMATVFFEPSTRTRLSFEAAMLRLGGQVISTENAAQFS GKVLAMVFEQPSTRTRISFDVGMRELGGETLMLTGAE NKTLGLLFYKASTRTRVSFSVAMYQLGGNVIDLNPSR T
UniRef90_E2CAY1 UniRef90_UPI00034ADF99	G K V L A M V F E Q P S T R T R I S F D V G M R E L G G E T L M L T G A E M N K T L G L L F Y K A S T R T R V S F S V A M Y Q L G G N V I D L N P S R T
UniRef90_B5EME4	GRTLAMIFEKSSTRTRVSFETGMAQLGGHALFLSPRDTQ
UniRef90_D5U0D8 UniRef90_C5FKA7	GRHLAMIFEKPSTRTRLSFETAMKELGGDAIYLSSSEL GRVLCTLFYEPSTRTSASFDTAMQRLGGRTV PLATQHS
UniRef90_C5FRA7	GKTLGMI FEKPSLRTRVTFEVGMAQLGGRAIYLAPAELQL
UniRef90_U1H2G0	GKTLAMLFERPSTRTRVSFDVGMRQLGGESIMLTGAE M
UniRef90_G3BFI5 UniRef90_UPI00036A3C36	GRVLATMFYEPSTRTASSFDAAMQRLGGRVVAV AADAS NKTLGMIFAKSSTRTRVSFEVGIYQLGGQGI FLSSNDIQ
UniRef90_F4CLF9	PRSVAVI FOKSSTRTRVSFEVGLAELGGNPL IMDAGSSQ
UniRef90_UPI0003595D7D	PRSVAVIFOKSSTRTRVSFEVGIAELGGNPL IMDAGSSQGKVLASMFFEASTRTSCSFTVAMQRLGGSVVHYDQGT SHKKLATLFFEPSTRTRLSFEAAMLELGGSVLGFSSANSSS
UniRef90_J5U4P4 UniRef90_D7EB01	GKILLIAIVI IEEEPSTRTRMSEETAILIKRII INGDIVLISILL GAIVIDAS
UniRef90_F8E558	DKKI ALIFEKSSTRTRÜSFEÜGVYELGGYPL FLSKDDIQ GRVLCTLFYEPSTRTSTSFEAAMKRLGGEVVQVT ANTS
UniRef90_G4TJQ3 UniRef90_I4W801	GRVLCTLFYEPSTRTSTSFEAAMKRLGGEVVQVT ANTS GRTVLNLFFEPSTRTRTSFELAARRLGADVVNF DIGFSS
UniRef90_R5HFH3	YKKLATLFYEPSTRTRLSFESAMYELGGQVLGFHEAQS S
UniRef90_E6JYB2	GRILLATLIFFEPSTRTRLSFETAMERLGGQVIGFAGAQESS GKTVINLFIEPSTRTRISFELAAQRLTADIINFT AEASS
UniRef90_B9XEN2 UniRef90_UPI00038093DB	G K T V I N L F L E P S T R T R I S F E L A A Q R L T A D L I N F T A E A S S G K T L G M I F Q K S S T R T R V S F E V G M Y Q L G G T A L F L S G N E L
UniRef90_W0FJD3	RKKLA <u>TL</u> FFEPSTRTR <u>L</u> SFEAA <u>M</u> YELGGN <u>V</u> LSVTGAGTS <u>S</u>
UniRef90_UPI00037133FF UniRef90_E8XVP0	PQSVAVFFDKTSTRTRFSFAAGLAELGGSPIVVNPGEAQLGKNIALIFEKTSTRTRCAFEVAAFDQG AHVTYLGPGGSQ
UniRef90_UPI0003458327	PRTVALLEDKPSTRTRLSESVGVADLGGSPLVL DSASTQ
UniRef90_K2BMJ4 UniRef90_UPI000364211C	G K V L A T L F Y E P S T R T R F S F E T A ML R L G G S V I S N A Q M K E T S G K V L A M I F E K P S T R T R V S F D V G M R Q L G G D T L V L S G K D M Q
UniRef90_I0YUH0	GLTMAMI FTKPSMRTRVSFETGFFKLGGHAI YLGPDTIQ
UniRef90_R7N2B0	G K N V L F E K T S T R T R <mark>C</mark> S F E V A A H D L G M E
UniRef90_R6CPZ8 UniRef90_T0N0K7	G K K L A T L F Y E P S T R T R L S F E S A M M E L G G N V I G F S S A D S S S S K L M A T F F Y E P S T R T R L S F E S A M H R L G G S V L S V P E P K S S S
UniRef90_H1BLD0	NKALGMIFTKSSTRTRVSFEVGMQQLGGKALYLN ANDM GKSLAMIFEKPSTRTRVSFEVGISQLGGDAVLLDSSSTQM
UniRef90_UPI00037F3590 UniRef90_B4W2Y0	GKSLAMI FEKPŠTRTRVSFEVGIŠQLGGDAVLLDSSSTQM NKVLGLLFYKASTRTRVSFSVAMYQLGGQVIDL NPNVTQ
UniRef90_UPI00047C5BAE	GKKVALLFEKASTRTRISFEVGVIELGGHPIVLNGSD M
UniRef90_E8N9I7 UniRef90_X1FYE2	P Q T V A V I F D K S S T R T R V S F A V G L A D L G G S P L
UniRef90_D7A9Q2	GRTQINL FFEASTRTQSSFELAGKRLGADVMNMSVSTS S
UniRef90_D5BV08	NKVLGMLFEKSSTRTRVSFEAGMAQLGGSAI FLSPQDTQ PRSVAVFFDKASLRTRLSFEAGLAELGGQPI I VDTQNTH
UniRef90_G8S2R8 UniRef90_B1QZ96	GKSLGMI FEKASTRTRVSFEVGMYQLGGNALFLSDKEL
UniRef90_K9SR86	RKTLGLLFRKASTRTRVSFSVAMHQLGGHVIDLLPST T
UniRef90_E3GWW5 UniRef90_C9S7J6	GRILL <mark>C</mark> TILFYEPSTRTSASFDAAMQRILGGRTIVVII STSHS
UniRef90_D6THJ1	GQLVSLLFFEPSSRTFGSFAAAVKRLGGQTLELQNPETVS
UniRef90_A7C313 UniRef90_G9EDZ5	GKTILVINLEFEPSTRTRVGEEVAAEDOG ARVITVLGPTGTH
UniRef90_UPI00038214C1	GKAVINLFFEASTRTRTSFELAGKYLGADVVNLTTSTS S
UniRef90_UPI00047DFF51 UniRef90_H8GII4	GKILLIAT CFYEPSTRTRILISFET A MILIRILIGGK CLIGFAD A SNSS GKTILVINILIFFEN STRTRTTFETT A A KRILISA DIVILISE MITTATISA T
UniRef90_E7NY86	ĞKNLĂL FEKTSTRTRCSFEVGAYDL GMN VTYLEPGTSQ
UniRef90_K2C3M3 UniRef90_E0MM40	DSI MSI L F F E P S T R T R F S F E T A M K K L S G K T I T M S G S A G T S
UniRef90_A0A023X6C3	GRTLAMVFQKPSNRTRVSFEVGMYQLGGHALPLSPQEIQ
UniRef90_Q2BRE4	GKTVVNLFFEASTRTLSTFELLAAKRLSADVLNLNISTSTS
UniRef90_UPI0004776469 UniRef90_E4ZRS5	GRVLCTVFCEPSTRTSASFDAAMKRLGGEVIVINES VS
UniRef90_Q16VN4	GKVMASVFYEVSTRTCCSFAAAMQRLGGRVIYMDETS S
UniRef90_V5S9X7 UniRef90_UPI0003B358AC	F K GIL AL LIFE K P S I K I K V S F D IL A M K Q L G G Q T IL M L N Q N D L Q G Q T A A V L F D K T S T R T R F S F A S G IL A H IL G G Q P IL V N P G F A
UniRef90_Q92BC1	GKILIGMI FDKPSTRTRVSFEAGILIQLIGGQAI VM SSKEL
UniRef90_Q1GZG8 UniRef90_R5TE21	GKTIVIONI FFENSTRTRTTFEII AAKRILISADVI ITILINIVISTSSQGKNII AII I FEKDSTRTROSEEVAGYDII GMH VITVII GDTGSO
UniRef90_U2V460	GKTLGMI FEKSSTRTRVSFETGMYQLGGQALI FLSNRDLQ
UniRef90_I0A0A1	GKTII GML FRKPSTRTRSSFEVGLAEL GG JIPFYFRPDEM
UniRef90_L1N5V6 UniRef90_I0FDT5	GKNIVI I FEKDSTRTR <mark>C</mark> AFFIVIAAYDOG A <mark>H</mark> IVITYI GPTGSO
UniRef90_F4S4Q8	GKVI CSMFYEPSTRTSASFEAAMCRÜGGRÜVSI SADKS
UniRef90_B2V8A7 UniRef90_R6C7U7	GKSIIJGE I FMKQSTRTRESFEVIGVIY QMGGQPII YESGST T
UniRef90_C1DD77	GKNIALI FEKTSTRTR <mark>C</mark> SFEVAAHDQG AHVIT <u>YII</u> DPSSSQ
UniRef90_B5YFH6	GRTII CTLFYEPSTRTRSSFELAAKYLSADTII STATSTS S
UniRef90_UPI000368E814 UniRef90_V6MAY4	GKTLGMI FDKASTRTRVSFEVGMYQLGGMGM FLSGKELQ
UniRef90_UPI00035D1BB8	GKTLIGMI FEKSSTRTRVSFEVGMQQLIGGNAL FLISPRDTQ
UniRef90_F9ZRT5 UniRef90_A0A031MDN9	N N V
UniRef90_B1VH32	RQSVAVLFDKTSTRTRFSFSAGITELGGSPI VVDSGŠ S
UniRef90_E0XYF5	R R V M A T L F Y E P S T R T R L S F E S A M R R L G G D V T T E S A Q E F S

	00 400 440 400
UniRef90 R6FHY1	90 100 110 120 A T K G E T V A D T A R V V S C Y A D T I A M R H P K E G A P L R A S M Y S R
UniRef90_UPI000465CA6D	ATKGETVADTARVVS <mark>C</mark> YADII I AMRHPKEGAPLRASMYSR SVSKGESI ADTLKTVSNYVDVVAIRHPKEGA <u>ALV</u> ASRAAS
UniRef90_K9HQA8	QL GRGETI ADTARVLISRYCDMI MI IRTDDPAKILEEMARHA
UniRef90_UPI0004672001 UniRef90_U7M0J1	QLGRDEPLRDTARVLSRYGD <mark>C</mark> LIVRTFGHDKLEDL AAF GKGESYQDTGAVLSRYVEAIVWRTYAHDNLEQMAET
UniRef90_A3DL27	LIGRGETI EDTARVVISRYVIDGI MARVIYEHEKL EKLAQY
UniRef90_D7JEK4	
UniRef90_Q0W2V3 UniRef90_B8GP66	LGRGETV ADTGRILSSYVHGIMVRANDHDMLIEL AKN T KGESLLDTLRNLEAMYVDMFVVRHESSGAAHFFARHVA SSKGETL KDTIKIVSNYADVIIMRHYLEGAA RYASKIT
UniRef90_B6YRC6	S S K G E T L K D T I K I V S N Y A D V I I M R H Y L E G A A R Y A S K I T
UniRef90_A1ATU5	OMGRGEPHKDIARIVISRY <mark>C</mark> DGHMHRIEGDEHVDEHAAYA
UniRef90_A6LW74 UniRef90_UPI00036E7A00	MGKKESI ADTARVLGRMYDGI EYRGFSQEI VEEL AKY QLGRGEPI EDAARVLSRMVDCI MIRTFAQKSLQRF AEY
UniRef90_D5WXZ9	
UniRef90_E2CAY1	Q L G R G E T I A D T A R V L S R F V D <u>A</u> I M I R <u>IL L</u> D <mark>H</mark> D D L N E <u>IL </u> A E A A
UniRef90_UPI00034ADF99 UniRef90_B5EME4	Q V G R G E P L E D T A R V L D R Y L D L L A I R T F A Q E D I
UniRef90_D5U0D8	QLARGETIEDTARVLSRYVDGIMARVYEH YKIEKLAEY
UniRef90_C5FKA7 UniRef90_D5MHR1	S A Q K G E T L
UniRef90_U1H2G0	QLGRGETIADTARVLSRYVDAIIMIRILNHDALLELAAHA
UniRef90_G3BFI5	SVKKGETLQDTLRTLACYADAVVLRHPKEESADLAAKYSP
UniRef90_UPI00036A3C36 UniRef90_F4CLF9	SVKKGETLQDTIRTLACYADAVVLRHPKEESADI AAKYSP LGRGETI EDTAKVLSRYVDGI MIRTFAHSDVEELAKYA LGRGETIS DTARVLSRYVDAI VWRTGAQTRVDEMAAAA SAKKGETLEDTVSMMAGYADI VVIRHPTPGAVQVAA KSS
UniRef90_UPI0003595D7D	SAKKGETLEDTVSMMAGYADIVVIRHPTPGAVQVAA KSS
UniRef90_J5U4P4 UniRef90_D7EB01	AAKGESIVIS DIII KIIVIG <mark>U</mark> YADII I AMKHPKEGAPII VIGAUKII
UniRef90_F8E558	LGRGEST KDTARTLSRYVDGIMIRTFAHSKLEEL AEN
UniRef90_G4TJQ3	SIVIM K G E TII IA D TII IR TIL IA <mark>C</mark> Y A D GII V I IR H P A IVIG S A Q T A A N F S P
UniRef90_I4W801 UniRef90_R5HFH3	TAKGEALYDTLHTLEAMHLDAI I VRHKVSGTPEELVRHAM SATKGESVADTARTVS <mark>C</mark> FADI I AMRHPKEGAPLVASMKAT
UniRef90_E6JYB2	STKGFTIVI ADTIVIKIVVISNYADII VIAMRHPKFGA AII VIAAKAA
UniRef90_B9XEN2 UniRef90_UPI00038093DB	LKKGETLKDTARNLEALNADLIIIRHSATGAAHFLS RFL
UniRef90_W0FJD3	LKKGETLKDTARNLEALNADLITIRHSATGAAHFLS RFL QIGRGEPIKDTARVLSRYLDGVMIRTFAHADVEEFAKYA AAKGESV ADTAKTVSCYADLIAMRHPKEGAASVAA RNA
UniRef90_UPI00037133FF	GAKETIIS DIARIVLISRMIVISMII VIWRIFAHAGILIEEM AAN
UniRef90_E8XVP0 UniRef90_UPI0003458327	IG HKESMKDTARVLGRMYDGIEYRGFAQKTVEEL AEF MGRGEPL ADTARVLERQVAAVVWRTFAQTDLETLARHI
UniRef90_K2BMJ4	SVKKGESLRDTGRVVSCFADVIAMRHSEAGSVAELAEGAT LGRAETLG DTAKVLSRYVDAIMLRTTDHDRLLEL AET
UniRef90_UPI000364211C UniRef90_I0YUH0	SVKKGESLRDTGRVVSCFADVIAMRHSEAGSVAELAEGAT LGRAETIG DTAKVLSRYVDAI MIRTTDHDRLLEL AET IGKREAT KDLARVLCRYNDVI MARLFAHEDI LELAQYS
UniRef90_R7N2B0	II IGKKESII I ADIARIVI IGRMED GILIEYRGYEO III VIEDII I — AKY
UniRef90_R6CPZ8 UniRef90_T0N0K7	AAKGESV ADTIRVIAGYADIAAMRHPKEGAPMVAAM NS AAKGETL ADTMRMASAYSDLIVIRHPLDGSARLAS KFS
UniRef90_H1BLD0	OILIGRGEPILIKDTARIVLISRYIVIDGILIMILIRTYKOSDILIEFILIAFYG
UniRef90_UPI00037F3590	E Q G E SII IA D T A RIV L IS R F IV ID A II IMII IR T S S E SII L I <mark>H</mark> E IL IA E Y A
UniRef90_B4W2Y0 UniRef90_UPI00047C5BAE	EQGESI ADTARVLSRFVDAI MIRTSSES LHELAEYA VGRGEPVV DTARVLDRYLDLLAIRTFEQKEL ETFAEY QIGRGESLGDTLQVMSRYVDALMURTFAHETVETLAEHG
UniRef90_E8N9I7	QLGGKEIPSDIAKIVLEKQIVIAAII VIWKIYAQAGILEEM AKG
UniRef90_X1FYE2 UniRef90_D7A9Q2	II IG OREPIVIA DIVIA CIVI IS RIVIDIGII ICIA RIVIES HOTITI I II ISILIA E H
UniRef90_D5BV08	L G R G E P I E D T A R V L S R M V D C L M V R T F S H S M L E R F A A Y S
UniRef90_G8S2R8	FGRGESLS DAGRVVSRYVAAMVYRT HGDERLAELASG QIGRGEPIEDTARVLSRFIQGIMIRTFSQKEA ETLAKY
UniRef90_B1QZ96 UniRef90_K9SR86	OVGRGEPVEDTARVIDRYVDALAIRTEAOSEI ET <u>F</u> AKY
UniRef90_E3GWW5	QLGRGELIADTAKVMSRYVDGIMIRANRHKDVIELAKHS SVQKGETLQDTLRTLGCYGDAVVLRHPEESSVDVARKYAS SVNKGETFEDTIRVFEAYSDALVLRHPRPGAALRAAESAE TSKGETLIDMLRNLEAMQCDMFVIRHNAGGSAQFMAQHVP
UniRef90_C9S7J6 UniRef90_D6THJ1	SIVIN K GET FEDTI IRIVIFEAY SDAI V LIR HPREGS SIVIVIA R K Y A S
UniRef90_A7C313	TSKGETLIDMLRNLEAMQCDMFVIRHNAGGSAQFMAQHVP
UniRef90_G9EDZ5 UniRef90_UPI00038214C1	TG HKESVKDTARVLGRÖYDAI EYRGFGQTIVEELAQYA VTKGESLRDTLLTVEAMNVDALVMRHPVEGAAHFAA GLA
UniRef90_UPI00047DFF51	AAKGESV ADTIRVIS <mark>C</mark> FADI <mark>C</mark> AMRHPKEGAPMVAA ANS S KGESL LDTLRNLEAMFVDMFVVRHALSG <u>AA</u> HFIQQAAP
UniRef90_H8GII4 UniRef90_E7NY86	S KGESIL LIDTILIR NILIE AMFIVID MFIV VIR HALIS GAAHFII QQAAP
UniRef90_K2C3M3	M_EKGESFADTÜKŢI SRYSNŪMVIRSAŪEGSV RYAAEŪA
UniRef90_E0MM40 UniRef90_A0A023X6C3	QLIGRGETIVADTARIVLISRYIVDAII MII IRTTSHDRLLEILIAQHA
UniRef90_Q2BRE4	TSKGETLKDTLMTLHAMHSDMFVVRHSSSGAAHFIIAEHVT
UniRef90_UPI0004776469	LGRGEPLLEDSARVLSRMVDLVMIRTEGHDKIERF AEF
UniRef90_E4ZRS5 UniRef90 Q16VN4	SIQKGESI ADII KILGSYGDAJI VLKHPQEEAJI DILAT KFS SVKKGETI EDSI OVMSGYADVVVI RHPEPGAVARAAHHCR
UniRef90_V5S9X7	LGRGESUS DTARVUS RYADAVMLRANSHDTLLEL AKN
UniRef90_UPI0003B358AC	QL GHKESI ADTARVLDRQVSLI IWRTYAQAGLEEMAQHS
UniRef90_Q92BC1 UniRef90_Q1GZG8	S KGETI LDTI DNLT A MH A DMFV VRHA E SGA A H FILAR HVA
UniRef90_R5TE21	MGKKESI ADTARVISRUYDGIEYRGFDQELVEDLAKYS
UniRef90_U2V460 UniRef90_I0A0A1	QLTRGEPVKDTARVLDRYLKGFVIRTFGODFVFFFAKYM
UniRef90_L1N5V6	TVKGESLRDTLYTIEAMGVDATVMRHKAEGSAAYAADAVS
UniRef90_I0FDT5 UniRef90_F4S4Q8	ILIGKKESIL ADTARVLIGRMYDAILEFRGFSQEAVEDLAKYS SAAKGESILEDTIRTILGOVGDAVVLRUDAAGSVLOSAAKVS
UniRef90_B2V8A7	QLS R G E DILK D T A RVMS R Y LD GILV LR T F S H Q E V E E LA K Y G
UniRef90_R6C7U7	VAKGENLKDTTKI VSGYAD MVMRHPTEGSVK AAALTA
UniRef90_C1DD77 UniRef90_B5YFH6	VQKGETLLDTVKTLEAMGIDLFIIRHSASG VPSFIIAKNV
UniRef90_UPI000368E814	TAKGESL LDTLANLSAMHADMFVVRHSESGAPYLIAQHCA
UniRef90_V6MAY4 UniRef90_UPI00035D1BB8	L G R G E P I S D T A K V L S R Y V D A V M I R T F S H E Y V E E L A H H A L G R G E P I F D T A R V L S R M V D C V M I R T V E H E K V E I E A D V S
UniRef90_F9ZRT5	LGRGESI EDTARVLSRMVDLVMIRTFGHDNLLRFAAAS
UniRef90_A0A031MDN9	V T K G E S L R D T L T V E A M N V D A V M R H P V E G A A H F A A G A A A K G E S V A D T R V S C F A D C A M R H P K E G A P M V A A A A N S S K G E S L L D T R N L E A M F V D M F V V R H A L S G A A H F Q Q A A P M G K K E S E D T A R V L G R F Y D G E Y R G F S Q E V E E A Q H A M G K K E S E D T A R V L G R F Y D G E Y R G F S Q E V A D H A A A A B M G K R E T P S D T G R V L A R Y D A M N R T F D H S E L E E L A R A A A M G K R E T P S D T G R V L A R Y D A M N R T F D H S E L E E L A R A A A M G K R E T L K D T L M A M H S D M F V V R H A S S S A A A H F L A E H V T L G R G E P E D S A R V L S R M V D L V M R T F G H D K E R F A E S T Q K G E S I A D T R T L G S Y G D A V V L R H P P E P A Q A A A H H C R S Y G V K K G E S I A D T R T L G S Y G D A V V L R H P P E P A Q A G L E E M A Q H S S Y G M A A F I L D T L D N L T A M H A D M F V V R H A E S G A A H F I A R H V M S E Y L D A M M R T F S H D T L L E L A K Y S W G L G R G E P K D T A R V L D R Y L D A M M R T F S H E S G A A H F A A K Y S W G L G R G E P K D T A R V L D R Y L D G M R T F S H E S G A A H F A A G M S W S A A M S S S G A B P Y L D A M A D M F V V R H A E S G A A H F A A G M S W S M S Y A D A V V R H A S E S G A A H F A A G M S W S M S Y L D G M R T F S H E S G A A S K Y S W M G K K E S A D T A R V L D R Y L K G F V I R T F S H Q E V E E L A Y H A E M S M S W M G K K E S A D T A R V L S R Y L D G M R T F S H Q E V E E L A A K Y S W M G K K E S A D T A R V L S R Y L D G M R T F S H Q E V E E L A A K Y S W M G K K E S A D T A R V L S R Y L D G M R T F S H Q E V E E L A A K Y S W M G K K E S A D T A R V L S R Y V D G E F R G F S Q E S V E D L A K Y S S A A K G E S L E D T R T L G C Y G D M V N R R H K A E E G S A A Y A A A A L T A Y V C K G E S L E D T R T L G C Y G D M V N R R T F S H Q E D V E E L A A R N V C C M S R S C S C M S S C S C S C S C S C S C S C
UniRef90_B1VH32 UniRef90_E0XYF5	QMGKGETFQDTGAVLSKFASMIVWKTGAHSNLAEM AET SAAKGETTEDTTRITAGYADVIVTRHEESGA SKRAAAVS

	T V G L C V V C W S K L A Y V L K I V F I T V G F C K F V W V R I I V
UniRef90_D/JEK4	K F V W V R V A I V T I T I V
UniRef90_D/JEK4	K F V W V R V A I V T I T I V
UniRef90_B8GP66 UniRef90_B6YRC6 UniRef90_A1ATU5 UniRef90_A1ATU5 UniRef90_A6LW74 UniRef90_UP100036E7A00 UniRef90_D5WXZ9 UniRef90_D5WXZ9 UniRef90_UP100034ADF99 UniRef90_UP100034ADF99 SKIPVINGLT DLT HPCQILMA DVMTVME HKGGYAGL SVPVINGLT DLT HPCQIL T DVFT FEEHRGSIRGK UNIRef90_UP100034ADF99 SKIPVINGLT KLSHPCQIMA DIMTYEEHRGSIRGK UNIREF90_UP100034ADF99 SKIPVINGLT KLSHPCQIMA DIMTYEEHRGSIKGK UNIREF90_UP100034ADF99 SKIPVINGLT KLSHPCQIMA DIMTYEEHRGSIKGK	R V A V V V V V V V V
UniRef90_A6LW74 UniRef90_UP100036E7A00 UniRef90_D5WXZ9 UniRef90_E2CAY1 UniRef90_UP100034ADF99 SKIPVINGLTDLFHPCQILADLYAIVREKGGYAGL VPVWNGLTDLFHPCQILADLY IVMEHKGGYAGL KGV UNIREF90_UP100036E7A00 SVPVINGLTDLFHPCQILADLYAIVREKGRIKGV UNIREF90_UP100034ADF99 SKIPVINGLTKLSHPCQIMADIMTYEEHRGSIKGK UniRef90_UP100034ADF99 SKIPVINGLTKLSHPCQIMADIMTYEEHRGSIKGK	
UniRef90_D5WXZ9 SVPVINAGDGPGEHPTQALLDLYATYREKGRVDGL UniRef90_E2CAY1 TVPVINGLTKLSHPCQIMADIMTYEEHRGSIKGK UniRef90_UPI00034ADF99 SKIPIINALTULEHPCQILADLUQTEESFGCLEGL	RVAMV SVAWT TLTYL TVAYI
Uniker90_UP100034ADF99 SKI P L NA L L D L E H P CQI L A D L Q T L E E S F G C L E G L Uniker90_UP100034ADF99 SKI P L NA L L D L E H P CQI L A D L M T A T E L W C D L B C B	
UniRef90 D5U0D8 A S V P V I N G L S D D H H P C Q L L A D L IM T A T E H W G D L R G R	K I V F V
UniRef90_C5FKA7 PVPIINGGNGSQEHPTQAFLDLFTIREELGTVSGIUNIRef90_D5MHR1 AVPVINGLSDLTHPCQILADLFTLQEKCGTLHGV	TVTFT
UniRef90_U1H2G0	TVAWT TVTFM KMTY[
UniRef90_F4CLF9	T L T Y F
UniRef90_J5U4P4	TIGV <mark>C</mark> KIA <u>IA</u> KVAFV
UniRef90_G4TJQ3	TITLL VVTLC VVGCC
UniRef90_E6JYB2	T I G L <mark>C</mark> K V T I L
UniRef90_UPI00038093DB	T V G L C
UniRef90_E8XVP0 S G V P V WN G L T D E F H P T Q I L A D L M T M L E H S P G K K L S UniRef90_UPI0003458327	T
	I I A W I
UniRef90_R7N2B0 A G V P V WN G L I N E F H P I Q M L A D V L I I I K E K L G R I K G V U D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T L H Q L K G R V D N M C L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L M T D L T D L T D L M T D L T D L T D L T D L T D L T D L T D L T D L T D L T D	K L T Y M T V G L C
UniRef90_T0N0K7	T
UniRef90_B4W2Y0	TVVYL VLTYL
UniRef90_E8N9I7	TLSFF TLAFV TVAIC
UniRef90 G8S2R8 VDVPVINALS DGYHPCQLLADLTTRERFGTTRGR	T I A Y V
UniRef90_B1QZ96 \$SIPIINGLTDDEHPCQVLADLMTIRENKNILEGIL UniRef90_K9SR86 CKIPIINALSDREHPCQALADLLTVIENFGGLTGL UniRef90 E3GWW5 TIPVINGLTDEEHPCQALADMQTIKEYKGGFNI	KVAFV TLTYF KLAFV
UniRef90_C9S7J6	T I T F I T G V M A
UniRef90_A7C313	A F V F I K V A I L
UniRef90_UPI00047DFF51	T G L C K V A <u>I I</u> N L T F F
UniRef90_E7NY86 UniRef90_K2C3M3 UniRef90_K2C3M3 UniRef90_E0MM40 UniRef90_A0A023X6C3 UniRef90_Q2BRE4 P D V V I N G L T D D F H P T Q M L A D I M T V E E N F G Y L K G L L D L Y S I K K T Q A G I E N K T V P V I N G L T D E T H P C Q I M A D V M T Y E E H R G P I A G K D V P V I N G L S D T H H P C Q A L A D L L T V H E E F G R V E G V L C A L L D L T V H E E F G R V E T L T V H E E F G R V E T L T V H E E F G R V E T L T V H E E F G R V E T L T V H E E F G R V E T V T T T T T T	T LA L V T WA WT
UniRef90_A0A023X6C3	RITYV TVALV
UniRef90_E4ZRS5 DVPVINAGNGSREHPTQAILDIFTIREELGTVNGL UniRef90_Q16VN4 KPLINAGDGVGEHPTQALLDIFTIREELGTVNGL	N I T F V T I A M V
UniRef90_UPI0004776469 UniRef90_UPI0004776469 UniRef90_Q16VN4 UniRef90_V5S9X7 UniRef90_UPI0003B358AC UniRef90_Q2BC1 UniRef90_Q2BC1 UniRef90_Q2BC1 UniRef90_Q16VN4 UniRef90_Q16VN4 UniRef90_UPI0003B358AC UniRef90_UPI0003B358AC UniRef90_Q16VN4 UniRef90_UPI0003B358AC	K V A WV K L A Y L K I A Y I
UniRef90_Q1GZG8 PHIHINAGDGRHAHPTQGLLDVFTIRRYKPDMHNL UniRef90_R5TE21 SVPVWNGLTNEFHPTQMLADVMTIEETFGHLKGI	R V A V V N M V F M
UniRef90_U2V460	R V V Y T K V A I L
UniRef90_I0FDT5	K MV F C
UniRef90_B2V8A7	T L G F C A Y A Y V
UniRef90_UP1000368E814 PHVHVNAGDGRHAHPTQGLLDMYTIRHYKRDFTQL	K A I I T V A I V K L A Y I
UniRef90_UPI00035D1BB8	R V A WI
UniRef90_A0A031MDN9 P D V I I N A G D G N H A H P T Q A M L D M L T I R R H R A G F E Q L I I N S L S D D F H P C Q I L A D L Q T I R E K K G K L A G L UniRef90_E0XYF5 UniRef90_E0XYF5 P V P L I S A G D G P G Q H P T Q A L L D V Y T L Q R E L G H L D D L	IK A II IY F

JURREPS UP1000486CA50 6 0 1 K F G R T V H S L V R Y P C R P N F F Y F L P P E N E K L P P O Y T V E N E N F P C P T P S P E N F F Y F L P P E N F Y F L P P E N F Y F L P P E N F F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P P E N F Y F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N F L P E N		170 180 190 200
JURNESSO 190004972001 G	UniRef90_R6FHY1	G D L K F G R T V H S L V N S L V R Y P G N E F Y F I S P E E L K I P D Y L V E
JURIAGES D. JP100046772001 G.D. G.G. N. N. M. J. A. S. S. D. G. G. Y. G.P. N. P. D. V. Y. A. S. P. G. Y. G.P. N. P. D. V. Y. A. S. P. G. Y. G.P. N. P. D. V. Y. A. S. P. G. Y. G.P. N. P. D. V. Y. A. S. P. G. Y. G.P. N. P. D. V. Y. A. S. P. G. Y. G.P. N. P. D. Y. Y. A. S. P. G. Y. G.P. N. P. D. Y. Y. A. S. P. G. Y. G. P. N. P. P. P. Y. Y. F. J. Y. F. J. Y. J. S. P. J. Y. G. J. G. S. P. W. Y. A. G. P. G. P. D. P. R. T. Y. Y. F. J. J. J. W. J. W. J. J. W. J. J. W. J. J. W. J. W	UniRef90_K9HQA8	GDG NNIVIAASWI IFAAAQFG FFMRIVIA <mark>C</mark> PFNRFPDARIVVIQ
This state Month	UniRef90_UPI0004672001	GDG NNII A H SILLIN A A A R F PILITIVI A IVIA S P O G Y O P N P DIV VIA
This state Month	UniRef90_A3DL27	GDGGDNVLHSLMLGIGI LIGGKI I I SSPKGYDPDPRI I KLF
This state Month	UniRef90_D7JEK4	G D L L Y G R T V H S L T K A M G R Y R G L Q F V F V S P D E L R L P D Y L R R
June		GNNVCNSI MILACAMMIGNEMIV VIACEKGYEPNOJI LIE
JURNER90	UniRef90_B6YRC6	GDLKYGRTVHSLLNGMSYFNPTFHFIAPEELKLPITYKQF
UnRed90 DVXX29 G		GDG NNMANTWIEAAAIFGFDLALACPQGYEPDAKVMAW GDARNNMG NSUMVA <mark>C</mark> AKMGUN FTACAPKFUFPSFFUVF
Unicargio (2014) Unicargio (2	UniRef90_UPI00036E7A00	GDG NNMAHSWINGAVSFGY RLNIA <mark>C</mark> PKGY <mark>C</mark> PNNSLLQ
Junkago Del00034AD99		GDLAYGRIVHSLAYLLSLFRDIHIDFVSPPEIPVPDRVLA GDS NNVIASWVHAAPRID FFMRIATPKFIAPPTFILF
Unicagio Discours	UniRef90_UPI00034ADF99	GDG NNVAHSLLTGGVLMGMNVRIAAPEGYLPDENVVKQ
JURISHIPSO DSMINRT JURISHIPSO JURISHO JURISHIPSO JURISHIPSO JURISHIPSO JURISHIPSO JURISHIPSO JURISHO JURISHIPSO JURISHIPSO JURISHO		GDGSNNMAHS WMEAAQVFDFRLIRI GSPAGYVPSAGML GDGGDNVI HSI MI AVGI I GGRV II I ASPKGYEPHPSVVK
United Diministry Diminis	UniRef90_C5FKA7	G D L R H G R T V H S L I K L L Q F Y Q V R V Q L V S P K P L S L P D D L R Q Q
United Diministry Diminis		GDG NNVCHSWLYGAARTG LELHVACPKGYEPDAGLVA
UniReigo JUSUAPA G D G A N N M A H S L L L G G A T A G L H V M R	UniRef90_G3BFI5	G DIL IK Y G R PIVI <mark>H</mark> SIL I <mark>C H</mark> IL L IR H Y HIVIRIVIQIL VIA P K EIL IE M P A SIL IR Q M
UniReigo JUP1000389507D G D L K N G R T V H S L LA R L LTI L I Y R V.N.L. R Y.V.A.S P. G L E M.P K E I D E M.P K E		GDG NNMVNSLLLAAAKVG MDUSI ASPKAYKPQEDVVE
JURINERSON DYEBO1 GDLIK Y G R T V.H S L. QY A LISHY N A E IT. V.S P K DUR M P R E IT. R JURIES DINIERSON GATJO3 GDLIK Y G R T V.H S L. QY A LISHY N A E IT. V.S P K DUR M P R E IT. R JURIES DINIERSON GATJO3 GDLIK N G R T V.H S L. V T L. L M F Y S V.R R L N F V.S P P S LIA M P D S L. V.N DINIERSON GATJO3 GDLIK N G R T V.H S L. V T L. L M F Y S V.R R L N F V.S P P S LIA M P D S L. V.N DINIERSON GATJO3 GDLIK N G R T V.H S L. V T L. L M F Y S V.R R L N F V.S P P S LIA M P D S L. V.N DINIERSON GATJO3 GDLIK N G R T V.H S L. L G A M S R F G M ID F V.L L IS P P E L K L P E A E F P D L N R V. S P P S LIA M P D S L. V.N DINIERSON GATJO3 GDLIK N G R T V.H S L L G A M S R F G M ID F V.L L IS P P E L K T P D V.Y V.L D L IN R V. S P P S L I M A L S R V.A R S D L M M S R F G M ID F V.L L IS P P E L K V.T P D V.Y V.L D L IN R V. S D L I M S V. S P P S L I M A L S R V. S R	UniRef90_UPI0003595D7D	GDLKNGRTVHSLARLLTLYRVNLRYVAS PGLEMPKEI CE
Unikergo F8E558	UniRef90_J5U4P4 UniRef90_D7FB01	GDILKFGRTVHSILIEAMLRYDNIKFVLISPVELQVPDYIKE
United O O O O O O O O O	UniRef90_F8E558	GDG NNMAHSWVIGAAKFG MDIVVASPRGYE <mark>C</mark> DEKYIN
UniRef00 E8/14P2 DiniRef00 E8/14P2 DiniRef00 E8/14P2 DiniRef00 B9XEN2 DiniRef00 UNID033093DB GD G N N M T H S L I G A M S R Y P N V R F V L I S P E E L R P E S V R T D UniRef00 UNID033093DB GD G N N M T H S L I M Y G R F G H I D E! V L I S P E E L R P E S V R M D Y V L D UniRef00 UNID033093DB GD G D G N N M T H S L I M A L I K L I G A H V T L C G P S T I V P K V F F K M UniRef00 UNID033093DB GD G D G N N M T H S L I M A L I K L I G A H V T L C G P S T I V P K V F F K M UniRef00 UNID03313FF GD D A N N M T H S V L N A L I S R Y E G L R E! V L I S P E E L R V P S Y V K S UniRef00 E8/24P0 DINREf00 L D B M N M M S M S V L G F A T A G M M G M D I R L J A P K S F W P E L T C D D C M N M M M S Y L G F A T A G M M G M D I R L J A P K S F W P E L T C D D C M N M M M M M M M M M M M M M M M M M	UniRef90_G4TJQ3 UniRef90_I4W801	G DIL IK N G R T IV IH S IL V IT IL L IM F Y S IV IR IL IN F IV IS P P S IL IA M P D S II V IN
UniRef90 E6JYB2 UniRef90 WSNEND UniRef90 UP10003803DB G D G N N MT H S L MY G C A K WG G MH F SV A T P P G Y E P N A A V VIE UniRef90 UP10003803DB G D G N N MT H S L MY G C A K WG G MH F SV A T P P G Y E P N A A V VIE UniRef90 UP100037133FF G D A A N N M G H S Y L L G F A T A G MH F SV A T P P G Y E P N A A V VIE UniRef90 UP100037133FF G D A A N N M G H S Y L L G F A T A G MH I RV A G P D G Y H P R E D L V A UniRef90 UP100037133FF G D A A N N M G H S Y L L G F A T A G MH I RV A G P D G Y L R R A UniRef90 UP100034034F G D G N N M A H S Y L L G A A K M G M H I RV A G P D G Y L R R A UniRef90 C9SD G D G N N N M A H S Y L L G A T A G M H V R L G A P K G H O D P V L T R A UniRef90 C9SD G D G N N N M A H S Y L L G A T A G M H V R L G A P K G H O D P V L T R A UniRef90 C9SD G D G N N N L H S F L E G A G R R S Y R M N I A V P K G S P P E M R F L V K D L M C M C M C M C M C M C M C M C M C M	UniRef90_R5HFH3	G D IL IK F G R T IV I <mark>H</mark> S IL I IG A M S R Y P N IV IR F IV L I IS P E E IL IR P E S IV IR T D
UNINGE910 UP100034733F-V UNINGE910 UP1000348327 G D G A N N M A H S Y L L G G A T A G M H D I N L T A P K S F W P E E T C C D D UNINGE910 UP1000384211C G D G A N N M A H S Y L L G G A T A G M H D I N L T A P K S F W P R E U V K UNINGE910 UP1000384211C G D G N N V L H S F L E G A G R F S Y R M N L A W P R E L V K UNINGE910 UP1000384211C G D G N N V L H S F L E G A G R F S Y R M N L A W P R E L V K UNINGE910 UP100038741C G D G N N V L H S F L E G A G R F S Y R M N L A W P R E L V K UNINGE910 UP10003774590 G D G N N W L H S F L E G A G R F S Y R M N L A W S Y P P D E A L V IA UNINGE910 UP10003775390 G D G N N W S F R S Y W M G N S L M W Y C A K L G G M F F V L I S P D E L L M P F W L W M G N S L M W Y C A K L G G M F F W L S P D F L L M P D Y W K T E W M G N S W N N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G S P D T Q L C W M M S W M G M S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M M G S Y L V D M M M S W M S W M G M D V M M M S W M M S W M M S W M M M S W M M S W M M M S W M M M S W M M M S W M M M S W M M M S W M M M M	UniRef90_E6JYB2 UniRef90_B9XFN2	GDILITEGRINIH SILLIQI M <mark>C</mark> REGHILIDEIVLLISPPEILIKT PDYIVLID
UNINGE910 UP100034733F-V UNINGE910 UP1000348327 G D G A N N M A H S Y L L G G A T A G M H D I N L T A P K S F W P E E T C C D D UNINGE910 UP1000384211C G D G A N N M A H S Y L L G G A T A G M H D I N L T A P K S F W P R E U V K UNINGE910 UP1000384211C G D G N N V L H S F L E G A G R F S Y R M N L A W P R E L V K UNINGE910 UP1000384211C G D G N N V L H S F L E G A G R F S Y R M N L A W P R E L V K UNINGE910 UP100038741C G D G N N V L H S F L E G A G R F S Y R M N L A W P R E L V K UNINGE910 UP10003774590 G D G N N W L H S F L E G A G R F S Y R M N L A W S Y P P D E A L V IA UNINGE910 UP10003775390 G D G N N W S F R S Y W M G N S L M W Y C A K L G G M F F V L I S P D E L L M P F W L W M G N S L M W Y C A K L G G M F F W L S P D F L L M P D Y W K T E W M G N S W N N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M A N S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G N S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M G S P D T Q L C W M M S W M G M S W M M S Y L N G G L L A G M Q V A L A C P K E Y L P D T Q I C W M M G S Y L V D M M M S W M S W M G M D V M M M S W M M S W M M S W M M M S W M M S W M M M S W M M M S W M M M S W M M M S W M M M S W M M M M	UniRef90_UPI00038093DB	GDG NNMTHSLMYGCAKVG MHFSVATPPGYEPNAAVVE
UNIREF90 _PI10003385327 G D G N N W M A H S Y L L G G A L S G M F V I R L Q A P K G S E P E M R F V L V L UNIREF90 _PI100034211C G D G N N V L H S R V E R V E R V E R V E R V E R V E R V E V E		G D L L K F G K I V H S L L N A L S R Y E G L R F V L I S P E E L K V P S Y V K S G D A A N N M G H S Y L L G F A T A G MH I R V A G P D G Y H P R F D I V A
UniRef90_ V2BMJ4	UniRef90_E8XVP0	Y LG D A R N N M G N S L MV G A A K M G M D I R L LA P K S F W P E E T C C D
UniRef90 (JP1000364211C) G D G N N V L H S F L E G A G R F S Y R M N A J V J K G S E P E M R F V D UniRef90 (RY V J M G N S M V V G A K L G M F T A G T T K S Y F P D E A L V J A UniRef90 (RSC P S G D A R Y N M G N S M V V G A K L G M F T A G T T K S Y F P D E A L V J A UniRef90 (RSC P S G D A R Y N M G N S M V V G A K L G M F T A G T T K S Y F P D E A L V J A UniRef90 (RSC P S G D A R Y N M G N S M V V G A K L G M F T A G T T K S Y F P D E A L V J A UniRef90 (PS G P S G G P S G P S G G P S G P S G G P S G P S G G P S G P S G G P S G G P S G G P S G G P S G G P S G G P S G G P S G G P S G G P S G G G P S G G P S G G P S G G P S G G G P S G G G P S G G G P S G G G G		GDGANNMAHSYLLIGGAIAGMHVRIIGAPKGHQPDPVVLIIRA GDIIKYGRVPHSQCQYIIKNEKKIIKEVEVSPDEIIKMPREIIVK
UniRefgo	UniRef90_UPI000364211C	GDG NN VL HSF L EGAGRFSY RMN I A V PKGSEPEMRF V D
UniRef90 RCP28 GD L K F G R T V H S L I T A L S R Y E G I R F V L I S P D E L I P D Y V K T E UniRef90 H1BLD0 UniRef90 H1BLD0 UniRef90 L1PL000375350 GD G N M M A N S Y L I N G C L L A G M Q V A L A C P K E Y L P D T Q I C UniRef90 B4W2Y0 UniRef90 B4W2Y0 UniRef90 L1PL00047C5BAE GD G N N W A N S Y L I N G C I L A G M N V R V A T P S T Y Q P N S L L V D UniRef90 EN9917 GD G N N M A N S Y L I N G C R T R R L K R T P S T Y Q P N S L L V D UniRef90 D7A9Q2 GD G N N M A H S L L L G G A L S G M T I R I C S P A A Y A P D E M I V E Q K Q UniRef90 D7A9Q2 GD G N N M A H S L L L G G A L S G M T I R I C S P A A Y A P D E M I V E Q K Q UNIREf90 D7A9Q2 GD G N N M A H S Y V L A G V T A G M H V R V A A P P A D Y A P R V L A D A E R G N I W R V A R S N I L L L A G A T A G M H V R V A A P D E M I V E Q R Q S N M A H S Y V L A G V T A G M H V R V A A P P G Y E I R Q E I V L N R Q M N R R S N I L L L A G A T A G M H V R V A A P P T L L Q N R R S N I L L L A G A T A G M H V R V A A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A P P T L L Q N R R S N I L L L A G A T A G M H V R V A R P T L L Q R R V R Y A K R S N I L L L A G A T A G M H V R V A R P T R V F Q P R V V A R P T L L Q R R V R Y A K R S N I L L L A G A T A G M H V R V R V R P T R V R V R Y A K R Y R T L L R R V R R N I L L L A G A T A R R N R R R I L L L A G A T R R R R R R R R R R R R R R R R R R		GDARYNMGNSII MIVVI <mark>C</mark> AKII IG MHFTA <mark>C</mark> TTKSYFPDFAII VIA
UniRef90 LPID00037F3590 G A G N N M A N S Y I N G C I L I A G M Q V I L I A C P K E Y L P D T Q I C D UniRef90 B4W2Y0 UniRef90 B4W2Y0 UniRef90 B4W2Y0 G D G N N W A H S L L I G G A L I S G M I L I R I T P A E L P P N Q A IV L D UniRef90 B4W2Y0 UniRef90 B8N917 G D G O S N M A H S L L I G G A L I S G M I L I R I C P K E Y L P D X D W L D UniRef90 LPID0047C5BAE G D G N N M A H S L L I G G A L I S G M I L I R I C P K E Y L P D X D W L D A E R I V D A M A W S W I A A V R V A P D E M I V I D A E R I V D A E R I V I A D A	UniRef90_R6CPZ8	G D L K F G R T V H S L I T A L S R Y E G I R F V L I S P D E L I P D Y V K T E
UniRef90_DPI00047C5BAE G D G N N M A H S L L I G G A L S G M T I R I C S P A A Y A P D E MI V I E O K Q UniRef90_EBN917 G D G N N M A H S L L I G G A L S G M T I R I C S P A A Y A P D E MI V I E O K Q UniRef90_DSN917 G D G N N M A H S L L I G G A L S G M T I R I C S P A A Y A P D E MI V I E O K Q UniRef90_DSD402 UniRef90_DSD408	UniRef90_TUNUK7 UniRef90_H1BLD0	GA GNNMANSYINGCI LAGMQVALACPKEYLPDT QIC
UniRef90_UP100047C5BAE UniRef90_E8N9I7 UniRef90_E8N9I7 UniRef90_E8N9I7 UniRef90_C9	UniRef90_UPI00037F3590	GDG NNVGTSWIHAAVRFG FHLKLATPAELPPNQAVLD
UniRef90	UniRef90_UPI00047C5BAE	G D G N N M A H S L L I G G A L S G M T I R I C S P A A Y A P D E M I V E Q K Q
UniRef90	UniRef90_E8N9I7	GDGQSNMAHSYVLAGVTAGMHVRVAAPADYAPRVIADAER
UniRef90	UniRef90_D7A9Q2	G D L A H S R V A R S N I L L L Q A L G A Q V R V V A P P T L L
UniRef90 B1QZ96	UniRef90_D5BV08	GDG NNMCQSYII NAACQFD FQ L R I ATP V GYEPDPT I L
UniRef90_E3GRW55 UniRef90_C3GWW55 UniRef90_C9S7J6 UniRef90_C9S7J6 UniRef90_A7C313 UniRef90_A7C313 UniRef90_D47C313 UniRef90_UPI00038214C1 UniRef90_UPI00038214C1 UniRef90_UPI000477FF51 UniRef90_UPI00047FF51 UN	UniRef90_B1QZ96	G D G
UniRef90		CDCNNMAHSII MII IC <mark>C</mark> AII VICMNIVIDII IASDIVICETDDDEII VIAOTK
UniRef90	UniRef90_C9S7J6	GDLLYGRPVHSLVYLLRDYG VRVQLVSPKGLRLPEEVRN
UniRef90		GDALNSRTI HSLMRGLSLFENNTVYLLSPEKLRLKREDLN
UniRef90_H8GII4 UniRef90_E7NY86 UniRef90_E7NY86 UniRef90_E0MM40 UniRef90_E0MM40 UniRef90_A0A023X6C3 UniRef90_Q2BRE4 GD_LKYGRAVHSLVDAMSHFAP_EFYF[LSPRHLRLPKKFRD] UniRef90_Q2BRE4 GD_LKYGRAVHSLALACAQTG_AELT[AHPEGHAPDESV]MF UniRef90_UP10004776469 UniRef90_E4ZRS5 GD_GNNMCNSY[NAAAMCDF_ELR]ACPEGFNPSSDLIN UniRef90_Q16VN4 UniRef90_Q16VN4 UniRef90_UP10003B358AC UniRef90_UP10003B358AC UniRef90_Q2BC1 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_UP10003B358AC UniRef90_UP10003B358AC UniRef90_Q1GZG8 UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B358AC UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B35AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UNIREf90_UP10003B35AC GD_GNNVAASWMHAAAKFGFELVRVACPDELRPKEDIVD UNIREf90_UP10003B35AC GD_GNNVAASWMHAAAKFGFELVRVIAPKEDIVD UNIREf90_UP10003B35AC GD_GNNVAASSUMVVSAKMGMDVRIAPKEDIVD UNIREf90_UP10003B35AC GD_GNNVANSUMVSAKMGMDFRUFFU UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAKFGFELVRVACPDELLRPKEDIVD UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAKFGFELVRVACPDELLRPKEDIVA UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAKFGFELVRVACPD UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAAKFGFELVRVACPD UNIREf90_UP10003B35AC GD_GNNVANSUMFAAAAKFGFELLSUMFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	UniRef90_G9EDZ5	GDAANNMGDSLLI GGAKMGMDVRLCAACWPSEALQKEAQS
UniRef90_H8GII4 UniRef90_E7NY86 UniRef90_E7NY86 UniRef90_E0MM40 UniRef90_E0MM40 UniRef90_A0A023X6C3 UniRef90_Q2BRE4 GD_LKYGRAVHSLVDAMSHFAP_EFYF[LSPRHLRLPKKFRD] UniRef90_Q2BRE4 GD_LKYGRAVHSLALACAQTG_AELT[AHPEGHAPDESV]MF UniRef90_UP10004776469 UniRef90_E4ZRS5 GD_GNNMCNSY[NAAAMCDF_ELR]ACPEGFNPSSDLIN UniRef90_Q16VN4 UniRef90_Q16VN4 UniRef90_UP10003B358AC UniRef90_UP10003B358AC UniRef90_Q2BC1 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_UP10003B358AC UniRef90_UP10003B358AC UniRef90_Q1GZG8 UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B358AC UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B358AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UniRef90_UP10003B35AC GD_GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD UNIREf90_UP10003B35AC GD_GNNVAASWMHAAAKFGFELVRVACPDELRPKEDIVD UNIREf90_UP10003B35AC GD_GNNVAASWMHAAAKFGFELVRVIAPKEDIVD UNIREf90_UP10003B35AC GD_GNNVAASSUMVVSAKMGMDVRIAPKEDIVD UNIREf90_UP10003B35AC GD_GNNVANSUMVSAKMGMDFRUFFU UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAKFGFELVRVACPDELLRPKEDIVD UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAKFGFELVRVACPDELLRPKEDIVA UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAKFGFELVRVACPD UNIREf90_UP10003B35AC GD_GNNVANSUMFANSUMFAAAAKFGFELVRVACPD UNIREf90_UP10003B35AC GD_GNNVANSUMFAAAAKFGFELLSUMFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		GDLKEGRTVHSLINALTRYEGINELEVSPKELEVPDYITE
UniRef90_K2C3M3 UniRef90_E0MM40 UniRef90_A0A023X6C3 UniRef90_Q2BRE4 UniRef90_UPI0004776469 UniRef90_UPI0004776469 UniRef90_UPI0003B358AC UniRef90_UPI0004776469 UNIVALA	UniRef90_H8GII4	G D L H S R V A R S E L T A L N T L G A A E V R V L A P K T L L P A Y V E T L
UniRef90_E0MM40 UniRef90_A0A023X6C3 UniRef90_Q2BRE4 UniRef90_UPl0004776469 UniRef90_UPl0004776469 UniRef90_UPl0004776469 UniRef90_UPl0004776469 UniRef90_UPl0003B358AC UniRef90_UPl0003	UniRef90_E7NY86 UniRef90_K2C3M3	CDII IK V C P A IVI <mark>H</mark> S II V ID A M S H E A P
UniRef90_E4ZRS5 UniRef90_Q16VN4 UniRef90_V5S9X7 UniRef90_UP10003B358AC UniRef90_Q92BC1 UniRef90_Q16ZG8 UniRef90_R5TE21 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U15X8X8 UniRef90_U2460 UniRef90_U15X8X8 UniRef90_U2460 UniRef90_U15X8X8 UniRef90_U15X8 UNIX U15X8 UNIX U15X8 UNIX U15X8 U15X	UniRef90_E0MM40	GDG NNVLHSMLEASARFG FRLRAATPAKHGPMERYVN
UniRef90_E4ZRS5 UniRef90_Q16VN4 UniRef90_V5S9X7 UniRef90_UP10003B358AC UniRef90_Q92BC1 UniRef90_Q16ZG8 UniRef90_R5TE21 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U2460 UniRef90_U15X8X8 UniRef90_U2460 UniRef90_U15X8X8 UniRef90_U2460 UniRef90_U15X8X8 UniRef90_U15X8 UNIX U15X8 UNIX U15X8 UNIX U15X8 U15X	UniRef90_Q2BRE4	GDLLHSRVARSQLHALRTLGVNEIRVIAPNTLLPRNIETL
UniRef90_U16VN4 UniRef90_U76S9X7 UniRef90_UP10003B358AC UniRef90_Q92BC1 UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_U2V460 UniRef	UniRef90_UPI0004776469	GDGNNMCNSYINAAAMCDF ELRIACPEGFNPSSDLIN
UniRef90_V5S9X7 G D G N N V A A S W M H A A A K F G F E L R V A C P D E L R P K E D I V D UniRef90_UPI0003B358AC G D A A N M M A N S Y L L A G A M V G L D I R L A G P E G Y L P Q E H I I T T UniRef90_Q1GZG8 UniRef90_Q1GZG8 UniRef90_R5TE21 G D A R N N V G N S L M V V S A K M G I N F T V C A P S S L W P S Q E L V N UniRef90_U2V460 UniRef90_U2V460 G D G N N M T N S Y M Y G C A K T G M T F V A A T P A D Y R P D K Q A V E UniRef90_L1N5V6 UniRef90_L1N5V6 G D U L H S R V A R S E I V A P R H G M D F I I A V P K G Y E P N E E I W K UniRef90_L1N5V6 G D U L H S R V A R S D I Q G M R K M G M D F I I A V P K G Y E P N E E I W K UniRef90_F454Q8 UniRef90_F454Q8 G D L K N G R T V H S L V K I L S L Y Q V N I N F V S P P S L N M P D S V K S UniRef90_B2V8A7 G D L K N G R T V H S L V K I L S L Y Q V N I N F V S P P S L N M P D S V K S UniRef90_R6C7I/Z	UniRef90_Q16VN4	- (3 D) K (3 R V S A R
UniRef90_Q12G2G8 UniRef90_Q1GZG8 UniRef90_Q16ZG8 UniRef90_U2V460 UNIRef90_U2V4	UniRef90_V5S9X7	GD GNNVAASWMHAAAKFGFELRVACPDELRPKEDIVD
UniRef90_Q1GZG8 UniRef90_R5TE21 UniRef90_R5TE21 GDARNNVGNSLMVVSAK MGINFTVCAPSSLWPSQELVNU UniRef90_U2V460 UniRef90_U2V460 UniRef90_L1N5V6 UniRef90_L1N5V6 UniRef90_IOFDT5 GDGRNNMANSLMEGCSIMGMDFRIFAPTELFPDPELVA UniRef90_F4\$4Q8 UniRef90_B2V8A7 GDUKNGRTVHSLVKILSLY QVNINFVSPPSLNMPDSVKS UniRef90_B2V8A7 GDKNMANTLLLACALMGMDLSVATPPNYESVD	UniRef90_Q92BC1	GDGNNIVI <mark>CH</mark> SILLIAGAMIVIGILIDILIRILIAMPKGYFIVIDFTILLIATFN
UniRef90_U2V460	UniRef90_Q1GZG8	GDVLHSRVARSEI HALLTTLLGVPEVRVI APKTLLPQHVEK
UniRef90_L1N5V6 GDVLHSRVARSDIQGMRKMGMDVHIAGPRPLLPRFLHEE UniRef90_I0FDT5 GDGRNNMANSLMEGCSIMGMDFRLFAPTELFPDPELVA UniRef90_F4S4Q8 GDLKNGRTVHSLVKILSLYQVNINFVSPPSLNMPDSVKS UniRef90_B2V8A7 GD GNNMANTLLLACALMGMDLSVATPPNYESVD UniRef90_R6C7U7 GDLKNGRTVHSLLKAMTCYKGSKFVLISTPDLALPAYLKD	UniRef90_U2V460	GDG NNMTNSYMYGCAKTG MTFVAATPADYRPDKQAVE
UNIKE190 KNC/U/ GIDILIK NIGERTIVIE SILTIK A WIT <mark>C</mark> YK G SKEVITISTED ULIAH IP A YILIK D	UniRef90_I0A0A1	GDI WNVAHSLIVEAPRHG MDFIIAVPKGYEPNEELWK
UNIKE190 KNC/U/ GIDILIK NIGERTIVIE SILTIK A WIT <mark>C</mark> YK G SKEVITISTED ULIAH IP A YILIK D	UniRef90_I0FDT5	GDGRNNM ANSLMEGCSIMGMDFRLFAPTELFPDPELVA
UNIKE190 KNC/U/ GIDILIK NIGERTIVIE SILTIK A WIT <mark>C</mark> YK G SKEVITISTED ULIAH IP A YILIK D	UniRef90_F4S4Q8 UniRef90_B2V8A7	GDLKNGRTVHSLVKILSLY QVNINFVSPPSLNMPDSVKS GD GNNMANTI I ACAIMGMDUSVATPPNVEPNVESVD
UNIKET90_C1DD77 GDARNNMGHSILMVLGCLLGMDVRI GGPKDLSPDPVKQCQE	UniRef90_R6C7U7	- (3 1) K (3 K V
UNIKEMU DOTETO GULLETO KIVIA KONILIYA WINKII IGO EIVI VI <mark>E</mark> GPPI II I IPPVII IE SILIN	UniRef90_C1DD77 UniRef90_B5YFH6	GDARNNMGHSLIMVI GCLL GMDIVIRII GGPKDL SPDPIVIK QCQE GDI FHSRIVARSNI YAWNKI GSEIVI VICGPPTII I PPVI I ESI NI
UniRef90_UPI000368E814 GDLVHSRVARSDLHALSTLGVPELRAVGPKTLVPS	UniRef90_UPI000368E814	GDIVHSRVARSDIHALSTLGVPELRAVGPKTLVPS
UNIRE190_V6MAY4 GD GNN <u>V</u> ANS <u>LVL</u> AA VL <u>L</u> GLD <u>MR V</u> A_IPVJGYEMDSA IVQ	UniRef90_V6MAY4 UniRef90_UPI00035D1BB8	GD GNNVANSLVLAAVLLGLDMRVATPVGYEMDSAIVQ GDG NNMCHSYMYAAHIID FFIVAACPFGYDPFASVIF
UniRef90_F9ZRT5 GDGSNNMARS WMEAADLLDFELRIGAPRAFWPSAELRA	UniRef90_F9ZRT5	GDGSNNMARS WMEAADLLDFELRIGAPRAFWPSAELRA
UNIRCIDO_AUAU31MDN9 G D L L H S R V A R S N M E A L R L L G C P D II R I L A P R T L L J P V G I E Q Y UNIRCIDO B1VH32 G D G A N N M A N S Y M II G F A T A G I D II T I I A P F G F O P F A F F V F	UniRef90_A0A031MDN9 UniRef90_B1VH32	G D G A N N M A N S Y M I G F A T A G I D I T I I A P R T L L I P V G I E Q Y
UniRef90_E0XYF5 G D LANGR T VR S L C Y L LAKY D N P N I T F VA P E V VR M R D D I K E	UniRef90_E0XYF5	G D LANGRT VRSLCYL LAKYDN PNI IT FVAPEVVŘMRDDI KE

```
UniRef90_R6FHY1
UniRef90_UPI000465CA6D
UniRef90_UPI0004672001
UniRef90_UPI0004672001
UniRef90_U7M0J1
UniRef90_A3DL27
UniRef90_D7JEK4
UniRef90_Q0W2V3
UniRef90_B8GP66
UniRef90_B4TATU5
UniRef90_A1ATU5
UniRef90_A6LW74
UniRef90_UPI00036E7A00
UniRef90_D5WXZ9
 UniRef90_D5WXZ9
UniRef90_E2CAY1
UniRef90_UPI00034ADF99
UniRef90_B5EME4
UniRef90_D5U0D8
UniRef90_C5FKA7
UniRef90_D5MHR1
UniRef90_U1H2G0
UniRef90_U1H2G0
UniRef90_U7H2G0
UniRef90_G3BF15
UniRef90_F4CLF9
UniRef90_UP10003595D7D
UniRef90_J5U4P4
UniRef90_D7EB01
UniRef90_F8E558
UniRef90_G4TJQ3
UniRef90_I4W801
UniRef90_E6JYB2
UniRef90_E6JYB2
UniRef90_UP100038093DB
UniRef90_UP100037133FF
UniRef90_UP100037133FF
UniRef90_UP10003458327
UniRef90_UP10003458327
UniRef90_UP10003458327
UniRef90_UP10003458327
UniRef90_UP10003458327
UniRef90_UP10003458327
UniRef90_UP10003458327
UniRef90_K2BMJ4
UniRef90_UPI000364211C
UniRef90_I0YUH0
UniRef90_R7N2B0
UniRef90_R6CPZ8
UniRef90_T0N0K7
UniRef90_H1BLD0
UniRef90_UPI00037F3590
 UniRef90_B4W2Y0
UniRef90_UPI00047C5BAE
UniRef90_E8N9I7
UniRef90_X1FYE2
UniRef90_D7A9Q2
UniRef90_D5BV08
UniRef90_G8S2R8
UniRef90_B1QZ96
UniRef90_K9SR86
UniRef90_E3GWW5
UniRef90_C9S7J6
UniRef90_D6THJ1
UniRef90_D6THJ1
UniRef90_A7C313
UniRef90_G9EDZ5
UniRef90_UPI00038214C1
UniRef90_UPI00047DFF51
UniRef90_H8GII4
UniRef90_E7NY86
UniRef90_E0MM40
UniRef90_E0MM40
UniRef90_Q2BRE4
UniRef90_UPI0004776469
UniRef90_UPI0004776469
UniRef90_UPI0004776469
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_Q92BC1
UniRef90_Q1GZG8
UniRef90_R5TE21
UniRef90_U2V460
UniRef90_I0A0A1
UniRef90_L1N5V6
UniRef90_I0FDT5
UniRef90_F4S4Q8
UniRef90_B2V8A7
UniRef90_R6C7U7
 UniRef90_C1DD77
UniRef90_B5YFH6
 UniRef90_UPI000368E814
UniRef90_V6MAY4
UniRef90_UPI00035D1BB8
UniRef90_F9ZRT5
UniRef90_A0A031MDN9
UniRef90_B1VH32
```

UniRef90_E0XYF5

UniRef90_R6FHY1	280 280 280 280 280 280 280 280 280 280
UniRef90_UPI000465CA6D UniRef90_K9HQA8 UniRef90_UPI0004672001	LRLRDTYI LDADKMRLAKPDMAVLHPLPRVNEI AVEVDDD HNIFRPYQVNGALMAKAKADALFMHCLPAHEEVTTEVIDG VEIFAGYQI NDALLAQAAPGAKVLHCLPRGEEI TDAVMEG RTPFLPYQVSEDVMAKAKQDAI FLHCLPRGNEVAAEVIDG
UniRef90_U7M0J1 UniRef90_A3DL27 UniRef90_D7JEK4	RTPFLPYQVSEDVMAKAKQDAIIFLHCLPRGNEVAAEVIDGIKDLEPYRVTVELMKHAKSDAVFMHCLPRGQEVVDEVIDGDRLKDSFILDMPKLRHAKDDLIILHPLPRVNEIAYEVDAH
UniRef90_Q0W2V3 UniRef90_B8GP66 UniRef90_B6YRC6	QRFADDYQINMELVGLAKKDCLVMHCLPRGEEITDDAIRS PSEHEFFQLYQERLALAHPDCIVMHPGPRGVEIDSRVADG EKVKNVYVLSNDMLADSKDNLRILHPLPRVGEITSDVDTN
UniRef90_A1ATU5 UniRef90_A6LW74 UniRef90_UPI00036E7A00	E Q A F G G F C L D D A L A G L A H P D H I V L H C L P R G E E I S D S V I E G L K L L S P Y Q V N K D V M N N A N E N A I F M H C L P A Y H D V T D E V F E G E K V F S G F K V D E R V M A E A K S D A L F L H C L P R G E E V S T E V L D G
UniRef90_D5WXZ9 UniRef90_E2CAY1 UniRef90_UPI00034ADF99	ERAYGRYVLDPSLLGRMRADAVILHPLPRAGEIDPAVDAD HNLLGAYQVNNRLMKEAKADSLFMHCLPRGEEVTSEVMDG QRLFQPYQINQELVNLADDSAIILHCLPREKEITTEVMEG
UniRef90_B5EME4 UniRef90_D5U0D8 UniRef90_C5FKA7	ARKAAPFQVNATLMAAAAPDALFMHCLPRGEEVSAEVIDG IKDLEPYRVTVELMSKAKSDAIFMHCLPRGEEVVNEVIDG ERLKNSFVIDNAIMKHAKSQMVVMHPLPRNAEIDEEVDFD
UniRef90_D5MHR1 UniRef90_U1H2G0 UniRef90_G3BFI5	R H D F R G F Q V N A A L V R L A K P D V L V M H C L P R G E E I T D E V L D G H N V L Q P Y Q V N A K L M S L A K P D A L F M H C L P R G E E V T D E V I D G N R L K D V Y L V D N K I L S H A K Q H M C V M H P L P R T N E I R E E V D F D
UniRef90_UPI00036A3C36 UniRef90_F4CLF9 UniRef90_UPI0003595D7D	TAPFRAMQLNADLVARGAADAIVLHCLPRGDEITDDVIDG EACNKNLVLTPELMTLAKKKMVVMHPLPRVFEISPSIDTD
UniRef90_J5U4P4 UniRef90_D7EB01 UniRef90_F8E558	QAAFANYQVNSEVMSVAKKDAIFLHCLPRGEEVTAEVIDG TAPFRAMQLNADLVARGAADAIVLHCLPRGDEITDDVIDG EACNKNLVLTPELMTLAKKKMVVMHPLPRVFEISPSIDTD IRLKDSYILDLEKLETAKKDLTIMHPLPRVNEISVEVDDD QRVSTSLQVTNELLKNANPDLKIMHPLPRVNEIDSGVDFT KEKFADFQVNGKLMQSTGKNTIFMHCLPRGEEVTEDVFES
UniRef90_G4TJQ3 UniRef90_I4W801 UniRef90_R5HFH3	WQAVASYVVNHAVLARAKPDMIVMHPLPRVNEIDPEVDDA PDEAAYFRQYCKRLARAAKGCLVMHPGPRGIEIASDVADG VRLKDSYILTPDKLRTAKWDLAILHPLPRVNEISLAIDDD
UniRef90_E6JYB2 UniRef90_B9XEN2 UniRef90_UPI00038093DB	LRLRDTYILDEDKMAFARKDMAVLHPLPRVNEI AFNLDED PSLGEYFGLNKKRLAITKPDALIMHPGPRGVEI DSEI ADC KEI FKNYQI NKELLQTADQRAI VLHCLPRGEEI TEDVMED
UniRef90_W0FJD3 UniRef90_UPI00037133FF UniRef90_E8XVP0	VATEGAYRVTPELMGQAADDAIFLHCLPREYEVAPDVIDG LSLMTPYQVNAALNATGNPDVKFMHCLPAFHNETDDVFES
UniRef90_UPI0003458327 UniRef90_K2BMJ4 UniRef90_UPI000364211C	LKYKGVYVVGRLQVADCKKKMIILHPLPRVDELLPEVDSD HNVFQPYQVNADLMKKANGNAIFMHCLPRGEEVTDEVMDG
UniRef90_I0YUH0 UniRef90_R7N2B0 UniRef90_R6CPZ8	I R S L S P Y Q V N R A V M E N A G T Q A I F M H C L P A F H D V T D E V F E S L R L K D C Y I L T P E K L A S A K S D M Y I L H P L P R V N E I S V A V D K D
UniRef90_T0N0K7 UniRef90_H1BLD0 UniRef90_UPI00037F3590	KEIFKNYQINKELLQTADQRAIVLHCLPRGEEITEDVMED LRLRDSYILTPEKMKKARADLSVMHPLPRVNEISVAVDDD VATFGAYRVTPELMGQAADDAIFLHCLPREYEVAPDVIDG LSLMTPYQVNAALNATGNPDVKFMHCLPAFHNETDDVFES EAPFRPYIVDEALMELAHPEAIVLHCLPRGEEVTDBVDG LKYKGVYVVGRLQVADCKKKKMIILHPLPRVDELLPEVDSD HNVFQPYQVNADLMKKANGNAIFMHCLPRGEEVTDEVMDG KKKFQGFQVNEEMMAAAGPDALFLHCLPRGEEVTDEVMDG KKKFQGFQVNREWMAAAGPDALFLHCLPRFDEUTDEVFES LRLKDCYILTPEKLASAKSDMYILHPLPRFDEITPDVDET KRRQGVYQINDAVMAQAKKDAMYILHPLPRLDEITPDVDET KRRQGVYQINDAVMGLAKPDALFHCLPRGEEVTEEVIDG IPVFLPYQVNEQLLSLAAKDAIVLHCLPRGEEVTEEVIDG
UniRef90_B4W2Y0 UniRef90_UPI00047C5BAE UniRef90_E8N9I7	I P V F L P Y Q V N E Q L L S L A A K D A I V L H C L P R G E E I T D E V M E G L E A F E G Y Q V N Q T L L K L A A D D V I F L H C L P R G E E V T A E V I D G I R D L G G F K V T S E L M T R A D D D A I F L H C L P R G Y E V D A E V I D G
	KRRLAFYQVDEKLLSMARGDALFMHPLPRGYEVDAEVIDG KRRLAFYQVDEKLLSMARGDALFMHPLPHGEEISEGLLDN PSVKEYFHFWEAKLRYAKPDALVMHPGPMGVEIDSAVADG LQDFADYQINSKLMALAQEDALFMHCLPRGEEVTAEVIDG LTPFRPYQINSGLLAVAAPDAIVLHCLPRGEEVTAEVIDG IKHFEGFQVNNELLKNANDDVLVLHCLPRGEEITSEVLEA IPLFQPFQLNSELMALAHPKAIVLHCLPRGEEITVEVLEG LKAFKKYQVNKKLMSHAKEDAIFMHCLPRGEEITVEVLEG LKAFKKYQVNKKLMSHAKEDAIFMHCLPRGEEITAQEVDTD YNEMRFTVTPALLAEYASQEMILMPLPRNEEIAQEVDTD YNEMRFTVTPALLAEYASQEMILMPLPRIGTIDTEVDKD
UniRef90_G8S2R8 UniRef90_B1QZ96 UniRef90_K9SR86	I KHFEGFQVNNELLKNANDDVLVLHCLPRGBEITSEVLEA I PLFQPFQLNSELMALAHPKAIVLHCLPRGEELTVEVLEG
UniRef90_E3GWW5 UniRef90_C9S7J6 UniRef90_D6THJ1	ERVKNSYRIDNKTLRSAKKDMCILHPLPRREEIAQEVDTD YNEMRFTVTPALLAEYASQEMILMDPLPRIGTIDTEVDKD
UniRef90_A7C313 UniRef90_G9EDZ5 UniRef90_UPI00038214C1	TKITOPYOVNAALMKKTNPRTREMHCIPAEHNTTDDVEES
UniRef90_UPI00047DFF51 UniRef90_H8GII4 UniRef90_E7NY86 UniRef90_K2C3M3	PSESEYFKCFGDKLKYAKPDAIVMHPGPRGVELDSKVADG
UniRef90_E0MM40 UniRef90_A0A023X6C3 UniRef90_Q2BRE4	HNTFAPYQVNADLMAKAAPDALFMHCLPRGEEVTDEVMDG KREFAPYQVNGELMSLAADDAVFLHCLPRGEEVTDEVMDG
UniRef90_UPI0004776469 UniRef90_E4ZRS5 UniRef90_Q16VN4	E R A F A D Y Q V N A E L MS Y A A S D A L F M H C L P R G K E V S A E L L D A E A V K D S F V I D N K I L K G A K A N M I V M H P L P R N N E I H E E V D F D K A S C G R V I T P O I M T R A K R R M I V M H P L P R V F E I S K E L D I D
UniRef90_V5S9X7 UniRef90_UPI0003B358AC UniRef90_Q92BC1	KKLLKPYMVDEALMAKAAKGAIFMHCLPRGNEVTESVLEG MKLFGDYQVNAQSLEVAAEDAVVLHCLPRGMEITAEVLDG ADEGEKYQVNAEIASIAKPDYHEIHCLPAHEEVTAEILDG
UniRef90_Q1GZG8 UniRef90_R5TE21 UniRef90_U2V460	PTPREYFGLNAKRFALAKPDALILHPGPMNREIAPDVAYS IRLRNFYILDEAKMTLAKEKMHILHPLPRVNEIAVEIDKD PSESEYFKCFGDKLKYAKPDAIVMHPGPRGVEIDSKVAADG IKLEPYRVDKKVMAMAHEDAIFLHCLPRGNEIDCGVDVT HNTFAPYQVNADLMAKAAPDALFMHCLPRGEEVTDEVMDG KREFAPYQVNABLMSLAADDAVFLHCLPRGEEVTDEVMDG KREFAPYQVNAELMSLAADDAVFLHCLPRGKEVSAELLDAG ERAFADYQVNAELMSYAASDALFMHCLPRGNEVSAELLDAG EAVKDSFVIDNKLLKGAKANMIVMHPLPRNNEIHEEVDFD KASCGRLVLTPQIMTRAKRMIVMHPLPRVFEISKEIDID KKLLKPYMVDEALMAKAAKRMIVMHPLPRRGNEVTESVLEG MKLLFGDYQVNAELMSKAAKRMIVMHPLPRRGNEVTESVLEG MKLLKPYMVDEALMAKAAKRAMIVMHPLPRGPRGNEVTESVLEG MKLLKPYMVDEALMAKAAKRAMIVMHPLPRGPRGNEVTESVLEG MKLLFGDYQVNAELASIAKPDAIVHHPGPRGNEVTESVLEG MKLFGDYQVNAELASIAKPDAIVHPGPRAGNEVTESVLEG PSAQEYFKCYPEKLAFAKPDAIVMHPGPRAGNEVTESVLEG PSAQEYFKCYPEKLAFAKPDAIVMHPGPRAGNEVTESVLEG PSAQEYFKCYPEKLAFAKPDAIVMHPGPRAGNEMTEEVLDG PSAQEYFKCYPEKLAFAKPDAIVMHPGPRAGNEMTEEVLDG PSAQEYFKCYPEKLAFAKPDAIVMHPGPRAGNEMTEEVLES RKIFAPYQVNSELMQLAKKDAIFMHCLPRGNEMTEEVLEAK
UniRef90_I0A0A1 UniRef90_L1N5V6 UniRef90_I0FDT5	KEDFKPFTVTPSHMELAKPDVIFMHCLPRGNEMTEEVIEG PSTREYYGLNDERLALANKDALVLHPGPMGWEISESVAYG IKLLRPYQVNSELMQIAKKDAIFMHCLPAFHDVTHDVFFG
UniRef90_F4S4Q8 UniRef90_B2V8A7 UniRef90_R6C7U7	IKL LRPY QVN S EL MQL AKKDAL FMHCLPAFHDVTHDVFEGEAVKNAYVVNNDLLSKAKKHMI VMHPLPRNTEI DPEVDFDKDVFKPFTVNKDLVLLAKPNAI VMHCLPKGEEI TEDVFEQLKQKGNYILDKDKMSRAKESMI VLHPLPRVDEI ALEVDDDIKLLTPFRVDSKLMAATNPKVKFMHCLPAFHNVTDEVFEGPYHMLYGVNSERIEKAKKDVLVMHPGPMGVEI SSEVADS
UniRef90_C1DD77 UniRef90_B5YFH6 UniRef90_UPI000368E814	I K L T P F R V D S K MA A T N P K V K F M H C L P A F H N V T D E V F E G P E Y H M L Y G V N S E R I E K A K K D V L V M H P G P M G V E I S S E V A D S P S A G E F F K N F P E K L A WA A P D A I V M H P G P R G V E I D S A V A D G
UniRef90_V6MAY4 UniRef90_UPl00035D1BB8 UniRef90_F9ZRT5	P S A G E F F K N F P E K L A WA A P D A I V M H P G P R G V E I D S A V A D G L K A F A D Y Q V N E K L V A H A D H D Y L F L H C L P R G E E V T A G V I D G R Q A F A G F F V D Q A L M D R A Q P D A L F M H C L P A H E E V A T E V L E G K A T F G P F Q V N A E L M A K A A P G A V F M H C L P R G E E V T A E V L E G P S E G E F Y R Q Y S D S L A L A K P D A L V M H P G P R G V E I E S A V A D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V I D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V L D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V L D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V L D G R S A L R A Y Q V N E E L M A E A K E D A I F L H C L P R G N E V T A E V L D G R A Y A Y Q V N E E L M A Y A P C A Y T A E V L D G R A Y T A T A Y Q V N T A E V L D G R A Y T A T A Y Q V N T A E V L D G T A T A T A T A T A T A T A T A T A T
UniRef90_A0A031MDN9 UniRef90_B1VH32 UniRef90_E0XYF5	PSEGEFYRQYSDSLALAKPDALVMHPGPRGVEI ESAVADG RSALRAYQVNEELMAEAKEDAI FLHCLPRGNEVTAEVIDG EKARGRYVIDRSI LERMRDDAVVMHPLPRDELVADEVDDD

```
UniRef90_R6FHY1
UniRef90_UPI000465CA6D
UniRef90_UPI0004672001
UniRef90_UPI0004672001
UniRef90_U7M0J1
UniRef90_A3DL27
UniRef90_A3DL27
UniRef90_Q0W2V3
UniRef90_B8GP66
UniRef90_B6YRC6
UniRef90_A1ATU5
UniRef90_A1ATU5
UniRef90_UPI00036E7A00
UniRef90_D5WXZ9
UniRef90_UPI00036E7A00
UniRef90_D5WXZ9
UniRef90_E2CAY1
UniRef90_UPI00034ADF99
UniRef90_B5EME4
UniRef90_D5U0D8
UniRef90_C5FKA7
 UniRef90_U1H2G0
UniRef90_UTH2G0
UniRef90_UTH2G0
UniRef90_G3BF15
UniRef90_UPI00036A3C36
UniRef90_UPI0003595D7D
UniRef90_UPI0003595D7D
UniRef90_D7EB01
UniRef90_D7EB01
UniRef90_F8E558
UniRef90_G4TJQ3
UniRef90_I4W801
UniRef90_E6JYB2
UniRef90_E6JYB2
UniRef90_UPI00038093DB
UniRef90_W0FJD3
UniRef90_UPI00037133FF
UniRef90_UPI0003458327
UniRef90_UPI0003458327
UniRef90_UPI0003458327
UniRef90_UPI0003458327
UniRef90_UP10003458327
UniRef90_K2BMJ4
UniRef90_UP1000364211C
UniRef90_I0YUH0
UniRef90_R7N2B0
UniRef90_R6CPZ8
UniRef90_T0N0K7
UniRef90_H1BLD0
UniRef90_UP100037F3590
UniRef90_UP100037F3590
UniRef90_DF10003/F3590
UniRef90_B4W2Y0
UniRef90_UP100047C5BAE
UniRef90_E8N917
UniRef90_X1FYE2
UniRef90_D7A9Q2
UniRef90_D5BV08
UniRef90_B1QZ96
UniRef90_B1QZ96
UniRef90_B288
UniRef90_B1QZ96
UniRef90_B1QZ96
UniRef90_E3GWW5
UniRef90_E3GWW5
UniRef90_D6THJ1
UniRef90_D6THJ1
UniRef90_G9EDZ5
UniRef90_UPI00038214C1
UniRef90_UPI00047DFF51
UniRef90_H8GII4
UniRef90_E7NY86
UniRef90_E0MM40
UniRef90_E0MM40
UniRef90_E0MM40
UniRef90_Q2BRE4
UniRef90_UPI0004776469
UniRef90_UPI0004776469
UniRef90_UPI0004776469
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_UPI0003B358AC
UniRef90_Q92BC1
UniRef90_Q1GZG8
UniRef90_R5TE21
UniRef90_U2V460
UniRef90_I0A0A1
UniRef90_L1N5V6
UniRef90_I0FDT5
UniRef90_F4S4Q8
UniRef90_B2V8A7
UniRef90_R6C7U7
 UniRef90_C1DD77
UniRef90_B5YFH6
UniRef90_B5YFH6
UniRef90_UPI000368E814
UniRef90_V6MAY4
UniRef90_UPI00035D1BB8
UniRef90_F9ZRT5
UniRef90_A0A031MDN9
UniRef90_B1VH32
```

UniRef90_E0XYF5

	1 10 20 30 40
UniRef90_M7NXB4	1 10 20 30 40 A CALLAN A R H F L T L K D L S A S E L K Q L T H R A L E L K A G E R Y E P L K
UniRef90_W1F6F7	NI S G R H F I TI I I D Y T P F F I R Y I I DI S R F F K A G T P H R Y I F
UniRef90_B4D106	APÄWTHKDLVGLEDLTAAEIITHVLDTASAFKELKKVPALR
UniRef90_A0P6H5	MTUKHFLKFNDLSASEILESII FDKAKKYKAYDKYWPLE
UniRef90_Q93514 UniRef90_A3CW66	HI I ISI R D F F R S DI D YII I D R A Q F F D T G K Y R P MI D
UniRef90_D3DCP4	MTAR <mark>H</mark> FL <u>LDT</u> DLTSSEQAALLDLADRLKATRRPRPLE
UniRef90_A6DBF0	RHFLSLIDYTKEEI KEI I DLAFQI KKETKKPYLK
UniRef90_U86132	I K G O D F I GILA N F S A N DI R DI L OI A G DI K S G K T T L T C
UniRef90_UPI000382A2A5	KHLLTI E GLPRALLDQI LDTA E QFREVKKVPLLR
UniRef90_A0A022R3E7	K D F L NI R D F D K D T I L L K I L D R A K D V K A L I K S G P F K
UniRef90_A5UVX9 UniRef90_W7CZJ2	K G K D MILISIL LIE WS N E EITE EIL VIQUALITII IK T N P Y S H TILIS
UniRef90_Q65TN0	F N L K N R H L L S L V N H S P R E I K Y L L D L A R D L K A G T E Q P R L K
UniRef90_B0UIR6	F P H R H L L IGII E GL IS PL DII VIA L L D R A D E AIVE E K K R A T L IR
UniRef90_K5110K9 UniRef90_UPI00036ABA0F	RHFLRDDDVT A A E Q S T I L D L A A K L K R D R A R P L E G
UniRef90_UPI00047812AD	P F P Q R H L L G V E D L A P E A T L Q L L D R A D G Y E A R K K R D I L K
UniRef90_I4C6S3	N F K G K D I T IS M N D L J I R A E II D E II L G K V K T V R E H P K K T L C S
UniRef90_C5ZX14	RHFLTLADESKQEILEILDLAKDLKAGKYSNLLE
UniRef90_A7C4T9	MAPRHELT LDLSQDELQAL LARALELKAMQYAEPEK
UniRef90_I1JJC4 UniRef90_UPI0004204CB3	T P K H F I DI T OI S G D DI R AI L A R A K DI K S K P G V G P I A
UniRef90_G2TC28	T P R H F L E L S D F D A P A L R A M L D R G L A F K A E R R S A P L A
UniRef90_C7MN79	T S L S G R D F L K L L D F S T S E I K Y L L K L S R E F K N G T P H R Y L E
UniRef90_A6THH6	SAFYQKH FLKLLDFT PAEIITAL LIELIA AKILIKA DKKN OKILIA
UniRef90_UPI000348BE9A	RHLLSTADLGHDEAVLILDTARELRSVKKLPTLR
UniRef90_S5TJ73	K HILLISII IA DILIS R D EII LIGILIM D E A D R F R EII IK KIL P T L IR
UniRef90_U2TED8	1
UniRef90_Q8FT39	KHELSIADLSRDEI ISLLDEADRFKEVKKEPTLR
UniRef90_UPI000372D3FD	MAILIR H F LIDII WQL E A S E LIRAII LIDDAHAMK SARK GWPLID
UniRef90_UPI0003632EC3	QKGLLGLAELSRGEI EELLSRARDEQPPPRQDTLR
UniRef90_W2EAN3	L K G K S F L A E K D F T E E E L L Y F L D L A E E L K E G L P H R Y L Q
UniRef90_V4JVG2	R H F I T F O D Y S R D F I I T I I K R S H F I K H S I M S R P I F
UniRef90_D7UYU7	Y P K D ML S L <u>le w</u> s k a e i e e l i Q la le m k t n P K H H a l s
UniRef90_E6YG13	RHFTDISLLTPQQARALIDYAKAFKAGESSKPFA
UniRef90_Q23N73 UniRef90_K0KUK9	N P F L R R S V L S V N D F K R S D F H A L F S V A Q E M R R N G V L D L L K
UniRef90_R4YQ36	KHFLTTEGUSKALLTEI LDLADSFRAVKKVPLLR
UniRef90_I4AMP7	SLISVINHILLIGII K DILIT QADII LIHII E EMAKQFKEVIKKIVPSILR
UniRef90_V41B12 UniRef90_UPI0003756A00	WKNRDIVI SI E DE SID DILEV LEKLIT DELEK GHPNEL LK
UniRef90_W7KL08	RHVISSYDFSREEFHKLFELSDELLGGKLKPNVN
UniRef90_UPI000375C182 UniRef90_R9TBR3 UniRef90_UPI0003F6305E	F K H D H L L IS I I E D L IS R L D I I E H I L L D L IA E A F R A G R R P P H L K
UniRef90_UPI0003F6305E	KHLLSIADÜSRDEI VGLMDEADRFREAKKIPTLR RHFLADDDLSPAEQARVLDLAAELKQAPYKPLAG
UniRef90_A1SJJ1	R H F L A D D D L S P A E Q A R V L D L A A E L K Q A P Y K P L A G
UniRef90_UPI0003794487 UniRef90_B2A2U7	A P N Y S H R H L L G I E G L Y P H E I S Y L L D L A D S Y V E T N R R P L L K L Q R K S L L G L K D M E K S E I E S I L D S T E S M K K N K K L P T L K L R N K D I L S V D M F T A Q T L H V L F N C A Q E L K K L I E K K V L R K H F L S I S D M N T T E I M E L L Q E A D T F S R G E Q W K T T E
UniRef90_T1KED0	LRNKDLLSVDMFTAQTLHVLFNCAQELKKLIEKKVLR
UniRef90_UPI000472173B UniRef90_A0RQX6	K H F L S I S D M N T T E I M E L L Q E A D T F S R G E Q W K T T E
UniRef90_C9YG50	KKDLISTKDLSKDDIFSILSLAKDYKAVKKDPLIK RHYLQFDDFSADEYAYLLERAAFIKRKERHHTLV ATRWTRRNVLDLEGWSREEILLLLEQARHMRPIKKVPALR KLKHLLSAQDLSREDIYDFLDLAREFKAVKKSDSLR
UniRef90_E3CYD2	ATRWTRRNVLDLEGWSREEILLLLEQARHMRPIKKVPALR
UniRef90_CoPK33	WRGRDVISARDFGRRDLEELFETARYMEKYSKSRIIR
UniRef90_M0GXS2	HFI DUDDISESELDRVLSRAAAIKAGDDETRLP
UniRef90_R5BV82 UniRef90_UPI0003456DCC	KLKHLLSAQDLSREDIYDFIDLAREFKAVKKSDSLR WRGRDVISARDFGRRDLEELFETARYMEKYSKSRLLR HFIDIDDISESELDRVLSRAAAIKAGDDETRLP KHLIDPTDLTREETDQIVSMAEDIIAHKYQDLMA AFNLRNRSLLNMQDFSPRDIRFLLDLAAELKRAKYAPRLN RHFLTIEGLSRELLTRIMDTAESFQNVKKVPLLR
UniRef90_Q605F1	RHELTEE GUS RELLTRI MOTAESEQNOK KOPLLR
OTHINGISO_AGINGES	
UniRef90_V4X650 UniRef90_R6MT17	MANKNLI DLDAMSKKQLDMLI KKAKKIMENPYRHACD
UniRef90_E4RIW1	SLKRKDFLGLYDASAEEI REI LETAVAMKDVKKVPTLR
UniRef90_D0ZF71 UniRef90_B6JX37	QLINQQHFLIRLLIDFTPQQII AYLLINLAAELKQAKKRPRLR
UniRef90_A6X568	FPHRHLLGIKGLSPLDILCLLDLADQEIAEKKKSVLR
UniRef90_G9MW37	NSFKNSHVLSVKQYTRADLHLLETVAQEMRLGVQRELLR
UniRef90_UPI0002F0D9B5 UniRef90_J3P4H7	SREKNOHVLISVIHDYKRGDI I HHI I ETIVIA OEMRI I GIVIORDIVI I O
UniRef90_UPI0004706DA3	AŬNLKGRSFI KLLDFT PRELRYLLDLSRDLKAGTEQKMME
UniRef90_E2MYP4	RHFLADDDLTPQEQAEVLQLAAELKAAPRRPFEG
UniRef90_X5DS46 UniRef90_E4NB79	A F N L R N R H F L K E L D F T P Q E F R H L V D L A A O L K A G T E O P R II R
UniRef90_Q31I95	KHFLTLQDFSPÄELKQLMLRALELKKTQKŠEPLK
UniRef90_S0FP31 UniRef90_UPI0004792C95	HLLISILIN DLISTEEII QDLLIKILAENIKKKKEGVQHHILLIK
UniRef90_M7TTB8	SPFKNQHVL SVNQFSRQDL HILL FSVAQEMRILGVQRE LLK
UniRef90_Q5KNM2	FSRRHILISVKQFDREDLHALFNVASEMRTAVERDTLR
UniRef90_D3E0Z1 UniRef90_E4TGH2	MANKNIL DLDAMSKELDMLIKKAKKIMENPYRHACD SLKRKDFLGLYDASAEEIREILETAVAMKDVKKVPTLR QLNQQHFLRLLDFTPQQIAYLLNLAAELKQAKKRPRLR SSPFLHKHVLSVRQVSRSDLHLLFNIAHHVRVLVERQLC FPHRHLLGIKGLSPLDILC NSFKNSHVLSVKQYTRADLHLLFTVAQEMRLGVQREILR ATELTGRHLLKELDLTPGEFRSLIALAAELKAGTEQRRLV SRFKNQHVLSVHDYKRGDLHHLFTVAQEMRLGVQRDVLQ AVNLKGRSFIKLLDFTPREIRYLLDLSRDLKAGTEQRRRLV SRFKNQHVLSVHDYKRGDLHHLFTVAQEMRLGVQRDVLQ AVNLKGRSFIKLLDFTPREIRYLLDLSRDLKAGTEQRRRLV SRFKNQHVLSVHDYKRGDLHHLFTVAQEMRLGVQRDVLQ AVNLKGRSFIKLLDFTPREIRYLLDLSRDLKAGTEQPRLR KHLLSLADLDASEITLLLDEADRFREVKKLPTLR AFNLRNRHFLKELDFTPQEFRHLVDLAAQLKAGTEQPRLR KHLLSLADLDASEITLLLDEADRFREVKKHLPTLR AFNLRNRHFLKELDFTPQEFRHLVDLAEDLKKKGVQHHLLK LKGKNFLTLKDFSPEEIMYFLDLAEDLKKKGVQHHLLK FSRRHILSVKQFDREDLHALFSVAQEMRLGVQREILK KKGKNFLTLKDFSPEEIMYFLDLAEDLKKKKKHHRIHE SPFKNQHVLSVNQFSRQDLHLLFSVAQEMRLGVQREILK KKGKNFLTLKDFSPEEIWYFLDLAEDLKKKKKHHRIHE SPFKNQHVLSVNQFSRQDLHLLFSVAQEMRLGVQREILK KKGKRERLRDILKK
UniRef90_UPI0004733CAC	LANKNELSSLOTSLEEFFHI LELAKNEKNKOLDIQLK
UniRef90_K2CXH0	NKDLVSLDQFSSKDI NI LFKKVGLMKKAKKSEILK
UniRef90_A0KQG4	A F NLR N R N F L K L L D F T P R E II Q Y MI D L A L D L K K A K Y R K H L T
UniRef90_Q6YI72	WIIEVO WKIILI EEEI WAI LIDKADI EKKUUKELPG

	50 60 70 80
UniRef90 M7NXB4	50 60 70 80 NK <u>V</u> L A <u>M</u> I FEKSSTRTR V SFE <u>S</u> AMLQFGGGS I FL SPDDTQ
UniRef90_M1F6F7	GKELALI FEKNSTRTRVGFEVAAYDQG ARVTYLGPSGTH
UniRef90_UPI0003722DD5 UniRef90_B4D106	GKNILVLLIFEKTSTRTR <mark>C</mark> SFEVIGGRDILIGM GIVITYILIDPNNSQ
UniRef90_A0P6H5	DRTL VMLFEKASTRTRLSFESGMHQLGGAAIIYLN TRDS
UniRef90_Q935Y4	PKTLGLI FSKSSTRTRVSFSAAIMQMGGQVLDLNP NVT
UniRef90_A3CW66	DKLVALLFFEPSTRTRMSFATAMARLGGRSISV DSVEAS
UniRef90_D3DCP4 UniRef90_A6DBF0	NYOLAMU FEKSSTRTRVSFEVIGUNOU GGNGU FUSSRDUO
UniRef90_O86132	GKNI ALLFEKPSTRTR <mark>C</mark> AFTTA <mark>CI</mark> DLGAHPEYLGKDDIQ
UniRef90_UPI00038102BF	NKILLIGILLIFYKASTRTRUSFTVAMYQLIGGQVIIDILIN PNVTQ
UniRef90_UPI000382A2A5 UniRef90_A0A022R3E7	GKTMAMI FAKPSMRTRVSFETGFHLLIGGHALL YLIGPDDIO
UniRef90_A5UVX9	GKTLALVFEKPSLRTRVAFEAGMTQLGGHGSYLSANDIDM
UniRef90_W7CZJ2 UniRef90_Q65TN0	GQL LIGMI F D K S S T R T R V S F E A G M LIQLIG G Q A II V M S S K E LIQ
UniRef90_Q051N0	GRT QI NL FFEPSTRT QSSFEL A GKRL GA DVMN M SVASSS
UniRef90_R5H6R9	GQTLGMI FQKSSTRTRVSFETGMYQLGGQAL FLSSRDLQ
UniRef90_UPI00036ABA0F UniRef90_UPI00047812AD	PQSVAVIFDKSSIRIRVSFHVGVSELGGSPLIFIIASSQL
UniRef90_I4C6S3	DKVS AML FFEPSTRTRTSFEVAMRNL GGRV GGFY DASYTS
UniRef90_F2U457	GKVLANIFYEPSTRTSCSFAAAMQRLGGSVVSISDVSTS
UniRef90_C5ZX14 UniRef90_A7C4T9	KKILIGMI FEKNSTRIRIVISFETAMIVIQ CGGSALL FILISSNETQ
UniRef90_I1JJC4	GYLMATLFYEPSTRTRLSFESAMKRLGGDVLTTENAREFS
UniRef90_UPI0004204CB3	GKVLAMI FERPSTRTRVSFDVGMRQLGGETVMLTGAE M
UniRef90_G2TC28 UniRef90_C7MN79	GKNI VLLFQKTSTRTRCAFEVGALDLGM GVTYLDPGSSO
UniRef90_UPI0004734361	DKVLGLIFDKSSTRTRVSFQVAMSRLGGTTIDLNP ITS
UniRef90_A6THH6 UniRef90_UPI000348BE9A	GRTVVNIEVEDSTRIR <mark>C</mark> SFEVAAYDQG ARVTYLGPSGSQ
UniRef90_S5TJ73	NK
UniRef90_X1SHN9	GKTVVNLFFEASTRTLASFALAEKRLSADSFNLSSSSSSV
UniRef90_U2TED8 UniRef90_Q8FT39	GRTHETHEVENSTRIRSSEETAGKWMSADVINI SASSS
UniRef90_UPI000372D3FD	GHILAMIFEKSSTRTRTSFDVGIRQLGGTSI VV NSADMQ
UniRef90_C9RB97	GRVVVNLFYEPSTRTRFSFELAAKYLSAETVSVA AATAS
UniRef90_UPI0003632EC3 UniRef90 W2EAN3	GKNII AI I F F K T S T R T R C A F T IV A S T DI I G A H P F Y I I G K N D I I O
UniRef90_V4JVG2	GRSI AMI FEKPSTRTRVSLQVAAYQLGAQPI VLSASELQ
UniRef90_I4C853	G R T G M F E K P S T R T R V S F E V G L Y Q L G G R S I F L S P R D I Q G K I L G L I F D K P S T R T R V S F E A G M Q L G G Q A I M M N G K E L
UniRef90_D7UYU7 UniRef90_E6YG13	GKILLGLIFDKPSTRTRVSFEAGMLQLGGQAIIMMNGKEL GKTLAMIFEKPSTRTRVSFDLGMRQLGGETIIMLTGSE M
Ullikei90_Q23IV/3	GRV L GLL F Q K A S T R T R A S F T A A M A Q C G G S T L D L V P T V M
UniRef90_K0KUK9 UniRef90_R4YQ36	GRS AMI FEKPSTRTRVS QVAAYQL GAQP VL SASEL QGRT GMI FEKPSTRTRVS FEVG YQL GGRS FL SPRD QGRT GKT GMI FEKPSTRTRVS FEAGMLQL GGGRS FL SPRD QGK L GL F QK ASTRTRVS FEAGMLQL GGGRT ML TGSE MGRV GL F QK ASTRTRVS FEAGMRQL GGGST DL VP TVM GRV L F QK ASTRTRAS FEAGMRQL GGGST DL VP TVM GRV L TL F YEPSTRTR SFELAA KRL SAD L NL DL ASSAT DL TL AV VS FEASTRTR SFELAA KRL SAD V VN FEASTRTR SFELAA KRL GAD VN VN MSV GSS SGY L GN VF L GG EYS GKV VS L AFFEPSTRTR SFELAA KRL GAD VV VN FL GS SGK VV SL AFFEPSTRTR SFELAA KRL GAD VV VAMP VAASS GKT L AL FEENSTRT KSFEV GL YQL GG HSV HL N QHES GRT VT TL FYENSTRTR SFETAA GKWMSAD VV NM SSGS SGT TV NM FEASTRTRAS FELAA KRL GAD VV NM SSGS SGT TV TL TT TR SFETAA GKWMSAD VV NM SSGS SGT TV TL TT TR SFETAA GKWMSAD VV NM SSGS SGRT TV TL TV TL TV TL TV TR TR SFETAA GKWMSAD VV NM TV NM SSGS SGRT TR TR TR SFETAA GKWMSAD VV NM SSGS SGRT TV MM TU NM TR TR SFETAA GKWMSAD VV NM TV NM SSGS SGRT TR TR SFETAA GKWMSAD TV NM TV NM TT TT TT TT TT TT TT
UniRef90_I4AMP7	DIT I ANV F F E N S T R T R I S F E L A Q K R L S A D V V N F S A S N S S
UniRef90_V4TB12	GRTQVNLFFEASTRTQSSFELAGKRLGADVMNMSVGSS S
UniRef90_UPI0003756A00 UniRef90 W7KL08	G Y
UniRef90_UPI000375C182	NMTV INL FFENSTRIMSSFEITA AKRL GAD V VAMPVĀASS
UniRef90_R9TBR3	GKTLALIFEKSSTRTRTSFEVGLYQLGGHSVHLN QHES GRTIYTLFYENSTRTRASFETAGKWMSADVINI SASSSS
UniRef90_UPI0003F6305E UniRef90_A1SJJ1	PRT VA MI F DKQT LRT QASFAAGI A ELIGGHPML VDGALAGI
UniRef90_UPI0003794487	GRTQVNMFFEASTRTRASFELAGQRLGADVINMQSSGS S
UniRef90_B2A2U7 UniRef90_T1KED0	RKTI GI YEHEPSERTEHSENAAMVRI GGSI GKEDPSESSO
UniRef90_UPI000472173B	PVFVANLFYEPSTRTKCSFENAERRLGLELLPFENG NS
UniRef90_A0RQX6 UniRef90_C9YG50	GVTV VN A F F E N S T R T R T S F E L A A K R L G A D A I N F S S S T S S
UniRef90_E3CYD2	GKLAVNL FFENSTRTRVSFELAEKMLSADVVNW SAAGS
UniRef90_C8PK33	GKTVINAFFENSTRTRTSFEIJAAKRL GADSVNFT. AADSS
UniRef90_B1Y9R0 UniRef90 M0GXS2	RATMAML FEKPSTRTRIVISFFTGMTOILIGGHAIL FINGPFOILIO
UniRef90_R5BV82	HRKLATLEYEPSTRTRLSFTSAMMELGGNVLGFSDAKS S
UniRef90_UPI0003456DCC UniRef90_Q605F1	GKNII ALIFEKTSTRTR <mark>C</mark> AFEIVAVIHDQGGH VITYII DSAGSQ
UniRef90_Q605F1 UniRef90_A0RUE9	GRTLAMVFQKPSTRTRVSFAAGMFQLIGGEAIIYLPPGD M
UniRef90_V4X650	DATLIGMI FEKPSTRTRUSFETGMTRLIGGHAM FLIGPDDLQ
UniRef90_R6MT17 UniRef90_E4RIW1	GKTVINI FYEPSTRTKESENI AAKRIIQADVIMQIIQKQGQ Q
UniRef90_D0ZF71	GKNI ALIFEKDSTRTRCSFEVAAYDQG AHVTYLGPSGSQ
UniRef90_B6JX37	GKLLCIMFFEPSTRTSSSFDAAMKRLGGKVVAVTASA S
UniRef90_A6X568 UniRef90_G9MW37	GRIVLICTILIFYEPSTRTSASFDAAMORII GGRTII AIISTSSS
UniRef90_UPI0002F0D9B5	GRNI ALI FEKSSTRTR <mark>C</mark> AFEVAASEQGAATTYLDPSA S
UniRef90_J3P4H7 UniRef90_UPI0004706DA3	NRVLCTLFYEPSTRTSASFDAAMQRLGGRTII AIISTSHS
UniRef90_E2MYP4	PQSVAVLFDKTSTRTRFSFDAGIAALIGGNAI VVETG NS
UniRef90_X5DS46	GRTVFTLFYENSTRTRSSFETAGKWMSADVLNL SASSS
UniRef90_E4NB79 UniRef90_Q31I95	OKNII ALI IFAKISIKI K <mark>U</mark> AFEIVIAAHDQG ASTTYILIDPAGSQ NKTII AMII FEKSSTRTRIISFEII GMSOII GGHAII FII ISPRDTO
UniRef90_S0FP31	GRTLGMI FSKSSTRTRVSFEVGMYQLGGYPL FLSSNDDQ
UniRef90_UPI0004792C95	GKNII ALLIFEKTSTRTR <mark>C</mark> SFEVAGHDILIGM GIVITYLLDPKGSQ
UniRef90_M7TTB8 UniRef90_Q5KNM2	GRIVLCT LIFYEPSTRTSTSFEAAMKRCGGEVVIOVINAST S
UniRef90_D3E0Z1	DQKLAMI FQKSSTRTRVSFEVGMYELGGTALFL STNDI
UniRef90_E4TGH2 UniRef90_UPI0004733CAC	PRT VAM FDRA VAM
UniRef90_K2CXH0	GNIVALIFYEPSTRTFSSFSAAIKRLGGETII DILRDILERVIS
UniRef90_A0KQG4	GKNIALIFEKTSTRTR <mark>C</mark> AFEVAAFDQGAQ VSYLGPSGSQ
UniRef90_Q6YI72	KYS V SN L FFEPSIRIKMSFEMAQRK L GL D VL PF ESSFSS

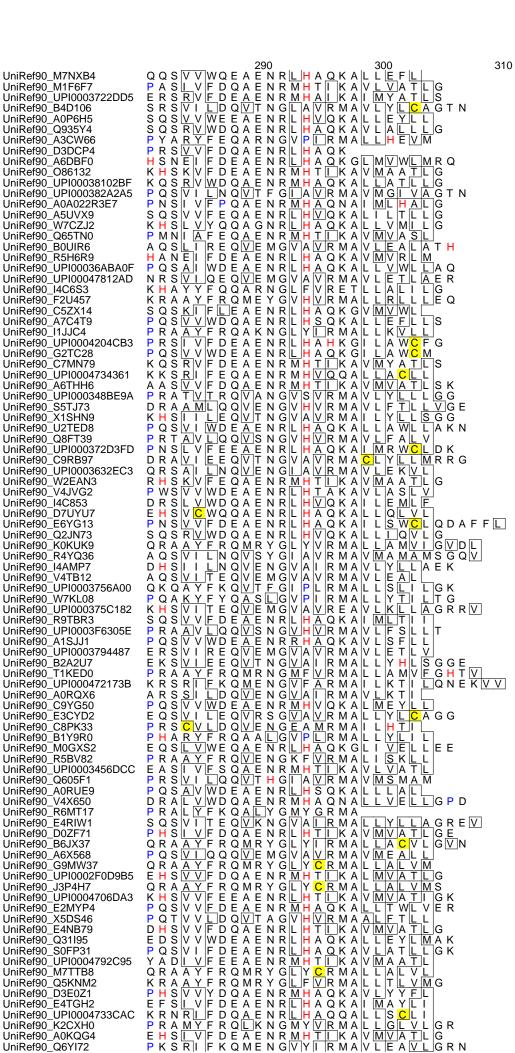
UniRef90 M7NXB4	90 100 110 120 LGRGEPLEDSARVISSM_VDAVMLRTFEHSKVERF AQY
UniRef90_M1F6F7	
UniRef90_UPI0003722DD5	MGKKESI RDTARVLGRMYDGI EYRGYGQEI VEELARYA LTKGETLKDTALNLQALHADI I VLRHSSAGA SKFLAERL QLGRGEPVEDAAQVI SRMCDVVMI RTFEQDLIERF ARN QVGRGEPI ADTARVLSRYLDALAI RTFAQQDLEEYAHYA
UniRef90_B4D106 UniRef90_A0P6H5	LTKGETLKDTALNLQALHADIIVLRHSSAGA SKFLAERL QLGRGEPVEDAAQVISRM <mark>C</mark> DVVMIRTFEQDLIERF ARN
UniRef90_A0F6H5	QVGRGEPVEDAAQVISKM <mark>O</mark> DVVIMI RTFEQDITERF
UniRef90_A3CW66	SII VINGETILIADTII IRIV VISGYADAII VLIRAPNEGAARILIASEFAT
UniRef90_D3DCP4	I I G R G F T I I F D T A A I V I IS R Y I V ID A II V I IR T F A Q F R I V IF R M A A A A
UniRef90_A6DBF0	L G R G E P I K D T A R V I S R M V D M I M I R T F G Q E R L E E F A K Y S L G K K E S I E D T A K V L G R M F D G I E F R G F E H E K V I S L A E H
UniRef90_O86132 UniRef90_UPI00038102BF	IVIC D C E DII IC D T A DIVI ID D VII IDIVI IA IVID T E K O E DII I — E T E A K E
UniRef90_UPI000382A2A5	STSKGESLLDTINNLAMHADLFVVRHASSGAPYLIAEHCA
UniRef90_A0A022R3E7	MGKREET RDVARVLSGYNDLIMARVFAHQDILDLAKYA
UniRef90_A5UVX9	GGRESVP DVARNLSRWVHAI AARVFRHATV ETLARY
UniRef90_W7CZJ2 UniRef90_Q65TN0	STSKGESLLDTINNLAMHADLFVVRHASSGAPYLIAEHCA MGKREET RDVARVLSGYNDIIMARVFAHQDILDLAKYA GGRESVP DVARNLSRWVHAIAARVFRHATV ETLARY IGRGEPI KDTAHVLSEYINAVMIRTFSHEGVEELAEHA IG HKESMKDTARVLGRLYDAIEYRGYKQETVEEL AKF
UniRef90_B0UIR6	- V K K G F
UniRef90_R5H6R9	I I G R G F PIVIQ D T A RIV I IS R Y II IS GII IMII IR T F F Q K FIVIF DII IA F Y G
UniRef90_UPI00036ABA0F	GGKETPS DTARVLERMVSAI VWRTYAQSGLEEM AEG LSKGETLIDTAMTLNAMRPDLLVVRHADSGAVNLLAQKVN
UniRef90_UPI00047812AD UniRef90_I4C6S3	AVKEESLWDTVKMHDGYGFDVMVIRHPLKGA ARLAAEAA
UniRef90_F2U457	LSKGETLIDTAMTLNAMRPDLLVVRHADSGAVNLLAQKVN AVKEESLWDTVKMHDGYGFDVMVIRHPLKGA ARLAAEAA SVTKGETLTDTVRTLECYADAVVLRHPREGC MEEAASVM LGRGEPI KDTSRVLSSMVDLIMMRTHEHARLEEFAHYS LGRGEPI EDTARVLSSMVNSIMVRTYEHKKIELFAKYS SAAKGETLEDTIRTVEGYSDIIVMRHFESGAAKRAAT TA
UniRef90_C5ZX14	LIGRGEPII KDTSRVLISSMVDLI MMRTHEHARLEFAHYS
UniRef90_A7C4T9 UniRef90_I1JJC4	L G R G E PIL E D T A R V L S S M V N S I M V R T Y E H K K I E L F A K Y S S A A K G E T L E D T I R T I V E G Y S D I I V M R H F E S G A A K R A A T T A
UniRef90_UPI0004204CB3	
UniRef90_G2TC28	ILIG R G E T II I A D T A R IV L IS R Y IV ID G II IMIL IR T N D P A K IL IR D IL IS Q N
UniRef90_C7MN79	MGKKESI EDTARVLERFYDGIEFRGFAQKDVQDL ADN OUSRGEPUKDTARVLSRYCDGLAURTFNQSDLNEYAMWSS
UniRef90_UPI0004734361 UniRef90_A6THH6	QI S R G E P I K D T A R V L S R Y C D G L A L R T F N Q S D L N E Y A M W S S I G H K E S I K D T A R V L G R M Y D G I Q Y R G H G Q E V V E T L A Q Y
UniRef90_UPI000348BE9A	IVIANGESILIND I AILII ILIQA WIGA DGIV V VIN II GA SGA A II KILIA — G WIVI
UniRef90_S5TJ73	
UniRef90_X1SHN9 UniRef90_U2TED8	OLGGKESVADTARVLEAMKI DEVVIRHSMPGAAHFIJA KRL
UniRef90_Q8FT39	L K G E T L L D T A R N L E A M K I D F V V I R H S M P G A A H F I A K R L Q L G G K E S V A D T A R V L E R M V S A I V W R T F A Q A G L E E M A A G S V K K G E S L K D T G L T L A L G A D A I L M R H P S S G A A Q Q L A G Y V A L G R G E S I G D T A R V L S R Y V D L V M I R A N E H S D L E D F A D S V V K G E G L L D T A R T V E A L G A D V V V L R H P S A G A A A F L A R H V K
UniRef90_UPI000372D3FD	LGRGESIG DTARVLSRYVDLVMIRANEHSDLEDF ADS
UniRef90_C9RB97 UniRef90_UPI0003632EC3	V V K G E G L L D T A R T V E A L G A D V V V L R H P S A G A A A F L A R H V K V S K G E S L V D T L N T L G A M R P D A I V M R H S A S G A P Q F L S R Y L P
UniRef90_UF10003032EC3	LGKKESI EDTAKVLGSMFDAI EFRGFEHSKV EALAKY
UniRef90_V4JVG2	L G R G E T I P D T A R T L S R F V D A I T A R V Y R H S D L E V L A K Y A
UniRef90_I4C853	L G R G E PL R D T A R V L S R Y V D A L V I R C Y G H E V L E E F V H W G
UniRef90_D7UYU7 UniRef90_E6YG13	QLGRGEPI ADTAKVLSSYIIDALMI RTFSHEEVE ALAEHA QLGRSETI ADTARVLSRFVEI I LRTTAHHRMI ELAQYA
UniRef90_Q2JN73	QVSRGEPLQDTARVLSRYLDVIAIRTYDQKEL _ETFAEY
UniRef90_K0KUK9	SVKKGETLQDTVRSLASYSDALVLRHPEESSAAVASKYSP
UniRef90_R4YQ36	V V K G E G L L D T A R T V E A L G A D V V V L R H P S A G A A F L A R H V K V S K G E S L V D T L N T L G A M R P D A I V M R H S A S G A P Q F L S R Y L P L G K K E S I E D T A K V L G S M F D A I E F R G F E H S K V E A L A K Y A L G R G E T I P D T A R T L S R F V D A I T A R V Y R H S D L E V L A K Y A L G R G E P I R D T A R V L S R Y V D A L V I R C Y G H E V L E E F V H W G Q L G R G E P I A D T A K V L S S Y I D A L M I R T F S H E E V E A L A E H A Q L G N S E T I A D T A R V L S R F V E I I L R T T A H H R M L E L A Q Y A Q V S R G E P L Q D T A R V L S R Y L D V I A I R T Y D Q K E L E T F A E Y S V K K G E T L Q D T V R S L A S Y S D A I V L R H P E E S S A A V A S K Y S P S K G E T L M D T L W N L E A M Y S D M F V V R H A D S G A A H F I A E Q V T V S K G E T L L D T V N N I L A M K V D M I V M R H S S A G A P H F L A K H I N
UniRef90_I4AMP7 UniRef90_V4TB12	VSKGETLLDTVNNILAMKVDMIVMRHSSAGAPHFLAKHIN VKKGETLLDTAMTLHAMRPDILVVRHHSSGAVDLLARKVG
UniRef90_UPI0003756A00	S K K G E S L F D T F K M M D Y T D L
UniRef90_W7KL08	V FKGFNFADT RM FNYSF <mark>C</mark> VV RHKFDGAAKFASF V S
UniRef90_UPI000375C182 UniRef90_R9TBR3	VKKGETLIDTAMTLNAMAPDAI VIRHSASGGVKLLSRKVD QMGRGETLEDTAKVLSRFADCIAYRAFNHSDV CTLAEN
UniRef90_UPI0003F6305E	<u>VNKGESILKDTALITILDAII GADAII VRHPSSGAANLI AKWVG</u>
UniRef90_A1SJJ1	GIVIR E SIVIH DIVIA RIV LIG R Q A A MII VIWR T Y A Q A RILIE E M A E H A
UniRef90_UPI0003794487 UniRef90_B2A2U7	VTKGÉTLIDTAVTLNÁMHIDALVVRHQDSGAVKLLADKVN VAKGENLIDTGKTLEAMGUNLIVMRHPLAGAPRLLAN NL
UniRef90_T1KED0	VAKGENLIDTGKTLEAMGINLIVMRHPLAGAPRLLAN NL QKGETFDDTMKTMSSYYDALVIRHPQVGA ARMAAAAA SVLKGETLYDTIKTLQSIGVKLAVIRHKQDHYYEQLINHV TNKGETLIDTIHNIEAMKTDIFIVRHYSSGAAKFVT KNT QLGRSEPIEDSAKVISRMTDIVMIRTYEQTKL QAFAAN STSKGETLIDTIRNMQAMRTDIFVLRHGAVGAAAYLTRKLK TKKGETLIDTIRNMQAMRTDIFVLRHSCSGAAKFVA ANC VEKGETLVDTVKMLDAYSDVIVVRHRYEGASKLAAE VA LGHGEPLC DTARVLGRYGDVIMARLFDHEDLLEI AEY SVSKGETVQDTIRVVGCFADVIAMRHYIEGAPLAAAEVS
UniRef90_UPI000472173B	SVLKGETLYDTIKTLQSIGVKLAVIRHKQDHYYEQLINHV
UniRef90_A0RQX6 UniRef90_C9YG50	INKGETLIDILIHNIEAMKIDIELVRHYSSGAAKFUT KNT OLGRSEPLEDSAKVISRMIDIVMIRIVEOIKI OAEAAN
UniRef90_E3CYD2	STSKGETL RDTAWTL AMGADII VVI RHGAVIGAAAYET KIIK
UniRef90_C8PK33	TKKGETLI DTIRNMQAMRTDI FVLRHSCSGAAKFVA ANC
UniRef90_B1Y9R0	VEKGETL VDTVK MLDAYSDVI VVR HRYEGASKLAAE VA
UniRef90_M0GXS2 UniRef90_R5BV82	SVSKGETVQDTI RVVGCFADVI AMRHYI FGAP I IAAAFIVQ
UniRef90_UPI0003456DCC	LG HGEPLRDTARVLGRYVDGVMARLFDHAQVETLAAV S KGESLLDTIRNLEAMHVDMFVVRHAQSGAAHFIARHVA QLSRGETIPDTARALSGYVDVIVARVFGHETIEEI AAS LG HGEPLRDTARVLGRYVDGVMARLFDHADVETLAAHAD
UniRef90_Q605F1	S K G E S L L D T L R N L E A M H V D M F V V R H A Q S G A A H F I A R H V A
UniRef90_A0RUE9 UniRef90_V4X650	ULISKGETII PUTAKAILISGYVIDIVT VIARIVIFGHETII AAS
UniRef90_R6MT17	
UniRef90_E4RIW1	I AKGESLLDTAKTMEVMGADVVVIRHSAPGAAQFLAE NI
UniRef90_D0ZF71	I AKGESLIDTAKT MEVMGADVVVIR HSAPGAAQFLAE NI IG HKESIKDSARVLGRLYDAIQYRGFGQQVV ETLAHY SVNKGESLADTLRTLACYGDALVLRHPSLESARIAADFSP
UniRef90_B6JX37 UniRef90_A6X568	
UniRef90_G9MW37	SVQKGESLQDTLRTVAQYGDAVVLRHPEEHSA EVAQKFS FGKKESV EDSAKVLGRMYDAIQFRGYKQTDV EALAKY
UniRef90_UPI0002F0D9B5	HVGYKESAKDTARVLGRMFDAIQYRGSAQHTVEELAAHA
UniRef90_J3P4H7	SIVQKGESILQDTILRTIVAQYGDAVVLRHPEEHSA EVAQKFS
UniRef90_UPI0004706DA3 UniRef90_E2MYP4	
UniRef90_X5DS46	SIVIK K G F SILIK D T AILITILIAIVIG A D AILI I M R H P S S G A A R QIVIA N WIVIG
UniRef90_E4NB79	MG HKESIIKDIARIVLIGRMEDGII IEYRGDGQEII I IEEILIAAHA
UniRef90_Q31I95 UniRef90_S0FP31	LGRGEPT EDTAKVISSMADGI MIRTFGHEVVEKMAEHS LGRGETIY DTANVLSRYLDGI MLRTFKQSDVEDL ARF LGKKESL ADTARVLGRMFDGI EYRGYGQELV ENLAKY
UniRef90_UPI0004792C95	I GKKESI ADTARVLGRMFDGI EYRGYGQEIV ENLAKY
UniRef90_M7TTB8	IGKKESI ADTARVLGRMFDGI EYRGYGQEIV ENLAKY STVKGESLADTIRTLGCYGDAI VLRHPEESSAS TAAKFS
UniRef90_Q5KNM2	SVQKGESLADTLRTVGCYADAI ALRHPSVGSAK AAAKSS
UniRef90_D3E0Z1 UniRef90_E4TGH2	LGKGETIV DTANVLSKYIDGIMIRTKQDVEDLAKF SKKESI ADTARVLGRMFDGIEYRGYGQEIV ENLAKY STVKGESLADTIRTLGCYGDAIVLRHPEESSAS TAAKFS SVQKGESLADTIRTVGCYADAI ALRHPSVGSAK AAAKSS QLGRGEPIKDTAKVLSRFVDVIMIRAIEHDDVIELER E QLGRGETIEDTARTLSRYVDMIMIRAIEHDDVIELER E QLGRGEPIKDTARVLSRYCDVLAIRTFEHSKV EKLAKY QIGRGEPIRDTARVLSRYCDVLAIRTFEKQSDLEEYAKWSS SVAKGESLKDTVRTLEAYCDALVIRHPEKGTAELTSEY I IGHKESMKDTARVLGRMYDGIEYRGYGQEIVEELGAYA TLKGETLYDTVKTLEAIGVDALVIRHPEDGYY EQLIGRT
UniRef90_UPI0004733CAC	QI GRGEPI RDTARVLSRY <mark>C</mark> DVLAI RTFKQSDLE <u>E</u> YAKWS <u>S</u>
UniRef90_K2CXH0	SVAKGESLKDTVRTLEAY <mark>C</mark> DALVIRHPEKGTAELTSEY I
UniRef90_A0KQG4	I G H K E S M K D T A R V L G R M Y D G I E Y R G Y G Q E I V E E L G A Y A
UniRef90_Q6YI72	ILINGE ILIYD I <u>WINILIE ALIGWD AL</u> VIIK <mark>H</mark> PEDGYY EQ <u>LI</u> GRI

UniRef90_M7NXB4	130 140 150 160 S S V P V T N A L T D D Y H P C Q L L A D L Q T Y Y E Q R G D L A G K T V A W I G V P V Y N G L T D E F H P T Q L L A D F L T M Q E H E K P L H R V A F A F L
UniRef90_M1F6F7 UniRef90_UPI0003722DD5 UniRef90_B4D106 UniRef90_A0P6H5	GVPVWNGLTTQFHPTQMIADMLTVENFPQGVAGLKLVFM DASVINAGDGAHEHPTQAIIDTFTIREKIGRIEGIHVALI
UniRef90_Q935Y4 UniRef90_A3CW66 UniRef90_D3DCP4	DIPVINALTODYHP <mark>C</mark> QLLADLQTIQENFGQWQDLTLTYL
UniRef90_A6DBF0 UniRef90_O86132	KVPVINGLTDK <mark>CHPVQLLADLMM</mark> IEYKKFDFDNPQKTVV SGVPVWNGLTDLWHPTOMLADFMTVKFHTGRVKGVKLTYL
UniRef90_UPI00038102BF UniRef90_UPI000382A2A5 UniRef90_A0A022R3E7	PHVHI NAGDGRHAHPT QGL LDMYTI RHYKRDFT KLRVALV
UniRef90_A5UVX9 UniRef90_W7CZJ2 UniRef90_Q65TN0	A T V P V I N A L S D R E H P C Q A L A D M L T L R E H Y G R L A G L T L A Y V S I P I I N G L T D L H H P C Q A L A D L L T I L E V K H T F D G V K L A Y I S G V P V F N G L T D E F H P T Q M L A D L T M I E H S T K P L N E I K Y V Y I L
UniRef90_B0UIR6 UniRef90_R5H6R9 UniRef90_UPI00036ABA0F	SI PI INGLT DY CHPCQV LADLQTVREYKNKLDGLKFCYI ARVPI VNALSDDFHPCQLLADLLTIREHRGATAGQKLVFV
UniRef90_UPI00047812AD UniRef90_I4C6S3 UniRef90_F2U457	A T V P V I N A L S D R E H P C Q A L A D M L T L R E H Y G R L A G L T L A Y V S I P I I N G L T D L H H P C Q A L A D M L T L L E V K H T F D G V K L A Y I S G V P V F N G L T D E F H P T Q M L A D L L T I L E V K H T F D G V K L A Y I S G V P V F N G L T D E F H P T Q M L A D L L T M I E H S T K P L N E I K Y V Y I C A V V N A G D G A H E H P T Q A L L D A L T I R R N K G R I E G L R V A L C S I P I I N G L T D Y C H P C Q V L A D L L T I R R N K G R I E G L R V A L C S I P I I N A G D G R R E H P T Q A L L D A L T I R R R K G R L H R L N V A L C D L P V I N A G D G R R E H P T Q A L L D A L T I R R R K G R L H R L N V A L C D L P V I N A G D G T G E H P T Q A L L D L Y S I K E T Q G T L D G I T V A M V R K P L I N A G D G T G E H P T Q A L L D V F T I R E E L G T V N D L N I T L S I P V I N G I S D S F H P M O I L A D Y I T M Q F C O K D K N P L V T Y V
UniRef90_C5ZX14 UniRef90_A7C4T9 UniRef90_I1JJC4	SIPVINGLSDSFHPMQLLADYLTMQECQKDKNP IVTYV KVPVINALTDRHHPCQLLADIQTYVEHRGSIQGKKVAWI SIPVINAGDGPGQHPSQALLDVYTLEREIGKLDGIRVGLV
UniRef90_UPI0004204CB3 UniRef90_G2TC28 UniRef90_C7MN79	A T V P V I N G L T K V S H P T Q V M A D I M T Y E E H R G P V A G K T F A W T A S V P V I N G L T D A A H P C Q I M A D L M T F E E H R G S I T G K V V T W V A T V P V W N G L T T E W H P T Q M L A D L L T I Q E E F D D L A G R T L V F M
UniRef90_UPI0004734361 UniRef90_A6THH6 UniRef90_UPI000348BE9A	RKPLINAGDGTGEHPTQALLDVFTIREELGTVNDLNITLL SIPVINGLSDSFHPMQLLADYLTMQECQKDKNP I VTYV KVPVINALTDRHHPCQLLADIQTYVEHRGSIQGKKVAWI SIPVINAGDGPGQHPSQALLDVYTIEREIGKLDGIRVGLV ATVPVINGLTKVSHPTQVMADIMTYEEHRGPVAGKTFAWT ASVPVINGLTDAAHPCQLMADLMTFEEHRGSITGKVVTWV ATVPVWNGLTDEWHPTQMLADLLTIQEEFDDIAGRTLVFM K PVINALTNLEHPCQALADFMTIKEEFIDFKNVVLTFI AGVPVWNGLTTEHPTQALLDLTIMKEHLPGKAFNQMTLV DGSVVNAGDGTHEHPTQALLDAVTMRERTGRLAGLRVAIV GTSVINAGDGTHEHPTQALLDAVTMRQRLGGVDGRKVLIV EASVINAGDGTHEHPTQALLDAVTMRQRLGGVDGRKVLIV TRVPVVNALSDEFHPCQILADLQTLRQRLGGVDGRKVLIV TRVPVVNALSDEFHPCQILADLQTLRQRLGGIEGRKIVIV
UniRef90_S5TJ73 UniRef90_X1SHN9 UniRef90_U2TED8	G T S V I N A G D G A H Q H P T Q A L L D A V T M R Q R L G G V D G R K V L I V E A S V I N A G D G T H E H P T Q A L L D L L S L K E K F G K I K G K K <u>V L I V</u> T R <u>V P V V</u> N A L S D E F H P <mark>C Q I L A D L Q T I Q E H K G S L A G L T <u>M S Y F</u></mark>
UniRef90_Q8FT39 UniRef90_UPI000372D3FD UniRef90_C9RB97	PPSVINAGDGSHQHPTQALLDALTLRQRLGGIEGRKIVIV AGVPVINGLTDRSHP <mark>C</mark> QIMADLMTLEENGLALKGARLAWV AAVINAGDGMHEHPTQALLDLFTVKRHKGRIKGLTVTIV
UniRef90_UPI0003632EC3 UniRef90_W2EAN3 UniRef90_V4JVG2	I PI VNAGDGTHEHPTQALLDARTI LDRRATLEGLRI ALI SGVPVWNGLTDRWHPTQTLADLLTI KEHTGHLKGVKL YYV TVPVINALSDLSHPLQALADFLTI REKLGRLKGVKLAFV
UniRef90_I4C853 UniRef90_D7UYU7 UniRef90_E6YG13	TIPVINGLIDEN COLLADILITE E KOLDICS MNACWI TIPVINGLIDEN CQALADILITMY E WKD DILTNVKVA FU
UniRef90_Q2JN73 UniRef90_K0KUK9 UniRef90_R4YQ36	VPI LNAGNGSREHPTQAFLDLETI REELIGTVNGI TVT FM PGVI INAGDGRHAHPTQAMLDMLTI RRHKGALEGOTVALV
UniRef90_I4AMP7 UniRef90_V4TB12 UniRef90_UPI0003756A00	CSVVNAGDGIHEHPIQALLIDIFSIKEKLIGEVIAGKKIVAIII KKPIVINAGDGMINHPTQALLIDALTIIRRHKGSFENLVVAIIC KKPIVINAGDGMINHPTQAMIDIVTIRKIHGRINNIKI
UniRef90_W7KL08 UniRef90_UPI000375C182 UniRef90_R9TBR3	EKPI VNAGDGKHEHPTQSMIDLYTVYKVFGQVDGLNFALF CAV INAGDGTHQHPTQGLLDTLTIRRAKGRIEGLKVTIC ASIPVINALDDLEHPCQLIADLLTITEKKHKLKGLKLSYI
UniRef90_UPI0003F6305E UniRef90_A1SJJ1 UniRef90_UPI0003794487	GVPVVNAGDGKHQHPIQALLDAVILRQRLGEIKGRKIVLV GVPVVNAGDGAHEHPTQALLADLLTIREHKQRLAGLTVAFV
UniRef90_B2A2U7 UniRef90_T1KED0 UniRef90_UPI000472173B	QI PI INAGDGY HEHPT QALL DMFTI KEYKGSLKGLKVIIII QI PI INGGDGTGEHPT QALL DVFTI KEELIGTVNGLTI SLV
UniRef90_A0RQX6 UniRef90_C9YG50 UniRef90_E3CYD2	P S
UniRef90_C8PK33 UniRef90_B1Y9R0 UniRef90_M0GXS2	DASI VNAGDGLNEHPSQALLDLFTISERKGRIENLNVAITESPVINGGDGAFNHPTQAMLDVYTMWREFGTVDGLNVGLISTAPVINGLTDDAHPCQTLADLLTIREHVGSFEEVQAAWV
UniRef90_R5BV82 UniRef90_UPI0003456DCC UniRef90_Q605F1	DLSIVNGGDGSGQHPSQCLLDLLTIKQEFGYFNGLNVLIVPSCVVNAGDGCNEHPTQALLDLLTIYEAKGSFSGLSVTIISRVPVINGLTNEFHPCQLLADIFTYLEHRGPIQGKTVTWVKAVVLNAGDGAHAHPTQGLLDLYTAWKHLGDLEGRKIVILDASIVNAGDGAHAHPTQGLLDLYTAWKHLGDLEGRKIVILDASIVNAGDGAFNHPTQAMLDVYTMWREFGTVDGLNVGLISTAPVINGLTDDAHPCQTLADLLTIREHVGSFEEVQAAWVRVPIINAGDGSHSHPTQTLTDLLTIREHVGSFEEVQAAWVRVPIINAGDGSHSHPTQTLTDLLTIKRELGHIGNMTIGFCSHVPVWNGLTDEFHPTQVLADLLTMEFFERPLDTMSFCYLPHISVNAGDGRHAHPTQAMLDVFTIRRAKGGFAGLKVAIVASVPVINGLSDTFHPCQILADLLTMEFFERPLDTMSFCYLPHISVNAGDGRHAHPTQAMLDVFTIRRAKGGFAGLKVAIV
UniRef90_A0RUE9 UniRef90_V4X650 UniRef90_R6MT17	C PVINGLT DEAHPCQTLADLTTIREAVG ADASVAWV
UniRef90_E4RIW1 UniRef90_D0ZF71 UniRef90_B6JX37	VPFINCGDGGHLHPTQTLADIVTLSCEKGRLDNLKIGIC SASVLNAGDGAHAHPTQALLDIYSIKEKLGDIEGLNVLIV AGVPVWNGLTDEFHPTQLLADFLTMEHCAKPLSAMKLAYL VPVINGGNGSQEHPTQAFLDLYTIREELLGSVNGLTITFL
UniRef90_A6X568 UniRef90_G9MW37 UniRef90_UPI0002F0D9B5	CSVVNAGDGAHEHPTQALLDALTIRRAKGGIENLIVALC VPVVNGGNGSKEHPTQAFLDLFTIREELGTVQGLTITFL GVPVVNGGNGSKEHPTQAFLDLFTIREELGTVQGLTITFL GVPVVNGLTDDWHPTQMLADLTMTEHSDKPLDRIAYAYL QVPVINGGNGSKEHPTQAFLDLFTIREELGTVQGLTITFV SGVPVVNGLTDEFHPTQILADFLTVEEHLGNLKGRKLVFA ATVPIVNALSDEFHPTQILADFLTVEEHLGNLKGRKLVFA
UniRef90_J3P4H7 UniRef90_UPI0004706DA3 UniRef90_E2MYP4	SGVPVINGGNGSKEHPIQAFILDIFIIREELGIVQGLIIIIFV SGVPVYNGLTDEFHPTQILADFLTVEEHLGNLKGRKLVFA A TVPIVNALSDEFHPCQILADLQTIIERKCPLRDKKAVYF QISVLNAGDGSHEHPTQALLDAVILRNKLGTLEGSHVVIV
UniRef90_X5DS46 UniRef90_E4NB79 UniRef90_Q31I95	GVPVWNGLTDEWHPTQLLADVLTLQEHSKPLSETTLVYL
UniRef90_S0FP31 UniRef90_UPI0004792C95 UniRef90_M7TTB8	GTIPVINGLTDEMHPCQILADLTTVYEHKGKLEGLKLAYIAGVPVWNGLTNEYHPTQMLADLLTIREHFGKLKGLKLVYMPVPIINGGNGSKEHPTQAFLDLFTIREELGTVGGLTITFTPVPILNAGDGGEHPTQSLLDVFCIREELGSVNGITVTLISDVPIINGLTNLEHPCQALADMLTVKEHKGGFDGKFV
UniRef90_Q5KNM2 UniRef90_D3E0Z1 UniRef90_E4TGH2	3 3 V P V I IN GIL II D D F N P U QIV IN A DII IN I IV I E N P G I I DILI NILIA I IV I
UniRef90_UPI0004733CAC UniRef90_K2CXH0 UniRef90_A0KQG4 UniRef90_Q6YI72	K PVINALTDLEHPCQALADYMTIKEEFVDFKNVVLTFIEIPVINAGDGTGEHPTQALLDLYTINEQRGALGGLTGLMVGVPVWNGLTNEFHPTQLLADFMTMLEHGKGKRLDQIKFASVSIINGGDGSGQHPTQSLLDLFTIKEEFGSFQGLNVLIT

		170	180	190 200
UniRef90_M7NXB4	GDG NNI	M <mark>C</mark> H <u>SY</u> INA.	AELFG <u>F</u> KL	N I A T P P G Y E P K P E I V A
UniRef90_M1F6F7 UniRef90_UPI0003722DD5	G D A A N N M O	GDSLLIGG ANSIMVV <mark>C</mark>	A KILIGILI <mark>H</mark> FIVIA	CAVCWPQQSIQDEAQA CGPSMPEDDLVRTCRE
UniRef90_B4D106	GDILFSR	V A R S N I H A	LLKLG ARV	T L V G P S T L V P H E F E Q M
UniRef90_A0P6H5 UniRef90_Q935Y4	G D S N N V C	NT WLQAAE	LLDFNVHVS	TPKGYE RIACPPDYQPQERIVA
UniRef90_A3CW66	G D L R Y G R	T A H S L A L A	LSLYGVTLH	TI AP VGLEMPANI AL
UniRef90_D3DCP4	GD GNI	NIVIA <mark>H</mark> SILIMILI	A G A M A G M R IV	IHIVIA S P P G Y F P F D QIV V R
UniRef90_A6DBF0 UniRef90_O86132	GDGRNNV	NMANSWVI ANSLLIGG	LIASKILIGFNIL AKVIG MDV	RVATPKGYEIDEDIKQ RICSPQELFPDQDIVK TPPGYELDDKIIEYGR
UniRef90_UPI00038102BF	GDGNNVA	N S L L L G C A	LLGINVRFA	T P P G Y E L D D K I I E Y G R
UniRef90_UPI000382A2A5 UniRef90_A0A022R3E7	GDII LIHSKI	VIARSDII I <mark>H</mark> AI	I II I II IGIVI <mark>P</mark> F IV	RALGPRTLLPGGLEQM CACPRGFEPDARTAKN
UniRef90_A5UVX9	GD GNI	NIVIA H SILIMILI	LIGATILIGMNII	IRII IG <mark>C</mark> PPDYRPDPEII LIT
UniRef90_W7CZJ2 UniRef90_Q65TN0	G D G N N V C	<mark>H</mark>	M <u>VGL</u> DLS <mark>C</mark> A	MPAGYPNPQVLDQALQ RICGPKSLLPEENFVS
UniRef90_B0UIR6	GDVLHSR	V A R S N I L	L IQ A IL IG A R IV IR	IV I IG P S T II I I IP P G II IA R
UniRef90_R5H6R9	GDG NNI	MANSII ITIVIG.	ALIKIVIG MSIV	SLG <mark>C</mark> PEGYYPDQTIID AVASPEGYLPREDVVA
UniRef90_UPI00036ABA0F UniRef90_UPI00047812AD	GDGASNM GDILHSR	V A R S N M WII	I IGKII I FNRII	IRIV I IA PPTIL LIPTGILIERE
UniRef90_I4C6S3	GDLANGR	TVHSLTEA	LKYDK <mark>C</mark> NL	I FI S P R D L A M P G F L L D Y V A P D S L Q I P D K V Y D A
UniRef90_F2U457 UniRef90_C5ZX14	GDEKHGR GDG NNI	IVHSLARL MAHSWIMI	LISHYRVAII R AAKMGEELIR	I A S P K N Y P D L Y Q K A R E
UniRef90_A7C4T9	GDG NN	MCHSYMQA	AHQFD FEL	AVACPPNYQPDÄELVA YFVSPNVVKMKDDIKD
UniRef90_I1JJC4 UniRef90_UPI0004204CB3	GDLANGR GDG NN	T	LJAKYQD <u>IV</u> IKIL AABENY TM	Y F V S P N V V K M K D D
UniRef90_G2TC28	GD GNI	NIVIA <mark>C.</mark> S WII IK.	A S A II IF G F T M	RILIACPAFILIFPPOGIVID
UniRef90_C7MN79 UniRef90_UPI0004734361	G D A K N N V	ARSLIMIVV <mark>C</mark>	AKLGLNFVA	CGPCMPGDDVVEACKP RIACPKGYEPNSSVIK
UniRef90_A6THH6	Y A <u>G D</u> A R N	NMGNSMLE.	A A L F GL DL	RLVAPSA <u>CWPE</u> A <u>ALV</u> E
UniRef90_UPI000348BE9A	GDVLHSR	VARSNVLL	LHTLG AEV	RLVAPSA <mark>C</mark> WPEAALVE TLVAPPTLVPVSVGTW VLVAPPTLLPAGVETW
UniRef90_S5TJ73 UniRef90_X1SHN9	GDU LHSR	V A R S N I WA	LKKMG AVV	SVCGPPTLMPY_
UniRef90_U2TED8	GDGANNM	SHSYLLGG	LKKMG AVV ATAGMHVRV	A A P A E Y A P D P A I D A R R
UniRef90_Q8FT39 UniRef90_UPI000372D3FD	GDILHSR	V V R S N V D L V C S S F I H A	LISTILIG A <u>EIV</u>	I L VA P P I L L P Y G V E N W A I G T P D R Y A P D D D D I E
UniRef90_C9RB97	G D I I H S R I	VIARSNII WG	FSKIG ARV	RVCGPATLIPPGLEEL
UniRef90_UPI0003632EC3 UniRef90_W2EAN3	G D [A H S R] G D G R N N V	VARSNIYL ANSLLIGG	LISKFG AIVG MEV	VSIVL <mark>C</mark> GPASLLPR
UniRef90_V4JVG2	GDGSDNM	LHSLLVA	ĠSKĽG ŸŠÝ	Y V A S P S S L Q P D K R I L E
UniRef90_I4C853 UniRef90_D7UYU7	G D G N N I G D G N N V C	MANSWIDA.	A E K L G F S L L M G I T I H F A	KLA <mark>C</mark> PEGYDPQV IPDAYQIDATILEK <u>A</u> H
UniRef90_E6YG13	GDG NN	V L H S L I E A `	TAII IF NFHIL	HII ATPQGSEPQEKYIVIN
UniRef90_Q2JN73	GD GNI	NIVIA H SILILI	G <mark>C</mark> AMSGII IHII	IRIVIAT PPGYFPDAAIVVIF
UniRef90_K0KUK9 UniRef90_R4YQ36	GDL R T GR	V A R S QI H A	L K T L G A K E I	RVIGPATLIPK
UniRef90_I4AMP7	GDISHSR	VALSNIFA VARSNII <mark>C</mark>	LQKLG AEV	IMILI <mark>C</mark> G M P T IL I IP K F II IN QIL I
UniRef90_V4TB12 UniRef90_UPI0003756A00	G D L R Y G R	A S N S F I L G	L Q A L G A R V I A K Y P N N L I	RVIAPSTLLPTGIDRF YAISPPQLKLREEIKE
UniRef90_W7KL08	G D L K Y A R	TIVIN SIL LIR AI	LITRFKPKKIV	F L S P Q L R A R E V Q
UniRef90_UPI000375C182 UniRef90_R9TBR3	GDLLHSR GD GN	VARSTTLA NVCNSLML	LHLLG AEV	TLCGPATLLPSGTEQW VAGCPEGYMPDQDIVE
UniRef90_UPI0003F6305E	GDILHSR	VARSNADL	LSKLG AEV	VFVAPPSLLPVGVETW
UniRef90_A1SJJ1 UniRef90_UPI0003794487	GDGACNM GDVLHSR	GNSWLLAGI VARSNI HI	V T A G <u>L </u>	SSPEGYAPDPAMVERA VIGP KPLI
UniRef90_B2A2U7	G DII IY H S RI	V A R S NII IWGI	LITKMG ADIV	IRILIA G P P T ILI ILID
UniRef90_T1KED0 UniRef90_UPI000472173B	G D L L N G R	TVHSLAKL	LTHYNVRL	KLISPPSLKLPDSVKN
UniRef90_A0RQX6	GDLFHSR	V A R S N I Y A	MQTLGLKVK	FSGPRDWFDPTFLQTD LFGPPM F
UniRef90_C9YG50	GDG NN	MANTWLQA	A K L G F H L R	V S T P S G Y E V N E T L A A S
UniRef90_E3CYD2 UniRef90_C8PK33	GDI FRSR	V A R S D I WA	MKKLGUNVR	VSTPSGYEVNETLAAS VFCGPRTLIPL LFGPPMML YLLSPEYLRPRVETID
UniRef90_B1Y9R0	GDLRHAR	TVNSLLET	LTNF RVRV	Y L I S P E Y L R P R V E T I D
UniRef90_M0GXS2 UniRef90_R5BV82	GDLRFGR	TVHSLIKA	L T R Y E GII KV	TVATPPDYAMDDEVME ILIAPQELAPDYIKQD
UniRef90_UPI0003456DCC	GDARFNM	G N S II I I IG G I	VIQ MGMDIV	IRII IA A P R AII IWP F F HII VIA
UniRef90_Q605F1 UniRef90_A0RUE9	GDG NN	V A K S E I W A V <mark>C</mark> N S L I Y G	CAAVG I DI	RVVAPKTLLPAHVEAL SVATPAVFRPIPGVVD
UniRef90_V4X650	GDGNNV	GQSFVVGA	A M A GLDVS V	A T P A A Y G M D P A V F E R A
UniRef90_R6MT17 UniRef90_E4RIW1	GDIAHSR	TVHSLIKA VAR <u>SNI</u> WG	LOUYDNNSF LNKEG AOV	
UniRef90_D0ZF71	GDARNNM	G N S IL L IE G A .	A LMGMEL	SVAGPQTLLPREIEKM HLVAPKAYWPEAELIA NLVSPVQLALPDELVE
UniRef90_B6JX37 UniRef90_A6X568	GDVIHSE	TVHSLVKL VARSNILL	L A F WQVKI	NLVSPVQLALPDELVE RVVAPSTLLPSG_
UniRef90_G9MW37	GDILLIYGRI	PIVIH SIL VIYIL I	L IQ H Y QIVIKIVIQ	IL VIS PKAILISILIPAKIVIREQ
UniRef90_UPI0002F0D9B5 UniRef90_J3P4H7	GDARNNM	GNSYLVTG.	LLGMDV	RI VAPRALWPEEEARA LVSPKSLALPAYVRDR
UniRef90_UPI0004706DA3	GDARNNM	G N S IL IMIV IG A .	AK MGMHF	IVIA A A P K DIL IWP D S KIL VIE
UniRef90_E2MYP4	GDGANNM	ANSYILVIGE.	ATAGII DV	TICAPEDEOPEODYVD
UniRef90_X5DS46 UniRef90_E4NB79	G D A R F N M	GNSILVTG	L L G M D I	FVAPRTLLÄPGTEHWI RIVAPASLWPAEEVRK
UniRef90_Q31I95	GDG NNI	MCHSYINA	AKQYG FKL	RISAPEDYDPNPRIVE AVASPKGYECTETYVD CAPAEYFPNLVAECQE
UniRef90_S0FP31 UniRef90_UPI0004792C95	G D A R Y N M	V A T S L L H G C	A K M G L D F V A	CAPAEYFPNL VAE <mark>C</mark> QE
UniRef90_M7TTB8	GDILIRYGR	I IVI <mark>H</mark> SIL VIKIL	LIQHYD IVIHII	IQIL VISPQAILISILIPQEII LIA
UniRef90_Q5KNM2 UniRef90_D3E0Z1	G D G N N V C	1 <u> V H S </u> L V K <u>L</u> N S L L L <mark>C G </mark>	LISILIY DIVII LIN C LIG M D M	F V S P R S L A M P E S V K T E A I A C P D E Y R P N E E I K E
UniRef90_E4TGH2	GDG NN	MAHSLMIG	CSKFG TDF	SI ATPKGYEPKFEVIN RI ACPKGYEPNIKKAY YLLSPKELRLSVSDRE RLVAPKAFWPEEDLVA
UniRef90_UPI0004733CAC UniRef90 K2CXH0	GD MINGR	N V A N S L I I I	Y G A L L G V E V	KI ACPKGYEPNI KKAY YI I SPKEI RI SWSDRE
UniRef90_A0KQG4	YLGDARN	и́м G N S L M V	GĂĂKMGMDI	ŔĹŎĂŖĸĂĔŴŖĔĔĎĹŶĀ
UniRef90_Q6YI72	G D I T H S R	V A R S N A D A	LTKLGANVT	F IL IC P

UniRef90_M7NXB4	210 220 230 240 <u>E</u> TKAELA LFHQPELAARDADLIVTDVWASMGQEEEQR
UniRef90_M1F6F7 UniRef90_UPI0003722DD5	
UniRef90_B4D106 UniRef90_A0P6H5	A GILLY S D D H F F Q F D D P M D A A K G A DIL VIL I DIVIW I S M G F F K K F R
UniRef90_Q935Y4 UniRef90_A3CW66	FILIR F R G M F IV V IF H P N IV IF F A ILIR F ILIDIV LIYIVIT R ILIQ R F F P D S A S Y
UniRef90_D3DCP4 UniRef90_A6DBF0	QANEIGAVT GVMHDALE AAT DADV LYT DVWAS MGQDDES R FAKQSGAKI EFLY DVKE AIKNADV VTT DT WVS MGQEKEKR MAEAFGGKI TVT S DT DKAVSGADV LYT DVWVS MGEEDKER
UniRef90_UPI00038102BF	ALAGDRSELLLTEDPVAAVKGVQVVYTDVWASMGEEDKER
UniRef90_UPI000382A2A5 UniRef90_A0A022R3E7	A I A G D R S E I I L T E D P V A A V K G V Q V V Y T D V WA S M G Q E N M E R G V R A I K A G V S K I E I T I D P K E A V K G A D V V Y S D V W A S M G Q E A E Y R L A E R H N A S I WI T P S P V E A V E G A D A V Y T D V W A S M E H E A A R R I A T K T G A K I Q I T T D P V V A V T D A D F V Y T D V W T S M E Q E N V K R I C K E T G A R L T V T D D I D L A V K D A D F V H T D V W O S M I E A W G E R
UniRef90_A5UVX9 UniRef90_W7CZJ2	I A T K T G A KII QII T T D P V V A V T D A D F V Y T D V WT S ME Q E A V K R
UniRef90_Q65TN0 UniRef90_B0UIR6	MGVEVET DMRRGLAGADIVMMLRLQRERMNGSFV FAKQYPGKFQIVNDPVQAAADADVLYTDVWASMGQEGEKR
UniRef90_R5H6R9 UniRef90_UPI00036ABA0F UniRef90_UPI00047812AD	R A R E H I A A E C E I C I G I A A A A H C I A G G D C C C A D C C C C C C C C
UniRef90_14C6S3 UniRef90_F2U457	GVE VFEDMEQGLEGCDVVMMLRLQLERMSGAFVKCKDRGVTFSEARRIEDYIGEVDILYMTRIQKERLEEKLAVGAAGIEQSKHAHLDDVIADTDVLYVTRVQKERFETEAAY
UniRef90_C5ZX14 UniRef90_A7C4T9	FAKISGAKI I VI NNPQEALANADV VI T DT WASMGQENEKR QFDKHV NL T DPRQAVAGADL VST DVWASMGQEENQR
UniRef90_I1JJC4 UniRef90_UPI0004204CB3	YILIT S K GIVIE WE E S A DILIMEIVIA S K C NIV VIY Q T RILIQ K E R E G E KILIY
UniRef90_G2TC28 UniRef90_C7MN79	WARANGGRI EVTS DPFEAVDGADAVET DT WVS MGDEEGER WARANGGAVEV LRDPQEAVAGADCV VT DT WVS MGCDGAAR DAADNGCTUKLITS DVREGVT GADV I YT DVWVS MDEVWAS R
UniRef90_UPI0004734361 UniRef90_A6THH6	K A R E Y G E K D S N D L A A V S G A N V L Y T D V W S S M G E E N K K E T <mark>C</mark> K Q Q G G N T L T E D A A G V K G A D F I Y T D V W V S M K E K W A E R
UniRef90_UPI000348BE9A UniRef90_S5TJ73	PCQ VSYDLDEVLPKSDVVMMLRVQAERMNEAFF PVR VAHDEDAEIPDADVVMMLRVQQERMNGGFY
UniRef90_X1SHN9 UniRef90_U2TED8	P V R V A H D F D A E I P D A D V V M M L R V Q Q E R M N G G F Y K M E D M G V K V F Y D L N E A L P D K D V I Y V L R L Q R E R Q T G G L L L A E S T G G S V E V F T D A A A A A A A A D V V V T D T W V S M G Q E K A Q R
UniRef90_Q8FT39 UniRef90_UPI000372D3FD	P V R T S
UniRef90_C9RB97 UniRef90_UPI0003632EC3	GVE VYYQLEEALEGADVVYVLRLQRERFSEQTF DMAALAPGVELTTDMRKAIRDADVIMMLRVQLERQNEASF
UniRef90_W2EAN3 UniRef90_V4JVG2	DMA A P GVELTT DMR KAI R DA DVI MML R VQLE R Q N E A S F M A K Q Y N G R I MVS S S I E E A V P E A DV I Y T DV WVS M G E E D K F A A R R E G A E I R F T E D P F E A V D G A DV V Y T DV WVS M G Q E S E Q K
UniRef90_I4C853 UniRef90_D7UYU7	SFNSGKI SLTRDPVVAVKGANAVSTDVWASMGQEEEAA QAAESGAEIVVTADPVKAVTDADFIYTDVWTSMGQEKENQ WARERGAHI MLTQNPQKAAENVDCI ITDTWVSMGQEFRAR
UniRef90_E6YG13 UniRef90_Q2JN73 UniRef90_K0KUK9	WARERGAHI MLTQNPQKAAENVD <mark>C</mark> I ITDTWVSMGQEFRAR QARTQGSQVLVLQDPQEAVSGSQVVYTDVWASMGQEAEAE LIQAGMLGNESEELTKELIADSDIYCTRVQEERFKDKEQY
UniRef90_R4YQ36 UniRef90_I4AMP7	EMKDLGANIYFDMEQGLADVDVIIMLRLQKERMSDALL GVK VSYNLRETLEWCDVANVLRIQLERQDVKNI
UniRef90_V4TB12 UniRef90_UPI0003756A00	GVE VYRDLREGIRGADVVMMLRLQRERMNGAYVKLKELGALLYETTNLNEVISELDVLYVTRIQKEFPDPAEY
UniRef90_W7KL08 UniRef90_UPI000375C182	ELNYEVIERDNPYD VISDVDVLYVTRIQKEFPDEMEY GAAHTTSRFDE ALEGADVVMMLRLQMERMNGGYL ESAKNGCSLTITTDPVEAATDADVIYTDAWVSMGQEDQEK
UniRef90_R9TBR3 UniRef90_UPI0003F6305E	E S A K N G C S L T I T T D P V E A A T D A D V I Y T D A WV S M G Q E D Q E K P V R V S Y D F D S E L P D A D A V M M L R V Q Q E R M N G G F F
UniRef90_A1SJJ1 UniRef90_UPI0003794487	P V R V S Y D F D S E L P D A D A V M M L R V Q Q E R M N G G F F A A L A A T G S A T L E P D P V A A V T G A D V V V T D T W T S M G K E E E A V P G G L S E M G V E V F H D M R K G L K D V D L V M M L R V Q N E R M Q G N Y L
UniRef90_B2A2U7 UniRef90_T1KED0	Q R V F T E M G A S C Y Y R V E D A L A D A D V V M A L R Q R E R Q G K T L L Y L I E K Q P F E E N T N L E D A L A E S D V I Y M T R I Q K E R T D L D Y
UniRef90_UPI000472173B UniRef90_A0RQX6	YLEINQG MQNAEVFGCHLCKDMDEAVMGSDAILMLRIQLERSDGPSI
UniRef90_C9YG50 UniRef90_E3CYD2	MQNAEVFGCHICK DMDE AVMGSDAI TMLRIQLE RSDGPSI AGGMGAGSYKTYSDPME ACQGADL I TTDVWTSMGFENEVR EVEALGGRFEPDARKAVEGADL VYMLRIQRERQQDGLF
UniRef90_C8PK33 UniRef90_B1Y9R0	RDCDAFGCPICKSVEEAIEGADVIIMLRIQLERQDGPSV YVQSRGLKLSFHTNVEEVIHELDVYVVRIQKERFIDPLEY RAADLGQAPTVTTDPEEAIDGADVVYTDVWISMGQEDQEK
UniRef90_M0GXS2 UniRef90_R5BV82 UniRef90_UPI0003456DCC	VCEKSGISYFET DNLDDVMPELDVLYMTRVQKERFDEDEF QMQTTGARVQLLEDPAEAVKGTDFVYTDVWVSMVDAWGER
UniRef90_Q605F1 UniRef90_A0RUE9	GVVPY H DENEGER DVDVVIMERUQLERMGSAFI KCRES IDVKLTTDPAEAAAGADIVFTDTFASIHNMDKER
UniRef90_V4X650 UniRef90_R6MT17	A A F G A D V E P T T D P A A V V A D A D V V Y T D V WI S M G Q E D E R A E K L L E K N N C K Y E F S N D L A S S I S D L D V L Y M T R I Q Q E R F S K E E Y
UniRef90_E4RIW1 UniRef90_D0ZF71	GVK VYNDLDKALENVDVVNLRIQMERQESGLFQCQQTGAKLVLTEEVAEGVQGADFLYTDVWVSMKSVWQERELKSKKLQFSVHTELTPEVVGGDVLYCTRVQKERFPSVEEY
UniRef90_B6JX37 UniRef90_A6X568	EIKSKKLQFSVHTELTPEVVGGDVLVCTRVQKERFPSVEEY MADMSVEVFNSMEEGLKDADVVMMLRLQRERMAGSFV
UniRef90_G9MW37 UniRef90_UPI0002F0D9B5	MADMSVEVFNSMEEGLKDADVVMMLRLQRERMAGSFVLVASGQLLVESETLTPELARSDVLYCTRVQKERFESVEYLAERTGARITUTEEVAEGVAGADFVATDVWVSMGEPLQAW
UniRef90_J3P4H7 UniRef90_UPI0004706DA3	TCKEIIGAKIIEMMDDMLKA <mark>C</mark> KDADVIYTDVWVSMGEVWAKR
UniRef90_E2MYP4 UniRef90_X5DS46	RAKQTGAAVSVTADVDEAIAGADVVITDTWVSMGQENDDR PGAPATGTVRISHDMDEAIAGADAVMMLRVQAERMDGGFF AAESSGARITLITEDVAAGVAGADFLYTDVWVSMKEVWAER
UniRef90_E4NB79 UniRef90_Q31I95	
UniRef90_S0FP31 UniRef90_UPI0004792C95	EAKTT GSEILMT QDPVEALANADVI YADT WISM GQEDQEK YAKESGATLSFIEDVMEGTKDADI LYTDVWVSMDEVWKER LIKSKPGQVSTELTPELLARSDVLYCTRVQKERFADLEEY
UniRef90_M7TTB8 UniRef90_Q5KNM2	A FRAGINS TELT DELL'ARS DIVLY TRIVICKERFADILEEY A FRAGINS TEST LT DELL'US RS DIVLY TRIVICKER FENILEY A NA A NA STITUTE DELL'ARS DIVLY TRIVICKER FENILEY
UniRef90_D3E0Z1 UniRef90_E4TGH2	AFRAGIRFTESFTLTDELVSRSDVLYVTRVQKERFENLEY YAKANNSTITLITSDLEEAVSGADVIYTDVWVSMGDEEEKR YAMDNGKTIHFNNDPYEAVRGADIIYTDVWTSMGQENEIR
UniRef90_UPI0004733CAC UniRef90_K2CXH0	E
UniRef90_A0KQG4 UniRef90_Q6YI72	A E WA G E F N S V D S W D E V I K N S D V V M L L R V Q H E R H E N F A G

UniRef90_M7NXB4 UniRef90_M1F6F7	250 260 270 280 KREQAFFQVNDSLMQLAAPDALFMHCLPRGEEVSASVIDG IKLLMPYQVNAAMEKTGNPRARFMHCLPAFHNTDDEVFES
UniRef90_UPI0003722DD5 UniRef90_B4D106 UniRef90_A0P6H5	R E Q A F F Q V N D S L M Q L A A P D A L F M H C L P R G E E V S A S V I D G I K L L M P Y Q V N A A M E K T G N P R A R F M H C L P A F H N T D D E V F E G P S L G E Y F G L T K Q R A E R L K P E A L I M H P G P R G V E I D S E L A D C I K D F A D W Q V D T D M M K L A N K D A L F M H C L P R G E E V T S E V I D G V K A F T P Y Q L N Q A L L E K A D P A A I V L H C L P A H E E I T A E V L E G Y N V A S S Y R I T T D L L D G V K E R L M I L H P L P R A G E I D P A V D R T
UniRef90_Q935Y4 UniRef90_A3CW66 UniRef90_D3DCP4	VKAFTPYQLNQALLEKADPAAIVLHCLPAHEEITAEVLEG YNVASSYRITTDLLDGVKERLMILHPLPRAGEIDPAVDRT
UniRef90_A6DBF0 UniRef90_O86132 UniRef90_UPI00038102BF	ISDFKGFEVNSELMNLAKKDAIFLHCLPRGYEVSEEVFEK IKLLKPYQVNMOLVKKTNDNVIFLHCLPAFHDVTDEVFRS
UniRef90_UPI000382A2A5 UniRef90_A0A022R3E7 UniRef90_A5UVX9	PSAQEYFKSWPERLALAAPDAIVMHPGPMGVEIDSQVADG RKVFQGFQVDELMKLAGPKAYFMHCLPRGVEVTDGVIEA
UniRef90_W7CZJ2 UniRef90_Q65TN0 UniRef90_B0UIR6	LADFEGYAVTKGLVAHAKADYHFLHCLPAHEEVSSAVIDG LNLLMPYQVNTDLMKRTNPNVKFMHCLPAFNCTEDVFES
UniRef90_UPI00036ABA0F	K Q I F K G Y Q I N D A V M A S A K S D A M V M H C L P A H E E I T A K V F E Q V A A F E S Y R V T A E L M G H A K D N A I F L H C L P R G Y E V D A D V I D G
UniRef90_UPI00047812AD UniRef90_I4C6S3 UniRef90_F2U457	EKFRSIYRLEAGMLKDAKPSMKVMHPLPRVTEIAPDVDHT EHVRGSYQVTAALMTRAKERMIVMHPLPRVDEISPDVDTD
UniRef90_C5ZX14 UniRef90_A7C4T9 UniRef90_I1JJC4 UniRef90_UPI0004204CB3	LQVF E P Y Q V N T Q L M S L T K P D A L F M H C L P R G E E V S A E V L D G E E A R G K Y L V N Q D V L N V M Q K H A V V M H P L P R L D E L T V D V D S D
UniRef90_G2TC28 UniRef90_C7MN79 UniRef90_UPI0004734361	HALLRPY QVITAPLIMAAAAAAAAALF MHCLPRGEEVTEDVIDG
UniRef90_A6THH6 UniRef90_UPI000348BE9A UniRef90_S5TJ73	A A E Y R V T A E M G R A D K D A F M H C P A F H D T T E Q V F E G P S G E P Y R Q V T A E M G R A D K D A F M H C P A F H D T T E Q V F E D G C V K D F A D W Q V D T D M M K A N K D A A F M H C P A H E E T A A E V L E G T A D W Q V D T D M M K A N K D A A F M H C P A H E E T A A E V L E G T A D W Q V D T D M M K A N K D A A F M H C P A H E E T A A E V L E G T A D W Q V D T D M M K A N K D A A F M H C P A H E E T A A E V L E G T A D W Q V A D P A A A V L H C P A H E E T A A E V L E G T A D W D A D A V M H C P A F H D V T D A V D E K W V E V A R P D A V M H C P A G Y E V S E E E V F E K S W Y E V A R P D A V M H C P A G Y E V S E E V V F E K S W Y E V A A D A F A H E E T D A A V A D A D A V M H C P A F H D V T D A A V A D A D A V M H C P A F H E E T D A A V A D A D A V M H C P A F H D V T D A D V A D A D A V M H C P A F H D V T D A D V A D A D A D A V M H C P A F H D V T D A D V A D A D A D A D A D A D A D A D
UniRef90_X1SHN9 UniRef90_U2TED8 UniRef90_Q8FT39	PSLREYYGITLERLEKAKKDVVIMHPGPRGVELDPRVADG LATFGDYQVDAALMAQAAPGAIFLHCLPRGYEVAADVIDG
UniRef90_UPI000372D3FD UniRef90_C9RB97 UniRef90_UPI0003632EC3	LEELEPFAVTEELMDLAQPGAKFLHCLPRGEEVDSEVIDG EEYARLYGUNRERLRLAQPDALVMHPGPMNREIAAEVAEL
UniRef90_W2EAN3 UniRef90_V4JVG2 UniRef90_I4C853	ERVKPYQVNTEMLRKTGNKDVMFLHCLPSFHDTTDEVFRS RRLLSPYQVNAKLMERASSRAIFHHCLPRGEEVTDEVIEG
UniRef90_D7UYU7 UniRef90_E6YG13 UniRef90_Q2JN73	TRMYPTYQVNTALEAYAKPDYKFLHCLPAHEEVTAEIIDG RSIFQPYQVNEALMAYAKPDALFHCLPRGEEVVDAVIDG
UniRef90_K0KUK9 UniRef90_R4YQ36 UniRef90_I4AMP7	LRLKDSYLVDNKLLSYAKQHMAVMHPLPRVNEIREEVDFD PSEGEYFKLYEAKLALAKPDAIVMHPGPRGVEIDSAVADG PSURFYYGUNKEULDSUNKEUVLMHPGPRGVEIDSDVADS
UniRef90_V4TB12 UniRef90_UPI0003756A00 UniRef90_W7KL08	PS
UniRef90_UPI000375C182 UniRef90_R9TBR3 UniRef90_UPI0003F6305E	PSQREYFRNFMERLRKAAEDVITVMHPGPMGI EI ESI I ADS
UniRef90_A1SJJ1 UniRef90_UPI0003794487 UniRef90_B2A2U7	PSHREYYGL SRAREKMLRDDTVVLHPGPMGMEINDHVADL ARTVAPYSLITTELLGRADPDAIVLHCLPRGKEIEAAVLDG PSVREYFHFFKEKLALAKPNALIMHPGPMGVEIDSDVADD PSLREYYGINQERFKLAKKDALLLHPGPRGLELTSELMNS RNWTEQFIITPELMSKAKKKMIVMHPLPRNEEISPAFDKD ADYHLQYGLTLEREQQMKQGSIIMHPGPVNVEIASELVEG
UniRef90_T1KED0 UniRef90_UPl000472173B UniRef90_A0RQX6	RNWTEQFIITPELMSKAKKKMIVMHPLPRNEEISPAFDKD ADYHIQYGLTLEREQQMKQGSIIMHPGPVNVEIASELVEG REYSKYFGLTKTRMQKAKDDVIJLHPGPRGVEINSDVADD
UniRef90_C9YG50 UniRef90_E3CYD2 UniRef90_C8PK33	RKAFAAW <mark>C</mark> VDRKMMAVAAPNAII FMH <mark>C</mark> LPRGEEVEAEVI DG PSVDEYHREWEEI MKII ARPGAII AMHPGPRGVEII ASEII ADG
UniRef90_B1Y9R0 UniRef90_M0GXS2 UniRef90_R5BV82	EKVKGSYRITVDMLKNARRHLIILHPLPRVDEIDHRVDAT
UniRef90_UPI0003456DCC UniRef90_Q605F1 UniRef90_A0RUE9	DRVKDSFVLDARRMALAKEKMAVLHPLPRVNEI LKEVDAD IALLKPYQVNSALMATGKPRARFMHCLPSYHNVTDEVFES PSEHEYFQRFEKRLEKARPDVIVMHPGPRGIEIDSAIADG ERKFPKYRVNAPLMKKAADDAIFMHCLPRGQEVDGEVIDG
LINIDATOO VAVEEO	ERKFPKYRVNAPLMKKAADDAIFMHCLPRGQEVDGEVIDG LAAFDGFQVNADLLADTDAKVLHCLPAHRGEEITDDVLES EKQKYVFVLDKEKLAKAKEDMIILHPLPRVNEITVDIDDD PSIREYYGMNKERLQRIGKKAVIMHPGPMGIEIESSVADS
UniRef90_D0ZF71 UniRef90_B6JX37 UniRef90_A6X568	ITQLLPYQVNQTLQLSGNPQVKFLHCLPAFHDETDEVFES ERLKDSFIIDNSVLAWAKPNCIVMHPLPRNREINEEVDFD PSVREYFRFYKEKLKVAKPDALVMHPGPMGVEIASDVADG
UniRef90_G9MW37 UniRef90_UPl0002F0D9B5 UniRef90_J3P4H7	E K V K D S Y R V D N A T L K N A K S S M V V M H P L P R N E E V A E E V D F D E Q R I G L L T P Y D V L R A T G N P D V R F L H C L P A F H D V T D E V F E S D A V R G S Y R V D N A M L R H A K P N M V V M H P L P R N E E I A E E V D F D
UniRef90_UPI0004706DA3 UniRef90_E2MYP4 UniRef90_X5DS46	VKELKPFQVNMNAIKVAKPEVLFMHCLPAFHDVTDEVFNS RTPFLPYQVNAELMAKANEDAIFLHCLPRGNEVTAEVIDG PSHREYYGLSRARLDALKDGAIVLHPGPMGMELNDSVADA
UniRef90_E4NB79 UniRef90_Q31I95 UniRef90_S0FP31	LALLKPYQVS METRATGNPAVKFLHCLPAFHDCTDELFES EKAFKDYQVNTAMMQQANPDALFMHCLPRGEEVSAEVMDA LKIFMPYQINSRLFSKAKEDAIFLHCLPRGYEVTEEI IDG
UniRef90_UPI0004792C95 UniRef90_M7TTB8 UniRef90_Q5KNM2	ERLKDSFIIDNKTLRNAKSSMIVMHPLPRNAEIGEEVDFD EAVKDLYVINNDVLEKAKESAIVMHPLPRVNEIDPEVDDS
UniRef90_D3E0Z1 UniRef90_E4TGH2 UniRef90_UPI0004733CAC	EKQKYVFVLDKEKLAKAKEDMI I L PPLPRVNEI TVDI I DDD PSIREYYGMNKERLQRIGKKAVIMHPGPMGIELESSVADS ITQLLPYQVNQTLQLSGNPQVKFLHCLPAFHDETDEVFES ERLKDSFI I DNSVLAWAKPNCI VMHPPLPRNREI NEEVDFD PSVREYFRFYKEKLKVAKPDALVMHPLPRNREEVAEEVOFD EKVKKDSYRVDNATLKNAKSSMVVMHPLPRNEEVAEEVOFD EQRIGLTPYDVLRATGNPDVRFLHCLPAFHDVTDEVFES DAVRGSYRVDNAMLRHAKPNMVVMHPLPRNEEI AEEVDFD VKELKPFQVNMNAI KVAKPEVLFMHCLPAFHDVTDEVFNS RTPFLPYQVNMANAI KVAKPEVLFMHCLPAFHDVTDEVFNS RTPFLPYYGLSRARRLDALKDGAI VLHPGPMGMELNDSVADA IALLKPYQVSMETRATGNPAVKFLHCLPAFHDVTDEVFES EKAFKDYQVNTAMMQQANPDALFMHCLPRGEEVSAEVMDA LKIFMPYQU NSRLFSKAKEDAI FLHCLPRFHDVTDEVFES EKAFKDYQVNTAMMQQANPDALFMHCLPRGEEVSAEVMDA LKIFMPYQU NSRLFSKAKESAI VMHPLPRNAEI GEEVDDS ERLKDSFI I DNKTLRNAKSSMI VMHPLPRRNAEI GEEVDDS ERLKDSFI I DNKTLRNAKSSMI VMHPLPRRNAEI GEEVDDS RADFKDYQVNQNLI DMADDDVI FMHCLPRGEEVSAEVIDG ERLKDSFI I DNKTLRNAKSSMI VMHPLPRRVEI DPEVDDS RADFKDYQVNQNLI DMADDDVI FMHCLPRGEEVSAEVIDG ERLKDSFI I DNKTLRNAKSSMI VMHPLPRRVAEI GEEVSDDVI ES DKFFNGFTI DNNLVSNAEKDAI I HHCLPRGEEVSDDVI ES DKFFNGFTI DNNLVSNAEKDAI I HHCLPRRSEEI AEEVDDS RADFKDYQVNMDI NATKNPDVKFMHCLPRRSEEI AEEVDDS NRVKNRFI LNPDLDKYAGKKTI FMHCLPRRSEEI AEEVDDS DKFFNGFTI DNNLVSNAEKDAI I HHCLPRRSKEI TDEVFES DKLPRSEEVSAEVIDG
UniRef90_K2CXH0 UniRef90_A0KQG4 UniRef90_Q6YI72	N R V K N R F L N P D L D K Y A G K K T F M H P L P R V L E A E E V D K D V K L M T P Y Q V N M D N A T K N P D V K F M H C L P A F H N D T E D V F E S E S Y H E R Y G L T E A R E Q L M K E N A I M H P G P R G V E A D T L I E C



UniRef90_Q6YI72

HaiDatoo Kollico	1
UniRef90_K6UJG2 UniRef90_U4WFS1	KHFLITTEGLSQQTLTKII LDTASSFFSDTTSPLTE RGKNTLQIDEWSREEMLELLHYASQIKSMQKSQPLA
UniRef90_UPI0003653068 UniRef90_O27464	MNQNSLYSINQLSEEEI LRI LDMAECFERQPNRDFLQ NVISLKD <u>F</u> KREDLEFILR <u>E</u> AEKMEGEKSSS <u>AL</u> R
UniRef90_UPI0003C7E2A1 UniRef90_R6TKE2	R H L L R D D D L S P A E Q A E V L A L A A R M K A E P H R P L E G K H L L K L S D W S G E E L T A A L D L A D R L K H G L P H R L L D
UniRef90_UPI00036DCAE0 UniRef90_X0S7F2	MTTRHFLTL LDLTPDELNKLIHRAVELKQGELYEPLK
UniRef90_UPI000473591C	L VN K N F L S SL D L S K E E F L E I L D L A K N F K N K T L E L K F K
UniRef90_G8TJ25	QLSVK HLLGI RDLT RQDI QLI LDTATQFKEVKKVPSLR
UniRef90_W0EUU6	LSTNHLLGIRDLTKGDISLFLDTAAQFKEVKKVPSLR
UniRef90_R6XPC4 UniRef90_A6UWP3	NEKGRAFILILKDYTPEEILYLVDLKEKKKKGIIALDHYR HFI SI RDIGKKEI LNI LEEAEKMEEEKHSNIMN
UniRef90_UPI0003642848 UniRef90_U2WA68	S F N L R N R S F L T L M D F T P K E I Q Y M L D L A R D L K A G L E Q Q K L Q L S G R D F L K L L D F T A E E I R Y L L D L A K R L K A E K K A A R F Q
UniRef90_UPI000417A63F UniRef90_D1AW.I3	KHLLTTKDLSRDEAELILDLTGQMREVPKLPTLRNLQGKHEIKLIDESTEEVRYILDLSKKEKELKPHRYLE
UniRef90_E6W7F8	S Q L N Q R H F L R L L D F T P A E I D Y L L R L A G E L K H A K K T Q Y L K
UniRef90_D8GNJ2	NERNRNFLTLMDFTTKEINFMLDEAKDEKAGTEQPKLK
UniRef90_F4GNT5	RHELQFRDLSKTELQYVLDRAQKEKRYEPHHTLH
UniRef90_W7QAV1	MATRHELTLLDLSPEELHYLIQRALTIKNGPTYSPET
UniRef90_Q5V213 UniRef90_N1V785	RHFL VDT DLSPAEQAEVLDLAAAMKQDRYRPLAG
UniRef90_UPI0003667A0C UniRef90_B4S9U7	10
UniRef90_M1NY02 UniRef90_R6TJH5	R H F L A D D D L S P A E Q A E V L E L A A E L K Q Q P R R P L E G A V N L K G R S F L T L N D F T P L E L R Y L L D L G H N L K A K R R A P A L Q
UniRef90_E8UEU6 UniRef90_Q5WEX3	HLLSTEGLPKDIIYQILDTAKEFEESKKYPYLH TKLTGKHLLTLLDFTPTEVAQLLEEAKALKAGEPHTLLA
UniRef90_S3UXH3 UniRef90_E7GBD2	HKNILDTEQFSKEDLDFLVRQTREMEAGKAFGILE
UniRef90_A7MIU6	SAL Y Q K S F L K L L D F T P A Q I H L L L E L S A K L K S D K K N Q K L A A F N L R N R N F L K L L D Y T P K E I Q F L L D L S M D L K A G T E Q K R L S
UniRef90_UPI0002E8D001 UniRef90_K7ZCN2	NLKQRSFLTLKDYSQEEIRYLLDLAHKIKKSKKEKTLE SALYQKSFLKLIDFTPAQIHLLELSAKLKSDKKNQKLA AFNLRNRNFLKLLDYTPKEIQFLLDLSMDLKAGTEQKRLS KHFLDLDQIDSSILREIJEQAKGFKLADRERPLD NFKGKDIVSLDQFSQKDIKILFDEVPKMRNARPSKIJE
UniRef90_K2ABJ8 UniRef90_UPI000475439D	RHLLSIEGLPRDVLLHIMDTAQGFREVKKVPLLR
UniRef90_UPI00037D6F35 UniRef90_Q0VTM5	R H L L S I E G L P R D V L L H I M D T A Q G F R E V K K V P L L R K H L L S I A D L S A E E I T S L L D E A D N F R E V K K L P T L R K L R H F L T T E H L P R S L L E D I L D T A A S F R A L K K V P L L R
UniRef90_R5EGT6 UniRef90_R9SHQ5	F N L K N R S L L S L V N H T P E E I D Y L V S L A E D L K A G T E R P Q L R S L L S I T D L E D N I E N I I N L A S Y F K D G K F D D P L K R H F L G I E G L N K A Q L R A I I A K A E T F F D D K N R P E L E K G R S V L K L L D F T P D D I R F L L K L S A S L K Q A K Y D Q R L K M Q F K H F L Q F N D F C R D E Y E Y L F E R A K E F K Q Y R Q Y W P L S
UniRef90_Q4FUA5 UniRef90_A6X864	RHFLGIEGLNKAQLRAIIAKAÉTFFDDKNRPELE KGRSVIKIIDETPDDIREIIKUSASUKQAKYDORIK
UniRef90_F9ZGL2 UniRef90_R4W555	MQFKHFLQFNDFCRDEYEYLFERAKEFKQYRQYWPLS
UniRef90_UPI000348B2CF	QLQGRDLLGTADLNPPEITSLLELARQLKSKELV IQC
UniRef90_A7HQ43 UniRef90_UPI00029B0B68	LRHRPFLKELDFTPEEFRHLLELSASVKAARRQRLR
UniRef90_A6CPR4 UniRef90_F8ADJ0	ESKKHILDIASLAPEEI IFILDTAEALKELPKVPTLR
UniRef90_I3VYM7 UniRef90_C7R3R4	R H F L A D A D L N P Q E Q A D V L N L A L N F A T N R H Q P F A G
UniRef90_UPI0003603924 UniRef90_UPI00046EB82D	MATRHFLTLMDLSSEELKQIIIERALELKQGITTDLFR SVTLKNRHFLKLLDYSADEIHYLLTLARQLKHDKHRPRLT
UniRef90_I0ALP0 UniRef90_R5QY59	S L S S R H L L G L Q G V P K E D I Q L I L D T A T T F R E V K R V P T L Q L K G R H F L T L K D F T P E E I I Y L L D L A A E L K E K K K K G I L R
UniRef90_H3B664 UniRef90_A9A594	SVNLKGRNLLTLKDFNAEELKQLLWTSADLKHRIKEKLLQ
UniRef90_K5XJ61 UniRef90_G5F4I1	AFNLHNRHLISLITHHSERELRYLLDLARDLKSGTEHQHLK
UniRef90_G3IX51	MNPRHEISLLDLSGDELRSLLNRGUVLKNNRDPQPLK
UniRef90_K4IPD7 UniRef90_I9W3U7	K HYL K F D D L T R D E V V Y V L E R A A K F K N Y E K WH P L H
UniRef90_M7N769 UniRef90_D1NTX9	RHMLRDDDVNHEEQKQI LELGMKFREDRHYPFAG
UniRef90_A1S263 UniRef90_A6Q1W6	K H L I S K E L T Q K Q M L D L L T L A K E K A D P Y S R A L A R H F L T L K D F T K E E I L E M I E L A R S L K A Q T K R P Y M E
UniRef90_UPI00036C2BE8 UniRef90_UPI000360F401	T S WT R R H L S L D F T T E E Y E T L Q T A A G F R K V K K V P A L Q R H F L K D T D L S P A E Q A E V L E L A V R M K A A P Y S Q P F A
UniRef90_Q0EX01 UniRef90_V9HL43	KHLFGIADLSREQIEYLVNMGESFRSIKKAPTŪR NLYQRSFLKLIDFTSTEVIALLDLAAOIKSDKKNHYLI
UniRef90_C4LID9 UniRef90_A0QWS1	RHFLKDDDLSSSEQAEVLTRALEIKKDPFRPLEG
UniRef90_U2TID6 UniRef90_UPI0003672139	KHEIDINDE TADDITQI LIDTAKSERTIKKUPALIR
UniRef90_UPI00039FAEF9	KNLFSMONLTOKELKNILIKRALELKNGARPKNRE
UniRef90_B8ER56 UniRef90_C9YYX2	HALAGRHELKELDET A E E E R GLIELA VELKA A KKA QRLR
UniRef90_H0A6D3 UniRef90_B8FH29	H K H L LA L Q G L E P P Y II A D L L D L A E S Y R S G K Q R D L L K D L T T L S D L S K E Q L D Q L F A N A R D H K Q G V Y E P V L Q
UniRef90_I0R321 UniRef90_D3W8I3	K
UniRef90_J1JUV8 UniRef90_U5HGA6	F R H R H L L G I K D L N S Q D I T L L L D R A N E N V A D K K K S T L R S S V F S R R H V L S V R S F N R D D L H A L F G V A S E L R R Q V P V D L L R
UniRef90_A6TWW1 UniRef90_S0J1L8	K G R S V L K L D F T P D D D R F L L K L S A S L K Q A K Y D Q R L K M Q F K H F L Q F N D F C R D F
UniRef90_V5PPU8 UniRef90_C6C3Z7	KHYLQFSDLTLDEYDYVLERTKKFKNYETYHPLH
OIIII\GI30_00034	N T T T T T T T T T T T T T T T T T T T

	50	60	70 00
UniRef90 K6UJG2	GRT V MN L FFENSTR	TRTTFEAAAK	70 80 RIL IS A NIV L IN II DII A R S
UniRef90_U4WFS1	GKTLAMI FTKSSTR	TRVSFEVGMY	QLGGSSLFLTD KDLQ
UniRef90_UPI0003653068 UniRef90_O27464	GRVAATLFFEPSTR GKILGMMFYEPSTR	TRLSFETAVN TRLSFETAMK	RLRGRVIGFSDARASS RLGGDVVGFADTGATS
UniRef90_UPI0003C7E2A1			
UniRef90_R6TKE2	GKTLGMI FEKSSTR	TRVSFEVGLH	DLGGNGL FLSSRDLQ
UniRef90_UPI00036DCAE0 UniRef90_X0S7E2	NQVLAMIFEKSSTR TKIMA <mark>C</mark> LFFEASTR	TRIVSFEAGMA	DLGGSPM IMDSGDTQ DLGGNGL FLSSRDLQ QFGGHAL FLSSRDTQ RLGGSVLGFADVIVSS
UniRef90_UPI000473591C	DKVLGLIFDKSSTR	TRVSFQVAMS	RLGGTTI DLNP NSS
UniRef90_H0KGH9	GKNI ALIFEKTSTR	TRCAFEVAAY	DQGAQ VTYIDPNSSQ
UniRef90_G8TJ25 UniRef90_UPI000466CF4E	DVTI VNL FFENSTR NQTL A MI FEKSSTR	T R L S F E I G M T	R L S A D T I N F T A S A S S Q L G G H A L F M S P D A T Q
UniRef90_W0EUU6	DVTIVNLFYENSTR	T R V S F A V G H T R V S F E V G H T R V S F E S A M L T R L S F E S A M L T R V S F E V A A Y T R I S F E L A E K T R L S F E L A E K T R L S F E L A A K T R L S F E L A A K T R L S F E L A A K T R C S F F T A A H	RLS A DTINFT A S D S S
UniRef90_R6XPC4 UniRef90_A6UWP3	GMNVALIFEKTSTR GKILATLFYEPSTR		DMGMGTTYLAPSA S RLGGTVVGFTDLANTS
UniRef90_UPI0003642848	GKKIVILFEKDSTR	TRCSFEVGAY	DQGALLTYLGPTGSQ
UniRef90_U2WA68 UniRef90_UPI000417A63F	GKNI ALIFEKNSTR GRTVVNLFYEDSTR	TRCSFEVAAY TRCAFEVAAAR TRTSFETAGM TRCSFEVAAGM TRCSFELAGAY TRCAFEVAAAY TRCAFELAGAK TRMSFSAALS TRVSFEAGMY TRVSFETAMA	DLNL GTTFLSPEGSQ RLSADVVNF_SAKTSS
UniRef90_D1AWJ3	GKNI VLLFEKTSTR	TRCAFEVAGM	DLGM GVTYLDPGSSQ
UniRef90_E6W7F8	GKNI ALI FEKDSTR	TRCSFEVAAY	D Q G A N V T Y L G P S G S
UniRef90_R5G2B0 UniRef90_D8GNJ2	GKTV <mark>CN</mark> LFFEPSTR GKNIVLLFEKDSTR	TRCAFEVGAK	RLSCDSLNAGGSAS S DQGAN VTYLGPTGSQ
UniRef90_E1RJQ8	GKLVALLFFEPSTR	TRMSFSAALS	RLGGDVITV DSVEGS
UniRef90_F4GNT5 UniRef90_F8AZT8	DRNLAMVFEKASTR GRSVVLLFEKPSTR	TRUSFEAGMY	QL G G S V I H L T T G D S E L G G H P V MV D A A T T Q
UniRef90_W7QAV1	NRTLAMI FEKSSTR	TRVSFETAMA	QFGGHAL FLSPRDTQ
UniRef90_Q5V2T3 UniRef90_N1V785	DTLLGLLFFEPSTR PQTVAVFFDKTSTR	I K M S F T T A M K T R V S F A A G L A	RLGGDIVDM GSVESS ELGGSALIVNPGE S
UniRef90_UPI0003667A0C	D D T	$T \cap C \cap C \cap A \cap A \cap A \cap A$	
UniRef90_B4S9U7	DKTVAMIFSKPSLR PLSVAVLFDKTSTR	T R V S F E L G I H	GGYAINLDGQAIG QLGGHAIVVDGAGSQ QEG AHVTYLDAGSSQ RLSADVFNLNISSSS QLGGHAL FLSSRDLQ RLGGHAL FLSSRDLQ RLGGAVVT5VSSS
UniRef90_M1NY02 UniRef90_R6TJH5	GKHI VL FEKTSTR	TRCSFEVAAT	QEG AHVTYLDAGSSQ
UniRef90_E8UEU6	GKNVFNLFFENSTR	TRTTFELAAK	RLSADVFNLNISSSS
UniRef90_Q5WEX3 UniRef90_S3UXH3	GKSLGMIFENASTR GKLLASLFFEASTR	TRLSFEAAMF	RLGGRVISTVGFOFSS
UniRef90_E7GBD2	GKNI VLLFEKTSTR		
UniRef90_A7MIU6 UniRef90_UPI0002E8D001			
UniRef90_K7ZCN2	GKILALIFEKPSTR	TRVSFEAGMK	RLGGEVIMLNSSDL QIGGQTVELLNPQDFS
UniRef90_K2ABJ8 UniRef90_UPI000475439D	GKIVVLLFYEPSSR GKSVFNLFFENSTR	TFGSFSTAVK	QI G G Q T V E I L N P Q D F S R L S A D V F N L D I Q R S S
UniRef90_UPI00037D6F35	GKSVFNLFFENSTR GKTVFTLFYENSTR	TRSSFELAAK	WLSADTVNI SASTSS
UniRef90_Q0VTM5	GKTVVNLFFESSTR	TRVSFEAGAK TFGSFSTAVK TRTTFEIAAQ TRSSFELAAK TRSTFELAAQ	WLSADTVNI SASTSS RLSADVLNLDIAKSAT
UniRef90_R5EGT6 UniRef90_R9SHQ5	G N O II A II I I F F N I O I K	IKSAFFIVIAAT	FUGGTAUFU STNDU
UniRef90_Q4FUA5	GYTVMNLFFEPSTR	T R V S F E V G M Y T R T T F E V A E K	RILIGANIV LINII IDII ERS
UniRef90_A6X864 UniRef90_F9ZGL2	GKNI ALI FEKDSTR DRTLAMI FDKNSTR	TRIGFEVAAY	DQG AHVTYLGPTGTQ QLGGAAIYL ST <u>R</u> DT
UniRef90_R4W555	NQTLGMVFEKPSTR	TRUSFETGMT TRVSFETGMT TRVSFETVAMY TRVSFDVAMR TRVSFDVAMR	QLGGHAIFLGDSDI
UniRef90_UPI000348B2CF UniRef90_A7HQ43	SKVLGLLFYKASTR GRLLAMIFEKPSTR	TRIVISFTIVIAMY	RLGGQVIDLNP NVT QLGGETLLLNGGD T
UniRef90_UPI00029B0B68	GRNI A VI FEKTSTR	TRCAFEVAAH	QQG_AHVTYLDPSGSQ
UniRef90_A6CPR4 UniRef90_F8ADJ0	OKIII ANLIFFENOIK	T K C S F E M A E R T R L S F E K A A K	KILIGILIQIVI PELI IGI 55
UniRef90_I3VYM7			
UniRef90_C7R3R4	PQGVALIFDKPSTR GKVLGMIFEKSSTR	TRVSFSVGVA	ELGGYPLTIDSSG S QMGGSAL FLSPRDTQ
UniRef90_UPI0003603924 UniRef90_UPI00046EB82D	GKNI ALI FEKSSTR	TRCAFEVAAF	D Q G A Q V T Y L G P S G S
UniRef90_I0ALP0	GKTVVNLFYESSTR	TRUSFELAEK	RLSADALNFAVSTS S
UniRef90_R5QY59 UniRef90_H3B664	GKNVALIFEKDSTR GRSLAMIFEKRSTR NKTLTMIFQKPSTR GKNIALIFEKTSTR GKNIVLLFQKTSTR GQVLAMIFEKSSTR	TRISTETGFA	EEGGHPVFLL SSSH H MSSCODS SSPRGSSSSH H MSSCODS SSPRGSSSSSTAAA SSSH H MSSCODS SSSTAAA SSSH H MSSCODS SSSTAAA SSSH H SMSSCODS SSS SSS SSSH H SMSSCODS SSS SSS SSS SSS SSS SSS SSS SSS SSS
UniRef90_A9A594	NKTLTMI FQKPSTR	TRVSFEIGMS	QLGGYAVNL SSNDM
UniRef90_K5XJ61 UniRef90_G5F4I1	GKNI VLL FOKTSTR	TRCAFEVGAS	DLGM GVITYLDPNSSO
UniRef90_G3IX51	GQVLAMI FEKSSTR	TRISFESGMS	HFGGSAL FLSPRDTQ
UniRef90_K4IPD7 UniRef90_I9W3U7	DRTLAMIFEKSSTR	TRLSFEAGVH	QLGGHAVFLN TRDS
UniRef90_M7N769	GRTVVNLFFEDSTR	TRUSFEAAAK	RLSADVINE SAKGSS
UniRef90_D1NTX9 UniRef90_A1S263	F Q G V IA V L IF D K P S T R G K S V V MI I F F K P S I R	TRVSFDIGIN	KLIGGYPILVI DKSS S KLIGGH <mark>C</mark> LIYII D OONG
UniRef90_A6Q1W6	NKTLAMUFEKSSTR	TRUSFEVGLY	
UniRef90_UPI00036C2BE8 UniRef90_UPI000360F401	GRVVANMFFEPSTR RRTVAVIFDKTSTP	TRSSFELAAK TRVSFATGIA	RLSADILINF SPGTSS
UniRef90_Q0EX01	GKT I INL FFENSTR	TRTSFELAGK	RÜSADVINISASTSAT
UniRef90_V9HL43 UniRef90_C4LID9	GKQIIALIFEKTSTR	TRESEDAGLA	D Q G A F T T Y L E P S G S
UniRef90_A0QWS1	GRTITTMFYENSTR	TRVSFEVAGK	WMS A DVI NV SASGSS
UniRef90_U2TID6	GRTI VNLFLEPSTR	TRSSFELAEK	R L S A D S L N M G G S T S S
UniRef90_UPI0003672139 UniRef90_UPI00039FAEF9	DLFVSNLFFFNSTR	TKKSFEVAFR	KLGMNLINFE ADHS
UniRef90_B8ER56	GKVLAMI FDKPSTR	TRUSFDLAMR	ELGGETVMLTGKE
UniRef90_C9YYX2 UniRef90_H0A6D3	GRTIINIFEKTSTR	I RCAFEIVAAA TRTSFEILAGK	DUGARIVYLDPAG S RIGADVINMSVSOS S
UniRef90_B8FH29	GKTAGLVFDKPSTR	TRVSFEAAMI	QLGGGTVPMYLQSGDT
UniRef90_I0R321	PQTVAVIFDKTSTR	TRVSFAVGLA	ELGGVPL IDSGVSQ
UniRef90_D3W8I3 UniRef90_J1JUV8	GRTQI NLFFEASTR	T Q S S F E L A G K	RLGGDVMNM SVANSS
UniRef90_U5HGA6	GRVLCTLFYEPSTR	TSSSFEAAMC	RLGGQVVALTPET S
UniRef90_A6TWW1 UniRef90_S0J1L8	GKNI VLLFEKASIR GKNI ALIFEKTSTR	TRCSFEVAAL	DLGMH VITYLDPSGSO
UniRef90_V5PPU8	DRTLAMI FEKSSTR	TRUSFEAGIH	DLGMH VTYLDPSGSQ QLGGHAVFLN TRDT DQGAQVTYLGPSG S
UniRef90_C6C3Z7	GKN I A LI FEKDSTR	IRCSFEIVIAAY	DQGAQVTYLGPSG S

	400
UniRef90_K6UJG2	90 100 110 120 <u>S</u> TSKGE <u>T</u> LRDTLWNLAMA <u>A</u> DLFVVRHSSSGA <u>AH</u> FIAKDV <mark>C</mark>
UniRef90_U4WFS1	ILIGRGETII IS DTAKII LISSYIVIDGII IMII IRTHAHENIVVIEILIAKHA
UniRef90_UPI0003653068 UniRef90_O27464	TSKGESLH DTIKMVSNYADLIIMRHFLEGAAKYASE VT AVKGESL ADTAMMLSAYSDAIVIRHNLEGAA RYISDVV
UniRef90_UPI0003C7E2A1	A GREEPV FOTARVIGRMVSAVVWRTVAO A GUETMASV
UniRef90_R6TKE2 UniRef90_UPI00036DCAE0	III G R G E PIVIG D L A RIV LIS R Y II ID GILIMILIR L Y K Q S E IVI — E A II IA E Y
UniRef90_X0S7E2	A G G K G E T IL IA D T II IR T IV IE R Y A D IV I V IM R H P IL ID G S A R IV IA A E F S S
UniRef90_UPI000473591C	OILIGRGEPIVIK D.T.A.RIVI.IS.K.Y. <mark>C.</mark> DIVI.IAII.IR.T.F.K.Q.SIVI.IF.F.Y.A.K.W.S.T.
UniRef90_H0KGH9 UniRef90_G8TJ25	IG HKESMKDTARVLGRMYDAIEYRGFKQEIVDELAAYA VSKGETLLDTVNNILSMKVDMVVMRHSASGAPHFLAKHIP
UniRef90_UPI000466CF4E	L G R G E P I E D S A K V I S S M A D G I MI R T F G H D I V E T F A Q Y
UniRef90_W0EUU6 UniRef90_R6XPC4	VSKGETLLDTVNNNLSMKVDMVVMRHSATGAPHFLAKHIP QIGKKESIKDTARVLGRMFDGIEYRGYGQEIVEEL AKY
UniRef90_A6UWP3	VMKGETLP DTLKVINGYADLI <u>V</u> MRHPSDG <u>AP</u> RLA <mark>C</mark> EYSN
UniRef90_UPI0003642848 UniRef90_U2WA68	
UniRef90_UPI000417A63F	IVIN K G E SIL IK D T A IL IT IL IQ A M G P E A IV V I IR H P A S G A P Q R IL IT Q WIV ID
UniRef90_D1AWJ3 UniRef90_E6W7F8	MGKKEŚL ADTARV LGRMYDGI EYRGFSQQI VEDLA <mark>H</mark> YA QI G <mark>H</mark> KE <u>SM</u> KD <u>T</u> ARVLGRM <u>Y</u> DGLQYRGY <u>G</u> QALVETLAE H A
UniRef90_R5G2B0	T V K G E S L V D T V R T L D A M K I D M F I V R H K <mark>C</mark> A G A P Y M V S Q N T
UniRef90_D8GNJ2 UniRef90_E1RJQ8	MGKKESA ADTARV LGRMFDGIEYRGFAQETVEDLAKYS SISKGETLADTLRVVSSYVDAI <u>V</u> LR <mark>H</mark> PKEGAARLAANFST
UniRef90_F4GNT5	QLGRSEPLEDTARVISRMVDLVMIRTFEQTRIERFASHS
UniRef90_F8AZT8 UniRef90_W7QAV1	QLGRSEPIEDTARVISRMVDLVMIRTFEQTRIERFASHS LGRGESI EDTAAVFSRYVDMVVIRTFAQERLERLAAAA LGRGEPIG DTARVLAEMVDAVMIRTFSHEGL ESFADA
UniRef90_Q5V2T3	SVKKGESLADI VRVVEGYIDAL VLRHPMEGSAK MASEFV
UniRef90_N1V785 UniRef90_UPI0003667A0C	GIVIR E SIVI — A DIVIA RIV LIG R Q A GIV L VIWR T E A Q — IVIK II ID Q M A A Y
UniRef90_B4S9U7	LGTRESVQDVAQLLSRYNDAIVARLHEHAII — EGVAEH
UniRef90_M1NY02 UniRef90_R6TJH5	MGKKESILI EDSAKIVLIGRFFDGII IEYRGYDQKNIVIEDILI AKY
UniRef90_E8UEU6	T S K G F S I D T D N S A M Q A D F V V R H N A S G A P Y I A N H T K
UniRef90_Q5WEX3 UniRef90_S3UXH3	I G R G E P V K D T A N V L S R Y V D A I MI R T N S H K K V V E F A K H S L S K G E T L Y D T M K M I E A Y A D L A V L R H P V E G S S R I A A G A V
UniRef90_E7GBD2	_ GKKES EDTAK VL GRMYDG EFRGFQQK <u>T</u> V ED <u> L</u> M <u>K</u> YS
UniRef90_A7MIU6 UniRef90_UPI0002E8D001	IIIG HKESMKDIARIVIIGRMYDGIIIEYRGEGODII VIEEIIIGEYA
UniRef90_K7ZCN2	QLSRGETVSDTAKVLSGYVD <mark>C</mark> IMMRTLLESRLVEL <u>A</u> EN
UniRef90_K2ABJ8 UniRef90_UPI000475439D	T S K G E S L L ID T II IA N L IE A M D A D II IF IV V IR H S Q S G A P F IL I IA S H T P
UniRef90_UPI00037D6F35	V Q K G E S L R D T G L T L K A L G A D A I I M R H P <mark>C</mark> S G A P A Q L A Q W V A
UniRef90_Q0VTM5 UniRef90_R5EGT6	S KGETL DTLRNLEAMAADMFVVRHQDSGAPFFI ANEVT LG HKESI KDSARVLGSMYDAI EFRGFKQETVEELAEYA
UniRef90_R9SHQ5	QIL IG R G E PIL IK D T A KIV L IS R Y IV ID GIL IMIL IR A T N H A DIV V IE IL I A E E
UniRef90_Q4FUA5 UniRef90_A6X864	STKKGESLRDTLWNLAMTADIFVVRHSASGAAHFMATEVT IGKKESM_KDTARVLGRVYDAIEYRGFGQEQAELL AKW
UniRef90_F9ZGL2 UniRef90_R4W555	QLGRGEPVEDAARVISRMVDLIMVRTYQHDTIKRF AEN
UniRef90_UPI000348B2CF	QIVIG R G F PILIF D T A RIV L ID R YILIDIL LIAIL IR T Y A Q A DILL
UniRef90_A7HQ43	OLGRGETI ADTARVLSRYVDAI MIRTTDHEHLTELAEHA LG HKESIKDTARVLGRYYDGI EYRGSDQSMVEELARYA
UniRef90_UPI00029B0B68 UniRef90_A6CPR4	V S K G E T L Y D T V K T L E A I G I D A V V I R H E K D R Y F D D L I D H V
UniRef90_F8ADJ0 UniRef90_I3VYM7	VEKGESLIDTVINIQAMGADLFVIRHPNAGAPHLIAENVN QLGAKESIEDTARVLGRMFDAIEFRGYSQSTVEALVKYS
UniRef90_C7R3R4	QMGRGEPISDTAQVLTRQVSAI VWRTFSQAGLEEMAHHS
UniRef90_UPI0003603924 UniRef90_UPI00046EB82D	QMGRGEPISDTAQVLTRQVSAI VWRTFSQAGLEEMAHHS LGRGEPI EDSARVISRMVDMVMIRTFGHKTLELFAAH QIGHKESMKDTARVLGRMYDGIEYRGFGQKIVEEL ADN VNKGESLKDTLRNIEAMKVDMVVIRHAAAGTP LMLTKLC
UniRef90_I0ALP0	VNKGESLKDT I RNI E A MKVD MV VIRHA A A G TP LMLT KLC
UniRef90_R5QY59 UniRef90_H3B664	VINKGESLKDTIIRNI EAMKVDMVVIRHAAAAGTP LMLTKLC QFGKKESI KDTARVLGRMYEGI EYRGFGQEI VEEL AQY LGVNESLRDTARVLSGFTDLI LARVYKHSDLDLL AQE QLSRGESVEDTAKTLSRYTDCI MARVYDHKLLEQLSE N IG HKETMKDTARVLGRMYDAI EYRGFSQHVVEEL AQF MG HKESTEDTARVLGRMFDGI EYRGFSQAQVEEL AEK LGRGEPLQDSARVI SSM VDCI MLRTDKHETV TTFAQY VTKGETLVDTVNNI LAMKVDMVVMRHPNPGA GVFLSKHI QLGRGEPI EDSAEVI SRMVDLI MI RTFGQDLI ERFAKHS VISKGESLKDTAOTI QALGADAVVLRHGASGAARIAAATDWI
UniRef90_A9A594	QLSRGESVEDTAKTLSRYTDCI MARVYDHKLLEQLSE N
UniRef90_K5XJ61 UniRef90_G5F4I1	LG HKETMKDTARVLGRMYDAI EYRGFSQHVVEEL AQF MG HKESTEDTARVLGRMFDGI EYRGFSQAQVEEL AEK
UniRef90_G3IX51	LGRGEPLQDSARVISSM VDCIMLRTDKHETV TTFAQY
UniRef90_K4IPD7 UniRef90_I9W3U7	VTKGETLVDTVNNILAMKVDMVVMRHPNPGA GVFLSKHI QLGRGEPIEDSAEVISRMVDIIMIRTFGQDIIERFAKHS
UniRef90_M7N769	VSKGESLKDTAQTLQALGADAVVLRHGASGAARLAATDWL
UniRef90_D1NTX9 UniRef90_A1S263	ALGKRESVKDFASNLSCWADAI VARTFAHETIVI EGLIAKY
UniRef90_A6Q1W6	QLGRGEPMKDTARVVSRCCDMVMIRTYEQSKLEEF AAF
UniRef90_UPI00036C2BE8 UniRef90_UPI000360F401	QL GRGEPVEDTARVLTRMTSAIVWRTFGQDRV ETMAKY ALGKRESVKDFASNLSCWADAIVARTFAHETV EGLAKY QLGRGEPMKDTARVVSRICDMVMIRTYEQSKLEEF AAF LTKGETILDTAKTYLAMGADIMVIRHQQAGIANEMDRLNS QIGHKESVEDTAKVLERMVSTIVWRTGAH AGLVAMAEN
UniRef90 Q0EX01	T KGETLLDTGQTLAAMQPHVLVIRHSLAGTCEFLAEYLPQIGNKESTQDTARVLGRMFDAIEYRGFSQNIVEEL AQFQIGKKETFEDTGAVLSRFVTAIVWRTYEHSNLERI ASTVAKGESLRDTALTLRAAGADALIJRHPASGAAQQLAEWTV
UniRef90_V9HL43 UniRef90_C4LID9	QI GKKETFEDTGAVLSRFVTAI VWRTYEHSNLERI AST
UniRef90_A0QWS1	VAKGESLRDTALTLRAAGADALI IRHPASGAAQQLAEWTV
UniRef90_U2TID6 UniRef90_UPI0003672139	VGIGGETIEDTARIESVESDIIMLRTFEHSTLICKFSKLL
UniRef90_UPI00039FAEF9	VAKGESLADTIQTIDAMNVDMFVCRARLAGTPQKILENT VGIGGETIEDTARIFSVFSDLIMLRTFEHSTLLKFSKLL SIKKGETLYDTGKTLEMLGINILVIRHSQNEYYKELEK GRGETIADTARVLSRFVDAIMIRILEHRDMIELARHA QMGHKESVKDTARVLSRFVDAIMIRILEHRDMIELARHA QMGHKESVKDTARVLSRFVDAIWIRTSQCFVEDL AAHA VNKGETLLDTASTLNAMHCDLLVVRHAMSGAPALLSQKVD QIKRQEPVEDTARVLSRYLDALVVRTFSQEFVEDL ARE LGKKESVADTARVLSRYVDIIMIRTLDHDMLTELARHA VKKGETLLDTASTLNAMHCDLLVVRTFSQEFVEDL SQKVD SVTKGETLIDTARVLSRYVDIIMIRTLDHDMLTELARHA VKKGETLIDTAMTLNAMHPDILVIRHSAAGSVQTAAKFS IGKKESI EDTAKVLGRYVDGMEFRGFKQETVETLAAHA VKKGETLIDTAMTLNAMHPDILVIRHSAAGSVQTAAKFS IGKKESI KDTARVLGRYVDGMEFRGFKQETVETLAAHA VKKGETLIDTAMTLNAMHPDILVIRHSAAGSVQTAAKFS IGKKESI KDTARVLGRYVDGMEFRGFKQETVETLAAHA QLGRGEPIEDAAQVISRMTDIIMIRTFGQEIVETLAAHA
UniRef90_B8ER56 UniRef90_C9YYX2	QMGHKESVKDTARVLSRFVDAI MILKILEHRDMI ELARHA
UniRef90_H0A6D3	VNKGETLLDTASTLNAMHCDLLVVRHAMSGAPALLSQKVD
UniRef90_B8FH29 UniRef90_I0R321	LGKKESV ADTARVLERQVAQIIWRTYAQAGLDEM AAN
UniRef90_D3W8I3	QLGRGETIADTARVLSRYVDII MIRTEDHDMLTELARHA
UniRef90_J1JUV8 UniRef90_U5HGA6	SVTKGESLADTVRTLGCYGDAI VLRHPAAGSV QTAAKFS
UniRef90_A6TWW1	I G K K E S I E D T A K V L G R F Y D G M E F R G F K Q E T V E T L A A H A
UniRef90_S0J1L8 UniRef90_V5PPU8	QLGRGEPHEDAAQVISRMTDHIMHRTFGOEHIERFAOHS
UniRef90 C6C3Z7	QLGHKESMKDTARVLGRMYDGIQYRGY GQVLVETLAEF

UniRef90_K6UJG2 UniRef90_U4WFS1 UniRef90_UPI0003653068	130 140 150 160 PNIIINAGDGRHAHPTQAMLDMLTIRRETRPFEELSVALI SVPVINGLTDLYHPCQALADLLTIQEHKGRLQGIKLAFI EIPIINAGDGANQHPSQTMLDLYSIRRTQGGLEDLTITMV DVPVINAGDGAGQHPTQTLLDLYTMKRFFGRIGSLRVALV
UniRef90_O27464 UniRef90_UPI0003C7E2A1 UniRef90_R6TKE2 UniRef90_UPI00036DCAE0	A GV PV V N A L S D D F H P C QI LA D WLI I I I E H K G R L A GL I V A Y V
UniRef90_X0S7E2 UniRef90_UPI000473591C UniRef90_H0KGH9 UniRef90_G8TJ25	GVPVFNGLTDMEHPTQGLLDDAFSMREKLGRLEGLKVALL
UniRef90_UPI000466CF4E UniRef90_W0EUU6 UniRef90_R6XPC4 UniRef90_A6UWP3	S S V P V I N A L T D D F H P C Q L L A D M Q T Y Y E H R G S I Q G K T V L W V A A I V N A G D G I N E H P T Q G L L D A F S I K E K I G T L Q G T K V A I I A G V P V W N G L T N E Y H P T Q M L A D L L T I R E H F G R I K G I R L V Y M I P I I N A G D G S N Q H P S Q T M L D L Y T I K R E I G H I D N I K I A F I I C T A G V P V M I P I Q M L A D L Y T I K R E I G H I D N I K I A F I I C T A G V P V M I P I Q M L A D L Y T I K R E I G H I D N I K I A F I I C T A G V P V M I P I Q M L A D L Y T I K R E I G H I D N I K I A F I I C T A G V P V M I P I Q M L A D L Y T I K R E I G H I D N I K I A F I I C T A G V P V M I P I Q M L A D L Y T I K R E I G H I D N I K I A F I I C T A G V P V M I P I Q M L A D L Y T I K R E I G H I D N I K I A F I I C T A G V P V M I A T I C T A G V P V P V M I A T I C T A G V P V P V P V P V P V P V P V P V P V
UniRef90_UPI0003642848 UniRef90_U2WA68 UniRef90_UPI000417A63F UniRef90_D1AWJ3	GVPVWNGLTDADHPTQVLADFLTAQEHLNKPYEKMVFAF SSVPVWNGLSNEFHPTQLLADLLTLEEHIGRLKGLRLSYL GAV LNAGDGTHAHPTQALLDAYTMRRRLGGIEGRTVALV GVPVWNGLTDMFHPTQMLADMLTLEEHFGHLKGLNFTFM
UniRef90_E6W7F8 UniRef90_R5G2B0 UniRef90_D8GNJ2 UniRef90_E1RJQ8	SKVPVINALTDDYHPCQLLADMYSIKKFKGNIDGLSVSLC KPVINALTDDMEHPCQALADMYSIKKFKGNIDGLSVSLC KPVINALTDMEHPCQALADFLTIKEEFGNLKNVVLTFV GVPVFNGLTDEFHPTQMLADLTMIENCDKPLSEISYVYI AAIVNAGDGNEHPTQGLLDAFSMREKLGRLEGLKVAII SSVPVINALTDDFHPCQLLADMYSIKKFKGNIDGLSVSLC KPVINALTDMEHPTQGLLDAFSMREKLGTLQGTKVAII AAIVNAGDGNEHPTQGLLDAFSMREKLGTLQGTKVAII AGVPVWNGLTNEYHPTQMLADLLTIREHFGRIKGIRLVYM IPIINAGDGSNQHPSQTMLDLTIREHFGRIKGIRLVYM IPIINAGDGSNQHPSQTMLDLTIREHFGRIKGLRLSYL GVPVWNGLTNEYHPTQLLADLLTIREHFGRIKGLRLSYL GVPVWNGLTDADHPTQVLADFLTAQGEHLNKPYEKMVFAF SSVPVWNGLTDADHPTQLLADLLTIEEHHIGRLKGLNFTFM GVPVWNGLTDADHPTQLLADLLTIEEHHIGRLKGLNFTFM GVPVWNGLTDAHPTQALLDAYTMRRRLGGIEGRTVAIV GVPVWNGLTTDADHPTQLLADLLTIEEHNIGRLKGLNFTFM GVPVWNGLTTEFHPTQLLADLLTIEEHNIGRLKGLNFTFM GVPVWNGLTTDADHPTQALLADLLTIEEHNIGRLKGLNFTFM GVPVWNGLTTDADHPTQLLADLLTIEEHNIGRLKGLNFTFM GVPVWNGLTTDADHPTQLLADLLTIEEHNIGRLKGLNFTFM GVPVWNGLTTDADHPTQLLADLLTIEEHNIGRLKGLNFTFM SVPVWNGLTTDADHPTQLLADLLTIEEHRGGHLKGLNFTFM SVPVWNGLTTDADHPTQLLADLLTIEEHRGGHLKGLNFTFM SVPVWNGLTTDADHPTQLLADLLTIEEHRGGHLKGLNFTFM SVPVWNGLTTDADHPTQLLADLLTIEEHRGGHLKGLKGLNFTFM SVPVNNGLTDADHPTQLLADLLTIEERRGSVKGHTAVWI SVPVNNALSDDAYHPCQLLADLLTIREN AGFDDLLTIGIM SRVPVNNALSDDAYHPCQLLADLLTIREN AGFDDLLTIGIM SRVPVNNALSDDAYHPCQLLADLLTIREN AGFDDLTTIGIM SRVPVNNALSDDAYHPCQLLADLLTIREN AGFDDLTTIGIM
UniRef90_F4GNT5 UniRef90_F8AZT8 UniRef90_W7QAV1 UniRef90_Q5V2T3	RVPVINGLTNEFHPCQLLADIFTFIEHQGPIAGKTVAWISVPVINALSDHAHPCQALADLQTIREKKGALAGLTLAYLSVPVINALSDDYHPCQLLADVMTWTELRGSVKGHTAVWIDVPLVNAGDGAGQHPTQTLLDLYTIREN AGFDDLTIGIM
UniRef90_N1V785 UniRef90_UPI0003667A0C UniRef90_B4S9U7 UniRef90_M1NY02	S R V P V I N A L S D D Y H P C Q L L A D L L T V R E H K G K L A G L T M A Y L A G V P V V N A L T D E F H P C Q L L A D L L T I R E H K G T L A G L T V A F L A T L Y E K S L W H E G L K V V F V A T V P I L N S L S D D L H P C Q I L A D L Q T C V E N L C P L K G R K A V Y L
UniRef90_R6TJH5 UniRef90_E8UEU6 UniRef90_Q5WEX3 UniRef90_S3UXH3	S G V P V W N G L T D A D H P T Q L L A D M M T I E H C H K P L N Q V K V V F P D H V H V N A G D G W H A H P T Q G L L D M Y T I R H Y K K D F S N L T V A I V S V P V I N A L T D A F H P C Q A L A D A L T I M E H K G T L A G K K L V Y I S L P V I N A G D G A G Q H P T Q A L L D L Y T I L S E K G K L D G L V L A F L
UniRef90_E7GBD2 UniRef90_A7MIU6 UniRef90_UPI0002E8D001 UniRef90_K7ZCN2	GVPVWNGLTDVDHPTQTLADFLTLEEHSKPLNEVKFVFT AGVPVWNGLTDEFHPTQLLADLLTMQEHLPGKAFNEMTLV GVPVWNGLTNEFHPTQLLADFLTMLEHGRGLHQTTFAYL STVPVINGLTNRSHPCQLMADVMTFEEHCGSIKDKVIAWC
UniRef90_K2ABJ8 UniRef90_UPI000475439D UniRef90_UPI00037D6F35 UniRef90_Q0VTM5	S R V P V I N A L S D D Y H P C Q L L A D L L T V R E H K G K L A G L T M A Y L A G V P V V N A L T D E F H P C Q L L A D L L T I R E H K G T L A G L T V A F L A T I P V I N A L T D L S H P C Q I L A D A F T L Y E K S L W H E G I K V V F V A T V P I I N S L S D D L H P C Q I L A D M M T I E H C H K P L N Q V K V V F P D H V H V N A G D G W H A H P T Q G L L D M Y T I R H Y K K D F S N L T V A I V S V P V I N A L T D A D H P T Q A L L D M Y T I R H Y K K D F S N L T V A I V S V P V I N A G D G A G Q H P T Q A L L D L Y T I I S E K G K L D G L V L F P L S L V K F V F T A G V P V W N G L T D V D H P T Q L L A D F L T I E E H S K P L N E V K F V F T A G V P V W N G L T D E F H P T Q L L A D F L T M L E H G R G L H Q T T F A Y L S T V P V I N A G D G V G E H P T Q L L A D F L T M L E H G R G L H Q T T F A Y L S T V P V I N A G D G V G E H P T Q T L L D L Y T I I E E H S K F C G R L D N L T V L F A E H V H V N A G D G R H A H P T Q G L L D M M T I R H Y K R D F H A L T V A I V P P C V I N A G D G R H A H P T Q G L L D M M T I R H Y K R D F H A L T V A I V P P C V I N A G D G R H A H P T Q A L L D A V T M R Q R L G S F K D R K V V I A C S V P V I N A G D G R H A H P T Q A L L D A V T M R Q R L G S F K D R K V V I A D I P V I N G L T D E W H P T Q M L D L T I K E H K G D L N R K L T F V P D I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I I I I N G G D G W H A H P T Q G M L D M L T I R E A P R P F E E L S V A L V P D I N G L T D V E M
UniRef90_R5EGT6 UniRef90_R9SHQ5 UniRef90_Q4FUA5 UniRef90_A6X864	GVPVFNGLTDEWHPTQMLCDLLTMKESGKRWKDLSFAYLADIPVINGLTDVEHPCQAFADILTIKEHKGDLNR KLTFVPDIIINGGDGWHAHPTQGMLDMLTLREAPRPFEELSVALVSGVPVYNGLTDEFHPTQILADFLTMRYTRKHLSQVTFAFL
UniRef90_F9ZGL2 UniRef90_R4W555 UniRef90_UPI000348B2CF UniRef90_A7HQ43	S G V P V Y N G L T D E F H P T Q I L A D F L T M R Y T R K H L S Q V T F A F L S R V P V I N G L T D E Y H P C Q I M S D I F T Y I E F R G S I E E K T V A W I D V P V V N G L T D D A H P C Q T L A D L L T I Q E H A R G L E G T S V A W V A Q I P I N A L T D L E H P C Q I L A D L M T V Q E C F G S L P G K T L T Y L T V P V I N G L T N R S H P C Q I M A D V M T F E E H K G P I K G R R V A W V
UniRef90_UPI00029B0B68 UniRef90_A6CPR4 UniRef90_F8ADJ0 UniRef90_I3VYM7	SI PI L N G G D G C G N H P T Q C L L D L L T I K E E F G S F Q G L K V S I I T K V I N A G D G F N A H P T Q A L L D L F T V R E K K G S L K D L K V A I I G V P V Y N G L T D E Y H P T Q V L A D L M T I E E E F G H L K G T K L V F V
UniRef90_C7R3R4 UniRef90_UPI0003603924 UniRef90_UPI00046EB82D UniRef90_I0ALP0	RVPVINALTDDY HPCQILADLMTVAQHRGGLPGQTLTYLSRVPVINALSDSY HPCQLLADIQTFVEHRGSPSGKVVAWVAGVPVWNGLTDEFHPTQILADLMTMLEHAPGRSLNSLRFADANIINAGDGIHEHPTQALLDMYSIREKLGRLDGLKVCIV
UniRef90_R5QY59 UniRef90_H3B664 UniRef90_A9A594 UniRef90_K5XJ61	A GIV P V WN GLINEY HPIQILA DMLIII REHF GKLK GLKIL VIY M A SI PIIN GLSEMY HPIQILA DYLTLQEHY GSLEGLT V T WI A T V PIIN GLSDT F HPCQLLA DFMTIKEKKKKIKGIKIA WI S G V P V F N GLT DEY HPT Q MLA D V LT M R E H D Q P L H Q L R Y A Y V
UniRef90_G5F4I1 UniRef90_G3IX51 UniRef90_K4IPD7 UniRef90_I9W3U7	S GV P V WN GLIDDF HP I Q ML A DILITA QE E F Q DL R G R KLIFF S S V P V I N GL T D L Q H P C Q L L A D M Q T Y F E H R G D I K G K T V T W I G A S I I N A G D G A H E H P T Q A L L D V Y S I R E K Y G D V K G K K I V I I R V P V I N G L T N E Y H P C Q V L A D I F T Y I E H R G P I A G K I V A W I
UniRef90_M7N769 UniRef90_D1NTX9 UniRef90_A1S263 UniRef90_A6Q1W6	ATVPVVNAGDGTHEHPTQALLDAFTLRTHWSDLAGMRVAIV ATVPVVNALTDDFHPCQVLADFLTIAQHKGGLEGMTIAYL GRVPVINALSDLYHPCQGLADFLSLAEKFDDLSKVRLAYV SQVPVINGLTNEYHPVQLMADYLTM IEYGKADSPVVAYV
UniRef90_UPI00036C2BE8 UniRef90_UPI000360F401 UniRef90_Q0EX01 UniRef90_C41_UPI	SRVPVINAGOGLHQHPSQALLIDLFIIISVLDQLIIGKRIAIV SRVPVINALCODYHPCQLLADLLTVKEHKGSLQGLTMAYL NTALVNAGOGAHEHPTQLLTDLLTLKQTWGSPKGKIITIV AGVPVYNGLTDEFHPTQMLADLLTMRHCRKPLNQISYAYL
UniRef90_C4LID9 UniRef90_A0QWS1 UniRef90_U2TID6 UniRef90_UPI0003672139	EPSVINAGDGTHEHPTQALLDALTIRQRLGSVEGKRVVIVDAVVINAGDGKHQHPTQAMLDLYTIREEFGHLDGLKVAIVTVPIINGLTNDS HPCQILSDVMTFEELKGSLQGKKIAWV
UniRef90_UPI00039FAEF9 UniRef90_B8ER56 UniRef90_C9YYX2 UniRef90_H0A6D3 UniRef90_B8FH29	DVPVINGLTKKSHPCQVMADVMTFEEHRGPIKGRKLAWS GVPVYNGLTDDWHPTQMLADVMTMEHCDKPLDETVFAYL AAV INAGDGTHEHPTQALLDALTIRRKKCCVECULVA
UniRef90_I0R321 UniRef90_D3W8I3 UniRef90_J1JUV8	SSVPVINALSDSWHPCQLLADLMTIKECFGKTEGLKLAYV TVPVINGLTRRSHPCQVLADVMTFEEHCGPIRGKTVAWT CAVINAGDGAHEHPTQALLDALTIRRAKKHIEGLNIAIC
UniRef90_U5HGA6 UniRef90_A6TWW1 UniRef90_S0J1L8 UniRef90_V5PPU8 UniRef90_C6C3Z7	S G V P V V N G L T D E Y H P T G

	470
UniRef90 K6UJG2	170 180 190 200 G D L K H S R <u>V A</u> R S D V A <u>A L Q T L G C K</u> D T R V <u>T A P N T L L P F G F <u>K E</u> F</u>
UniRef90_U4WFS1	G D G N N I V I A N S I L I A I L I G A I L I L I G I L I D I V I R I I A T P P G Y E M Q N A I I V I E
UniRef90_UPI0003653068	GDLRFGRTVHSLIEGMNYFRPHFIFVSPDMLALPAEYRDY GDLKYGRTVHSLAYALAVFG ASMSFVSPPVLRMPDNIIH
UniRef90_O27464 UniRef90_UPI0003C7E2A1	GDGASNMGNSYVLGGAVAGLHVRVGSPAGYQPDPAVVTRA
UniRef90_R6TKE2	GDG NNMANSILI VIGGII IKTGMTIVIS IVIA <mark>C</mark> PESHILIPDSAII IM
UniRef90_UPI00036DCAE0 UniRef90_X0S7E2	GDG NNMCHSY NAARQFD FKLQIACPEGFDPDPELV GDLKYGRTVHSLGMALSHYD VKIKLAAPPTLRMKPAIVN
UniRef90_X037E2 UniRef90 UPI000473591C	GD GNNIVIANSILLI <mark>C</mark> GAILLINILEILIRILIA <mark>C</mark> PRGYEPNENILLIQ
UniRef90_H0KGH9	GDARNNMGNS LLLI GAK L GMD V R I <mark>C</mark> KA LL SDAE LV EM <mark>C</mark> EG
UniRef90_G8TJ25 UniRef90_UPI000466CF4E	GDIMHSRVAMSNIYLLKKMG AEVMVAGPPTLIPKYIREA GDG NNMCHSYINAAAQYG FKLRIAAPEGYDPNSDLV
UniRef90_W0EUU6	GDII IMH S RIVIA M S N M Y IL LIT K M G A K IV IT IV I <mark>C G P P T I</mark> L V IP K Y II IE E A
UniRef90_R6XPC4 UniRef90_A6UWP3	GDARYNMGNSLMIV <mark>C</mark> AKMGMHFTA <mark>C</mark> TSKNYF <u>PEPELVALC</u> GDLKYGR <u>TV</u> HSL <u>CH</u> ALSFFENIELVFIAPKELKLPKEITD
UniRef90_UPI0003642848	L G D G R N N V A N A L M I G S A K M G L D F R I V A P K E L W P D E A L L T
UniRef90_U2WA68	GDARYNMGNSY MIVIA <mark>CAKMGMHYTACCP</mark> EFYFPDII IFII VIK
UniRef90_UPI000417A63F UniRef90_D1AWJ3	G D I L H S R I V A R S N I WL L S K L G A R V R L V G P P T L L P T D I D A W G D A R N N V A N S L M V A C A M L G L N F T A C G P K E L K P E A E L I A
UniRef90_E6W7F8	YIVIG D A R N N M G N S MIL IE A A A MIVIGIL IDIL IRIL VIA P K G C WP E E QIL VIE
UniRef90_R5G2B0 UniRef90_D8GNJ2	GDIAHSRVCGSLIPALKKMGAHVTLIAPATLLPARPDVLG SGDGRNNVANALMIGASKMG MDFRLVSPKELFPSEELLT
UniRef90_E1RJQ8	G DII IR Y G R T S H SII IS Y AII IS N Y NIVIRII IH TII IA P K SII IF M P AIV I I IF
UniRef90_F4GNT5 UniRef90_F8AZT8	G D A N N M A Y T WL Q A A E I L G F H L H V S A P A G Y Q L D P Q R G D G N N V A H S L V L A G A L A G M R V R V A S P P G Y E P F E Q V V R
UniRef90_F6A2T6 UniRef90_W7QAV1	GDG NNM <mark>C</mark> HSWI NAARQED EQII IRII I <mark>CC</mark> PEGYEPRODII VI
UniRef90_Q5V2T3	GDLKYGRTVHSLAHALITTVD ASQH <u>FI</u> SPES <u>LQL</u> PRSV <u>R</u> Y
UniRef90_N1V785 UniRef90_UPI0003667A0C	GDAACNMGNSWAII IAGIVITAGMHIVIR FGAPFGYIVIPDTFIVI IA
UniRef90_B4S9U7	G D G N N IV IA N S WII IE IL IA G IL L IP F H F IV L IA C P E G Y T P D Q G IL L IE
UniRef90_M1NY02 UniRef90_R6TJH5	G D G D N N M A N S Y M G F A T A G
UniRef90_E8UEU6	G D M
UniRef90_Q5WEX3 UniRef90_S3UXH3	GDGNNVAHSLLAVGAKTGMDVTVASPKGYEVDQAIFAKAQ GDLKYG <u>RTIHSLI</u> NLLR <mark>H</mark> Y K <u>VHL</u> YLISP <u>P</u> ELALPDSYKK
UniRef90_E7GBD2	G D I R N N V <mark>C</mark> Y G L M Y G A A K M G M H F V <mark>C</mark> L G P K S L D I N P E Q Y <mark>C</mark> Q T
UniRef90_A7MIU6	Y A G D A R N N M G N S M L E A A A L M G L D L R L V A P E R C W P A A E L V A G D A R N N M G N S L L V G A A K M G M D I R L I A P R S F W P D K E C Q Q
UniRef90_UPI0002E8D001 UniRef90_K7ZCN2	GDG NNMATSWIQAAVQFDFVL RIACPPDLMPSQNLID
UniRef90_K2ABJ8	G D M L N G R T V <mark>H</mark> S L K G L A L Y P K N T L Y L L S L P S L K L S R K E Y S
UniRef90_UPI000475439D UniRef90_UPI00037D6F35	G D T V H S R V A R S D I H A L T T L G V P E V R A V G P K T L V P G G D C L H S R V V R S N V E L L T K V G A Q V V L V A P P T L M P F G V E T W
UniRef90_Q0VTM5	G D I L H S R V A R S Q V H A L N I L G A D E V R L I G P K T L L P V
UniRef90_R5EGT6 UniRef90_R9SHQ5	GDARFNTGNSLLLVGAKMGMDVRLGAAYWPSQELIDM <mark>C</mark> RE
UniRef90_Q4FUA5	GDIKHSRVARSDISALQTLGVKDIRV <mark>C</mark> APRTLLPKGIERF
UniRef90_A6X864 UniRef90_F9ZGL2	G D A G N N M G N S L L T G A A Q I G M D V R L A A A C W P E Q E L I D R C R E G D S N N M C N T W L Q A A E I F N F Q V H V S T P P G Y D I D P E R
UniRef90_R4W555	G D G N NIVIA Q S FIV I IG A AIL IA GII IDIL ITIVIA T P E G Y GII ID D EIV VIE
UniRef90_UPI000348B2CF	GD GNNMAHSILLIGGAILITGILNIVIRILAAPKGYEPDPKILVIO
UniRef90_A7HQ43 UniRef90_UPI00029B0B68	GDGNNVVT SWIQAAAQLEFELRIACPPELSPVPEALD GDAGNNVGNSLLVTAAMLGMDVRMVGPASLRNAPEEEARR
UniRef90_A6CPR4	G D T H S R V A R S N A E A L K K L G A E V Y F S G P T E W F P Q D L V E S
UniRef90_F8ADJ0 UniRef90_I3VYM7	G D L R H S R V A H S G I C A F R K M G A E V Y V S G P A T M L P P E R E A L G G D G R N N M A N T L A L G C A K M G M D Y V I N S P R E L W P Q E D Y I N
UniRef90_C7R3R4	GDGANNMAHSYLLGGATAGMHVRIAAPEEFHPRPKIQAIH GDGNNMCHSYINAARLCDF ELRIACPQGYEPDAEIV YLGDARNNMGNSLMAGAALMGMDIRLVAPRAFWPDEALVS GDLAHSRVALSNIFGLKTMG AKVSVCGPSTMLPKYLEEL
UniRef90_UPI0003603924 UniRef90_UPI00046EB82D	GDGNNM <mark>CHSYLNAARLC</mark> DF ELRIACPQGYEPDAEIV YLGDARNNMGNSLMAGAALMGMDLRIVAPRAEWPDEALVS
UniRef90_I0ALP0	GDLAHSRVALSNIFGLKTMG AKVSVCGPSTMIPKYLEEL
UniRef90_R5QY59 UniRef90_H3B664	GDIAHSRVALSNIFGLKTMG AKVSVCGPSTMIPKYIEEL GDARYN MGNSLMIACAKLGLDFVACTTEDYFPLVEECRV GDG NNVLHSFMLSAAKLG MHLRIATPKGYEPDAGVIQ GD GNNVCNSMIYGTALAGATMSIATPKGFEPDKKTVK
UniRef90_A9A594	GD GNNVCNSMIYGTALAGATMSIATPKGFEPDKKTVK
UniRef90_K5XJ61 UniRef90_G5F4I1	GDARNNMGNSLLLVGAKLG MDVRIGAPKALWPHEEHLA GDCRNNVA NSLMVVCAKLGINFCACGPMPEDELVATCRE
UniRef90 G3IX51	GDG NNMCHSYIHAATVLDFTL NIACPKDYQPLQDIV GDIMHSRVALSNIFALKKLG AKVKVCGPNSLIPKHIESL
UniRef90_K4IPD7 UniRef90_I9W3U7	GDG NNMCHSYIHAATVLDFTL NIACPKDYQPLQDIV GDIMHSRVALSNIFALKKLG AKVKVCGPNSLIPKHIESL GD ANNMSYTWIQAAESLGFTFHFSAPVGYQLDPAMVS GDILHSRVARSNLWLLRTLG AEVTMVAPPTLLPHGSNVW GDAANNMANSYLLAGALAGMHVR VAGPNGFLPRQDIVE
UniRef90_M7N769	GDILHSRVARSNLWLLRTLG AEVTMVAPPTLLPHGSNVW
UniRef90_D1NTX9	GDI LHSRVARSNI WLLRIG AEVI WVAPPILLPHGSNVW GDAANNMANSYLLAGAIAGMHVR GDG NNWSHSLMYGAALLGATMTVI CPPGHFPDGFEQAQ GDG NNMTHSWLMLASKLGFTL RI ATPKGYEPDPNI VE GDI LHSRVARSNI YSLTTAG AEVHLAAPPTLLPKAFLSM GDSANNMANSYLLAGVTAGMNVR I SGPDGYLPSPEI I A
UniRef90_A1S263 UniRef90_A6Q1W6	GDG NNMTHSWLMLASKLIGFTL RILATPKGYEPDPNI VE
UniRef90_UPI00036C2BE8	G D G
UniRef90_UPI000360F401 UniRef90_Q0EX01	GDIAHSRVARSHLLAGVIAGMNVR ISGPDGYLPSPEIIA GDIAHSRVARSHLLAAQKLIGY TMRVVAPKTIIPSOIFRY
UniRef90_V9HL43	GDARFNMGNSLLIAGA LMGMDVRIAAPESLQPEADLVA
UniRef90_C4LID9 UniRef90_A0QWS1	GDVIHSRVARSNVTI I HTIG AFVVI VSPPTI I PROVENW
UniRef90_U2TID6	GDLAHSRVCGSLAPALKTMG AEVTLVGPPTFQVG
UniRef90_UPI0003672139 UniRef90_UPI00039FAEF9	GDG NNVTNSLMEAAAQFD FELKIACPKNYLPSKKVIA
UniRef90_B8ER56	GDA NNVLAS WVHAAQRFDFSLSVAAPAEFGLPPQLLD
UniRef90_C9YYX2	GDARFNMGNSYLVTGA LLGMDVRI VAPQDYWPAEEVVT
UniRef90_H0A6D3 UniRef90_B8FH29	GDG NNVAHSWISAAAILGLDLVLACPDDHLPEQTIIDK
UniRef90_I0R321	GDANNNMANSYLV ACAMAGMDVSIIAAPEGYGPDSAVLD
UniRef90_D3W8I3 UniRef90_J1JUV8	G DA N N N V L A S W M H A A E R F D F R L K J V A T P P E L A P K K W L R D G D I L H S R V A R S N I I C I N A I I G A R V R V I A P S T II I
UniRef90_U5HGA6	GDA NNIVLAS WMHAAAERFD FREI APKKWLRD GDI LHSRVARSNI I CLNALGARVRVI APSTLL GDLKNGRTVHSLVRLLSQYSVSLNFVSPASLSMPESVTEE GDARNNMGNSLMI GAAK MGMDFRAVAPKELLPKGELVE
UniRef90_A6TWW1 UniRef90_S0J1L8	GDARNNMGNSLIMI IGAAK MGMDFRAIVIAPKELLIPKGEILVE
UniRef90_V5PPU8	GDARYNMGNS LMVTCAKLGMHFVACTSKNYFPEQELVE GD ANNMSYTWIQAAEIFGFQFNISTPPGYRLDQAMVA GDTRNNMGNSMLEAAALTGLDLRLLQACWPDAALVAECQT
UniRef90_C6C3Z7	G D T R N N M G N S M L E A A A L T G L D L R L I Q A C W P D A A L V A E C Q T

UniRef90_K6UJG2	210 220 230 240 GPEVR LFNNMDEGVKDCDVI LALRIQNERIDSPAL
UniRef90_U4WFS1 UniRef90_UPI0003653068 UniRef90_O27464	Y A T Q Y G G K F MMT H D A N E A V D Q A D V I Y T D V W T S M G F E E E Q R C D E H H I P T E Y S H E L T P E I I A Q T D I L Y M T R I Q R E R F D D E D Y D L R A G V E V K E T E R L D D V I D E V D V L Y V T R I Q K E F P D P E E Y
UniRef90_UPI0003C7E2A1 UniRef90_R6TKE2 UniRef90_UPI00036DCAE0	E A A E T G G S V T I T D D P T A A L T G A D V V I T D T WVS M G Q E E S E R K W A S A N G D F T C T P D I I K A V K D A D A V C T D V W A S M G Q E D E E R A T N S D R V T I F R T P E E A V Q G S H L I V T D V W A S M G Q E E E Q K
UniRef90_X0S7E2 UniRef90_UPI000473591C UniRef90_H0KGH9	A T N S D R V T I F R T P E E A V Q G S H L I V T D V W A S M G Q E E E Q K E M K K A G L D V K E V D S V E E A M K D A D V V Y M T R I Q K E F P D I S E Y K A L Q I Y E D K K I N N N P E S C V T G A N V I Y T D V W S S M G E E N Q K E F A K Q S G A R I T V T D D I D K A V K G V D F V H T D V W V S M G E T W G E R
UniRef90_G8TJ25 UniRef90_UPI000466CF4E UniRef90_W0EUU6	KAHADI VEVERDEN AAENVOUV VITOVWASMGQEEQR
UniRef90_R6XPC4 UniRef90_A6UWP3 UniRef90_UPI0003642848	Y A K E S G G S I T L T E D V E S G T K D V D V I Y T D V W V S M G E P W A E R D L D N K N K L Y N N N K Y D L D L T G M D V V Y M T R I Q K E F P D L S E Y K C N E T G A K I T V T S D I A A G V K N A D V L Y T D V W V S M D E V W G A R
UniRef90_U2WA68 UniRef90_UPI000417A63F UniRef90_D1AWJ3	Q C Q S L G G S L S L S E S V E K G C R N A D V I A T D V WV S M G E P W Q K R P V E V S Y D L D A S L R D A D A V M M L R V Q R E R M N D A F F K C K E N G A K V R F T E S V E E G C T D A D V I Y T D I WV S M D S V W E E R
UniRef90_E6W7F8 UniRef90_R5G2B0 UniRef90_D8GNJ2	C N E T G A K I T V T S D I A A G V K N A D V L Y T D V WV S M G E P W K R Q C Q S I G G S I S L S E S V E K G C R N A D V I A T D V WV S M G E P W Q K R P V E V S Y D L D A S L R D A D A D V I A T D V WV S M G E D W S D R Q C Q I T G G K I T L T E D I A A G V Q G A D F I Y T D V WV S M G E D W S D R A D E V T P H L D S V L P S L D V V Y M L R I Q M E R L E N A P F K C K N T G A K I T I T D N I D E G V K D A D V L Y T D V WV S M D E V W E K G K N T G A K I T I T D N I D E G V K D A D V L Y T D V WV S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G K D A D V L Y T D V W V S M D E V W E K G C T D S A S Y S T D V L N S I T D V L N
UniRef90_E1RJQ8 UniRef90_F4GNT5 UniRef90_F8AZT8	VGQPADGVLQEFTDPIEACRNAHLVTTDVWTSMGFENEER
UniRef90_W7QAV1 UniRef90_Q5V2T3 UniRef90_N1V785	DAAGDRVSI LHDPQQAVADAHLVTTDVWASMGQEEEQR DLHEAGAGIREHTELDDILPELDVLYVTRIQERFPDESEY AARARAASVTITTDAGEALAGADVVATDTWVSMGQEDEKA
UniRef90_UPI0003667A0C UniRef90_B4S9U7 UniRef90_M1NY02	A A R Q K G I R I E V L H D P K E A A A N A D V L Y T D T WW S M G R E T E E R R A R R R R T G A S V T V T S D I D F V A G A D V V L T D T WM G M E N D G K D R
UniRef90_R6TJH5 UniRef90_E8UEU6 UniRef90_Q5WEX3	E I A R E I GA RI ELI I S D MA A V K D A D V I Y G D I WA S M G E E A L I P GVK E A A M O T G A K L V T N D P E A A V A D A D V L Y T D V W M G Y E O E O T S R
UniRef90_S3UXH3 UniRef90_E7GBD2 UniRef90_A7MIU6	GLS G F P I S F E E S E D I K K V W E C D V A Y V T R I Q E E R F P D H K E F E A E K S G G K L E V L D N V E E A V Q D A D V I Y T D I W V S M G E D E A L Y E C Q A M G G R I M L T E D I A A G V K G A D F I Y T D V W V S M G E A K E K W
UniRef90_UPI0002E8D001 UniRef90_K7ZCN2 UniRef90_K2ABJ8	TAELTGATITLTEDVKQGVEGCDFLYTDVWVSMEQAWDER WANHKGGRVYVNHDPSIAVFDADAVVTDTWVSMGDLDSNR NFLNLGLKLVELESVNDLPKNADVWYWTRIQKERFKSIDY
UniRef90_UPI000475439D UniRef90_UPI00037D6F35 UniRef90_Q0VTM5	DILIR D M GIVIRIVICH DII E E GILIR GA DIV VI IAIL IR IR M A G GIL LI
UniRef90_R5EGT6 UniRef90_R9SHQ5 UniRef90_Q4FUA5	DAEALGATVFTDMAQGLKDVDVVMLRLQKERMDSALL FAKASGARITITDDPEAAVKGVDFIHTDIWVSMKEVWDER IAKKTGSTLTITPDLELALKDADAVYTDVWVSMGEEEEKR GVQ
UniRef90_A6X864 UniRef90_F9ZGL2 UniRef90_R4W555	I GL N G T A H Y E I Y T N P R E A V M N A D L V I T D V WY S M D S W W A E R R A A E L G G E P A I V D D P A D A V A D A D V I Y T D V WV S M G Q E D E R E
UniRef90_UPI000348B2CF UniRef90_A7HQ43 UniRef90_UPI00029B0B68	R A E A L K S E T V V T Q D P V A A A E G A Q V V Y T D V WAS M G Q E E D Q R WAKSKGASI I V T T D P F E A V K D A D C V N T D T WVS M G D S A A R R A A A V S G A R I T L T E D V A E G V A G A D F L Y T D V W G E P P E M W D E R
UniRef90_A6CPR4 UniRef90_F8ADJ0 UniRef90_I3VYM7	GQYLPVDEAVKTGDAVMLL RVQHERHESTSTLTK AR VCYRLEEALKDADVVMALRVQKERHGRALF ELREMAATFTLTDVPGEGLEGAHAIYTDVWASMGEEAKQK
UniRef90_C7R3R4 UniRef90_UPI0003603924 UniRef90_UPI00046EB82D	VAARTGGSVTITTDVAQAAQGADVIATDTWVSMGDEEHIR AAAGDRVKVVHNPVEAVRTADWVSTDVWASMGQEQQVR RCRHIGARITLTESVAEGVKDVDFLYTDVWVSMKEAWAER
UniRef90_I0ALP0 UniRef90_R5QY59 UniRef90_H3B664	GVD VIYNI DEALQENDVL NVLRI QLERKAREYFYAKESGSELTLTSDVKEGTKGADVI YTDVWVSMDEVWEKRTAQQYSAKFFMTNDPLEAASGSSVL VTDT WVSMGQEEKER
UniRef90_A9A594 UniRef90_K5XJ61 UniRef90_G5F411	EAQKSTITE LTTDPLKAVKNADVIVTDTYSSTHNNDPKR ACRTFAAQSTLTEDPREAVRDVDFIHTDVWVSMVEAWGER LAAQNHCEVVLTEDPHEGAKDCDVLYTDIWVSMGESYDER
UniRef90_G3IX51 UniRef90_K4IPD7 UniRef90_I9W3U7	E A A G E R V R F F D T PL A A A Q N S D L V V T D V W A S M G Q E E E Q K GVE VE Y N L A A A L E W C E I A N M L R V Q H E R M E H S Y F P S A Q P Y V K V F E D P M Q A A A G A H L V T T D V W T S M G F E A E N E A R P C T I S F D L D A T L A T G V D A V M M L R V Q G E R M H D S F F P N T R E Y
UniRef90_M7N769 UniRef90_D1NTX9 UniRef90_A1S263 UniRef90_A6Q1W6	D A E R L A A D N G V T T D A K E A V R D A D <mark>C</mark> V F T D T W V S M G E E G E Y R Q I A A A H G G K I V I T S D I N A I F G H D A V Y T D T W I S M G D N T T D I
UniRef90_UPI00036C2BE8 UniRef90_UPI000360F401 UniRef90_Q0EX01	DAMREGATIEL MHDPKAAVQDADVVTTDTWISMGQEEEKR VNEQHQDRLFLHWKLNPALEDADFVMTLRLQKERMTANFL AAEDRAAETGVTVDAAEALLGADVVATDTWVSMGQEAEKE
UniRef90_V9HL43 UniRef90_C4LID9 UniRef90_A0QWS1	GCE VYHDFDAALPGSDAVYMTERLTDSCAFPSIKAKQIGAQITITDNPTEAIKGVDFVHTDIWVSMEQAWRERRAQGDTGASVVVTDDVDAVAGADVVITDTWVSMGFENDGL
UniRef90_U2TID6 UniRef90_UPI0003672139 UniRef90_UPI00039FAEF9	PV TVSYDLDAELPAADAV LMLRVQAERMNGSFF DPSWYGCKQTADLDSVIPEMDVVYMLRVQLERMEGAAI WAKKKADIEI LHDAKEAADNADCIMTDKWISMGDKGNLK KSLGEFVDFNEI IDKVDVCMLLRVQHERHDEKEKNEFSK
UniRef90_B8ER56 UniRef90_C9YYX2 UniRef90_H0A6D3	WARRSGAKILIEIVITRDPFEAIVIRGADAIV VISD <mark>C</mark> WIVIMGDKDEQQR HAFTSGARILITITEHITHEGIVIEGADEIVIATDIVWIVISMKEIVIWDER
UniRef90_B8FH29 UniRef90_I0R321 UniRef90_D3W8I3	PSEVERMGVEVFHDMKSGLRDADVVMMLRLQKERMAGGLVVKESSAGSVKVVSDPKEAAVGADVLYTDVWASMGQEEDERRARNQGGKISSSNDPVEAVSGAHVVVTDTWVSMGMEDQARWAKTSGAAIDIIGSDPEEAVKGCDCVVTDTWVMGDKDGQRR
UniRef90_J3UV8 UniRef90_U5HGA6 UniRef90_A6TWW1	WAKTSGAAIDIGSDPEEAVKGCDCVVTDTWVMGDKDGQRR PSEIENMSVSVYNDMQQGLKDVDVIMMLRLQRERMTSAFI AIKAGVPVMETTSLASVIGSTDVLYVTRTQQERFASVVEY EMRETGGEITLTDDVAEGVKDADVIYTDVWVSMGEEDQFE
UniRef90_S0J1L8 UniRef90_V5PPU8 UniRef90_C6C3Z7	E MR E T G G E I T L T D D V A E G V K D A D V I Y T D V W V S M G E E D Q F E Y C R E T A A S V T L T E D V A E G T R D A D V I Y T D V W V S M E E V W E S R E S S R P F V R E F D D P R E A C K G A D L V S T D V W T S M G F E A E N E A A A K T G G S I T L T E E V A A G V K D V D F L Y T D V W V S M K D A W A E R

UniRef90_K6UJG2 UniRef90_U4WFS1	250 260 270 280 S S Q S E F Y K M Y E D R L A L A K P D C I V M H P G P M G V E I D S S I A D G L K D F T A Y Q V N E K L V S R A D S D Y I F M H C L P R G E E V T A E I I D G
UniRef90_UPI0003653068 UniRef90_O27464 UniRef90_UPI0003C7E2A1	EAVKDSFILRADMLRPAKETMRVLHPLPRVNEIAMDVDKT SRIRGAYHIDGSTV ADRDLIVMHPLPRIDEISPEVDSL LQIFRPYSVTAEALALAAPDAIVLHCLPRGLEIAADVLDG
UniRef90_R6TKE2 UniRef90_UPI00036DCAE0 UniRef90_X0S7E2 UniRef90_UPI000473591C	KKVFSGYQI NPDI LSHAKTDALVMHCLPRGEEITADVFEA EREQAFYQVTTELLDQADESAIFMHCLPRGEEVSAEMMDD DAVRGKFRVSLDEVALMPEDGI I LHPLPRVDEI DSEVDAT EKDKDFFSI NKNLVSKADKDAIVLHCLPRDKEI TDEI IES IKLLLPYQVTPELMKRTNPRVKFMHCLPAFHNVTEDVFES
UniRef90_H0KGH9 UniRef90_G8TJ25 UniRef90_UPI000466CF4E	IKLLLPYQVTPELMKRTNPRVKFMHCLPAFHNVTEDVFES SSLREYYGINKRLLDSLDKKIVIMHPGPRGVELDSDAADG EKAFKSFQVNQDLMQRADNDALFMHCLPRGEEVCTSVIDA
UniRef90_W0EUU6 UniRef90_R6XPC4 UniRef90_A6UWP3 UniRef90_UPI0003642848	REYNLSYGISRKLLERLNKDLVVMHPGPRGVELDSDVADS IKELLPYKVTKEVMDNAGESAIFLHCLPAYHDVTDEVFES QKVKGTYKLTREHVE DKDLIIMHPLPRVDEIDISVDEL IKLLEPYRITAQMIKMTKNDKIFEHCLPAFHNTTDEVFEG
UniRef90_U2WA68 UniRef90_UPI000417A63F UniRef90_D1AWJ3	LYDLMPYQVNEKAFSYAKPEAIFLHCLPSFHNTTDRIFES PTANEYYGLDERRLALMPEHAVVMHPGPMGMEIAARVADS IKLLSPYQVNKKAMGYAKEEAIFLHCLPSFHDVTDEVFES
UniRef90_E6W7F8 UniRef90_R5G2B0 UniRef90_D8GNJ2 UniRef90_E1RJQ8	PSLREYYGLNEQRSHLMKDDAII CHPGPRGVELDSYMADG IKLLKPYQINKEMIEKTNEKVIFEBCLPSFHDVTDEVFEG ARVAHSYRITPEVLKDVKDNLILMHPLPRAGEIDPAVDKL
UniRef90_F4GNT5 UniRef90_F8AZT8 UniRef90_W7QAV1 UniRef90_Q5V2T3	RKAFADWCVDADMMAWADPKALFMHCLPRGEEVTGDVIDG SRVFQRYQLDEKAVEAADDDVIVMHCLPAHRDIAGSVIDG EADFAGFQVSEALLDRARQDVLFLHCLPRGEEISETLLDD REVAGQYQIDGDTLAAAKDDLTVMHPLPRVDEIAHDVDET
UniRef90_N1V785 UniRef90_UPI0003667A0C UniRef90_B4S9U7	ARMFRAYSVDGAALKLADPDAVVLHCLPRGYEIAADVIDG ARTFSPYSLTTALVSRAKPDAIVLHCLPRGKEIDAEVLDG LRIFSPFQINSALLAEAKPGAVVMHCMPRGQEISAEVMDG
UniRef90_M1NY02 UniRef90_R6TJH5 UniRef90_E8UEU6 UniRef90_Q5WEX3	RTPFLPYQVTTEVMAAAGKEAIIFLHCLPRGNEVTAEVIDGERTKPYRVTEDVLKATGNPDVLYLHCLPSFHDFTDEVFRGAEAIIAPYQVTYEKKLKLAKDAAIVMHPGPMGVEIDSRIADGAEALAPYQVNHKLAKGAKDDYLFLHCLPRGEEVTADVIDGERLKESFKVNKELILASKKDTTILHPLPRVNELSTDVDLKPRVEMLSPYKMMQKTGKDSTIFMHCLPSFHDFEDEVFRSAERIAYQVNSQMLMQTGNPNVKFLHCLPGGMEVTDEVFESVALMTPYQINMDIKATGNPQVKFMHCLPAFHNDTDEVFESVALMTPYQINMDIKATGNPQVKFMHCLPAFHNDTDEVFESHDLLVNYRVDDDRLMAKAKSNSVFMHCLPAFHNDTDEVFESHDLLVNYRVDDDRLMAKAKSNSVFMHCLPAFHNDTDEVFESHDLLVNYRVDDDRLMAKAKSNSVFMHCLPAFHNDTDEVFESHDLLVNYRVDDDDPSFHMMYGLTPERMRLAREDAIVMHPGPRGKDVIDGEKTSNKFVVNQELDTYASKNTILMHPLPRVGEITPKVDDDPSFHMMYGLTPERMRLAREDAIVMHPGPRGVELDSAVADGPSAREYYGLDARRELAKMPKGALLMHPGPRGVELDSAVADGPSAREYYGLDARRELAKMPKGALLMHPGPRGVELASEVADG
UniRef90_S3UXH3 UniRef90_E7GBD2 UniRef90_A7MIU6	ERLKESFKVNKELILASKKDTTILHPLPRVNELSTDVDDLKPRVEMLSPYKMMQKTGKDSTIFMHCLPSFHDFEDEVFRSAERIAYQVNSQMLMQTGNPNVKFLHCLPGGMEVTDEVFES
UniRef90_UPI0002E8D001 UniRef90_K7ZCN2 UniRef90_K2ABJ8 UniRef90_UPI000475439D	VALMTPYQINMDIKATGNPQVKFMHCLPAFHNDTDEVFESHDLLVNYRVDDRLMAKAKSNSVFMHCMPRGKDVTAGVIDGEKTSNKFVVNQELDTYASKNTILMHPLPRVGEITPKVDDDPSFHMMYGLTPERMRLAREDAIVMHPGPRGVELDSAVADG
UniRef90_UPI00037D6F35 UniRef90_Q0VTM5 UniRef90_R5EGT6	PSAREYYGLDARRLAKMPKGALLMHPGPMGMEIGYDVADS PSEAEFFRLYNDKLLFAKEDAIVMHPGPRGVEIASEVADG IEALLPYQVNKKLMASGNPNVKFMHCLPGGVEMTEEVFES NNDFAKYQVNEETMKLAKDDAIFMHCLPRGKEVTSEVIDG
UniRef90_R9SHQ5 UniRef90_Q4FUA5 UniRef90_A6X864 UniRef90_F9ZGL2	ASSSEYYKHYPERMALAKPDAFVMHPGPMGVELASSVADG LELLTPYRVTPELMAAANPHAKFMHCLPAFHNRETEVFES KNDFAAFCVNKEMMSLAKSDALFMHCLPRGFEVSAEVLDG
UniRef90_R4W555 UniRef90_UPI000348B2CF UniRef90_A7HQ43 UniRef90_UPI00029B0B68	EKNFDGFQVNDELLDSAADDVSVMHCLPRGEEITDDVLES IPIFQPYQVNQKLIDHADPEAIILHCLPRGEEITAEAIES HNLLAPYQVDARLMAAAGKDAIFMHCLPRGEEMTVDVIDG
UniRef90_A6CPR4 UniRef90_F8ADJ0 UniRef90_I3VYM7	EEYHQQFGLTAERAAQMKEHGIIMHPAPRGVEIADVLVES PSIREYFGINAERLALAKDDCLLMHPGPWGVELHPELEKD EREMRPFQVNDELMKKTNPDTIFLHCLPKGQEVTYEVIEG
UniRef90_C7R3R4 UniRef90_UPI0003603924 UniRef90_UPI00046EB82D UniRef90_I0ALP0	EKNFDGFQVNDELLDSAADDVSVMHCLPRGEEITDDVLES IPIFQPYQVNQKLIDHADPEAIILHCLPRGEEITAEAIES HNLLAPYQVDARLMAAAGKDAIFMHCLPRGEEMTVDVIDG IALLKPYQVTQTLKATGNPAVKFMHCLPAFHNVTEEVFES PSIREYFGINAERLALAKDDCLLMHPGPWGVELHPELEKD EREMRPFQVNDELMKKTNPDTIFLHCLPRGGEEVSAELLED VSLMTPYQVNAELMALAAPDAIVLHCLPRGEEVSEEVFES PSIREYFGINAERLALAKDDCLLMHPGPWGVELHPELEKD EREMRPFQVNDELMKKTNPDTIFLHCLPRGEEVSAELLED VSLMTPYQVNAELMALAAPDAIVLHCLPRGEEVSAELLED VSLMTPYQVNAELMAKSNAVFMHCLPAFHNESEEVFES PSIREYFGITSERLERNKKDLLILHPGPRGEEVSAELLED VSLMTPYQVNQQVEATGNPQVKFMHCLPAFHNDVTDEVFES PSIREYFGITSERLERNKKDLLILHPGPRKEEVDNEVFYS LKAFHGYKITMQTGKLAAPNWTFLHCLPRKEEVVDNEVFYS LKAFHGYKITMQTGKLAAPNWTFLHCLPRFDQEVTSSVIDG IALLPYYQVNAALMQAANPRVKFMHCLPRFDQEVTSSVIDG IALLPYYQVNAALMQAANPRVKFMHCLPRFDQEVTSSVIDG IALLLPYYQVNAALMQAANPRVKFMHCLPRFDQEVTSSVIDG IALLLPYYQVNAALMQAANPRVKFMHCLPRFDGEVSAADVIDG SREMAFYQVNAELMAEAKPTAIFEHCLPRGEEVSAADVIDG SREMAFYYGVNAELMAEAKPTAIFEHCLPRGEEVSAADVIDG SREMAFYYGVNAELMAEAKPTAIFEHCLPRGEEVSAADVIDG SREMAFYYGVNAELLMAEAKPTAIFEHCLPRGEEVSAADVIDG SREMAFYYGVNAELLMAEAKPTAIFEHCLPRGEEVSAADVIDG SREWGFDDARAALDATDSGETIIMHPGPRGVEITSSAADOS
UniRef90_R5QY59 UniRef90_H3B664 UniRef90_A9A594	TRELTPYKVTKEVMENAKPEALFLHCLPAFHDVTDEVFES LKAFHGYKITMQTGKLAAPNWTFLHCLPRKEEVDNEVFYS IKKFPKYQVNPKLMKSAKKDALFMHCLPRDQEVTSSVIDG
UniRef90_K5XJ61 UniRef90_G5F4I1 UniRef90_G3IX51 UniRef90_K4IPD7	QREMAFYQVNAEVMKVAHNDALFMHCLPRGEEVSADVIDG PSTREYYGVNKALLDTLSKPITIMHPGPRGVEITSDVADS
UniRef90_I9W3U7 UniRef90_M7N769 UniRef90_D1NTX9 UniRef90_A1S263	LRAFKNWMVTTDMMALADPQALFMHCLPRGEEVQAEVIDG SRLWGFDDARAALDATDSGETIIMHPGPMNREISSAAADS SKPFWPYQVNEELMSLAKPDALFQHCLPRGKEVITAAVIDG KAKFAPYQVNKAIMNKAASYFMHCLPAHRGUEVITDEVMDG
UniRef90_A6Q1W6 UniRef90_UPI00036C2BE8 UniRef90_UPI000360F401	IKDFKGFQVDTILMSLAKKDAIFLHCLPRGYEVSEEVFEAPSYHQLFGITRDRLKLCKPNVKVLHPGPRGVEITSDLMDDARMFRAYSVDADAMKLAAPDAVVLHCLPRGYEIAADVIDG
UniRef90_Q0EX01 UniRef90_V9HL43 UniRef90_C4LID9 UniRef90_A0QWS1	DLLKPFQVNADLMMATNANTKFMHCLPNGVENATDVFES DRRTPPYQVNADLWMARAKKTAFLHCLPRGSEVTSSVIDG PSAREYYGLSEKRQAMLPDRAIVLHPGPMGMEISFPVADS
UniRef90_U2TID6 UniRef90_UPI0003672139 UniRef90_UPI00039FAEF9 UniRef90_B8ER56	P S T R E Y Y G V N K A L L D T L S K P L T I M H P G P R G V E L T S D V A D S L R A F K N W M V T T D M M A L A D P Q A L F M H C L P R G E E V Q A E V I D G S R L W G F D D A R A A L D A T D S G E T I L M H P G P M N R E L S S A A A D S S K P F W P Y Q V N E E L M S L A K P D A L F Q H C L P R G K E V T A A V I D G K A K F A P Y Q V N K A L M N K A A S Y F M H C L P A H R G L E V T D E V M D G L K D F K G F Q V D T L M S L A K K D A I F L H C L P R G Y E V S E E V F E A P S Y H Q L F G I T R D R L K L C K P N V K V L H P G P M G V E I A A D V I D G R E Y H E A Y G L N A K R L R A A G P D C I V M H P G P M G V E I A T D V A D S L M D L M A K K T A I F L H C L P R G Y E I N A D V I D G R E Y H E A Y G L N A K R L R A A G P D C I V M H P G P M G M E I S F P V A D S D R R T P P Y Q V N A D L M M A T N A N T K F M H C L P N G Y E I N T E D V E E S D R R T P Y Q V N A D L M A R A K K T A I F L H C L P R G S E V T S S V I D G P S A R E Y Y G L S E K R Q A M L P D R A I V L H P G P M G M E I N T E V A D S P S K R E Y Y G L D A R R A A M M K P G A I V C H P G P M G M E I N T E V A D S P S K R E Y Y G L D A R R A A M M K P G A I V C H P G P M G M E I N T E V A D S P S K R E Y Y G L D A R R A A M M K P G A I V C H P G P M G M E I N T E V A D S P S K R E Y Y G L D A R R A A M M K P G A I V C H P G P M G M E I N T E V A D S P S K R E Y Y G L D A R R A A M M K P G A I V C H P G P M G M E I N T E V A D S P S K R E Y Y G L D A R R A A M M K P G A I V C H P G P M G M E I N T E V A D S P S K R E Y Y G L D A R R A A M M K P G A I V C H P G P M G M E I I D D G D G D G D G D G D G D G D G D
UniRef90_B8ER56 UniRef90_C9YYX2 UniRef90_H0A6D3 UniRef90_B8FH29	PSAREYFREFGAKLSLAKPDAIVMHPGPMGVEIDSAVADD MKSFEGYVVDQALVNLAAKDVSVMHCLPRGEEIITAGVLEG
UniRef90_I0R321 UniRef90_D3W8I3 UniRef90_J1JUV8 UniRef90_U5HGA6	ERVIT QAFTIVIDS ALL MS GAEKDAII FLHCLPRGFEVIS ADVI DGHNLLKRY QVIN ARLLALASPRAVIT MHCLPRGEEVIT DEVI DGPS SREYFHFFKQKLHN AKPDCI V MHPGPMGVEI AS DVADGEAVKDSYI IN NEVLASAKPNCI V IHPIPRNAFI DPRVDFD
UniRef90_A6TWW1 UniRef90_S0J1L8 UniRef90_V5PPU8	VRIKQYQVNMDMIKATGNPDMIFMHCLPAFHDVTDEVFRS

UniRef90_C6C3Z7

UniRef90_Q9CC11	1 00
UniRef90_Q9CC11 UniRef90_O19072	QUK GRDLLTUKNET GEEÜKYI LWLS ADLKKGEYÜPL LQ
UniRef90_UPI00047C97CA	S F N L R N R S L L T V Q D Y T P R E F R Y L L D L A R D L K R A K Y Q K H L E
UniRef90_F7NRH0 UniRef90_J0UXH5	GKHLLSVDQFTRETVEELCSLADIMRRQKVSRVLE
UniRef90_UPI00037BD32E	ASSLKERSLLGLKHUSSAEINWILDRAAYWKKEKVTPILK
UniRef90_B2GAF2 UniRef90_D0YSU9	A F N L R N R S F L T L A D F N T R E M E Y M L D L A E D L K A G T E Q Q H L K K H L L S A A D L S H E Q A L K I L D T A E A M R Q V K K L P T L R
UniRef90_C5QNI5 UniRef90_D3QAF4	L K G R S L L K E S D F T K E E F E G L D F A M T L K Q G T K H H Y L E K H F L R D D D L D F A S <mark>Q C</mark> A L D L A R A F K A E <u>P</u> A R P L S G
UniRef90_B2GAF2 UniRef90_D0YSU9 UniRef90_C5QN15 UniRef90_G2MJQ3 UniRef90_G2MJQ3 UniRef90_H2G025 UniRef90_M1GDG6 UniRef90_B2TQ29 UniRef90_Q7VP68 UniRef90_B5YA17 UniRef90_C3N688	M R Q D H L I S A G Q L S R A D V E T V L D R A A E F D A A L E R E R H A Q H L L S L K D Y S K A Q I E Q I L E L A K D V K A N P Y A D A L K
UniRef90_M1GDG6 UniRef90_B2TQ29	HFI TI A DLG Q S K A WELL L LR A K E M K D H K T N P Y M Q K K D L L K M D D L S K E E I L E I L N L A D Q L K R G I E H K H L K
UniRef90_Q7VP68 UniRef90_B5YA17	A F N L K N R H L L S L V N H T E R E I K Y L L A L A R D L K R A K Y S Q T L K K H I I GI E K L S R D E I I S I I H I A A P M K E V K K V P T I R
UniRef90_C3N688	MRLRHVVSSLDLTRDDYFRIFELVDKFSNVKKLNYLS
UniRef90_R4LVY4	RHELRODDLSPAEQAEVLDLAAEMKADRYRPLEG
UniRef90_A1AV91	HLLGLEGUSKQYLIHILDTADSLINUKKSKALD
UniRef90_D3R0J1	AKNUSGRSYLKLUDFEPSDVRYLLDUSKNFKDMKRHRWLE
UniRef90_G5JK30	NERNRICHE DES QSELEFIL LNES EDEK RGLEQQKLK
UniRef90_A2C427	NELSSOLNSDQILSLEELAKQLKTGNRRIDLG
UniRef90_F6PKA8 UniRef90_B3T369	NEFYEKNLISVRDLDKQKLELIFDATDDMSQDKRREIAR
UniRef90_UPI0003B535F4 UniRef90_UPI00042644E3	SUSGRIFICKLUDYTSDEURYLIDUSAQFKRGTPHRYLE
UniRef90_K9VG54 UniRef90_F2I7H0	WTRRHILLTLADFTSDEYDTVLQTAASFRRTKKVPALQ AKNFRGKSYLKLIDFTSRDIRHLLDLSKNFKDMKRHKYLT
UniRef90_UPI000379FEB9 UniRef90_A6GU60	L R G R D L L S T D L S R Q E L A L D L T E M L K K V K E T K Y L T K H F L Q F N D S K D E F E Y L M D V K A R F K R Y E P Y Y P L Q
UniRef90_A0A017T1R7 UniRef90_E9UV96	FQRR <mark>H</mark> LLGIEGMSGAEIVAI LDAAESFRSVRKVPTLR RHFLRDDDLTPAEQAEVLALAASMKQEPYKPLAG
UniRef90_Q8KDE2 UniRef90_G2LFB8	K K R D F L G F T G L D A A K T T E L F D Y S L F L K Q Q R E T R P L R K D F L D T A D L S P N L V T F L L D S A F R F V P F A T R T R W Q
UniRef90_UPI0002486DFE	HELGEK DLPKKHLENI LNKA DSEK GNKK SKAEK RHULTU DGUPRA TUJOULDRA GOURDA A KRTVI A
UniRef90_UPI0003B36084	RHELDMCDLAASELRAI LDDAKATKAARQGWPLA
UniRef90_W6NLA7	UK GK S FL T UK D F T ME EI EYL LDLS K RLK N GN QK K RLE
UniRef90_561254 UniRef90_E8QYU1	WT RKHUL SEEL GANDULAI LDTAESFRSRKKVPALV
UniRef90_UPI0003003DF4 UniRef90_UPI000255E8B2	AVDURGRSELS LVEETPEETQALLD LA AELKAAKRARRLV
UniRef90_B8GF03 UniRef90_C7RF25	NERGRNELALK DETEDEVLYELIKESEQEKNGTPHNYLQ
UniRef90_D5UES9 UniRef90_R9N6D3	R H Y L Q F T D L N A D E Y A Y L F R R A A Q F K R Y E K H Q T L A A V D L R G R S L L S L V E E T P E E I Q A L L D L A A E L K A A K R A R R L V K D F I S I R D F D R A A I D R L I A E E A E R I D H H Q Y D P L M K N L R G R N L L A L K D F T E D E V L Y L I K L S E Q F K N G T P H N Y L Q R H L L S A A D L D L D E A V R V L D T A G Q M R E I K K L P T L R N L K G R S F L K L L D F T P E E I L Y L V D L A E E L K A K K K K G I L R P W K H S H L V D V D V F S E D D F Y M V L E E A C K M E E V K K V P A L R K L K H I I S T T Q L N R P L Q E H L F A S A A Q M E R D D A Q R P L S T S I K G Q D L L T L A D Y S P A T I K A L L K K A K E Y L S G E P T P I L Q A V N L K N R H L L S L V H H T A E E I D Y L V D L A I D L K R A K K P Q L L K M A L R H F L T L A D L N T D E L N Q V I Q R A L E L K K M Q H Q H P F V K N F I D F D D L S F E E L Q D I I D R A A S F R R T K K V P T L Q K N L V S I K D L H K D K I L L I L M Q A D Y F S K G Y R W Q P D N
UniRef90_G8NQ50	WKHSHL VDVDVFSEDDFYMVLEEAUK MEEVKKVPALK
UniRef90_UPI00030508C4 UniRef90_H3KC78	AVNLKNRHLLSLVHHTAEEIDYLVDLAIDLKRAKEPLSGEPIPILQ
UniRef90_S3NGU7 UniRef90_UPI000369FF7A	MALIRHELILADINI DELINGVI QRALELIKK MQHQHPEV KNEI DEDDLSEEELQDI I DRALALKKGVI NNSLK
UniRef90_D7E4C9 UniRef90_G9QMK0	K N L V S I K D L H K D K I L L I L M Q A D Y F S K G Y R W Q P D N R H L L S L D G L P A P I L T A L L E R A D A L R G H A R R R S F A
UniRef90_UPI0004136CA3 UniRef90_B3TB95	
UniRef90_Q9K9V6 UniRef90_A0A059ITY7	TKHDLLTMSHLSLEEIEHILHDAQQFENGALWSPEEFRARHLLGIEHLAPEEIRTLLDLAETYRTIKKTDVLATPEPRAHFNSAGDLNPVTLTALLDLAETYRTIKKTDVLATPEPRAHFNSAGDLNPVTLTALLDLADACRQGAKADLMRMAVRHFLTLHDLSPAELNQVIDSALALKKNTQQPVLALKNKDLLGLENLSSSEIELILETAKSMKDVKKVPTLRRHLLSIEGLRERDLLQILDTTESFRTVKKTPTLRHFLDINDLNSNELENLIDKALDLKKNKISNILQWQRRHVISLADFTPNDYETVLQTAVSFRRNKKVPTLQKKHVISLADFTPNDYETVLQTAVSFRRNKKVPTLQKKHVISLADFTPNDYETVLQTAVSFRRNKKVPTLQ
UniRef90_U3AJS1 UniRef90_UPI000371CE16	I P F P R A H F N S A G D L N P V T L T A L L D L A D A C R Q G A K A D L M R MAVR H F L T L H D L S P A E L N Q V I D S A L A L K K N T Q Q P V L A
UniRef90_UPI000374898A UniRef90_F9ZQ81	LKNKDLLGLENLSSSEI ELI LETAKSMKDVKK <u>V</u> PTLR R <mark>H</mark> LLSI EGLRERDL <u>LQ</u> I LDTT <u>ESF</u> RT <u>VKK</u> TP <u>T</u> LR
UniRef90_A4GHT0 UniRef90_L8MZ07	H F L D N D L N S N E L E N L D L K K N K L S N L Q W Q R R H V S L A D F T P N D Y E T V <u>L Q T</u> A V S F R R N <u>K K V P</u> T L Q
UniRef90_Q84489 UniRef90_UPI00035DD569	K H I V K S Q Q F S K Q T V Q E L <mark>C I L A S</mark> E F K N V R N D S L R R H L L S L D D V S V A D I H Q L F E T A A E M R E V K K L P A L R
UniRef90_A8ERG2 UniRef90_UPI0002E5284A	QHLIRTSDFTKEEILDIFEDARGFLDFKP <mark>C</mark> EILK KNLISMNDIFINFIEMLIDRAFFIQOKASSSIKK
UniRef90_U5QIT6 UniRef90_C5C683	QL LALL DF A GRLK A GRQVA SLQ RHLLS A A DLGRDE AVALL DT A ETMRALK KLPPLR TNWYRRHI I SLEDFTPA EYELI LQTALSFRRTKKVPALQ
UniRef90 I 8LL50	TNWYRRHIISEEDFTPAEYEIILQTAESFRRTKKVPALQ NERGRSLLSLVHHTPAEIDYLVDEAIDEKKAKRVQRLK
UniRef90_M1LRK1	HLLSVEQFNRDSIEDLFNLVDMMRRQKISRVLE
UniRef90_X1XJ00 UniRef90_H0E1A8	K NL L T MT DL T K D DI MKI I T K A Q DL K E N G A E T F G K
UniRef90_M3VB22	KHLLSTADLSRDDAIDILDEAQRFREVRKLPTLR
UniRef90_K0TH75 UniRef90_G7UQM6	K NL L T M T DL T K D DI M KI I T K A Q DI K E N G A E T F G K D L L R I S D L D R S Q L L R L L D L A A G M K A D P W N W S L R K H L L S T A D L S R D D A I D I L D E A Q R F R E V R K L P T L R T Q F E G K H F I S I D Q L S N D E L R G L L D L S K K Y R D V E A P K P L T R Q T L C R I L D R A G A I R R T Q K R D T L V WR G K H L I S V D Q F T R E S A E D L F R V A D M M R R R K V S R V L E
UniRef90_UPI000381579F UniRef90_F4B3F0	SELSVNHLLGLKYLNEADUDLIEKTADHEKEVKKVSRVLE
UniRef90_G0ACV0 UniRef90_Q1D6L9	SELSVNHLLGIKYINEADIDLIEKTADHEKEVKKVPSLR MALKHYLQESDESLDEYEYVIERSRKEKNYEPHYTLL RHLLGIEGWRRDELESLLDRAAHLPGGPTTHLLR SEPHRHLLGIASLAPHEIRFLLDEAEHWAARKLDGRLA
UniRef90_G2ITM7	S F P H R H L L G I A S L A P H E I R F L L D E A E H W A A R K L D G R L A

Indexed Description		50 60 70 80
Jinkergo	UniRef90_Q9CC11	PRG V A VI FDKNSTRTRFSFD I G AQLGGHA VV DGLSTQ
JAMERION		PKYAVNMFFEASTRTHHSFEMAEQKLIGMREIJSF DPGHSS
JAMERION	UniRef90_UPI00047C97CA	GKEI CLIFEKTSTRTRCAFEWACSDQGAN VTYLDPAGSQ
STREET		GAILLGNLIFFEPSTRTRIVISFGCAFNLLLGGEVIRETTGMQSSA
STREET	UniRef90_A5EVP6	GSVMANLFFEASTRTRMSFHTAFARLGGSVVDTTGFTFSS
STREET	UniRef90_UPI00037BD32E	DRFII SNMFFENSTRTRFSFEMAEKRLGAEVLNF SAASSS
STREET	UniRef90_B2GAF2 UniRef90 D0YSU9	GKTIV VINIL IF FEDSTRTRI SFETAAKRLISADIVI NF SAKGSS
JniRef90	UniRef90_C5QNI5	GKNIALLFEKTSTRTRAAFTVASIDLGAHP EFLGKNDIQ
JniRef90	UniRef90_D3QAF4 UniRef90_G2MJQ3	GAVIAN VIFEKESTRIRMSFQVIGITI QLIGGN PVT VID A QSS
JniRef90	UniRef90_H2G025	GKSVVTLFEKPSLRTRVTFDIGVNKLGGHAVYLDSQNGAM
JniRef90	UniRef90_M1GDG6 UniRef90_B2TQ29	GKVAALLIFEKASTRIRVSFEVAVRQLIGGIIII FILIPNETQ GKSU GMU FEKSSTRTRVSFEVAMYOU GGNAU FU SNRDU
JniRef90	UniRef90_Q7VP68	GKNI ALI FEKTSTRTR <mark>C</mark> AFEVAAYDQGAQ_VT <u>YID</u> PNSSQ
JniRef90	UniRef90_B5YA17	GKI I GTLFYEPSTRTKNSFELIAAKLLISADVVSVSVATSS
JniRef90	UniRef90_D3QBD9	GRTVVNLFFEDSTRTRVSFEAAAKRLSAD VVTFSAKGSS
JniRef90	UniRef90_R4LVY4	PRSVAVEFDKASLRTRLSFEAGLAELLGGNPLLVDTQATHF
JniRef90	UniRef90_14N3B9	DI FVANL FFEPSTRTRNTFEI AAMRSSANVINV DLANSA
JniRef90	UniRef90_A6FMN9	GHMVALIFEKPSTRTRTSFDVGVRQMGGQTMVL SGTDM
JniRef90	UniRef90_D3R0J1 UniRef90_H3NSH0	GKVMAMI FAKSSTRTRVSFEAGMTQLIGGSAM FILISSADTO
JniRef90	UniRef90_G5JK30	GKNI ALL FEKDSTRTR <mark>C</mark> AFETAAYDQG AHVTYLGPSGSQ
JniRef90	UniRef90_A0A011QF61 UniRef90_A2C427	NRVLGLIFKKASTRTRVSFQVAMARIIGGOTVDII NPOLITO
JniRef90	UniRef90_F6PKA8	GKVLATMENEASTRTICSFQAAMURLGGŠVISSDKKTSSŠ
Library Control of the first of	UniRef90_UPI0003R535F4	GHV LAMI FEKSSTRTRESEFMAMROII GGSAII VIA DAGSMO
Library Control of the first of	UniRef90_UPI00042644E3	GKNIVLLFEKTSTRTRCSFEVAGRDLGM GVTYLDPGSSQ
Library Control of the first of	UniRef90_K9VG54 UniRef90_F2I7H0	G Q V V A N L F F E P S I R I R N S F E L A A K R L S A D T L N F T P G S S S G K N V I I F F K T S T R T R C A F F V A G Y D L G M G V T F D D A N S S O
Library Control of the first of	UniRef90_UPI000379FEB9	GKKI VMI FQKHSTRTRSSFSVALQELGSYAYYF GWNEL
Library Control of the first of	UniRef90_A6GU60	DRTILVMI FEKASTRTRLSFEAGMHQLGGSAIIYLN TKDS
Library Control of the first of	UniRef90_E9UV96	PVTVATI Y D K P T L R T Q A S F S S G T A E L G G H S M L VD G R L A G
Library Control of the first of	UniRef90_Q8KDE2	HKTVAMIFNKPSLRTRVSFELIGVYELIGGHAISLEGKSLIG
Library Control of the first of	UniRef90_UPI0002486DFE	NMSVANLFFEPSTRTRNTFEIAAKRSSANTI NV DLENSA
Library Control of the first of	UniRef90_E6WUW8	GTAVCTL FFEPSTRTRSSFQL A A QRLGADVLNF DASTSS
Library Control of the first of	UniRef90_D4LFE6	GKSLGMI FQKASTRTRVSFETGMYQLGGHALFL SADDL
Library Control of the first of	UniRef90_W6NLA7	NKNI ALI FEKESLRTR <mark>C</mark> SFEVSAHDMGANVTYLNSSE S
Library Control of the first of	UniRef90_J8IZ34 UniRef90_E8QYU1	GKIV VIENILIEFENSTRTRTSESIJA A KRILISA DIVIQDE NA SIVISS
Library Control of the first of	UniRef90_UPI0003665DF4	DRTLAMIFEKASTRTRVSFEAGMYQLGGTVVNLT AQGS
Jinker90_C7RF25 Jinker90_C8DLES9 Jinker90_C8NGB03 Jinker9	UniRef90_UP1000255E8B2	GKI LALLIFFE PSTRTRMSFE A A MARLIGGT SILTLISSFE A SS
JAINGEYD JOSUSS JAINGE	LI=:D=400_CZDE0E	GKNI VLLFEKTSTRTR <mark>C</mark> SFEVAGMDLGM GVTYLDPGSSQ
Jinker90 _ DSL2K5 GK V A N L F E P S T R T R T S F E L E K F L S A D V N W S A S G S S Jinker90 _ SBNO50 GR L A T I F E P S T R T R T S F E L A E K F L S A D V N W S A S G S S G S GR L A T I F E P S T R T R L S F E A M C L G C V T V E N R R D S S G S G V T V E N R R D S S G S G V T V E N R R D S S G S G V T V E N R R D S S G S G V T V E N R R D S S G S G V T V E N R R D S S G S T T T S T T T S T T	UniRef90_D5UES9 UniRef90_R9N6D3	GKNVALIFEEDSTRIRISFETAAKRUSAD <u>VI</u> NF SAKGSS GKNVALIFEKTSTRTR <mark>C</mark> SFEVAAHDUGMGTTYLEPAG S
JAINER190_UP100030508C4 JAINER190_UP100030508C4 JAINER190_UP100030508C4 JAINER190_UP100030508C4 JAINER190_UP100030508C4 JAINER190_UP100030508C4 JAINER190_UP10003059F7A JAINER190_UP10003059F7A JAINER190_UP10003059F7A JAINER190_UP10003059F7A JAINER190_UP10003059F7A JAINER190_UP10003059F7A JAINER190_UP10003059F7A JAINER190_UP10003136CA3 JAINER190_UP10004136CA3 JAINER190_UP10004136CA3 JAINER190_UP10004136CA3 JAINER190_UP10004136CA3 JAINER190_UP10004136CA3 JAINER190_UP1000371CE16 JAINER	UniRef90_D3L2K5	GKVVANLFFEPSTRTRTSFELAEKFLSADVINW SASGSS
JAIRE190_13KC78 JAIRE190_13KC78 JAIRE190_13KC78 JAIRE190_13KC78 JAIRE190_13KC78 JAIRE190_12KC78 JAIRE1	UniRef90_G8NQ50 UniRef90_UPI00030508C4	GRILLATIFYEPSTRIRLSFEAAMQKLGGGVLIVENARDSS GKILLGILFDKPSTRTRVSFFAGMIOLGGOVLHUNGOFI
JniRef90	UniRef90_H3KC78	GKNIALI FEKTSTRTRSAFEVAAYDQGAHTTYFEPST S
Jnire Jnir	UniRef90_S3NGU7 UniRef90_UPI000369FF7A	GKVMGMI FEKSSTRTRVSFEAGMTQFGGSAII FLSSRDTQ NKTUAMI FDKSSTRTRVSFEAGMTQFGGHAII FUSD NDFQ
JINIKE190	UniRef90_D7E4C9	GQVVANLFFEPSTRTRSSFEDAAKRLSADTLNFA AATSS
JniRef90	UniRef90_UPI0004136CA3	QIFIIANLIFFEPSIKIKSSFEMAERKILGILEVIPF EAGSSS GRTLICTILIFFEASTRTRSSFOIIAATRIIGMDVI GFDASTSS
Junkergo_Uayayy6	UniRef90_B3TB95	NKT LAMI FEKPSTRTRVSFEI GMEQLGGHTVNLSEDOQMQH
JniRef90_U3AJS1	UniRef90_Q9K9V6 UniRef90_A0A059ITY7	KLIFIVIANLIFFEPSI KI RIVISFEIVIA E QRILIGILIHIV VINIVIDG ERSGMT QIIN MEFEASTRT QASEFII IA GKRILIGA DIVIM NIMA IVIA OSS
JAIRE190_UP1000371CE16 JAIRE190_UP1000374898A GK V V N L F Y E P S T R T R S S F E L A A K R L S A D G M G L S V K T S S S F S L A A K R L S A D G M R G L S V K T S S S S F S L A A K R L S A D G M R G L S V K T S S S S F S L A A K R L S A D G M R G L S V K T S S S S F S L A A K R L S A D G M R G L S V M L F F E N S T R T R T R S T F E L A A K R L S A D V L N L S A S Q S S J M R R R R R R R R R R R R R R R R R R	UniRef90_U3AJS1	GRTVVNLFFENSTRTSASFELAAKRLGADVVSM_NPRTSS
JniRef90_F9ZQ81	UniRef90_UPI000371CE16 UniRef90_UPI0003748984	QK V L A M
JAIREF90_A4GHT0 JAIREF90_L8MZ07 JAIREF90_Q84489 JAIREF90_UPI00035DD569 JAIREF90_UPI00035DD569 JAIREF90_UPI0002E5284A JAIREF90_UPI0002E5284A JAIREF90_USQLT6 JAIREF90_USQLT7 JAIREF90_USQ	UniRef90_F9ZQ81	GRTL VNLFFENSTRTRSTFELAAKRLSADVLNI SASQSS
JniRef90_Q84489 JniRef90_UP100035DD569 JniRef90_UP100035DD569 JniRef90_UP10002E5284A JniRef90_USQ1T6 GKVLIVTLFFENSTRTRSSFELAAKRLGAE IVNLDVGTSS JniRef90_USQ1T6 GKVLGLVFLKASTRTRSSFELAAKRLGAE IVNLDVGTSS JniRef90_L8LL50 JniRef90_R5PNX0 JniRef90_UP10002E678B2 JniRef90_UP10002E678B2 JniRef90_UP10002E678B2 JniRef90_H0E1A8 JniRef90_H0E1A8 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_GABATO JniRef90_GABATO JniRef90_GABATO JniRef90_G0ACV0 DRTLVMV FENSTRTRLSFEAAGM LGABLU NF SAAASS JniRef90_G0ACV0 DRTLVMV FENSTRTRLSFEAAGM LGABLU NF SAAAASS JniRef90_G0ACV0 DRTLVMV FENSTRTRLSFEAAGM LGABLU NF SAAAASS JniRef90_G0ACV0 DRTLVMV FENSTRTRLSFEAAGM LGABUV NM H AAAOSS JniRef90_G01M77	UniRef90_A4GHT0 UniRef90_L8MZ07	GKFLIGIL I FEKSSTRTRILSFEIVIGMNQLIGGKA SFLISIVIQDLIQ SKIVVANI I FEFSSTRTRNSFEILAAKRII 9 ADTIINIFA DGT 9 9
JniRef90_UP100035DD569 JniRef90_A8ERG2 JniRef90_A8ERG2 JniRef90_UP10002E5284A JniRef90_USQIT6 JniRef90_C5C683 JniRef90_L8LL50 JniRef90_L8LL50 JniRef90_UP100026C78B2 JniRef90_UP100026C78B2 JniRef90_UP100026C78B2 JniRef90_UP100026C78B2 JniRef90_UP1000381579F JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_G0ACV0 JniRef90_G0ACV0 JniRef90_G0ACV0 DR TL VMV	UniRef90_Q84489	GKKMLTYFEEPSTRTRUSFESAMYDLGGYVMSVENAVNSS
JiniRef90_U5QIT6 JiniRef90_C5C683 JiniRef90_L8LL50 JiniRef90_M1LRK1 JiniRef90_M1LRK1 JiniRef90_UPl00026C78B2 JiniRef90_M1LRK1 JiniRef90_M1LRK1 JiniRef90_M1LRK1 JiniRef90_M1LRK1 JiniRef90_M1DE1A8 JiniRef90_M3VB22 JiniRef90_M3VB22 JiniRef90_M3VB22 JiniRef90_M3VB22 JiniRef90_M3VB22 JiniRef90_M3VB22 JiniRef90_G7UQM6 JiniRef90_UPl000381579F JiniRef90_G7UQM6 JiniRef90_UPl000381579F JiniRef90_G7UQM6 J	UniRef90_UPI00035DD569 UniRef90_A8FRG2	GRIVINL FFEDSTRTRSSFEII AGKWLSADVINL SAKGSSGKI I VII FFENSTRTRSSFEII AAKRIIGAF II VAN DIVIGTSS
JniRef90_U5QIT6 JniRef90_C5C683 JniRef90_L8LL50 JniRef90_R5PNX0 JniRef90_M1LRK1 JniRef90_UP100026C78B2 JniRef90_N1LRK1 JniRef90_UP100026C78B2 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_UP100026C78B2 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_G7UQM6 JniRef90_G7UQM6 JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_G7UQM6 JNIRef90_G7	UniRef90_UPI0002E5284A	QFTVANLFFEPSTRTKLSFEMAERKLGLHVLSFEAGTSS
JniRef90_L8LL50 JniRef90_R5PNX0 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M1LRK1 JniRef90_M21XLJ00 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_G7UQM6 JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_G7UQM6 JniRef90_G7UQM6 JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_UP10000381579F JniRef90_UP10000381579F JNIREFDUX NET TREVER TRE	UniRef90_U5QIT6	GKV LIGIL V FILIK A STRTRIV SFSVA MY QILIG G QIV I DILI SPNTT
JniRef90_R5PNX0 JniRef90_M1LRK1 GAVLGNLFFEASTRTRSAFEVGAAFCRLGGSVCDTTGFTSS JniRef90_M1D00026C78B2 JniRef90_H0E1A8 JniRef90_H0E1A8 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_G7UQM6 JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_F4B3F0 JniRef90_G0ACV0 JniRef90_G01M7 GKNI ALIFEKTSTRTRSAFEVGAAFCRLGGSVCDTTGFTFSS HSS HSS HSS HSS HSS HSS HSS HSS HSS	UniRef90_L8LL50	GTVI ANL FFEPSTRTRSSFELLAAKRLSADILINF SPSTSS
JniRef90_UP100026C78B2 JniRef90_LP100026C78B2 JniRef90_LP100026C78B2 JniRef90_H0E1A8 JniRef90_M3VB22 JniRef90_M3VB22 JniRef90_G7UQM6 JniRef90_G7UQM6 JniRef90_UP1000381579F JniRef90_UP1000381579F JniRef90_GAU JniRef90_G0ACV0 JniRef90	UniRef90_R5PNX0	GKNI ALI FEKTSTRTRSAFEVGAHDQGAGTTFFES HSS
JniRef90_X1XJ00 JniRef90_H0E1A8 JniRef90_M3VB22 JniRef90_K0TH75 JniRef90_G7UQM6 JniRef90_UPl000381579F JniRef90_GAU JniRef	UniRef90_UPI00026C78B2	NKSLAMI FEKPS FRT RLS FAMA I QS MGGI AI ES VIGNT
JRINEE190_INDELIAO JRINEE190_IND	UniRef90_X1XJ00	GMTVANLEFENSTRTKCSFEMAERKLGLEVIPFELST SS
JniRef90_K0TH75 GQSVSMIFQKRSTRTRVSTETGMNLLGGQSLFLGPSDLQ JniRef90_G7UQM6 GRTVCTLFFEPSTRTRSSFQLAAQRLGADLINF DASTSS JniRef90_UP1000381579F GAVLGNLFFEASTRTRVSFGSAFCRLGGSVCDTTGFTFSS JniRef90_G4B3F0 DLTLANLFFENSTRTKLSFELAEKRLSADVINF SAAASS JniRef90_Q1D6L9 GKVVANLFFEDSTRTRTSFHMAAKGLGADVVNMH TGSS JniRef90_G2ITM7	UniRef90_H0E1A8 UniRef90_M3VB22	GRTVMTMFYENSTRTRVSFEVAGKWMSADVINVSASSS
JRIREF90_UP1000381579F GAVLGNLFFEFSIKIKSSFQILAAQKLGADILINF DASISS JNIREF90_F4B3F0 DITILANLFFENSTRTKLSFELAEKRLSADVINF SAAASS JNIREF90_G0ACV0 DRTLVMVFEKNSTRTKLSFEAGMHQLGGAAIVLN TRDS JNIREF90_Q1D6L9 GKVVANLFFEDSTRTRTSFHMAAKGLGASVLNWTH TGSS JNIREF90_G2ITM7	UniRef90_K0TH75	GQSVSMIFQKRSTRTRVSTETGMNLLGGQSL FLGPSDLQ
JniRef90_F4B3F0 DITI A N L F F E N S T R T K L S F E L A E K R L S A D V I N F S A A A S S JniRef90_G0ACV0 JniRef90_Q1D6L9 JniRef90_Q1D6L9 JniRef90_G2ITM7 GILT Q M N A F F F A S T R T I L S F F V A G K R L G A D V V N M H A A Q S S	UniRef90_G7UQM6 UniRef90_UPI000381579F	GAVLGNLFFEASTRTRVSFGSAF <mark>C</mark> RIIGGSV <mark>C</mark> DTTGFTFSS
JAIRET9U_GUACVU DRIJL VJMIV FEKNSIRIRLISFEAGMHQLLGGAAJIYLIN TRDS JAIRET90_Q1D6L9 GKVVANL FFEDSTRTRTSFHMAAKGLLGASVLNWTH TGSS JAIRET90_G21TM7 GILTOMNAFFASTRTI ISFFVAGKRIGADVVNMH AAOSS	UniRef90_F4B3F0	DUTI ANLEFENSTRIKLSFELAEKRLSADVINE SAAASS
Jaireigo G2ITM7 GITT OMNA FFFA STRTITIS FFIVIA GKRI IGA DIV VINMH A A OSS	UniRef90_G0ACV0 UniRef90_Q1D6L9	DRIJL VJMV FEKNSTRTRLSFEAGMHQLLGGAAJI YLLN TRDSGKV VANI FEFDSTRTRTSFHMAAKGI GASV I NWTH TGSS
	UniRef90_G2ITM7	GLT QMNAFFEASTRTLLSFEVAGKRLGADVVNMH AAQSS

	00 100 110 120
UniRef90_Q9CC11	90 100 110 120 LGRDETLQ DTARIVLISGYVDAII VWRTFGQHRILIDAMAAT
UniRef90_O19072	LGVN ESLKDTARVLSSMTDAVLARVYKQSDLDLL AQE
UniRef90_D7UVF0 UniRef90_UPI00047C97CA	ITKGETLYDTLLTMQAIGVDVAVIRHFEEKY YEPLRKL IG HKESFKDTARVLGRMYDAIEYRGASQHGV ETLAKY
UniRef90_F7NRH0	II IS K G F S II I F D T A R IV L IS S Y S D IV L IA M R H P Q A G S IV IA F F A F G S R
UniRef90_J0UXH5	MAKGESII IY DTSRIVIMSGYIVIDAMIVI IRHPEQGSIVIAEFARATN
UniRef90_A5EVP6 UniRef90_UPI00037BD32E	ISK GESLS DT ARVIA GYADVIVMRHPDQGSVAEFASKIN VEKGESLYDTVRTLESMGIDAGVIRLKPIGLLEELAEK V
UniRef90_B2GAF2	HIGHKESVKDTARVLIGGMFDGILEYRGFSQRNVEILLAEYS
UniRef90_D0YSU9	HIGHKESVKDTARVLGGMFDGIEYRGFSQRNVEILAEYS VSKGESLKDTALTLQAMRVDGIVIRHRFSGAAYRAHAGWS
UniRef90_C5QNI5 UniRef90_D3QAF4	LGKKESV EDTAKVLGRMFDGIEFRGFSQETVEQL AEF HLSRGETIEDTARVLSGYVDAIVIRTY GDDRLQALAAA
UniRef90_G2MJQ3	SVKKGESI ADTVRVI EGYADGI VI RHPREGAAA MAAFFV
UniRef90_H2G025	GKRETVQDFAANLSRW <mark>C</mark> DALVARVYDHQTLVEMTEHA
UniRef90_M1GDG6 UniRef90_B2TQ29	GKRETVQDFAANLSRWCDAIVARVYDHQTLVEMTEHA IGREEPL KDTIRVLSRYVDCI I IRTFEQKRLYELIQLG QIGRGEPLEDTARVLSRFLNGI MIRTFSQDDI ETLAKY
UniRef90_Q7VP68	IIIG HKESMKDTARIVIIGRMYDAIIIDYRGEKOATIVINEII AKY
UniRef90_B5YA17 UniRef90_C3N688	VKKGESLKOTVLTLEAMGLEAIVTRHSRNG VPAYLSSCS IAKGENL ADTIRMLNNYSNC VMRHKFDGAA LFASELS
UniRef90_D3QBD9	IVISKGESILIKDI AILILIDAMGADAIVVVIRHSAAGAANRILILI GWILL
UniRef90_R4LVY4	G R G E S L Q D A G R V V S R Y A S A M V F R T H G D E R L A E L A S D
UniRef90_I4N3B9 UniRef90_A1AV91	II IK K N F DIL I IN T M R TIL IK A M QIL ID M F IV L IR H K Q N GIL IP H H IV V IQ H IL IK
UniRef90_A6FMN9	QLGHGETIADTARVLSRYVDLIMIRTFDESVLLEMADYA MGKKESI ADTARVLGRMYDGIEYRGYSQDLVTELSNYA
UniRef90_D3R0J1 UniRef90_H3NSH0	MCDCEDII ICDTADIVI ICCM IVIDII VIMII IDTEALIADIVICII IC A CN
UniRef90_G5JK30	MGKKESPKDTARVLGGMFDGIEYRGFSQRTVEQLAEHS
UniRef90_A0A011QF61	QLQRGESIEDAAQVISRMSDVVMIRTEEQALIERFADHS
UniRef90_A2C427 UniRef90_F6PKA8	LGRGEPI KDTARVLSRYCDALAIRTFSQQELEEY AEW KKGETL ADAVRVLSGYSDVVVLRHPTPGVVA SASRFS
UniRef90_B3T369	<u>SIHKGETLGDTVKVISSY<mark>C</mark>DVLVLRHSLDGS</u> SRFAAELS
UniRef90_UPI0003B535F4 UniRef90_UPI00042644E3	LGRGETV ADTAQVLSRYVDAI MLRTDGHDNVEEMARHA MGKKESI EDTARVIGRMYDGIEYRGEAQSIVEDI AAN
UniRef90_K9VG54	MGKKESI EDTARVLGRMYDGI EYRGFAQSIVEDL AAN LTKGETI LDTAKTYLAMGTDLMVIRHEQAGIASEMDRLGS
UniRef90_F2I7H0 UniRef90_UPI000379FEB9	MG HKESI ADTARVLGRMYDGIEYRGFSQDVVEELAEYAQLARGETIKDTALMLNRYFDGAILRVYKHSDLEEF AKFQLGRGEPVEDAAQVISRMCDIVMIRTYEQELIERF AAN
UniRef90_A6GU60	QLGRGEPVEDAAQVISRMCDIVMIRTYEQELIERF AAN
UniRef90_A0A017T1R7	TTKGEGLLDTVQNLQAMQPDVLVIRHGASGALHHVAPRVR IGERESV ADVARVLGRQAGEIVWRTFAQSDLEEMAAHS VGERESIEDIARLLSRYNDAIVARLHEHEIIETLAKHA
UniRef90_E9UV96 UniRef90_Q8KDE2	VIGERESIJE DI ARILLISRYNDAI VARILHEHEILIETILAKHA
UniRef90_G2LFB8	L AKGET L RDT L T L DAMQPD VVVV RHA V AG V PHFMARFS
UniRef90_UPI0002486DFE UniRef90_E6WUW8	TRKNELLMDTMQTLKAMQIDMFVIRHKKNG <u>LPHHV</u> AANLE TRKGETARDTLRNLEAMGVR <u>GFV</u> VR <mark>HP</mark> DDGAVQLADAAGE
UniRef90_UPI0003B36084	OILIGRGETILIEDTAKIVLISREIVIDILVIMILIRANN <mark>H</mark> ODIVVIDE AET
UniRef90_D4LFE6 UniRef90_W6NLA7	QI GRGEPVEDTARVLSRYI DGI MIRTFAQKEVEDLAEYG HUGSGESLKDSARVLGRMFDGI EYRGFSQRNVELLAEYS
UniRef90_J8IZ34	AAKGETILIS DTII IQIVIMQTFADILLVVIRHPTNGAILIK PILIREII IA
UniRef90_E8QYU1	<u>LSKGESLLDTAWNLEAMGADVLVVRHPTPGAAHLLA</u> RS <mark>C</mark>
UniRef90_UPI0003665DF4 UniRef90_UPI000255E8B2	II IG HKFSII IKDTARIVI IGRMYAAII IQYRGAAQATIVIFQII HRY
UniRef90_B8GF03	MAKGET L ADT I R V V SGY V DA I V L R HPREGAAR L ASE V S
UniRef90_C7RF25 UniRef90_D5UES9	MGKKESI ADTĀKVLGRFYDGIĒYRGFRQDLVĒĒL ADN VSKGESLKDTALTLQAMGADAVVIRHQASGAPHLAHSGWT
UniRef90_R9N6D3	OILIG K K E SILIS D T A RIV LIG R M Y E GILIE Y R G E G O E IL VIE E ILI A K Y
UniRef90_D3L2K5 UniRef90_G8NQ50	VSKGESLODTAKTI KAMGVDAV VVRNREVGTPEYLINKLS SATKGESLADSLRVISGYADVIALRHFEEGTAKLAA KMS
UniRef90_UPI00030508C4	QLGRGEPISDTAKVLSSYLDAVMLRTLSHERV <u>V</u> ELAE <mark>H</mark> A
UniRef90_H3KC78 UniRef90_S3NGU7	QIGHKESIKDTARVLGGMYDAIEYRGFAQTTVEEL AQY LGRGEPIEDSARVISSM LDLVMIRTFGHELVERF AEN
UniRef90_UPI000369FF7A	L GRGER TDSA VI SSM V DA V M L R SSHED I EFSKYSN
UniRef90_D7E4C9 UniRef90_G9QMK0	MTKGETILDTAKTYLAMGTDIMVIRHKEAGVPHEMDRLGV VLKGETLYDTVRTLESLGVDAVVIRH EEDEYYRHLIGKV
UniRef90_UPI0004136CA3	VLKGETLYDTVRTLESLGVDAVVIRH EEDEYYRHLIGKV TKKGETALDTLRTLEAMGVDVFVIRHADDGAVAALAAAAA S RGESVGDTAKTLSRYVDALVARVYEHS FLEDLAKY
UniRef90_B3TB95 UniRef90_Q9K9V6	S RGESVGDTAKTLSRYVDAIVARVYEHS FIEDLAKY SVQKGETLYDTAKTLESIGVNALVIRHRQDRYFEELKDRI
UniRef90_A0A059ITY7	VKKGETLI DTALTLNAMHPDLLVVRHGNSGAVDLLAQKVN
UniRef90_U3AJS1	VKKGETLIDTALTLNAMHPDLLVVRHGNSGAVDLLAQKVNVAKGETLIDTAMTLNAMKPDILVVRHSASGAAELLSQKVALGRGEPILEDSARVLSRMTDLIMIRTEGHDKLKTFAKHS
UniRef90_UPI000371CE16 UniRef90_UPI000374898A	VITKGESLVDTAKTLKALGADAVVIRHGIPGAAKLLAE TI
UniRef90_F9ZQ81	TTKGESI I DTVDNI MAMOVDGEL VRHPEAGAAHI I ARHGE
UniRef90_A4GHT0 UniRef90_L8MZ07	
UniRef90_Q84489	KAKGETI FOTWRTI ERYADWEVI RSNTAGTA EKAARWS
UniRef90_UPI00035DD569 UniRef90_A8ERG2	T S K G E S L R D T V L T V T A M G L D G L V M R H S A S G A A H Q V A G W L T <u>K</u> K G E T <u>M</u> Y D T V A N I N A <u>M</u> G <u>P</u> D A I V I R H S E <mark>C</mark> G L P E <u>S</u> L <u>I G</u> Y V
UniRef90_UPI0002E5284A	TSKGESLRDTVLTVTAMGIDGLVMRHSASGAAHQVA GWL TKKGETMYDTVANINAMGPDAIVIRHSECG LPESLIGYV TIKGESLYDTVRTLEAIGVDAVVIRHEKDQFYEELLSG L QVGRGEPVRDTARVLSRYVDGLAIRTFAQAELEEYARYA
UniRef90_U5QIT6	QVGRGEPVRDTARVLSRYVDGLAIRTFAQAELEEYARYA VSKGESLKDTAQTLQAMGAD <u>AV</u> VVR <mark>H</mark> WASG <u>A</u> PHRAHA <u>G</u> WL
UniRef90_C5C683 UniRef90_L8LL50	ILIT K G E TII LID T A K T YIVIA M G A NILIFIV I IR H A Q A GIVIP K E M D RILIN S
UniRef90_R5PNX0	QII IG H K F SII IK D T A RIV I IG QII IF D AII IF F R G F K Q F T IVIF F II IA A Y A
UniRef90_M1LRK1 UniRef90_UPI00026C78B2	MAKGESIY DTSRVIGGYVDIMVVRHPDRGSVAEFAKATN RKQETPADMARVLNGYAHFIMVRTHADEILQEMAAYA
UniRef90_X1XJ00	VQKGËSLYDT <mark>C</mark> KTLËSÜGVDALVIRH SENAYYDTLQGL
UniRef90_H0E1A8 UniRef90_M3VB22	VQKGESLYDTCKTLESIGVDALVIRH SENAYYDTLQGLLGRGEPI ADTARVLSAYAAAIVIRTF GQETVEEVAAAVNKGESLRDTAKTLRALGADALIVRHPASGSAAQIARWTN
UniRef90_K0TH75	LGVNESM RDTALVLSRFNSLVLARVFAHDDLLELSKYA
UniRef90_G7UQM6	LGVNESM RDTAL V LSRFNSL V LARVFAHDDI LELSK Y A ARKGETALDTLRNLEAMGVRGFI VRHPEDGAAMLARHAHE MAKGESI Y DTSRVMSGYVDAL V VRHPEKGSVAEFAAATN
UniRef90_UPI000381579F UniRef90_F4B3F0	IVIKKGETILTIDTIVIN NILLISMKIVIDMIV VIM RHPNPGA GIVIFILISKHILLI
UniRef90_G0ACV0	QIL IG R G E PIVIE D A A QIVIM S R M C DIV I IMII IR T F G Q DII I IE R F A T H S
UniRef90_Q1D6L9 UniRef90_G2ITM7	VSKGETLLDTARNIEATGPVAIVMRHRSSGAPHLVAKHVKVKKGETLIDTAVTLNSMRAGVMVIRHMSSGAVQLIADKVD
 	

UniRef90_Q9CC11	130 A T V P V V N A L S D E F H P C Q V L A D L Q T T A E R K G S L N G L R L S Y F
UniRef90_O19072 UniRef90_D7UVF0 UniRef90_UPI00047C97CA UniRef90_F7NRH0	A S P N G S D Y H P Q L A D Y T L Q E H Y G A K G T L S W D S I N G G D G C G E H P S Q C L L D F T R E Q F G T F K G K V A M A G V P V Y N G T D E Y H P T Q M A D V M T M R F H D K P A T K Y A Y V
UniRef90_J0UXH5 UniRef90_A5EVP6 UniRef90_UPI00037BD32E	I PVVNGGDGAGEHPSQALLDLYTISTEFSRLDGAHIALV
UniRef90_B2GAF2 UniRef90_D0YSU9 UniRef90_C5QNI5 UniRef90_D3QAF4	
UniRef90_G2MJQ3 UniRef90_H2G025 UniRef90_M1GDG6	SI PI I NALTOHGHPCQALADFILII SEHFDDLSKVHLAYV
UniRef90_B2TQ29 UniRef90_Q7VP68 UniRef90_B5YA17 UniRef90_C3N688	S S I P I I N G L T D A É H P C Q V L A D L M T I R E Y K N L E G L N V A F L A G V P V F N G L T D E F H P T Q M L A D L T M L E N C E K P L N Q I S Y V Y M K A S I I N A G D G Q H E H P T Q A L L D L F T I Q Q Y K G R I E G L K V L I V
UniRef90_D3QBD9 UniRef90_R4LVY4 UniRef90_I4N3B9	DGSVVNAGDGTHEHPTQALLDAYTIRQRLEGLRVAVVVHIPVINALTDGFHPCQLLADLQTVRERLGGTAGRTLTYVVPVINAGDGPGEHPSQALLDLYTIQREFSRLDKAHIVFA
UniRef90_A1AV91 UniRef90_A6FMN9 UniRef90_D3R0J1 UniRef90_H3NSH0	S S I PI I N G L I D A E H P C Q V L A D L M I I R E Y K N L L E G L N V A F L A G V P V F N G L T D E F H P T Q M L A D L T M L E N C E K P L N Q I S Y V Y M K A S I I N A G D G Q H E H P S Q A L L D L F T I Q Q Y K G R I E G L K V L I V D L P I I N A G D G K H E H P T Q A L L D L Y T I R Q R L G R L E G L R V A V V V H I P V I N A L T D G F H P C Q L L A D L Q T V R E R L G G T A G R T L T Y V V P V I N A G D G P G E H P S Q A L L D L Y T I Q R E F S R L D K A H I V F A D V S I L N A G D G N A H P T Q A L L D M L S I R Q H K K T F E N L S V A I V D V P V I N G L T N R T H P C Q L M A D I M T Y E E H R G P I A G R K V V W S G V P V W N G L T D Q F H P T Q M L A D L L T I E E H F G Y L K G L N F V F M S S V P V I N A L T D D Y H P C Q L L A D M Q T W M E H R G D V Q G K T V C W L
UniRef90_G5JK30 UniRef90_A0A011QF61 UniRef90_A2C427	GVPVWNGLTDEDHPTQVLADFLTAKEVKKPYHEIHFTYV RVPVINGLTNEYHPCQLIADIFTEVEHRGPLQGRTVAWI
UniRef90_F6PKA8 UniRef90_B3T369 UniRef90_UPI0003B535F4 UniRef90_UPI00042644E3	STIPVINALT DLEHPCQSLADYLT I QEKFGELKGINLSYIRCPLISGODGDGEHPTQALLDVFTIREELGTVNGMTVTMVNKPVINAGSGTEEHPTQTIQDLFTIKKEKKKIDGLTSVPVINALTDLSHPCQLVADLLTIVEHGKALPGLQLAWLAGVPVWNGLTTEFHPTQMIADMLTVKENFPSLKGLKFVFM
UniRef90_K9VG54 UniRef90_F2I7H0 UniRef90_UPI000379FEB9	RVSV L N A G D G Q H E H P S Q G L L D L F T I C S L L D T L A G K K I A V V G V P V W N G L T D E W H P T Q M L A D M L T V E E H Y G H L K G L K F V Y M F D G P V I N A L S D L E H P C Q I I A D F Y T I R E K I G N L N K V K I A Y L
UniRef90_A6GU60 UniRef90_A0A017T1R7 UniRef90_E9UV96 UniRef90_Q8KDE2	GIV PV V N A L T DE F H P C QL L A DE T L Q E H K G S L A G V T A A F L DI PV I N A L T DE S H P C QV L A D A F T L V E K G L WR D D L K V V F V
UniRef90_G2LFB8 UniRef90_UPI0002486DFE UniRef90_E6WUW8 UniRef90_UPI0003B36084	RAHVINAGDGEHEHPTQALLDAFTLRRHFGRLAGLQIAIL GVSIINAGDGINAHPTQALLDMLTIRQYKKSFENLSVAIV GTALVNAGDGRSAHPTQGLLDMLTLRQKGSDFSRLKVLIV GSVPVINGLTNKSHPCQIMADLQTLEEKGLDLKGARIAWV
UniRef90_D4LFE6 UniRef90_W6NLA7 UniRef90_J8IZ34	SIPIINGLT DLSHPCQVLADLMTIREFKGSFDGLKMCYI KLPVWNGLT DEDHPT QVLADFLT AKEYNKPFNEMNFVYI QVPIINGGDGSNEHPT QTLYDLFTINEIFGKIDNLTIGFV
UniRef90_E8QYU1 UniRef90_UPI0003665DF4 UniRef90_UPI000255E8B2 UniRef90_B8GF03	QASIINAGDGAHEHPTQGLLDLMTIRKAKGRLEGLTVGLLSRVPVINGLTNEYHPCQIVADIFTYIEHRGAIQGKTVAWVAGVPVYNGLTDEWHPTQMLADALTMSEHVGKPWAQMSFAYSVPVINAGDGAGQHPSQTLLDLYTIRQS MPIDGINIGLLAGVPVWNGLTDKWHPTQMIADMLTIKENFGRLRGLNFVYM
UniRef90_C7RF25 UniRef90_D5UES9 UniRef90_R9N6D3 UniRef90_D3L2K5	H G A V V N A G D G M H Q H P T Q A L L D A Y T L R R H G R D L S G A H V A L V A G V P V W N G L T N E F H P T Q M L A D A L T L K E K L G R I K G V K L A Y L
UniRef90_G8NQ50 UniRef90_UPI00030508C4 UniRef90_H3KC78	TIPIINGLTDLYHPCQALADLLTIQEEKGKLEGIKMVYI AGVPVENGLTDEWHPTQMLCDLMTMKESCGKKWKDIAFTY
UniRef90_S3NGU7 UniRef90_UPI000369FF7A UniRef90_D7E4C9 UniRef90_G9QMK0	SSVPVINALTODHHPCQLLADIQTFVEHRGSIKGKTVAWIKPVINALSDLSHPCQLLADLMTYQEQRGSINGKKVAWIKVSVLNAGDGQHEHPSQGLLDLFTICTLIDPLEGKKIAIV
UniRef90_UPI0004136CA3 UniRef90_B3TB95 UniRef90_Q9K9V6	PTRVINAGDGRNAHPTQGLLDMLTLRRKGPDFSRLTVVIA ATIPVINGLSNSYHPCQTLADMMTIKEHKKKFKGLKIAWI NIPIINAGDGCGHHPTQSLLDLWTIQQEFGRFSNLITVIS CAV LNAGDGRHEHPTQALLDALTIRRAKGRLHRLTVAIC
UniRef90_A0A059ITY7 UniRef90_U3AJS1 UniRef90_UPI000371CE16 UniRef90_UPI000374898A	A A V V N A G D G R H E H P T Q A L L D M L S L R R A F G D V G G L T V A I C A V P V I N A L T D S F H P C Q L L A D V Q T Y V E H R G S I Q G K T A A W I D I P V L N A G D G A H E H P T Q A L L D I Y T I N E R K G D I K G Q K V A I V
UniRef90_F9ZQ81 UniRef90_A4GHT0 UniRef90_L8MZ07 UniRef90_Q84489	R A L V V N A G D G Q H A H P T Q A L L D V F T L R R L A G P V E Q Q V V C L S S V P V I N G L S N K S H P C Q L L A D L L T Y Y E E K G S I K G K K I A W C K V A I L N A G D G K H E H P S Q A L L D L L T L C M Y L N D L K G K K V A I V G I P V I N A G D G A G Q H P T Q A L L D V Y T I Y D K F G D L N D L T I V V V
UniRef90_UPI00035DD569 UniRef90_A8ERG2 UniRef90_UPI0002E5284A	DCPIINAGDGTHEHPTQALLDGYTLTRREGSEEGKHVATV DCPIINAGDGRHSHPTQALLDDFTIYEHFNGTEGKKIAIV NLAIINAGDGTGOHPSOCLLDDIYTIKOEFGKFEGIKVTIV
UniRef90_U5QIT6 UniRef90_C5C683 UniRef90_L8LL50 UniRef90_R5PNX0	A A P V I N A G D G C H G H P S Q L L D A F T L R R R G T D L A G R H V V V V G W G V J N A G D G C H G H P S Q A L L D A F T L R R G T D S L Q G K K A L V
UniRef90_M1LRK1 UniRef90_UPI00026C78B2 UniRef90_X1XJ00	VPVVNGGDGPGEHPSQALLDLYTIKNEFKRLDGSCVLLV KVPVINGLSALHHPCQIMADLLTLWEQFGSFAGLTLAYI NLPVINGGDGSGHPPTQSILDIMTLYFFYGYFFGIKILLS
UniRef90_H0E1A8 UniRef90_M3VB22 UniRef90_K0TH75 UniRef90_G7UQM6	DPSVINAGDGMHEHPTQALLDAYTIRQRLGGLDGRRILIV TVPVINALSDLHHPLQTLADLMALEDHFGNLKGKTLAWV
UniRef90_UPI000381579F UniRef90_F4B3F0 UniRef90_G0ACV0	G T A V I N A G D G R A S H P T Q G L L D M L S I R Q K G P D F S M R K I V M V I P V V N A G D G P G E H P S Q A L L D L Y T I L T E F S R L D G A H V A M V K A S I V N A G D G A H E H P T Q A L L D S Y S I R E R L G D V A G K N V V I V R V P V I N G L T N E Q H P C Q V L A D V F T Y I E H R G S I A G K K V A W I C A V I N A G D G T H E H P S Q A L L D A F T L R Q R W G S L D G R T V L I V
UniRef90_Q1D6L9 UniRef90_G2ITM7	CAV II NAGDGTHEHPSQALLDAFTLRQRWGSLDGRTVLIV CPVLNAGDGRHEHPTQALLDALTLRRHKGSFEG <u>LI</u> VT <u>L</u> C

REPRESENTATION OF THE PROPERTY UniRef90_Q9CC11 UniRef90_O19072 UniRef90_D7UVF0 UniRef90_UPI00047C97CA UniRef90_F7NRH0 UniRef90_J0UXH5 UniRef90_A5EVP6 UniRef90_ASEVP6 UniRef90_UPI00037BD32E UniRef90_B2GAF2 UniRef90_D0YSU9 UniRef90_C5QNI5 UniRef90_D3QAF4 UniRef90_C3MJQ3 UniRef90_H2G025 UniRef90_M1GDG6 UniRef90_B2TQ29 UniRef90_Q7VP68 UniRef90_B5YA17 UniRef90_C3N688 UniRef90_D3QBD9 UniRef90_R4LVY4 UniRef90_I4N3B9 UniRef90_A1AV91 UniRef90_A6FMN9 UniRef90_D3R0J1 UniRef90_D3R0J1
UniRef90_B3NSH0
UniRef90_G5JK30
UniRef90_A0A011QF61
UniRef90_A2C427
UniRef90_B3T369
UniRef90_UP10003B535F4
UniRef90_UP100042644E3
UniRef90_UP100042644E3
UniRef90_UP1000379FEB9
UniRef90_A6GU60
UniRef90_A0A017T1R7
UniRef90_B0U96
UniRef90_Q8KDE2
UniRef90_Q8LFB8 UniRef90_Q8KDE2
UniRef90_G2LFB8
UniRef90_UPI0002486DFE
UniRef90_E6WUW8
UniRef90_UPI0003B36084
UniRef90_D4LFE6
UniRef90_W6NLA7
UniRef90_J8IZ34
UniRef90_E8QYU1
LIDIREf90_UPI0003665DF4 UniRef90_UPI0003665DF4 UniRef90_UPI000255E8B2 UniRef90_B8GF03 UniRef90_C7RF25 UniRef90_D5UES9 UniRef90_R9N6D3 UniRef90_D3L2K5
UniRef90_D3L2K5
UniRef90_G8NQ50
UniRef90_UPI00030508C4
UniRef90_H3KC78
UniRef90_UPI000369FF7A
UniRef90_D7E4C9
UniRef90_D7E4C9
UniRef90_G9QMK0
UniRef90_B3TB95
UniRef90_Q9K9V6
UniRef90_Q9K9V6
UniRef90_UPI000371CE16
UniRef90_UPI000371CE16
UniRef90_UPI000374E98A
UniRef90_UPI000374E98A UniRef90_D3L2K5 UniRef90_Q84489 UniRef90_UPI00035DD569 UniRef90_A8ERG2 UniRef90_UPI0002E5284A UniRef90_U5QIT6 UniRef90_C5C683 UniRef90_L8LL50 UniRef90_R5PNX0 UniRef90_M1LRK1 UniRef90_UPI00026C78B2 UniRef90_X1XJ00 UniRef90_H0E1A8 UniRef90_M3VB22 UniRef90_K0TH75 UniRef90_G7UQM6 UniRef90_UPI000381579F UniRef90_F4B3F0 UniRef90_G0ACV0 UniRef90_Q1D6L9

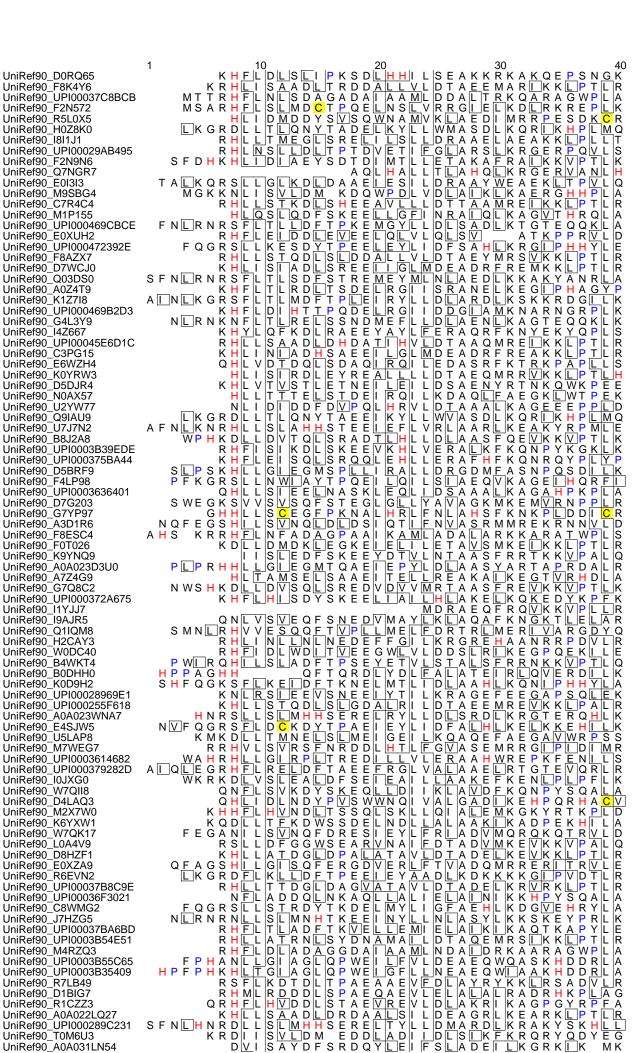
UniRef90_G2ITM7

```
| CRESS | CREATE | CR
UniRef90_Q9CC11
UniRef90_O19072
UniRef90_D7UVF0
UniRef90_UPI00047C97CA
UniRef90_F7NRH0
UniRef90_J0UXH5
UniRef90_A5EVP6
UniRef90_UPI00037BD32E
UniRef90_B2GAF2
UniRef90_D0YSU9
UniRef90_C5QNI5
UniRef90_D3QAF4
UniRef90_G2MJQ3
UniRef90_H2G025
UniRef90_M1GDG6
 UniRef90_B2TQ29
 UniRef90_Q7VP68
 UniRef90_B5YA17
 UniRef90_C3N688
UniRef90_D3QBD9
UniRef90_R4LVY4
 UniRef90_I4N3B9
UniRef90_A1AV91
UniRef90_A6FMN9
UniRef90_D3R0J1
UniRef90_D3R0.11
UniRef90_D3R0.11
UniRef90_H3NSH0
UniRef90_G5JK30
UniRef90_A0A011QF61
UniRef90_P6PKA8
UniRef90_B3T369
UniRef90_UP10003B535F4
UniRef90_UP100042644E3
UniRef90_UP1000379FEB9
UniRef90_UP1000379FEB9
UniRef90_A6GU60
UniRef90_A0A017T1R7
UniRef90_E9UV96
UniRef90_Q8KDE2
 UniRef90_Q8KDE2
UniRef90_G2LFB8
UniRef90_UPI0002486DFE
UniRef90_UPI0003B36084
UniRef90_UPI0003B36084
UniRef90_D4LFE6
UniRef90_W6NLA7
UniRef90_J8IZ34
UniRef90_E8QYU1
 UniRef90_UPI0003665DF4
 UniRef90_UPI000255E8B2
 UniRef90_B8GF03
 UniRef90_C7RF25
 UniRef90_D5UES9
 UniRef90_R9N6D3
UniRef90_D3L2K5
UniRef90_D3L2K5
UniRef90_G8NQ50
UniRef90_UPI00030508C4
UniRef90_H3KC78
UniRef90_UPI000369FF7A
UniRef90_D7E4C9
UniRef90_D7E4C9
UniRef90_G9QMK0
UniRef90_B3TB95
UniRef90_Q9K9V6
UniRef90_Q9K9V6
UniRef90_UPI000371CE16
UniRef90_UPI000371CE16
UniRef90_UPI000374E98A
 UniRef90_D3L2K5
 UniRef90_Q84489
 UniRef90_UPI00035DD569
UniRef90_A8ERG2
UniRef90_UPI0002E5284A
UniRef90_U5QIT6
UniRef90_C5C683
UniRef90_L8LL50
 UniRef90_R5PNX0
UniRef90_M1LRK1
 UniRef90_UPI00026C78B2
 UniRef90_X1XJ00
UniRef90_H0E1A8
                                                                                                                ADNQRYTFFAN
 UniRef90_M3VB22
 UniRef90_K0TH75
 UniRef90_G7UQM6
 UniRef90 UPI000381579F
 UniRef90_F4B3F0
UniRef90_G0ACV0
UniRef90_Q1D6L9
```

UniRef90_G2ITM7

UniRef90_Q9CC11 UniRef90_O19072	250 260 270 280 VKPFWPFQVNARLVGLADSEALVLHCLPRGDEITNEVMDG KRLQAFYQVTMKTAEVAASDWTFLHCLPRKEEVDDEVFYS
UniRef90_D7UVF0 UniRef90_UPI00047C97CA UniRef90_F7NRH0	ETYHRKYGLTTDLAKTMKPNAILIMHPSPVNRDLAGELVEA
UniRef90_J0UXH5 UniRef90_A5EVP6 UniRef90_UPI00037BD32E	GSFTADFQVNKALIRCCGPDVLVMHPLPRDHDLSVDLNHD
UniRef90_B2GAF2 UniRef90_D0YSU9 UniRef90_C5QNI5	A K RILIEIL LIK P Y QIVIT K EIVIM N P K AII IF E H CILIP A F H N T T D EIVIF E S G E Y H R A Y GILID R S R F E RILIP E K TIV I IM H P G P M G M E III C A E A A D S
UniRef90_D3QAF4 UniRef90_G2MJQ3 UniRef90_H2G025 UniRef90_M1GDG6	I NL LKDYQVNKAMFDTGKDDTIELHCLPAFHDTTDEIFRS LDTLAPYQVNAELLDLAADHAIVLHCLPRGEEITDEVMDG RKVAGRYRVDADSLNAAADDLTVIHPLPRVDEIAPEVDEY EIYMPYQINQALLDKTGASKVLHCQPAHREWEITSEVMDG LEDFKDFCVDNTLMNQATPSVKFLHCLPRGEEVSDQVIES
UniRef90_B2TQ29 UniRef90_Q7VP68 UniRef90_B5YA17	EIYMPYQINQALLDKTGASKVLHCQPAHREWEITSEVMDG IEDFKDFCVDNTLMNQATPSVKFLHCLPRGEEVSDQVIES MKAFDGFQINDKLMSYAKSNAIVLHCLPAHEEITAKVLEE INMLMPYQVTPALMQRTNPNVKFMHCLPNGIEVIEEVFES EEYHRFYGLTKERMAKAKEDLLVLHPGPMGVEIDEEVAYC EKVKESYVVDLKLVNMMKKDGIILHPLPRVTEIDRKVDKT
UniRef90_C3N688 UniRef90_D3QBD9 UniRef90_R4LVY4	LTPFRPYQINQELLTRAAADAIVLHCLPRGEEITDEVLDG
UniRef90_I4N3B9 UniRef90_A1AV91 UniRef90_A6FMN9	EGYSADFQLNQALNATCGPHTLIMHPLPRDNDLSVDLNHD PNEQEYFDNFPKRLALAKPDAIVMHPGPRGVEIDSNVADG ERRHNMYQVNEELMAHAKPDALFMHCLPAHEEVTSQVMDG
UniRef90_D3R0J1 UniRef90_H3NSH0 UniRef90_G5JK30 UniRef90_A0A011QF61	MREQAAYQLNQDLLDLADPEALYLHCLPSFHDTDTDVFES ARBHAFWOVDTEMMRVARPEALFHCLPSFHDTDTDVFES ARBHAFWOVDTEMMRVARPEALFHCLPSFHDTDTDDG
UniRef90_A2C427 UniRef90_F6PKA8 UniRef90_B3T369	KK FENYK V D Q K L I E L A D E G A I L H C L P R G E E T E E A L E S F N M T N N F V L T P H M T R A K Q R M V V L H P L P R N N E I VE S V D S D A K V K G S Y V I G S D M V K K M K D D A I L L H P L P R L D E I S A D V D N T
UniRef90_UPI0003B535F4 UniRef90_UPI00042644E3 UniRef90_K9VG54	E G Y S A D F Q L N Q A L N A T C G P H T L I M H P L P R D N D L S V D L N H D P N E Q E Y F D N F P K R L A L A K P D A I V M H P G P R G V E I D S N V A D G E R R H N M Y Q V N E E L M A H A K P D A L F M H C L P A H E E V T S Q V M D G I K V L K P Y Q V N K A V M D N A D P E A L F M H C L P R G E E L T A E L M D N I K L L E P Y R V T K E M M K K T N P H T I F E H C L P S F H D T D T D V F E S A R R H A F W Q V D T E M M R V A R P E A L F M H C L P R G E E I T A E L M D N I K L F E N Y K V D Q K L I E L A D E G A I I L H C L P R G E E I T E E A L E S F N M T N N F V L T P H I M T R A K Q R M V V L H P L P R N N E I V E S V D S D A K V K G S Y V I G S D M V K K M K D D A I I L H P L P R G E E V T P A V I D G I E A L S P Y R V T Q G L M D K A D A D A L F L H C L P R G E E V T P A V I D G I E A L S P Y R V T Q G L M D K A D A D A L F L H C L P R G V E I S S D L M D D I S L L K D Y Q V N K K A M E N A K P T A I F L H C L P A F H D E S D E V F E S
UniRef90_F2I7H0 UniRef90_UPI000379FEB9 UniRef90_A6GU60 UniRef90_A0A017T1R7	LRLKERDYQVNEKLFEMNPNAYFMHCAPWGEEVTESVVYG
UniRef90_E9UV96 UniRef90_Q8KDE2 UniRef90_G2LFB8	ARVFSPYALTTELLGHADPDAVVLHCLPRGKEI EAEVLDG LKAFAPFQINAKMVAEAKPSAVIMHCMPRGQEI SAEVMDG PSLGEYFTHFRERLAWAKPEAI VLHPGPINVEI ASDVADG
UniRef90_UPI0002486DFE UniRef90_E6WUW8 UniRef90_UPI0003B36084	ARRRAFFQUDTEMMDVANPEALFMHCLPRGEEVAAEVIDG PTSREYFGLNAARLRLARPDAMVMHPGPRGVEIDPAVADG ARVFSPYALTTELLGHADPDAVVLHCLPRGKEIEAEVLDG LKAFAPFQLNAKMVAEAKPSAVIMHCMPRGQEISAEVMDG PSLGEYFTHFRERLAWAKPEAIVLHPGPRGIEVDSSVADG PNYFENYGITNETLKLAWAKPEAIVLHPGPRGIEVDSSVADG PSYHARYGLTAGRLRRAAPNAAVLHPGPRGUEITDEVADG LSDLAPFMVDDQLMGAANGGAIFLHCLPRGEEVSASVIDG KRRIAFYQINDEIMAAAKPDAMVMHCLPAHEEITAKVFEE LDLLIPYQVNKQLIDLCNNNEKFMHCLPAHEEITAKVFEE
UniRef90_D4LFE6 UniRef90_W6NLA7 UniRef90_J8IZ34 UniRef90_E8QYU1	LSDLAPFMVDDQLMGAANGGALFLHCLPRGEEVSASVIDG KRRIAFYQINDEIMAAAKPDAMVMHCLPAHEEITAKVFEE IDLIPYQVNKQLIDLCNNNEKFMHCLPSFHNVTDEVFES GS DLPIIDNEVLRQAKSSLAVMHALPRVNEIALEVDSN PSYSHFYGMTSRRLALAKPDLLILAPGPRGVELESQVADG QAAFADWCVDSEMMACAKPDALFMHCLPRGEEVSAEVIDG
UniRef90_UPI0003665DF4 UniRef90_UPI000255E8B2 UniRef90_B8GF03	QAAFADWCVDSEMMACAKPDALFMHCLPRGEEVSAEVIDG IDLLLPFQVDRAMMATGNPGAVFMHCLPAFHDTDDEVFES FNVASSYRITPELLRGTKEHMVVLHPLPRVDEIDPRVDKM IEQLHPFQVNQKVMDNAKEETIFMHCLPNGMEVTEDVFLS
UniRef90_C7RF25 UniRef90_D5UES9 UniRef90_R9N6D3	VKDLSPYQVNQKVMENAGNQAIFMHCLPAFHDVTDQVFES
UniRef90_D3L2K5 UniRef90_G8NQ50 UniRef90_UPI00030508C4 UniRef90_H3KC78	PSIDEYHNRWTELLRYAERNAI VMHPGPMGVEIESSVADG EALKDVYLIDSKIADKLKRHAIIMHALPRVNEIAPEVDSN QRDFKDFQVNEKLVLGAKDDYLFLHCLPRGEEVTGEVIDG
UniRef90_S3NGU7 UniRef90_UPI000369FF7A UniRef90_D7E4C9	E A I K D V Y L I D S K I A D K L K R H A I I M H A L P R V N E I A P E V D S N Q R D F K D F Q V N E K L V L G A K D D Y L F L H C L P R G E E V T G E V I D G I A L L M P Y Q V N A Q L M A S G N P E V K L M H C L P A F H N T T E E V F E S E K A F A D Y Q V N E K L V E F A N P D C L F M H C L P R G E E I S E N M L T H E S A F K G Y Q V D E K M M S A A K S D A L F M H C L P R G E E V S A D V I D G P S Y H Q L F G I T R N K L K L C K P N V K V L H P G P R G V E I S S D L M D D
UniRef90_G9QMK0 UniRef90_UPI0004136CA3 UniRef90_B3TB95	PSLEGYFRDYGRRLALAKPDAI VMHPGPMGVEI AGDVADG EKFLPSFQVNESLMKQAKNDAI FMHCLPRDQEVIT TEVIDG
UniRef90_Q9K9V6 UniRef90_A0A059ITY7 UniRef90_U3AJS1 UniRef90_UPI000371CE16	A S Y H E Q F G L T V K R E A R M K P K S I V M H P A P R N V E I A S E L V E C P S E R E Y F H R Y G E K L A H A R D D A I V M H P G P M G V E I D G T L A D D P S T R E Y Y R F W G E K L A W A A P G A R V M H P G P M G V E I D S G V A D D L E H F D G F Q V N H A L M A K A A D Q A L F M H C L P R G E E V S A E L L E D
UniRef90_UPI000374898A UniRef90_F9ZQ81 UniRef90_A4GHT0	PSI_KEYYGLRKEHLNLAADDVTVMHPGPRGII EI SSELAYG
UniRef90_L8MZ07 UniRef90_Q84489 UniRef90_UPI00035DD569	PSPREYYGII II RORII IGIII IKPGIPII I I I I I I I I I I I I I I I I I
UniRef90_A8ERG2 UniRef90_UPI0002E5284A UniRef90_U5QIT6 UniRef90_C5C683	EAYHDQYGLIQARYDQLKEIAIIMHPAPROVEIIASELVES
UniRef90_L8LL50 UniRef90_R5PNX0 UniRef90_M1LRK1	ARA YGLDAARVSRLGKHALVMHPGPMNREI SADAADS PSYHRYYGI TRDRLVLAQPKVRVLHPGPMNREI SADAADS PSYHRYYGI TRDRLVLAQPKVRVLHPGPRGVEI SSDLMDD IALLKPYQVNAALMASGNPQVKFMHCLPDGVEVTEEVFES YRYEHNFQI NLDKNSCCSSDAVI MHPLPRDNDLSVDLNND NEVFQGFQVNESLMSHAKKEAVFMHCMPMGKEVSVTLPDS
UniRef90_UPI00026C78B2 UniRef90_X1XJ00 UniRef90_H0E1A8	
UniRef90_M3VB22 UniRef90_K0TH75 UniRef90_G7UQM6 UniRef90_UPI000381579F	LAALEPYRVDEALMAHARRDAIFLHCLPRGQEVAAEVIDG PSSREYYGLSDNRRSMLRDDAVLLHPGPMGMEIGFDVADT VKEFDGYQVNSALMAQANDGAVFLHCLPRHEEVSDEVFYS EDYHRHYGLTAARLKQAAPDAVVLHPGPRGVEITDEVADG ESAYTPDFQVSKINAYCSPDTIVMHPLPRDSRESTDLNDD
UniRef90_UPI000381579F UniRef90_F4B3F0 UniRef90_G0ACV0 UniRef90_Q1D6L9	PSTREYFGLNAAREERMKAGAVVMHPGPRGVELTSDVADS LKAFDGWLVDQAKMQRAQPDALEMHCLPRGEEVAAEVIDG PSTREYFGLNAAREERMKAGAVVMHPGPRGVELAPAVADG PSSREFHMLYPERLKRAKPDVLVMHPGPMGVEITSGVADG
UniRef90_G2ITM7	P S S R E F H M L Y P E R L K R A K P D V L V M H P G P M G V E I T S G V A D G

UniRef90_G2ITM7



UniRef90_D0RQ65 UniRef90_F8K4Y6 UniRef90_UPl00037C8BCB UniRef90_UPl00037C8BCB UniRef90_F2N572 UniRef90_R5L0X5 UniRef90_B11J1 UniRef90_UPl00029AB495 UniRef90_E01313 UniRef90_M9SBG4 UniRef90_M9SBG4 UniRef90_M9SBG4 UniRef90_M1P155 UniRef90_UPl000469CBCE UniRef90_UPl000472392E UniRef90_UPl000472392E UniRef90_UPl000472392E UniRef90_D7WCJ0 UniRef90_D7WCJ0 UniRef90_A0Z4T9 UniRef90_A0Z4T9 UniRef90_A0Z4T9 UniRef90_UPl000469B2D3 UniRef90_UPl000469B2D3 UniRef90_C3BG15 UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00045E6D1C UniRef90_UPl00035E6D1C UniRef90_UPl00035E6D1C UniRef90_UPl00035B9EDE UniRef90_UPl0003839EDE UniRef90_UPl0003636401 UniRef90_DF8LP98 UniRef90_F4LP98 UniRef90_F4LP98 UniRef90_F4LP98 UniRef90_F4LP98 UniRef90_F4LP98 UniRef90_F4LP98 UniRef90_F4LP98 UniRef90_F4ESC4 UniRef90_F8ESC4 UniRef90_F8ESC4 UniRef90_F8ESC4 UniRef90_NA0A023D3U0	80
UniRef90_W0DC40 UniRef90_B4WKT4 UniRef90_B0DHH0 UniRef90_K0D9H2 UniRef90_UPl00028969E1 UniRef90_UPl000255F618 UniRef90_A0A023WNA7 UniRef90_E4SJW5 UniRef90_U5LAP8 UniRef90_UPl0003614682 UniRef90_UPl000379282D UniRef90_UPl000379282D UniRef90_UPl000379282D UniRef90_UPl000379282D UniRef90_UPL000379282D UniRef90_W7QII8 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W1 UniRef90_L0A4V9 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_UPl00037B8C9E UniRef90_UPl00037B8C9E UniRef90_UPl00037BAGBD UniRef90_UPl00037BAGBD UniRef90_UPl00037BAGBD UniRef90_UPl00037BAGBD UniRef90_UPl00037BAGBD UniRef90_UPl0003B54E51 UniRef90_UPl0003B55C65	GK FV V NML F F E E P S T R T T K T S F E E V A A A K R LL GA D V V L S T E G L A K S F S G G K F V V MN F F D D S A A S K R LL GA D V L S T E G L A K R L G G G N V L S T E G L A K R L G G G N N L F F E P S T R T T K T S F D D G A A K K R LL G A D A L T F N L D P K S G S G G G K V L MN F N L F F E E P S T R T T K T S F D D G A A K K R LL G G G R V L S T E H A R G S N S S G G G K T L I N L F F E E N S T R T T K T S F D D G A A K K R LL G G G R V L S T E H A R G S N S S S S S S S S S S S S S S S S S

UniRef90_D0RQ65	90 100 110 120 L GKGEE <u>S V QDTA</u> K V <u>I</u> SGFSD <u> V MF</u> RTFEHQTL L DL SK <u> </u> L
UniRef90_F8K4Y6 UniRef90_UPI00037C8BCB	V S K G E S L K D T A L T L E A M G A D A V V V R H H A S G A P H R L A T S D W L G R G E T V A D T A R V L S G Y V D A I MI R T D D H A K V E E M A R Y
UniRef90_F2N572	II GRGEPII IS DSAILVIM SRMII IDAIVIMII IRTEA <mark>H</mark> STILITDE AAN
UniRef90_R5L0X5 UniRef90_H0Z8K0	SVSKGENLKDTLKI VSNYADVLVMRHNQEGA ARAALSA LGTNESLT DTARVLSSMTNAILARVYNHNDLHLM AKE
UniRef90_I8I1J1	TSKGETIL LIDTLIKT MESMQADMFIV VIR HESSGAAHFFAEHAA
UniRef90_UPI00029AB495 UniRef90 F2N9N6	GGRESIVI EDIVIARIVI IGGYSDIVI II ILIRI ESQKILI IDI FILIENS
UniRef90_Q7NGR7	QVGRGEPVRDTARV LGRYVDGLAIRTFAQTELEEYAHYA
UniRef90_E0l3l3 UniRef90_M9SBG4	VEKGESIYDTVRTLESMGIDAGVIRLKPIGMLAEIASKVK GHGETVEDTARVLSRFVHGIMYRAFD YKMMDKLGEW
UniRef90_C7R4C4	VSKGESIKDTAIITIKAMGADAVVVRHHASGAPHEAOPGII
UniRef90_M1P155 UniRef90_UPI000469CBCE	MGKKETA KDTARVLIGGMFDGII EVRGFSQRTVI ELIAEYS
UniRef90_E0XUH2	D S R E T A E D V V R V M A G Y H R T L A A R V F D H G R L E R M A A A N A
UniRef90_UPI000472392E UniRef90_F8AZX7	IVISKGESILIKDI AQIILIEAMGADAIVVI <mark>C</mark> RHPASGAPHRILIA AWIVI
UniRef90_D7WCJ0 UniRef90 Q03DS0	IVIK K G F SILIK D T A ILITILIF A IVIG A D A ILI IMR H P A S G A P NILLIR Q WIVIP
UniRef90_A0Z4T9	LIGRGEPIVI EDTARIVLISSMIVIDILVIMII IRTHDHNSIVIERF ADIV
UniRef90_K1Z7I8 UniRef90 UPI000469B2D3	FGKKESV EDTAKVLGRFYDGIEYRGYEQTLVEDL AKY QLGHGETIADTARVLSRYVDLIMIRTFEEQTLLDMAEYA
UniRef90_G4L3Y9	QLGHGETLADTARVLSRYVDLIMIRTFEEQTLLDMAEYA MGKKETA KDTARVLGGVYDGIEYRGFSQRTA ETLAKY QLGRSEPLEDSARVLSRMVDLVMIRTYEQTKLERFAAHS
UniRef90_I4Z667 UniRef90_UPI00045E6D1C	VISKGESLKDTAQTLQAMGADAVVIRHPASGAPHRAHSGWV
UniRef90_C3PG15 UniRef90_E6WZH4	VSKGESLKDTAQTLQAMGADAVVIRHPASGAPHRAHSGWV SVKKGESLKDTGLTLASIGDAIIMRHPSSGAAQQLAGWVQ TKKGETLEDTFANLCAMEPDGVIIRHSENDTPSRLAE MD
UniRef90_K0YRW3	
UniRef90_D5DJR4 UniRef90_N0AX57	SVQKGETLYDTIETLASIGVQSVVIRHPQDRYYEALQEKV VLKGETLYDTVRTLESIGLDAVVIRH QQDRFFEQLENKV
UniRef90_U2YW77	LGRGEPI KDTARALSGYVDGVMARVKTHEDMLELAEYA
UniRef90_Q9IAU9 UniRef90_U7J7N2	L G R G E P I K D T A R AL S G Y V D G V M A R V K T H E D M L E L A E Y A L G I N E S L T D T A R V L S G M T D A I L A R V Y K Q S D L D L L A K E H I G H K E S M K D T A R V L G R M Y D G I E Y R G F H Q S V V E E L A E Y
UniRef90_B8J2A8	L N K G E S <u>L </u> K D T <u>A </u> L T L Q A M S P D <u>V I V M</u> R H S S S G A A R Y V A D <u>L L </u> P
UniRef90_UPI0003B39EDE UniRef90_UPI000375BA44	LKKGETDYDTI INLSAMQPDAFI VRHYHSGYPYFL SRFT ESKGEVIEDTLRTLAAMGIKHFVIRHKQDGLQQQANQLGD
UniRef90_D5BRF9 UniRef90_F4LP98	VKKGETLLDTATTLNAMHPDILVVRHNCAGAAKLLSQHVD QLGAKESVEDTARVLGRMFSAIEFRGFSQKHVELLAEYS
UniRef90_UPI0003636401	LGRGEPI KDTARVLGRMVHGCI IRTFAQQDVDDFATYSN
UniRef90_D7G203 UniRef90_G7YP97	SIKKGESLEDTVMSLLSYCDAVALRHPA KGAARAAVGVA SLSKGETLSDTLRILASYCDCLVIRHPGKGEVQLAANSVL LSKGESLY DTARVLSTYSDVIAMRHPDSYSVKEFAEGSR
UniRef90_A3D1R6	LSKGESLY DTARVLSTYSDVI AMRHPDSYSVKEFAEGSR
UniRef90_F8ESC4 UniRef90_F0T026	QIGRGETI PDTARVLSRYVDAI MIRTDEHTKI ETLAEY VTKGESLLDTARTLQAMNVDLVI VRHSGSGAAQFLAD EL LTKGETI LDTAKTYLAMGANI MVIRHSHSGLAQEMDRLKT
UniRef90_K9YNQ9 UniRef90_A0A023D3U0	LTKGETILDTAKT <u>YL</u> AMGANIMVIRHSHSGIAQ <u>EM</u> DR <u>LKT</u> VNKGETL <u>L</u> DT <u>A</u> ATLNA <u>M</u> R <mark>C</mark> DL <u>L</u> VVRHAASGAPALLARK <u>VE</u>
UniRef90_A7Z4G9	V Q K G E S L Y D T V K T L E S I G A D A <mark>C </mark> V I R H S T D E Y Y K D L T G R V
UniRef90_G7Q8C2 UniRef90_UPI000372A675	II IG K R E AII I K DII IS RIL IF S R Y N D MII IM A RIL IF D H E HII L IEIL IA K Y S
UniRef90_I1YJJ7	A K G E S L L D T L H N L E A M H T D M F V V R H N Q S G A A E F I A Q H V A
UniRef90_I9AJR5 UniRef90_Q1IQM8	SAILIETEOIVIEDSILIRILLIGSYSDIVLVLIRHNOEGGARRAAAIVISP
UniRef90_H2CAY3 UniRef90_W0DC40	LGRGETI EDTTMVLGRYVHGVMIRTDSHRKLELM AGL QLVRGEDLKDTARTLSRYLDGVVIRTDSHEKLKEFAGYS
UniRef90_B4WKT4	LAKGETILDTAKTYLAMGTDLMVIRHRGSGLAKEMDRLGS
UniRef90_B0DHH0 UniRef90_K0D9H2	LAKGETI LDTAKTYLAMGTDLMVIRHRGSGIAKEMDRLGS SVLKGESLPDTIRTLACYGDAIVIRHPDVGSAQLAAKYSP FGKKESL EDTAKVFGRLYDALEYRGFAQETV EGLATY
UniRef90_UPI00028969E1	STEKGETLYDTVKTLEMIGMDAVVIRHKTDAYYDEELEGI VSKGESLKDTVQTLEAIGADAIVMRHWGSGAAQLAGSGWI IGHKETMKDTARVLGRMYDAIEYRGFRQELVEEL ARF
UniRef90_UPI000255F618 UniRef90_A0A023WNA7	I G HKETMKDTARVLGRMYDAI EYRGFRQELVEEL ARF
UniRef90_E4SJW5 UniRef90_U5LAP8	IIIGKKESIII EDTAKIVIIGSMEDGII IEVRGEAOKDIVIEDII I. AKV
UniRef90_M7WEG7	S V K G E T L A D T V R T L G C Y A D I A L R H P A A G S A Q E A A R Y A P
UniRef90_UPI0003614682 UniRef90_UPI000379282D	SLEKGESFRDTVRTI ARMKADVLVVRHRDSGVPEYLASFLIGRKESA RDTARVLGRMYDAIEFRGDAQRTVEELAAHAIQKGESLKDTAKNLEALGIDFLIJRHPAAGSAAFLAKLLN
UniRef90_I0JXG0 UniRef90_W7QII8	I QKGESLKDTAKNLEALGIDFLI I R HPAAGSAAFLAKLLN LGKRESV KDFALNLSCWVDAI VARVFDHNTLVEMAEHA
UniRef90_D4LAQ3	S V S K G E S L K D T T K I V S N Y A D L L L L R H P M A G A A K A A A L T T
UniRef90_M2X7W0 UniRef90_K6YXW1	GKREA <u>V</u> KD <u>V</u> AR <u>V</u> VSSMNDTI <u>M</u> ARLYAHSDLLE <u>L</u> ARF <u>A</u> GREDA_ KDTAA <u>N</u> LA <mark>C</mark> WAD <u>A</u> I <u>V</u> AR <u>V</u> YSHETL <u>V</u> EFSEAS
UniRef90_W7QK17	A GREDA KDTAANLACWADAI VARVYSHETLVEFSEAS LAKGESLY DTARVLSSYSDVIAMRHPDSGSVAEFAEGSR LSKGESLRDTVETLGAMQVDAFI VRHEASGAAHLVERYSG
UniRef90_L0A4V9 UniRef90_D8HZF1	VNKGESLRDTVETLGAMQVDAFIVRHEASGAAHLVERYSG VNKGESLRDTALTLAAAGAD <mark>C</mark> VI <u>V</u> RHPASGAAQREWLAGP
UniRef90_E0XZA9 UniRef90_R6EVN2	VNKGESLRDTALTLAAAGADCVIVRHPASGAAQREWLAGPIAKGESLY DTARVLSGYSDLIVMRHPEEGSVSEFAAASRIGKKESI ADTARVLAGMFEGIEYRGFGQDLVEEL AKY
UniRef90_UPI00037B8C9E	VGKGESLRDTALTLSAAGADCVVVRHPASGAAHRGWLADA
UniRef90_UPI00036F3021 UniRef90_C8WMG2	VGKGESLRDTALTLSAAGADCVVVRHPASGAAHRGWLADA KLGERERVSDYAKNLSCFADLIVARVFSHDSL QGLAEH LGKKETV RDTALVLGSMFDGIEFRGFKQE HVEDLAKY
UniRef90_J7HZG5	LG AKETIKDTAKVLGRMFDAIQYRGFSQKI IEEL AKN QLGRGEPMKDTARVLSRMVDMVMIRTFEQSKLEEFASYS
UniRef90_UPI00037BA6BD UniRef90_UPI0003B54E51	
UniRef90_M4RZQ3 UniRef90_UPI0003B55C65	II IGRGETII I ADTARIVI ISREIVIDAII IMII IRTDDHAKII I IEMAEHA
UniRef90_UPI0003B35409	VKKGETLIDTAVTLNAMRADAI VIRHASSGAVQLIADKVDVKKGETLLDTTATLNAMKPDVIVIRHDASGAVGLIADKVDSRGETIEDTARIMGRELHGIVIRTEGQDLV ETFAKY
UniRef90_R7LB49 UniRef90_D1BIG7	S RGET I EDTARI MGRF LHGI VIRTF GQD LV ETFAKY QIGVRES I SDTARV LGRQV SMI VWRTHAQSRI EEM AAL
UniRef90_R1CZZ3	QIGVRESISDTARVLGRQVSMIVWRTHAQSRIEEM AAL GTREATKDVARVLASMNELLMARLYAHADMLEL AQF VQKGESLRDTAMTLTAVGADALIVRHPASGSALQIAGWVA QIGYKESMKDTARVLSRMYDAIEYRGFGQEIVNEL AEY LGRGETV ADTARVLSGFVDVISYRAFKHENVLEL ARN
UniRef90_A0A022LQ27 UniRef90_UPI000289C231	QI GYKESKDTAMILLAVIGADALIVIKHPASG <u>SALQI</u> IAGW <u>V</u> A QI GYKE <u>S</u> MKDTARVLSRM <u>Y</u> D <u>A</u> I EYRGFGQEI VNEL AEY
UniRef90_T0M6U3	LGRGETV ADTARVLSGFVDVI SYRAFKHENVLEL ARN
UniRef90_A0A031LN54	VVKGENL ADTIRMMENYSD <mark>C</mark> I <u>VI</u> RHKFDGAAKFAAE VS

UniRef90_D0R0 UniRef90_F8K4	Y6	VPLINGLT GSVVNAGE	GTHEH	PTQAL	140 S D V M T L D A F T	F E E Q K M R R H G	R DIL A G F	AKVAWV RRITIV
UniRef90_UPI0 UniRef90_F2N5 UniRef90_R5L0	572 S	SVPVINGL CPVINAGE	T D A S H S D D L H G G H L H	PCQLM PTQTL	ADMQT` TDLLT	Y H E H R L K T E L	G S II IA G K	_ T V G L <mark> C</mark>
UniRef90_H0Z8 UniRef90_I8I1J UniRef90_UPI0	1 D					D A 🔲 D		
UniRef90_F2N9 UniRef90_Q7N0	9N6 GR7	ASVIDAGE GIPVINAL	GKHGH TDHEH	PTQAL PCQVV		WQHR RENF	GRIEGI GRLAGI	R V G I V
UniRef90_E0I3I UniRef90_M9SE UniRef90_C7R4	3 3G4 A 4C4 D	G V A I IN A G L A S V I D A G D G I P V I N A L V P L I N A G D T V P V I S G L V P V I N A G D	D D L E H	PIQAL PCQAL PTQAL	A D MVT	M R K H F I K E K L L R R H G	GHLKGL GSFRGF HDLAGF	SVSTI KKIVYL RKIAIV
UniRef90_M1P1 UniRef90_UPI0	00469CBCE S	SVPVVNAL GVPVWNGL	T D L H H T D E D H	P C Q I L P T Q V L	SDIMT	V V E K K A K E <mark>C</mark> K	GNLEK[KPYNEN	KLAWI MNFTYM
UniRef90_E0XU UniRef90_UPI0 UniRef90_F8AZ	00472392E S 'X7 R	GVPVWNGL GSVLNAGD	T D E WH	P T Q M L P T Q A L	A D F L T	V K E N F L R R R L	GKIQGI GRIEG <u>L</u>	S K V A Y V K L A Y F - S V T I V
UniRef90_D7W UniRef90_Q03E UniRef90_A0Z4	OSO S	ASIINAGE GVPVWNGL SVPVINGL	G Q H Q H T D E D H	PTQAL PTQVL		MRQ <mark>HI</mark> AKEV WEEHR	G D L E G k L K K E Y k G D L O G F	KKVLIV KDIKFA RRV <mark>C</mark> WL
UniRef90_K1Z7 UniRef90_UPI0	'l8 S		T N V D H	PTQIL PCQIM	A D W M T [A D L M T	E E H F	K P L H E [RIAFV KKVVWS
UniRef90_G4L3 UniRef90_I4Z66 UniRef90_UPI0	67	RVPVINGL TSVVNAGE	T DEDH T NEFH	PTQVL PCQLL PTQSL	A D F L T A D L F T L D A Y T	AKEAK YLEHR IRRHG	K D Y N E [] A S L K N F N D L A G [NFTFV RVVAWV - HVAIV
UniRef90_C3P0 UniRef90_E6W2	G15 G ZH4 Q	PSVINAGE VPVINAGE	GSHQH	PTQAL	L D A V T	MRQRL LYEWF	H G F E G L E E I E G L	KVTIV
UniRef90_K0YF UniRef90_D5D UniRef90_N0A	JR4 S	D	G C G Q H	PTQ <mark>C</mark> L PTQSL	L D L L T	R Q E F	K D L K G A G S F K G L G K F A G L	A R V V I V - K V A I V - K V A I I
UniRef90_U2YV UniRef90_Q9IA UniRef90_U7J7	U9 A	SI PI I NGL	S S E A H S D S Y H	P A Q I V P I Q I V	A D L L T	I	GHLNGL	TLSWI
UniRef90_B8J2 UniRef90_UPI0	A8	G V V N G G D	G W H A H	PTQAL PSQAL	L D C F S	L R E W A	N S F E G F G K L E D L	RTLLIL KV <mark>C</mark> II
UniRef90_UPI0 UniRef90_D5BF UniRef90_F4LP	RF9 A	VHIVNAGD AVINAGD GVPVINGD	GAHAH GRHEH TDEEH	PSQAM PTQAL PTQAL	L D M M T II L D A L T II A D V I T	I E R K I R R R I I K F H F	PRLDQL GRIEGL GSIKGI	- KI AVL - RI A <u>l C</u> - HI A F C
UniRef90_UPI0 UniRef90_D7G2	003636401 203 R	I P T I N A L R P V L N A G D	T D E E H	P C Q I L P T Q A L	A D L L T	VKEKL	GTWVGF SGLRGF	RIAIC HLAFC KVVFI (VVALI TVTMV
UniRef90_G7YF UniRef90_A3D1 UniRef90_F8ES	R6	IVIPIVI IN G G L	GSNEH	PIQAM PTQAL P <mark>C</mark> QIL	L D V F T L D L Y T A D M L T	I REEL I Q <mark>C</mark> AG VIEHK	GIVNGL RGIDGN GQLEG1	I V I M V M <mark>H</mark> L A M V F R <u>W A W</u> L
UniRef90_F0T0 UniRef90_K9YN	26 S NQ9 G		G Q H A H	PTQAL	L D F L T	MKEKL LTNLL	DPILKKK	KKILIAILVI
UniRef90_A0A0 UniRef90_A7Z4 UniRef90_G7Q8	.G9 N BC2 C	AVINAGE	G <mark>C</mark> G Q H	PIQSL		I Q E E F	ETFQG L NTLAGE	T V A I C T V S I H C T V V I L
UniRef90_UPI0 UniRef90_I1YJ	00372A675 J7 P	SIPVINGE HVVINAGE LSLINAGE	T D Y N H	PCQIM PTQAM	A D L F T L D M F T	WEHK RRHK	ERFEEL GQFADL	K I CYV R V A I V
UniRef90_I9AJF UniRef90_Q1IQ UniRef90_H2C	IVI 8MI	OVPIINAGDG	SDRHH	P C Q A L		1 1	R PII IF GII	ISIVIA FILL
UniRef90_W0D UniRef90_B4Wl UniRef90_B0DH	C40 KT4 G	SIPVINAL VGVLNAGE	JT D M S H G Q H E H	P C Q V L P S Q A L	S D V F T I	ONKI	EDILKG	KKII AII VI
UniRef90_K0D9 UniRef90_UPI0	9H2 S 0028969E1 N	VAVINAGE	T D D W H	PTQML PSQCL	A D F L T	KEQF	GHLEGI GKFEG	T L A Y L /NVTI V
UniRef90_UPI0 UniRef90_A0A0 UniRef90_E4SJ	00255F618 T 023WNA7 A IW5 S	GVPVFNGL GVPVWNGL	TDEYH	PTQMI PTQMI PTQML	A D V M T	MREHD KEKF	KPLQQI GHLKGI	SYAYL TLAYV
UniRef90_U5LA UniRef90_M7W UniRef90_UPI0	EG7				it Kilt (국구)			
UniRef90_UPI0 UniRef90_I0JX0	003614662 P 00379282D 30	GVPVYNGL ISVINGGD	T D D WH	PTQML PTQGL	A D L T M	TEYSD TEE <u>H</u> F	G R I E G L K P L E R I G T V R G L	S L A Y L K V L I V
UniRef90_W7Q UniRef90_D4LA UniRef90_M2X7	II8 AQ3 D 7W0 S	C HV V N A G C G V P V Y N G C C HV V N A G C C S V P V V N S C C P V I N A G C K V P V I N G C C P V I N G C P V I N G C C P V I N G C P	G G H L H	PCQAM PTQTL PCQLI	A D Y Q T I T D L L T I A D A I T	L Y E V R L R V E K	G S L E G <i>A</i> G R L D G I K R I D G V	SIAYI TVGLC /KVVYI
UniRef90_K6YX UniRef90_W7Q	(W1 K17	KVPVINGGE VPVINGGE KPTINAGE	CDLY H	P C Q A V	A D Y L T	L L E T Y I Q K E Q L R R E F	GSLDNL HGIDGN	T L A Y V M H I A M I R K V A I I
UniRef90_L0A4 UniRef90_D8H2 UniRef90_E0X2	ZF1 G ZA9	T S V V N A G D V P V I N G G D K V P V W N G L	G K K A H G T H E H G A N E H	PTQAL PSQAL	L D A Y I L D A A T I L D L Y T	L R R E F L R E R L I R S R D I R E H F	G	R K V A I I R R I A I V R M T Y M
UniRef90_R6E\ UniRef90_UPI0 UniRef90_UPI0	/N2 S 0037B8C9E G	K V P V W N G L T S V V N A G D S I P V I N A L G V P V W N G L	TNEFH GTHEH	PTQML PTQAL	A D L L T	REHF LRERL	GHLKGL GTLSGF	RMTYM RRVALV /KLAYV _TLAYC
UniRef90_C8W UniRef90_J7HZ	MG2 S (G5 S	GVPVWNGL GIPVLNGL	T D K E H	PTQML PTQVL	A D F M T	MKENF MLEHS	GTLEGL NNKSF1	TLAY <mark>C</mark>
UniRef90_UPI0 UniRef90_UPI0 UniRef90_M4R2	/()3	TVPVINGE	$H \cap H \cap H$	P C OH IM	Δ 1) MH H	// I IF H R	K A II A (÷ I	/ <mark>C </mark>
UniRef90_UPI0 UniRef90_UPI0	003B55C65 003B35409	CPVLNAGE	GSHEH	P T Q A L	LDALT	I RRRK I RRRII	G DII IS GIL G RII IN G T	RITIC
UniRef90_R7LE UniRef90_D1Bl UniRef90_R1C2	349 S G7 A ZZ3 S	K V P V V N G I	T D D F H T D Y N H	PCQIL PCQIV	A D L V T	VIMEYF I A Q <mark>H</mark> R I E E V V	E	X
UniRef90_A0A0 UniRef90_UPI0	022LQ27 P 00289C231 A	PSVINAGE DIPVFNGL TVPVINAL	G M H E H	P T Q A L	L D A M T	LRERL MREH	G G T E G F	R R V V I V I Q I K Y A
UniRef90_T0M6 UniRef90_A0A0	003 A 031LN54 S	K P V I N A G D	G K H E H א ס ען	P T Q T L	VDLYT	I F K T F	H K Y S N L N T [] D G L	NFGLI

	470 400 400 000
UniRef90 D0RQ65	170 180 190 200 G D G N N V T N S A T E A A V Q F D F E L N I C V S K N Y L P S K K V L D
UniRef90_F8K4Y6	GDIVI H S RIVIA R S NIVI I I I G T I I G A F IVIT I VIA P P T II I I I I I I I G IVIE R W
UniRef90_UPI00037C8BCB	GD GNNVLASIVE AAGLMHFDVVAACPQGFQPEEEAIT GDG NNMONTYIEAAIQFD FRLKVACPEGYEPDAELL
UniRef90_F2N572	G D G
UniRef90_R5L0X5 UniRef90_H0Z8K0	
UniRef90_I8I1J1	GDIV LIH S RIVIA R S DII IH GIL IR T IL IG C T DII IRIV I IA P P PIL VIPIVIGII IE A M
UniRef90_UPI00029AB495	GD GNNVASSLALAAALCGMHLTVCAPDGYRLEEKFLG GDIGHSRVCGSLIPALKIMG AEVTVVGPGTLMPACPDVL
UniRef90_F2N9N6	CONTIGES BIVICASII TIPAII IKII IMA A FIVITIV VIGEGI II IMPACEDIIVI
UniRef90_Q7NGR7 UniRef90_E0I3I3	GDG NNVAHSLLLGCAKVG MSIAVATPEGFTPDPAVSA GDLLHSRVARSNLWALRKLGADVKFCAPAEMQAPELDA
UniRef90_M9SBG4	GDGNN V CNS LL YASA I MG I DM V ACCPA I RMPNAE I M L GAA
UniRef90_C7R4C4	GDIVLIHSRIVIARANIVIAILLIATILIG AHIVITILVIAPPTILVIPIVIGIVIHTW
UniRef90_M1P155 UniRef90_UPI000469CBCE	GDG NNMANSWIQAASRIGFELILA <mark>C</mark> PEGYDPDPEIMAA GDGRNNVANALMIGASI MGMTFHLVCPKELDPAQDLLD
UniRef90_0F1000469CBCE UniRef90_E0XUH2	
UniRef90_UPI000472392E	G D G R N N M A N S L L V T G A I L G A D I T I C A P E S L F P A A E V Q E G D V L H S R V A R S N V W L L S T L G A A V T V V A P P T L V P V G V E G D C L H S R V V R S N V D L L S A L G A T V V L V A P P P L M P A G V E T W P F V G D G Q D N V S N A L M L G A A V M G M E Y H V V T P K E L E P T K D V L D G D G N N M C H S Y I N A A R L L D F E L V V A C P D G Y Q P A S Q L V S G D T R N N M A C A W M Y G C A K L G M H F V A Y G P K E L H P D P K I D K V N G D G N N V F A S F A H A A K Q F D F F I V F T G P P P
UniRef90_F8AZX7	G D V L H S R V A R S N V W L L S T L G A A V T V V A P P T L V P V G V E
UniRef90_D7WCJ0 UniRef90_Q03DS0	GUCLIOS NA VIRS NA VIDLES A LIGATIVE VA PPILIMPA GIVE I WP
UniRef90_A0Z4T9	GDGNNM <mark>CHSYTINA ARLEDFELVVACPDGYQPASQL</mark> VS
UniRef90_K1Z7I8	G D T R N N M A C A WM Y G C A K L G M H F V A Y G P K E L H P D P K L D K V N
UniRef90_UPI000469B2D3 UniRef90_G4L3Y9	GDG NNVFASFAHAAKQFDFELVFTGPPP LDGDGQDNVANALMIGAA LMGMNYHLVSPKELYPSQDLVD
UniRef90_G4L319	GDGN NMANTWILIQAAFILLIGETIVI <mark>H</mark> IVISTPSGYFIVIDPIVVIAGILIR
UniRef90_UPI00045E6D1C	G D V L H S R V A R S N V Q M L H T L G A R V T L V A P P T L V P V G A E A W G D C L H S R V V R S N V D L L S T L G A E V T L V A P P T L L P F G V D T W
UniRef90_C3PG15	G D C L H S R V V R S N V D L L S T L G A E V T L V A P P T L L P F G V D T W
UniRef90_E6WZH4 UniRef90_K0YRW3	GDVLHSRVARSNVQMLHTLG ARVTLVAPPTLVPVGAEAW GDCLHSRVVRSNVDLLSTLG AEVTLVAPPTLLPFGVDTW GDIVNSRVAASDIRLFRRMGIEVSLVAPKPFMPPVSDLPQ GDVLHSRVARSNVDLLTLLG AHVTLVAPPTLLPVGVENW
UniRef90_D5DJR4	G DIL IR H S RIVIA R S N A E MIL II KIL IG A I IVIY F A G P E
UniRef90_N0AX57	GDL LHSRVARSNADAL VRLGAK VVFSGPEEWFENVL
UniRef90_U2YW77 UniRef90_Q9IAU9	G D G N N V G A S F L V G A A M V G L D V T A A T P E G Y E F A A D A V E G D G N N V L N S I M M S A A K L G M H L H V A T P K P D Y R I L K I A E Q G D G R N N M G R S L L L L G A K L G M D V R I G A P E G L Q P D S E L V G
UniRef90_U7J7N2	GDGRNNMGRSLLLLGAKLG MDVRIIGAPEGLQPDSELVG
UniRef90_B8J2A8	G D G R N N M G R S L L L G A K L G M D V R I G A P E G L Q P D S E L V G G D I A H S R V A R S N I H L L T S L G V R I R V C A P R T L L P A G V D H W
UniRef90_UPI0003B39EDE UniRef90_UPI000375BA44	GDI AHSRVARSNI HLLISLIG VRIRVCAPRI LLPAGVDHW GDI VNSRVAKSHI WMSKLLNWKLSFYGPKTML GNI KHSRVANSFQYMCSALGVGE VFI CPELWQP GDI ANSRVARSNI HLLGTLG AEMRLVCPSTLLP GDGRNNVARSLMLI CAKLG I HFTI VSPEALFPDREI QT GDGDNNMSCS WI WAAKYLGFELVVAAPEACLPPTEWMN GDLKHGRTVHSLAKLLARFGCVLRYVSPASLQMPRYI QDE GDLANGRTVHSLARLLCLYNVRLRYVTHCEQLRMPEEVKQ GDLKFGRTVHSLARLLCLYNVRLRYVTHCEQLRMPEEVKQ GDLKFGRTVHSLSRLLCMYKNI SFTLI SPAELAMPDYVI S GDGNNVLH SLSRLLCMYKNI SFTLI SPAELAMPDYVI S
UniRef90_DF1000373BA44 UniRef90_D5BRF9	G DI A N S R V A R S N T H L L G T L G A E M R L V C P S T L L P
UniRef90_F4LP98	GDGRNNVARSLMLI CAKLG [HFTI VSPEALFPDREIQT
UniRef90_UPI0003636401	G D G D N N M S C S WI WA A K Y L G F E L V V A A P E A C L P P T E W M N
UniRef90_D7G203 UniRef90_G7YP97	GDI ANGRIVHSI ARI I CI YNVRI RYVTHCEOI RMPEEVKO
UniRef90_A3D1R6	GDLKFGRTVHSLSRLL <mark>C</mark> MYKNISFTLISPAELAMPDYVIS
UniRef90_F8ESC4	GDGNNVLH SLIEASSMMGFSVIAACPAGYEPNPDLVA
UniRef90_F0T026 UniRef90_K9YNQ9	
UniRef90_A0A023D3U0	G DIVIG H S RIVIA R S NII IHII I IT A M G S HIVIRIV VIG P P T II VIP F A II IA R II I
UniRef90_A7Z4G9	
UniRef90_G7Q8C2 UniRef90_UPI000372A675	GDVA H S RVA R S N C R L L P M L G A R V R L C A P R T L L P K D A A A L G D G N N V V H S W L H L A S K L S I N F V C I C P E G F T P D E K I V K L G D I L H S R V A R S Q I Q A L A T L G V G E I R V I G P Q T L L P R G D L A H S R V A R S N M E L L T Q L G A K V Y F G G P R E W Y G A D F A Q Y G G E L D R G R T V R S L A Y L L A K F D R V K I Y F V S P P E L Q M K P D I L E
UniRef90_I1YJJ7	G DI L H S R V A R S QI Q A L A T L G V G E I R V I G P Q T L L P R
UniRef90_I9AJR5	GDLAHSRVARSNMELLTQLGAKVYFGGPREWYGADFAQYG
UniRef90_Q1IQM8 UniRef90 H2CAY3	G EPNNVFNSLALGTLHSGSSL CVASPEGYEIRPGI QE
UniRef90_W0DC40	G D G N N L C N T W L V A A G L F G L K L F V S T P E G Y P S S Y Y Y Q A G E D
UniRef90_B4WKT4	GDGNNLCNT WLVAAGLFGLKLFVSTPEGYPSSYYYQAGEDGDILHSRVARSNLWSLSACGAQVHLAAPPTLLPKAFEEVTGDLKNGRTVHSLVTLLCLY SVQLNFVSPRSLAMPSSVISGDGRNNVANSLLVTGALLG
UniRef90_B0DHH0 UniRef90_K0D9H2	G D L K N G R T V H S L V T L L C L Y S V Q L N F V S P R S L A M P S S V L S
UniRef90_R0D9112 UniRef90_UPI00028969E1	G DIVIS H S RIVIA K S D A E A L IT R L I G A NIVIRI L C
UniRef90_UPI000255F618	G D G R N N V A N S L L V T G A I L G V N II H I V A P D S L Q P T A E I Q T G D V S H S R V A K S D A E A L T R L G A N V R I L C G D L L H S R V A R S N L W L L T L L G A E V T L A A P P T L M P V G V E Q W G D A R N N M G N S L L L I G A K L G M D V R I A A P R A L W P S A E H V A G D G R D N V A D S L L V A G S M L G V N V H I V T P K P L F T H Q D V Q E I G D I L H S R V A R S N A E A L A R L G A E V V F S G P E E W F D P S F R H S G G D L K N G R T V H S L V K L L S L Y S V S L I F V A P P A L S M P E S V K A G D L L H S R V A R S L A L A L A L M K L G N S V V F S G P P T L V P E S V L A L G D A R F N M G N S Y L V T G A L L G M D V R I V A P E A Y W P A P Q V V A G D I L H S R V A R S T F W A L S K Y G A N V K F V G P I T L L P S Y F K D F
UniRef90_A0A023WNA7	GDAKNNMGNSLLLIGAKLG MDVRIJAAPRALWPSAEHVA
UniRef90_E4SJW5 UniRef90_U5LAP8	GDI LHSRVARSNAEALARILIGAEV VIFSGPFFWFDPSFRHSG
UniRefan M7WEG7	GDLKNGRTVHSLVKLLSLY SVSLTFVAPPALSMPESVKA
UniRef90_UPI0003614682	G D L L H S R V A R S L A L A L M K L G N S V V F S G P P T L V P E S V L A L
UniRef90_UPI000379282D UniRef90_I0JXG0	GDIIHSRVARSTEWALISKYGANV KEVIGPILTIIDSYEKDE
UniRef90_W7QII8	GD GNNVAHSLMLAGAI LGVDVRVITPLGYSADANIIQ
UniRef90_D4LAQ3	G D L L N G R T V H S L C K A L S C Y K N N H F V L L S T P E L R L P F Y V K D
UniRef90_M2X7W0 UniRef90_K6YXW1	GDGNNVTHSULLVGALLGVNVVSVTDAGVEVNOELEOLGE
UniRef90_W7QK17	GDLKHGRTVHSLCKLLCLYQNIKLITLISPKELLAMPDYIID
UniRef90_L0A4V9	GDILHSRVARSLALALMKILG NSVVFSGPPTLVPESVLAL GDARFNMGNSYLVTGA LLGMDVRIVAPEAYWPAPQVVA GDILHSRVARSTFWALSKYGANV KFVGPITLLPSYFKDF GD GNNVAHSLMAGAILGVDVRVITPLGYSADANIIQ GDLLNGRTVHSLCKALSCYKNNHFVLISTPELRLPFYVKD GDG NNIVHSWLELTSLVELEFTCCCPEGYEPNPTLLDL GDGNNVTHSLLIVGALLGVNVVSVTPAGYEVNQEIFQLSE GDLKHGRTVHSLCKLLCLYQNIKLTLISPKELAMPDYIID GDVRHSRVARSNIHLLSLVPMLGARVTLCGPATLLPYGVESLP GDLRFGRTVHSLCKLLSLYDHLRISLVSPEALRMPADVVE GDARYNMGNS LMVACAKMGMHFTACTTAKYFPAKELVA GDVLHSRVARSNIHLLSLYDHLRISLVSPEALRMPADVVE GDARYNMGNS LMVACAKMGMHFTACTTAKYFPAKELVA
UniRef90_D8HZF1 UniRef90_E0XZA9	G DIV LIH S RIVIA R S NII IHIL LIS AILIG A EIV V L VIA P P T IL LIP Y GIVE SILIP G DI REGRITIVIH SILICKI I ISII V D HILIDII GILIVIS DE ALIDIM DA DIVIVIE
UniRef90_R6EVN2	GDARYNMGNS LMVACAKMGMHFTACTTAKYFPAKELLVA
UniRef90_UPI00037B8C9E	G D V L H S R V A R S N V H L L A T L G A E V V L V A P P T L L G D G N N V S N S L M L M A A T L G V D F T L I C P A G H E A Q Q D L I E K T K G Q G R N N V Q N S L M L T S A L G V N Y N A T P A E L E P D P A L V E V A
0to:00_0: :00000: 002:	
UniRef90_C8WMG2 UniRef90_J7HZG5	YLIGDARYNII GRSLLLII GAKII GMDVRII AAPKOFWPFFKFFII
UniRef90_UPI00037BA6BD	GDG NNMAHSWLYLASKMGFELRIATPKGYECDEAVVAK
UniRef90_UPI0003B54E51	G D L L H S R V A R S N V W L L H T L G A K V T L S G P P T L M P V G V T T W
UniRef90_M4RZQ3 UniRef90_UPI0003B55C65	GDVIHSRVARSNMI CIGTI GAFVRVAGPPAI I PPGI DAI N
UniRef90_UPI0003B35409	ĞDVLHSRVARSNILLLĞTLĞAEVRVVAPPTLLPPAVE
UniRef90_R7LB49	GDTACNMAYSLALAGSMFGVEVVLCGPEEFKPSKDLDKLF
UniRef90_D1BIG7 UniRef90_R1CZZ3	YVGDGNNIVHSWIEIACVV PEDEVICACPSGEEDDAEI VE
UniRef90_A0A022LQ27	G Q G R N N V Q N S L M I T S A I L G V N Y V N A T P A E L E P D P A I V E V A Y L G D A R Y N I G R S L L L I G A K L G M D V R I A A P K Q F W P E E K F F I G D G N N M A H S W L Y L A S K M G F E L R I A T P K G Y E C D E A V V A K G D L H S R V A R S N V W L L H T L G A K V T L S G P P T L M P V G V T T W G D G N N V L H S I I E A G S L M G F E V R A G C P T G Y E P S M E V L D G D V L H S R V A R S N M I C L G T L G A E V R V A G P P A L L P P G L D A L N G D V L H S R V A R S N I L L L G T L G A E V R V V A P P T L L P P A V E G D T A C N M A Y S L A L A G S M F G Y E V V L C G P E E F K P S K D L D K L F G D G A N N M A H S Y L L G G V T A G M H V R V G T P E G Y L P D A E I L A Y V G D G N N I V H S W L E L A C V V P F D F V C A C P S G F E P D A E L V E G D L L H S R V A R S N A L L L S T L G A E V V L V A P P T L L P V G V G Q W Y F G D A R N N M G R S L Y L M G A K M G M D V R L C A P K D L W P E A D F L A G D G N N M A N S L M L G G A L L G T D V T I G C P K G Y E P R K D I R D G D L R Y A R T V N S L L R G L T R F K P K S V Y L L S P P P L K A R K E L L R
UniRef90_UPI000289C231	Y F G D A R N N M G R S L Y L M G A K M G M D V R L C A P K D L W P E A D F L A
UniRef90_T0M6U3	GD GNNMANSLIMLIGGALLIGTDVTIIGCPKGYEPRKDIIRD
UniRef90_A0A031LN54	G D LL N T A K T V IN 3 LL L N G LL I K F K F K S IV IT L L I S F F F L IK A K K E IL L IR

```
UniRef90_D0RQ65
UniRef90_F8K4Y6
UniRef90_UPI00037C8BCB
UniRef90_F2N572
UniRef90_R5L0X5
UniRef90_H0Z8K0
UniRef90_I8I1J1
UniRef90_UPI00029AB495
UniRef90_F2N9N6
UniRef90_Q7NGR7
UniRef90_E0I3I3
UniRef90_M9SBG4
UniRef90_C7R4C4
UniRef90_M1P155
UniRef90_UPI000469CBCE
UniRef90_E0XUH2
UniRef90_UPI000472392E
UniRef90_F8AZX7
UniRef90_D7WCJ0
UniRef90_Q03DS0
UniRef90_A0Z4T9
UniRef90_K1Z718
UniRef90_UPI000469B2D3
UniRef90_G4L3Y9
UniRef90_UPI00045E6D1C
UniRef90_C3PG15
UniRef90_E6WZH4
UniRef90_K0YRW3
UniRef90_D5DJR4
UniRef90_N0AX57
UniRef90_U2YW77
UniRef90_U2YW77
UniRef90_U7J7N2
UniRef90_U7J7N2
UniRef90_B8J2A8
UniRef90_K1Z7I8
                                                                                                                                                                                                                                                                         RRRVFYPSLURRLLLTRKFSUKFLV
                                                                                                                                                                                                                                                                   UniRef90_B8J2A8
UniRef90_UPI0003B39EDE
UniRef90_UPI000375BA44
UniRef90_D5BRF9
UniRef90_F4LP98
UniRef90_D76203
UniRef90_D7G203
UniRef90_G7YP97
UniRef90_A3D1R6
UniRef90_F8ESC4
UniRef90_F0T026
UniRef90_K9YNQ9
UniRef90_A0A023D3U0
UniRef90_A7Z4G9
UniRef90_G7Q8C2
UniRef90_UPI000372A675
UniRef90_I1YJJ7
UniRef90_I9AJR5
UniRef90_Q1IQM8
UniRef90_H2CAY3
UniRef90_W0DC40
UniRef90_B4WKT4
UniRef90_B0DHH0
UniRef90_W0D9H2
UniRef90_UPl00028969E1
UniRef90_UPl000255F618
UniRef90_A0A023WNA7
UniRef90_E4SJW5
UniRef90_U5LAP8
UniRef90_M7WEG7
UniRef90_UPl0003614682
UniRef90_UPl000379282D
UniRef90_UPl000379282D
UniRef90_UPJG0
UniRef90_UNIRef90_UNIRef90
UniRef90_UNIRef90
UniRef90_UNIREF90
UniRef90_UNIREF90
UniRef90_D4LAQ3
UniRef90_M2X7W0
UniRef90_W0DC40
UniRef90_M2X7W0
UniRef90_K6YXW1
UniRef90_W7QK17
UniRef90_L0A4V9
UniRef90_D8HZF1
UniRef90_E0XZA9
UniRef90_R6EVN2
UniRef90_UPI00037B8C9E
UniRef90_UPI00036F3021
UniRef90_C8WMG2
UniRef90_J7HZG5
UniRef90_UPI00037BA6BD
UniRef90_UPI0003B54E51
UniRef90_M4RZQ3
UniRef90_UPI0003B55C65
UniRef90_UPI0003B35409
UniRef90_R7LB49
UniRef90_D1BIG7
UniRef90_R1CZZ3
UniRef90_A0A022LQ27
UniRef90_UPI000289C231
UniRef90_T0M6U3
UniRef90_A0A031LN54
```

UnRARGO PROYSTCOBED A F M Y Y C L D G D M A F M F F H A L Y M H P G P M M ME I T A E V A D S M M M M M M M M M M M M M M M M M M		
UNREGGO PUPIDO029A19495 Fig. 10	UniRef90_D0RQ65	K S D T K O F O V N D F T M S T A K P D S I L Y T H P A A R F F F I V T S S V T D G
UNREGGO PUPIDO029A19495 Fig. 10	UniRef90_UPI00037C8BCB UniRef90_F2N572	LAAMMPYQVDASLMAHAKADAKFLHCLPRGEEVTPEVTDG ARTFR <u>P</u> YQVNRALLD <mark>C</mark> AAADVLFMHCLPRGEEIS <u>H</u> DLLDD
UMBRISHO DYNOLOGY UMBRISHO CANGER UMBRISH CANGER	UniRef90_H0Z8K0	EKQKGVYILTREKMQLAKKNMIVMHPLPRVNEIEVEIDDD LKAFQGYQIITMQTAKSAASNWTFLHCLPRKEEVDDEVFYS
UNRESPO. CAPTOR SECOND MICROSO SECON	UniRef90_UPI00029AB495 UniRef90_F2N9N6	ERQFGPYQVNETLMKMAPKDCRFMHCLPRGLEVTDGVIDG PSYHGLYGLTRARERLMRPDALIAHPGPRGVEFDSHMADH
Unicagio Del Columbia	UniRef90_Q7NGR7 UniRef90_E0I3I3	All IV R E S Y GILLII IV E R A E R M () S N ALL L IM H P A PIV INIV E IL ID S DIL V E H
UNINCEROD UPUN A P R G V M D L T M C R E C R M M R M C S L T M L P A P R G V M L I A D S L V M E C UNINCEROD UPUN A P R G V M L T M C M C M C M C M C M C M C M C M C M	UniRef90_M9SBG4 UniRef90_C7R4C4 UniRef90_M1P155	A E Y S R Q Y G L D A A R L Q M L A D H A L V L H P G P M N R E L S A Q A A D S L A L F Q P D O L N S A L M A K A P A N A V V L H C L P A H F E L T F E V L E S
UNINCEROD UPUN A P R G V M D L T M C R E C R M M R M C S L T M L P A P R G V M L I A D S L V M E C UNINCEROD UPUN A P R G V M L T M C M C M C M C M C M C M C M C M C M	UniRef90_UPI000469CBCE UniRef90_E0XUH2	I DL LQPYRVTKDVMAKTKPNAI FEHCLPSFHNVSDEVFES LDAFRPFTVDASLMEVASASSI FMHCLPRGEEVTDEVJES
UNINCEROD UPUN A P R G V M D L T M C R E C R M M R M C S L T M L P A P R G V M L I A D S L V M E C UNINCEROD UPUN A P R G V M L T M C M C M C M C M C M C M C M C M C M	UniRef90_UPI000472392E UniRef90_F8AZX7 UniRef90_D7WC IO	VKL LQPYQVN MELIKKTNDNVIFLHCLPAFHDTTDEVFRS PTEREYYGLDADRLAAMPLSALVMHPGPMGMEIASDVADS
UNINCEROD UPUN A P R G V M D L T M C R E C R M M R M C S L T M L P A P R G V M L I A D S L V M E C UNINCEROD UPUN A P R G V M L T M C M C M C M C M C M C M C M C M C M	UniRef90_Q03DS0 UniRef90_A0Z4T9	IKLLKPYOVTKEVMEATNPNAIFEHCLPAFHNTDDEVFES ARSMAPYQLNRKLLELAAPEALYMHCLPAHEELSAELMAA
UNINCERION LOVANCE UNINCE	UniRef90_K1Z7I8 UniRef90_UPI000469B2D3	QRVKQLTKYRVTLNATGNAQVRFMHCLPSFHDFTDEVFRS ERRHNQYQVNEALMAKAKDDALFMHCLPAHREDTSAVMDG
UNINCEROD UPUN A P R G V M D L T M C R E C R M M R M C S L T M L P A P R G V M L I A D S L V M E C UNINCEROD UPUN A P R G V M L T M C M C M C M C M C M C M C M C M C M	UniRef90_G4L319 UniRef90_I4Z667 UniRef90_UPI00045E6D1C	QDAFANWCVNAEMMAWAKPDALFMHCLPSFTNVIDEVEES QDAFANWCVNAEMMAWAKPDALFMHCLPSFTNVIDG PEYTRAFGLDSRRMAMLPDHALVLHPGPMNREIISADAADS
UNINCEROD UPUN A P R G V M D L T M C R E C R M M R M C S L T M L P A P R G V M L I A D S L V M E C UNINCEROD UPUN A P R G V M L T M C M C M C M C M C M C M C M C M C M	UniRef90_C3PG15 UniRef90_E6WZH4	PSHREYYGL SKDRAAAMKKDALIMHPGPMGMELNYAVADY SAYAEHYCI TEDRLEDRGLVIMHPGPVMRNIDI SDELLED
UNIRE190 (P1000372A675 UNIRE190 (P1000374A675 UNIRE190 (P1000374A685)	Unikei90_D5DJK4	ENYHSRFGLTWERERKMKSHSIILHPAPRGVEIIADELVEC
UNIRE190 (P1000372A675 UNIRE190 (P1000374A675 UNIRE190 (P1000374A685)	UniRef90_U2YW77 UniRef90_Q9IAU9	EKVADFAGFQLNEELLANADDMHCLPAHRGEEI TDDVMES LRAFQGYQITMQTAKAAASD <u>W</u> TFLHCLPRK <u>E</u> EVDDRVFYS
UNIRE190 (P1000372A675 UNIRE190 (P1000374A675 UNIRE190 (P1000374A685)	UniRef90_B8J2A8	VDTLMPFQVNDDLVAAANPRVKVMHCLPNGIEVTESVFES AEYSRRFCLGLEHMALARPGAGVLHPGPNNEISDDMADA
UNIRE190 (P1000372A675 UNIRE190 (P1000374A675 UNIRE190 (P1000374A685)	UniRef90_UPI000375BA44 UniRef90_D5BRF9	DSYRKHFALTEQSLITYARPDALUMHPGPMGVELDSEVADG PSQREYFNFFKAKLERSAPDALUMHPGPMNEUDSTTADDV
UNIRE190 (P1000372A675 UNIRE190 (P1000374A675 UNIRE190 (P1000374A685)	UniRef90_F4LP98 UniRef90_UPI0003636401	T K L L S P Y Q V N E A L M K A T K K D C I F L H C L P K G E E V T S D V F E G E A L F G A Y Q V N A E L L K N A K E D H I V L H C L P R D K E I T E D I L E L
UNIRE190 (P1000372A675 UNIRE190 (P1000374A675 UNIRE190 (P1000374A685)	UniRef90_G7YP97	MAVGQFVVTPELMTLAKKSGMIVMHPLPRVGEISPSFDSD ANKYKFRLNRSIYTQHCKSNTVIMHPLPRDSRADNDLNSH
UNIRE190 (P1000372A675 UNIRE190 (P1000374A675 UNIRE190 (P1000374A685)	UniRef90_F8ESC4 UniRef90_F0T026	KAMQPYQVNEALMAHAGDQALFLHCLPRGEEVVDAVIDG PSLREYYCLTPERLRKTGKETIIMHPGPMGVEIAGELADS
UniRef90_UP1000372A675 UniRef90_U1YJJ7 PS A R E Y Y R C F G E K L R H A K P D A I V I M H P G P R G V E L A S D L V E A UniRef90_U10MB UniRef90_O10M8 UniRef90_H2CAY3 UniRef90_W0DC40 UniRef90_B4WKT4 UniRef90_B4WKT4 UniRef90_B0DHH0 UniRef90_UP1000228969E1 UniRef90_UP100022896E1 UniRef90_UP100022896E1 UniRef90_UP100022896E1 UniRef90_UP100022896E1 UniRef90_UP100022896E1 UniRef90_UP100022896E1 UniRef90_UP100022896E1 UniRef90_UP1000238F618 UniRef90_UP100023896E1 UniRef90_UP100023896E1 UniRef90_UP100023896E1 UniRef90_UP100023896E1 UniRef90_UP100023896E1 UniRef90_UP100023896E1 UniRef90_UP100023896E1 UniRef90_UP100023896E1 UniRef90_UP10003896E1 UniRef90_UP10003896E1 UniRef90_UP10003896E1 UniRef90_UP10003896E1 UniRef90_UP10003896E1 UniRef90_UP10003896E1 UniRef90_UP10003896E2 UniRef90_UP10003896E2 UniRef90_UP10003896E2 UniRef90_UP10003896E2 UniRef90_UP100038F3C85	UniRef90_A0A023D3U0	PSYHQLIFGII RDRL LLCNPDVKVLHPGPRGVELSSDLMDD PSAREFFRFYGRRLALAKPGALVLHPGPMGVELASDVADS KGVIFAVGII TAKRAESMKRHALLIMHPAPRGVELDTTIVVE
UniRef90_UDOC40 UniRef90_WODC40 UniRef90_BMWKT4 UniRef90_BMWKT4 UniRef90_BMWKT4 UniRef90_BMWKT4 UniRef90_BODHH0 UniRef90_BODHH0 UniRef90_UPI00028969E1 UniRef90_UPI000228969E1 UniRef90_UPI000225F618 UniRef90_UPI000225F618 UniRef90_UPI000225F618 UniRef90_UPI000225F618 UniRef90_UPI000225F618 UniRef90_UPI000225F618 UniRef90_UPI000239809E1 UniRef90_UPI000239809E1 UniRef90_UPI00035F3618 UniRef90_UPI00035F3618 UniRef90_UPI00035F3618 UniRef90_UPI0003614682 UniRef90_UPI0003786680 UniRef90_UPI0003786690 UniRef	UniRef90_G7Q8C2 UniRef90_UPI000372A675	P D L R E Y F C L T T Q R L S R A N P D V K V L H P G P R G V E I A S D L A D A E K L F Q P F Q V N K K L M D A T G G S A C F M H C L P R G R E V T D G V M E A
UniRef90_UPI000379282D UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_D4LAQ3 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_K6YW1 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_UPI00037B8C9E UniRef90_UPI00037B8C	UniRef90_I1YJJ7 UniRef90_I9AJR5	PSAREYYRCFGEKLRHAKPDAII VMHPGPRGVEII ASAVADG SAYHQAYGLTNERAARMPQHAII MHPAPRGVELASDLVEA
UniRef90_UPI000379282D UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_D4LAQ3 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_K6YW1 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_UPI00037B8C9E UniRef90_UPI00037B8C	UniRef90_QTQM8 UniRef90_H2CAY3 UniRef90_W0DC40	KKDFAPYSVNEALMKHAPADAI VMHCLPRGEEI SGDVMDR
UniRef90_UPI000379282D UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_D4LAQ3 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_K6YW1 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_UPI00037B8C9E UniRef90_UPI00037B8C	UniRef90_B4WKT4 UniRef90_B0DHH0	PSYHQRFGITRDRLKVCQPTVKILHPGPRGTEITSDLMDDLQVKDAYRVDHAVLSRAKEDMIVMHPLPRVNEIDPEVDDS
UniRef90_UPI000379282D UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_D4LAQ3 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_K6YW1 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_UPI00037B8C9E UniRef90_UPI00037B8C	UniRef90_UPI00028969E1	EGYHEQFGLTVERERRMKKDAIIMHPAPRGVEIDSSLVEC TRSWGITDDRIAIIFSAADDAVIMHPGPMNREISAAAADS
UniRef90_UPI000379282D UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_D4LAQ3 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_K6YW1 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_UPI00037B8C9E UniRef90_UPI00037B8C	UniRef90_A0A023WNA7 UniRef90_E4SJW5	IKLLPYQVNPPLMATGNPRCKFMHCLPNGEVTEEVFES IKLLKPYTVNMKMMKETDDQLIFMHCLPAFHDRTDEVENS
UniRef90_UPI000379282D UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_IOJXG0 UniRef90_D4LAQ3 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_M2X7W0 UniRef90_K6YW1 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_D8HZF1 UniRef90_UPI00037B8C9E UniRef90_UPI00037B8C	UniRef90_M7WEG7	A E Y HE K Y GLI I E K R E R R M K Q G S I I M H P A P R G V E I A D S L V E C D A V K D S Y I V N N E I L S G A K E H C L V M H P L P R N A E L D P S V D D A P S L O E Y E G L G E R L L T R M K E G A E L M H P G P R G V E L E H R E V E H
UniRef90_D4LAQ3 UniRef90_M2X7W0 ME V F S P Y Q V T M D L M K S Q N K D T I F M H C L P R G R E C D D K V M E S UniRef90_K6YXW1 UniRef90_K6YXW1 UniRef90_L0A4V9 UniRef90_L0A4V9 UniRef90_B8HZF1 R E Y S I A Y G L S E K R Q K L L P D H A V V M H P G P M N R D I S G E T A S G UniRef90_E0XZA9 UniRef90_UP100037B8C9E UniRef90_UP100036F3021 UniRef90_UP100037B8C9E UniRef90_J7HZG5 UniRef90_J7HZG5 UniRef90_UP100037B8CB5 UniRef90_UP100038B5CB5 UniRef90_UP100038B5CB5 UniRef90_UP100	UniRef90_UPI000379282D UniRef90_I0JXG0	IKALSPYAVT MDLRAT GNPDVRFLHCLPAFHDVSDEVFES
UniRef90_E0XZA9 UniRef90_E0XZA9 A D L Y R G R F R L N Q S V Y T A N P N T V V M H P L P R D S R E D I D L N D N I K E L S P Y Q V N K A V M D N A G E Q A I F M H C L P A F H D V T D E V F E S UniRef90_UPI00037B8C9E UniRef90_UPI00036F3021 UniRef90_UPI00037BA6BD	UniRef90_D4LAQ3	QKI IF A P Y Q T N A E I M A K T A K Y F M H C Q P V Y R GI E A T D D V V D G L A Q K D T Y V L D A K K M S R A R P D M I V L H P L P R V D E I T V E V D Q D M E V E S P Y O V T M D I M K S O N K D T I E M H C I P R G R E C D D K V M E S
UniRef90_E0XZA9 UniRef90_E0XZA9 A D L Y R G R F R L N Q S V Y T A N P N T V V M H P L P R D S R E D I D L N D N I K E L S P Y Q V N K A V M D N A G E Q A I F M H C L P A F H D V T D E V F E S UniRef90_UPI00037B8C9E UniRef90_UPI00036F3021 UniRef90_UPI00037BA6BD	UniRef90_K6YXW1 UniRef90_W7QK17	KRVFDPYKVDEAMMETGAEYVMHCQPAHRDLEISGDLTDG NLYRGKFRLNQAIYQHCKSNTVIMHPLPRDSRADAELDND
UniRef90_R6EVN2 UniRef90_UPI00037B8C9E UniRef90_UPI00036F3021 UniRef90_UPI00036F3021 UniRef90_UPI00037B8C9E UNIREF90_UPI00037B8C9 UNIREF90_UPI00037B	UniRef90_L0A4V9 UniRef90_D8HZF1	G S L Q E H Y Q V N D A L L L R T G E H A V V M H P G P M N R D I S G E T A S G R E Y S II A Y G L S E K R Q K L L P D H A V V L H P G P M G M E L A S A V A D S
UniRef90_UPI00036F3021 UniRef90_C8WMG2 UniRef90_UPI00037BA6BD UniRef90_UPI00037BA6BD UniRef90_UPI0003854E51 UniRef90_UPI0003B55C65 UniRef	UniRef90_E0XZA9 UniRef90_R6EVN2 UniRef90_UPI00037B8C9E	IKELSPYQVNKAVMDNAGEQAIFMHCLPAFHDVTDEVFES PSAREYYGLNETRLAMLPEHAVVLHPGPMGMEIIASSVADA
UniRef90_UPI00037BA6BD UniRef90_UPI00037BA6BD UniRef90_UPI0003854E51 UniRef90_UPI0003B54E51 UniRef90_UPI0003B55C65 UNIREf90_UPI003B55C65 UNIREf90_UPI0003B55C65 UNIREf90_UPI0003B55C65 UNIREf90_UPI0003B55C65 UNIREf90_UPI0003B55C65 UNIREf90_UPI0003B55C65 UNIREf90_UPI0003B55C65 UNIREf90_UPI0003B55C65 UNIREf90_UPI0003B55C65	UniRef90_UPI00036F3021 UniRef90_C8WMG2	LAKFAPYQVNHALMAKAQASMVHCQPAHLEEEIITTELFDS VKLMSPYQVNAELLSHVKPDYLELHCLPAFHNVTDEVFYS
UniRef90_M4RZQ3 UniRef90_UPI0003B55C65 UniRef90_UPI0003B55C65 UniRef90_UPI0003B55C65 UniRef90_R7LB49 UniRef90_D1BIG7 UniRef90_D1BIG7 UniRef90_R1CZZ3 UniRef90_R1CZZ3 UniRef90_A0A022LQ27 UniRef90_UPI000289C231 UNIREF90_UPI0000289C231 UNIREF90_UPI0000289C231 UNIREF90_UPI0000289C231 UNIREF90_UPI0000289C231 UNIREF90_UPI0000289C231 UNIREF90_UPI0000289C231 UNIREF90_UPI0000289C231 UNIREF90_UPI0000289C231	UniRef90_UPI00037BA6BD	I N F L S K Y QII N N E L I I K H I N N K V K V M H C L P S F H N I T D D I L F E S L K D F D G Y M V D E K L M A L A K D D A I F L H C L P R G Y E V S E E T F E K T R G W G L T N D R Y K R I E G C N T I I M H P G P M N R G I F I I S A A A A D S
UniRef90_UPI0003B35409 UniRef90_R7LB49 UniRef90_D1BIG7 UniRef90_R1CZZ3 UniRef90_A0A022LQ27 UniRef90_UPI000289C231 UniRef90_UPI000289C231 UniRef90_T0M6U3 PSPREY H H F Y R E R L A L A A K D A L V M H P G P M G L E I T S D V A D D D D V A D D D D V A D D D D D	UniRef90_M4RZQ3 UniRef90_UPI0003B55C65	LA A MA PY QVN A A LIMA GA K P D A V F L H CLP R GE E A T D E V L D G P S P R E Y Y GL D E R R L S L A A P D A L V M H P G P M G V E I S S T I A D D
UniRef90_P1CZZ3 E A A T R E A V N E A L L A A T G R D D T L F L H C L P R G R E V S D G V M E S UniRef90_A0A022LQ27 UniRef90_UP1000289C231 UniRef90_UP1000289C231 UniRef90_T0M6U3 E K V F G S Y Q V N S A L V E K A S R D Y I F M H C L P R G L E V T D D V I E S	UniRef90_UPI0003B35409 UniRef90_R7LB49	PSPREYHHEYRERLALAAKDALVMHPGPMGILEI TSDVADD
UniRef90_UPI000289C231	UniRef90_D1BIG7 UniRef90_R1CZZ3 UniRef90_A0A022LQ27	E A A T RE A V N E A L L A A T G R D D T L F L P R G R E V S D G V M E S P S A R E Y Y G L G P A R T S R L P E N A V V L H P G P M G M E II G F D T A D A
	UniRef90_UPI000289C231 UniRef90_T0M6U3 UniRef90_A0A031LN54	IDALIMAY QVN MOLITKATN PRVK F MHCLPAFHNVT EEVFES EKVFGSYQVNSAL VEKASRDYI F MHCLPRGLEVIT DDV IES

UniRef90_UPI0004142407 UniRef90_C1MZZ1	1
UniRef90_UPI0003B4F8BA UniRef90_T0QEX0 UniRef90_UPI0003B469CF	A M S T F P K H F L L G L A H L K P WE L A F L L D E A E Q W R I A K R D D R L A A M S T F P K H F L S T D Q L T P A Q F Q G L I N T A A E F K K N I N T D L L T K H L I S V D D L F K K D V F N L I F L S F S M R D L K K V P T L R
UniRef90_F0W7X7 UniRef90_D6SQL9	LHNKNFL CISQLSQKELLALLSKAQELKKKKAPKPLENWIHKDLLDIESLSPDEVRHIEDTSARFRSLKKVPLLK
UniRef90_K6YDR6 UniRef90_E4NER6 UniRef90_B2UMI 6	KQDLLSFKDWIADQLHNLLALAIIIKNNPYRIALE SLIGKHILSSDLFDRDQLEELFELADVLRGRQVTRVLE NIISIFOUTGDEIRDIIALGHRIKAFRGHHPIK
UniRef90_R7QGE7 UniRef90_E1V4A8	HELHVDDLSPAELKRILQSAKKIKNDADYRPLL HLLSVDSLSRDDVDHLIRVAARMERRKVTRVLE
UniRef90_Q03HM9 UniRef90_I9C7M1 UniRef90_R2S403	T K R D F I D T N T Y T Q E E I T Y MI N L G E S I K N G Y Y P P L L K R D F L N L T D A G G D A V A A MI N D A L D R K A A R L G Q P L A K H L T V F A L S D O F V M G L L K R G O O F K N G A O W S P E K
UniRef90_C5NWT3 UniRef90_F4BRA8	R NI V K MS DL T N E E V Y QL I E R A LELK N G K Q V E P R E H E V S V E DL T N E E V L T L I K R A S Q F K K G L S A Q V M E
UniRef90_Q4FLQ4 UniRef90_S3XVB7 UniRef90_E4EXI5	ALKLSQKHLLGIQDLSIINDVNFILEEAKSFSKNKRLNVLS KDFLTLNDFSKEQILEILEIAKEVKKGIFTPYLK
UniRef90_Q03HB3 UniRef90_UPI00036ED175	MNMHDLTTVESFSEEDVIHKI RLAEEFKNGKTTELTR RNNSFLKELDFTKEELNDLIDLGLKFKELKKHKYLE
UniRef90_R5FAC9 UniRef90_V1CRW8 UniRef90_L8XV31	RHFIDTNDFTKEELLDII IHLSLEIKAGYNPPLMK MNGNSLIRISDLSKNEIMEILDEANDFSRYMDWQLPE NTIYGOAVISCEOFDIOTINRIFEIADI IOGKARTNVIE
UniRef90_C6HY87 UniRef90_K0RY17	PAFGPHLLSLSGMTQERIVGILDAAEAFQSVKKVPVLR SWEGSPLISVSQISTSGLQLLFQTAQSMRSLVRSQRLK
UniRef90_UPI0002490460 UniRef90_E3ZHP7 UniRef90_A0RX.I5	NIL VITI IN QLIDA E DALIDLI HEA QAYKAGKTIVELIKR KNIL VISMEALISLA ETEQLILEQAALIFK QGKKATEN E FYGRDILISIVRDI DRQALIFEVERYTEKEVIKMERRSIVIAG
UniRef90_K0KAB4 UniRef90_UPI00036218F8	KHLLSTEGIDPADATAILDTAAGLKQSRKLPTLR KKKDFLTLGEWDTEDLDELLQEAAALKKGEPTPYLS
UniRef90_W61616 UniRef90_J5KIQ2 UniRef90_UPI0004784706	QHFI II A DLISLIPA I KAII I A QA QA MQRA PQN FI SV N K NLI NIIS ELS K N DI DELI A FA E QFF D G K R E NI FP N F R G K N FI K F T D F D Q N FI FT I I D FA F K I K M K F K H N I M N
UniRef90_C8P8U3 UniRef90_UPI0003B59A61	H F V S V E K L T V D Q I N A L I D R A E Y F K Q G G A T P T L Q N R L E R R D F L K E L D F T P E D L T Y L L D L A A Q L K A A K K P K F M K
UniRef90_A0KFV2 UniRef90_UPI00041FE396 UniRef90_D8IIA5	Q HILLIK DS DILIN KAQII E AILIJAILIG KAVKA D PKKQAILIA K HILLIS AADILIS R PEIIDAII WELJA E E MREILIKKLIP TILIR H FIVIS WEDII TITDOVNAII IJARA E E E KNGAPAPEIIO
UniRef90_UPI00037BE0B6 UniRef90_C4L7S7	QHLEGIAGMDKEQIEYVLNLGESFRPLKKAPTLR RHLLDTTEFNKSELEALIALGREMKANPAAFRLA
UniRef90_K4KL70 UniRef90_Q3YS44 UniRef90_C4XFY3	FTGSHILISIDQFEQSDIEHVFRVADAMERRR <u>V</u> TRVLE L <u>ELSSL</u> TPDDIESIENITMQYFNNRSQKLLN NIKGRSLDSAINFTTDOLNALIDLKRSKRORPLV
UniRef90_A0A031I156 UniRef90_U2EMG4	RHELNLTAAGADGVAAMLAEALDRKAARADAPLAAFNMHNRHLLSLMHHSTRELVYLLDLSRDLKRGSEQKHLR
UniRef90_UPI0001746AE5 UniRef90_UPI000395B0C5 UniRef90_P68746	RKDILLDI QSLIT DEELEFI LISNAVPFKNVKKVPTILK SDLYQQSLLITLDLSPQQI HDLI DDAAALKAGEETPQLT TSLKNRNI ITMNFFNQSFI SHI LDRAFFCKRIKKDRI IN
UniRef90_H2C9B0 UniRef90_UPI0003B46DCE	T S L K N R N L L T M N E F N Q S E L S H L I D R A I E C K R L K K D R I L N Q D L I S L D L A K E E V L E I F E K T D A L L R G K I R L R L D R H L L T T K G L D S D T A I T L L D V A E D M R E L R K L P T L R
UniRef90_D0LJ06 UniRef90_Q97ZM1 UniRef90_V8CEY2	FRGKSLLCLLDFQTHEIEKMLEVSFLMKSNKVPNSLS RHLIETSDLSTDEIERILHKATQFSSKRPAQSLA RHFLSTADWTRNELQGLLDRASAFKSGTVSRSLE SFVKEIDFSKAELEELIDLSLHFKALKKHNYLQ KHFLCVEGLSRKHLMAITEKANGYLLGKNSDELT
UniRef90_Q0AST0	RHFLSTADWTRNELQGLLDRASAFKSGTVSRSLE SFVKELDFSKAELEELIDLSLHFKALKKHNYLQ
UniRef90_UPl0004765189 UniRef90_UPl0003F9B3EB UniRef90_E4U7H5	K
UniRef90_A9GL64 UniRef90_UPI0002492429	RHFLTTMDYTRAEIEGLLERAQRFKRRPTEPRLK HFVTVEDLSSKQVYNLLERAAYFKNGGRKENFK
UniRef90_UPI0002885C92 UniRef90_UPI00036DA760 UniRef90_T0U2V1	SFLKEIDFT QAELMDLI DESEKFKKRIPHKYLD FKGRSFLAEKDFT RDELQYLI DFSLHVKKNIPHRYLE
UniRef90_UPI0004276EAA UniRef90_R4X9S5	KRDLLTFSDWHSESFKALISLAQTIKTTPYRDALA SPFAPRHLLSLADLSVSEVKGIVDRALELKRLTKHGLLD
UniRef90_066726 UniRef90_V4HCI0 UniRef90_H1WW92	NQSFITGLELDKNKLLDLFNLAHQIKAQPQTQALA FQGRSLLAEKDFKPEEIQYFIDFGLHLKKGIPHRYLE
UniRef90_UPI0003816DBE UniRef90_P59100	A S S F L P R H F L S V A D L S E A D A R K L F E E V A H Q K R G G V Q G P L Q N C L Y Q R D C L R L L D F T T A E L K H L L T L S E K L K K T K Q N K L L K
UniRef90_S7W057 UniRef90_Q72T26	RHLLTTQGLPREEAIAILDVAEDMREVKKLPTLR KHLISWEDWSDSEILDLLDFAIHVKKNRYAGHMS
UniRef90_W7Z2K4 UniRef90_A0A013XWF4	T MS ELIS VR DIV Q QL L D Q A E A F S K G D K W K P K T K H F L N L A D A G G D A V A A MI A D A I D R K S A R A A W P L A M S V K D E L D T N E E T K E E I M D L N L S I V L K A C A V P C L B
UniRef90_UPI000479365C UniRef90_M3J127	LDFTPEEWMALIELAAQLKAGREVQRLT KHLLTMDELSKEEFEELLNRAAFFKKAKKTKFEK
UniRef90_W7CF19 UniRef90_A5MZU2 UniRef90_O7U9G2	KNFVAI EELDLTEVHQLLDRATAFKQGETATP TNNLYGRSFLTLKDFMPEELEYLLKLSKKLKSGKEKKRLQSGWHHRHLLDLAAFSPEDVAAVLDLAFPEBSABKLBALQ
UniRef90_A3WJK6 UniRef90_V8C829	HELTGNELT QSQLIQLI DTAIEQKSQPQKQSLA QRHLIQTNDLSKDEVERI LARAREFSQDRLPQTLL
UniRef90_H0DJY3 UniRef90_X0TH94 UniRef90_W7TNZ3	S F V K E I D F S K A E L E E L I D L S L H F K A L K K H N Y L Q K H F L C V E G L S R K H L M A I T E K A N G Y L G K N S D E L I N L L T G M E M T Q Q A L D L I A L G K N E M K K V P A Q A L L K H L L D F A G W D R A Q V E S L L E T A R M M E M K K V V P A L K R H F L T T M D Y T R A E I E G L L E R A Q R F K R R P I E P R L K H F V T V E D L S S K Q V Y N L L E R A A Y F K N G G R K E N F K N K N L L S L N D L S K K E I L E L I E F A K N F K S F R K E N L F P F K G R S F L K E E L D F T R D E L Q Y L I D L S L H V K K K N L P H R Y L L E K K R D L L T F S D W H S E S F K A L I S L A Q T I K T T T P Y R D A L A S P F A P R H L L S S A D L T S S E V K E I L E F N L A R Q P Q T Q A L L A N Q S F I T G L E L D K N K L L D L F N L A H Q I K K G G P L Q Y N C L Y Q R D C L R L D F T C G E W T Q M L D L A A E L K K G K P P T L R K H L T T W D E L S C E W T Q M L D L A A E L K K G C V Q R R L K K H L T T W D E L S C E W T Q M L D L A A E L K K G C V Q R R L V K H L T T W D E L S C E W T Q M L D L A A E L K K G C C Y Q R R L V K H L T T W D E L S C E W T Q M L D L A A E L K K G G C Y Q R L R K H L T T W D E L S C E W T Q M L D L A A E L K K G G C Y Q R L R K H L T T W D E L S C E W T Q M L D L A A E L K K G G C Y Q R R L R K H L T T W D E L S C E W T Q M L D L A A E L K K G G C Y Q R R L R K H L T T M D E L S C E W T Q M L D L A A E R K K G G C Y Q R L R K H L T M D E L D L D T N E F T K E E L L D D T A E R F K K G G C Y Q R L R K H L T M D E L D L D T A C E E W T Q M L D L A E R C K C T K F E K K H F L D L A A F T K E E L L D D T A E R C K C G C Y Q R L L R C K N F V A I E E L L D L D T A A E R C K S G A R A P P Q Y K S G W H H R H L D L A A F T R S E D Y A A V L D D T A E R C K S G A R P P Q Y K S G G K N F M N L D E L T D V E L R D L L S L S A Q L K K A Y S S P P C E E H L I E Q A W M M K A Y S S P P C E E H L I E Q A W M M K A Y S S P P C E E H L I E Q A W M M K A Y S S P P C E E H L I E Q A S G D A V A G I L I E C A A Q L K K A Y S S P P C E E H L I E Q A S G D A Y A A Q L I L E C A A Q L K K A Y S S P P C E E
UniRef90_H3NMI3 UniRef90_E8SGE0	SLQGKNFMNIDELIDVELRDILSESAQLKKAYSSPPOE MLKKSLLTMNDLTLDDVNLILNDALLFSNSKDWQLSR MKTKDFDAEALMTLIDFSMALKHKKQHHLLK HLSLFDVTAVQIRHILTLAGYMKAHPVSHSLK LKGKNLLCLDLDKWDIQRLLDVSFSFKENSLPKTLE
UniRef90_F7RX21 UniRef90_F4G0L2	HLLSLFDVTAVQIRHILTLAGYMKAHPVSHSLK LKGKNLL <mark>C</mark> LLDLDKWDIQRLLDVSFSFKENSIPKTLE

UniRef90 UPI0004142407	50 60 70 80 G Q N L A L L F E K S S T R T R A A F T V A A N D L G A A P E F L G S G D L Q
UniRef90_C1MZZ1	CELMCTLEVEDCTDTDLCEECAMCKLCCCLLCTECACEVC
UniRef90_UPI0003B4F8BA	GLTQINAFFENSTRTLLSFEIAGKRLGADVVNLGVSGSSNETLLMIFQKRSTRTRLSTEIGMQRLGGRALFLSSDDIQGKSVGLIFFEPSTRTRVSFEIAAKTLSSDTINLSEKGSSNDTCSMIFQKRSTRTRISSELGMHLLGGKALFLSSDDIQGKSVVLFFAEPSTRTKTSFDMAAKRLSADSFSLAATGSS
UniRef90_T0QEX0 UniRef90_UPI0003B469CF	GKSVGLIFFEPSTRTRVSFEIAAKTLSSDTINLSEKGS_S
UniRef90_F0W7X7	NDT CSMIFQKRSTRTRISSELGMHLLGGKAL FLSSDDIQ
UniRef90_D6SQL9	NDT CSMI F QKRSTRTRI SSEI GMHLL GGKAL FLSSDDI Q GKSVVLFFAEPSTRTKTSFDMAAKRLSADSFSLA ATGSS GLSVVALFEKPSLRTRVSFDLGI NKL GGHMVYLDS QSNKL
UniRef90_K6YDR6 UniRef90_E4NER6	GLSVVALFEKPSLRTRVSFDLGLNKLGGHMVYLDSQSNKL GAVMASLFFEASTRTRLS <mark>C</mark> ETAFLRLGGGVTSSTGAELMS
UniRef90_B2UML6	GQTWALIFSKSSTRTRVSFEVGLSELGGRPM FLSVHDLQ
UniRef90_R7QGE7 UniRef90_E1V4A8	NKAMSMVFAKPSSRTRVSFETAMFKLGGHALALGPEVG GAVLGNLFFEASTRTRVSFHAAF <mark>C</mark> RLGGSV <mark>C</mark> DTTGFTFSS
UniRef90_Q03HM9	GLSVVALFEKPSLRTRVSFDMGINKLGGHMVYLDSQSNKLGAVMASLFFEASTRTRLSCETAFLRLGGGVTSSTGAEIMSGQTWALIFSKSSTRTRVSFEVGISELGGRPM FLSVHDIQNKAMSMVFAKPSSRTRVSFETAMFKLGGHALALGPEVGGAVLGNLFFEASTRTRVSFHAAFCRLGGSVCDTTGFTFSSNKTLGMIFEQSSTRTRVSFHAAFCRLGGSVCDTTGFTFSSNKTLGMIFEQSSTRTRTSAEAAMTELGGHAQYLAPGQLQC
UniRef90_I9C7M1	GHVLAMI FEKNSTRTRVSFDMAMRQLGGSAL LMEAGSTQ
UniRef90_R2S403 UniRef90_C5NWT3	PQYFANLFFENSTRTHKSFEVAEKKMGLDVIDF DSRTSS DLYLANLFFENSTRTKHSFEVAEHKHRLNVINFEVAT S
UniRef90_F4BRA8	PLYAVNLFFENSTRTHKSFEMAEKKLGLEI I DF EPSTSS
UniRef90_Q4FLQ4 UniRef90_S3XVB7	GKTQI NLFFEPSTRTQSSFELAGKRLGADVMSMNMANSA NQTLAMVFEKNSTRTRISFEVGMYQLGGHAL FLDSKTTQ
UniRef90_F4FXI5	HRTLGMI FEESSTRTRVSFETAMTQLGGHAQYLAPGQIHL
UniRef90_Q03HB3	PVYAMNLFFENSTRTHTSFEMAESRLGMRLLEF EAKTSS
UniRef90_UPI00036ED175 UniRef90_R5FAC9	GLNIALI FEKASTRTRSAFTVAGQDLGMN VTYLGSGEIQ GKTLGMI FQQSSTRTRVSFETAMEQLGGHA QYLGPGMIQ
UniRef90_V1CRW8	GKL VANL FFEPSTRTHESESSAEMQL GCK VENETAQGSS
UniRef90_L8XV31 UniRef90_C6HY87	NKTLGMIFEQSSTRTRTSAEAAMTELGGHAQYLAPGQLQLGHVLAMIFEKNSTRTRVSFDMAMRQLGGSALIMEAGSTQPQYFANLFFENSTRTKVSFDMAMRQLGGSALIMEAGSTQPQYFANLFFENSTRTKHSFEVAEKKMGLDVIDF DSRTSSDLYIANLFFENSTRTKHSFEVAEKKMGLDVIDF DSRTSSGKTQINLFFENSTRTKHSFEWAEKKLGIEIIDF EPSTSSGKTQINLFFEPSTRTQSSFELAGKRLGADVMSMNMANSANQTLAMVFEKNSTRTRISFEVGMYQLGGHAL FLDSKKTTQHRTLGMIFEESSTRTRVSFETAMTQLGGHAQYLAPGQIHLPVYAMNLFFENSTRTHTSFEVGMRLLEF EAKTSSGLNIALIFEKASTRTRSAFTVAGQDLGMN VTYLGSGEIQGKTLGMIFQSSSTRTRVSFETAMEQLGGHAQYLGPGMIQGKTLGMIFQSSTRTRTSSFETAMEQLGGKKVSNTTGVSFSSGAIMGSLFFEASTRTRSSFETAMEQLGGKVSNTTGVSFSSGKTLVNLFFEPSTRTHFSFSSAEMQLGGKVSNTTGVSFSSGKTLVNLFFESSTRTRSFETAMEQLGGKVSNTTTGVSFSSGKTLVNLFFESSTRTRSFEDAAKRLSADVINVTTPSQSSRKVLANVINVTPSQSSRRVLASVFYEASTRTRSFETAMRLSADVINVTPSQSSRRVLASVFYEASTRTS
UniRef90_K0RY17	RRVLASVFYEASTRTS CSFQAAMMRLGGTFI HVDGGKNTS
UniRef90_UPI0002490460	PAYAMNLIFFEDSTRTKSSFQMAELKLIGMKI I NF NSKTSS
UniRef90_E3ZHP7 UniRef90_A0RXJ5	QAFAVNMFFEPSTRTLTSFEVAEKKLGVEVVSF DAASSS GRTLGYLFYEPSTRTRLSFQAAMASAGGTSLGIADVSS S
UniRef90_K0KAB4	GRTVLTMFYENSTRTRVSFELAGKWMSADVVNVSSSGSS
UniRef90_UPI00036218F8 UniRef90_W6T616	
UniRef90_J5KIQ2	GRHLATLFFEPSTRTRLSFTAAMQALGGQVLGFESIDSTS DKTIANVFFEPSTRTKLSFETAAKNLGCQTINFDIK NS GKNIALLFEKQSTRTRAAFTVAANKLGATVEYLNRNDLQ
UniRef90_UPI0004784706 UniRef90_C8P8U3	GRHLAILFFEPSTRTRLSFTAAMQALGGQVLGFESIDSTS DKTIANVFFEPSTRTKLSFEIAAKNLGCQTINFDIK NS GKNIALIFEKQSTRTRAAFTVAANNLGCQTINFDIK NS DKNIVILFENSTRTRTSFAMAEKKLGLTEIPF DAAAHSS DKNIVILFEKDSTRTRCSFEVAAHDQG ARVTYLGPSGSQ GKSVVTLFEKPSLRTRVTFDIGIAKLGGHSVYLD QQNG GRTVVVNMFFENSTRTRTSFELAGKWLSADVINV SAKGSS PVYVTNMFFENSTRTRTSFELAGKWLSADVINV SASHSS GKNIVTLFEKQSLRTRVTFDIGINRLGGHAVYLD QQNG GRTVVVNMFFENSTRTRTSFELAGKKLGLTEIPF DASHSS GKNIVTLFEKQSLRTRVTFDIGINRLGGHAVYLD QQNG GAILGNMFFEPSTRTRTSFELAGKKLSADVINI SASTS GKNIVTLFEKQSLRTRVTFDIGINRLGGHAVYLD QQNG GAILGNMFFEPSTRTRVSFGCAFNLLGGEVRETTGFESSA GKVVVNLFFESSTRTLSSFEIAEKSLGAHSITLNINTS GKNIALMFQKDSTRTRCAFEVAAADLGASCTYLGPAG SGHVLAMMIFEKNSTRTRCAFEVAAADLGGSSIVM DAGSMQ DKTSRSFFEKTSTRTRSSFEIAASRLSADVTNFSVSTS GRTVLTLFYEPSTRTRSSFEIAASRLSADVTNFSVSTS SGRTVLTLFYEPSTRTRSSFEIAASRLSADVTNFSVSTS GKNIALMFEKNSTRTRCAFEVAAAFDQGAQVTYLGPSG SGHVLAMMIFEKNSTRTRCAFEVAAFDQGAQVTYLGPSG GKIVVLTLFYEPSTRTRSSFEIAASRLSADVTNFSVSTS SGKNIALIFEKTSTRTRCAFEVAAAFDQGAQVTYLGPSG SGKNIALIFEKTSTRTRCAFEVAAFDQGAQVTYLGFPSG
UniRef90_UPI0003B59A61	DKNIVILFEKDSTRTRCSFEVAAHDQG ARVTYLGPSGSQ
UniRef90_A0KFV2 UniRef90_UPI00041FE396	GKSVVTLFEKPSLRTRVTFDIIGLAKLGGHSVVLD QQNG
UniRef90_D8IIA5	PVYVTNMFFENSTRTHTSFAMAEKKLGLTEIPF DASHSS
UniRef90_UPI00037BE0B6	GKTI I NLFFENSTRTRTSFELAGKRLSADVI NI SASTS
UniRef90_C4L7S7 UniRef90_K4KL70	GAILGNMFFEPSTRTRVSFGCAFNLLGGEVRETTGFESSA
UniRef90_Q3YS44	GKVVVNLFFESSTRTLSSFETAEKSLGAHSLTLNUNTS S
UniRef90_C4XEY3 UniRef90_A0A031I156	GHV LAMI F F K N S T R T R V S F D M A I R Q I G G S S I V M D A G S M Q
UniRef90_U2EMG4	DKTSRSFFEKTSTRTRCAFEVAAYQQGANVTYLDPSS S
UniRef90_UPI0001746AE5 UniRef90_UPI000395B0C5	GRTVLITILIFYEPSTRTRSSFEII AASRLISADVITNFSVISTS S
UniRef90_P68746	HUNI CGI FUKPSGRTSTSFVVASYDEGAHF QFFPADNI
UniRef90_H2C9B0 UniRef90_UPI0003B46DCE	GKIVSLAFFEPSTRTALSFESAALSMGGRVLGFTSEESIS GKTVVNLFFEDSTRTRISFEAAAKRLSADVINF SAKGSS GRVLGMIFEKASTRTRVSFEVATYELGGHAVDLL PNASQ GKRVALLFEKPSTRTRVSTELAVSLLGGIPIVLNKQDLQW
UniRef90_D0LJ06	GRVLGMI FEKASTRTRVSFEVATYELGGHAVDLL PNASQ
UniRef90_Q97ZM1	GKRVALLFEKPSTRTRVSTELAVSLLGGIPIVLNKQDLQW
UniRef90_V8CEY2 UniRef90_Q0AST0	GKSVALVFFNPSLRTRTSFDIGTQRLGGHAIVEFGEGAVM
UniRef90_UPI000365F949	GYNIALIFEKSSTRTRSAFTVAGQDLGMN_VTYLGAGELQ
UniRef90_UPI0004765189 UniRef90_UPI0003F9B3EB	GKSVVTL FEKQSLRTRVT FDI GVN KL GGHAVYLD QT NG
UniRef90_E4U7H5	GFTVATVFFEPSTRTKLSFELAARRMSAD VVGFSGAGSS
UniRef90_A9GL64 UniRef90_UPI0002492429	RQNVANLEFENSTRTKLSFTMAEKKU GINVEPFA AFTSS
UniRef90_UPI0002885C92	DKTI ANVECEPSTRTKSSFENAAKNLGCSVVGFDIS NS
UniRef90_UPI00036DA760 UniRef90_T0U2V1	GKNVALLIFEKISIKIKSAFIVAGQDILIGMN VII YILIGAGDII Q
UniRef90_UPI0004276EAA	GKSVVALFEKPSERTRVSFDVGENKLGGHLVYLDSQANNL
UniRef90_R4X9S5 UniRef90_O66726	NKS AM L F S K K S K K V S E S A M S L G G A M
UniRef90_V4HCI0	GOSIVĪLFĒĶPSURTRUSFDUGUNKLGGHAVVLDQQNGAM
UniRef90_H1WW92 UniRef90 UPI0003816DBE	G OV WALLER K PSTRTRUSED DAVIROUGGSTUEL SATEU
UniRef90_P59100	QKNIALIFEKESTRTRCSFEVAAFDQGAN VTYLGPGSTH
UniRef90_S3X451 UniRef90_S7W057	GRNII ALI FEKTSTRTR <mark>C</mark> A FEVAV <mark>III</mark> DQGGHTTFLDPLA S GKTVINI FEFDSTRTRUSFFA A KRUSA DVINFA A KGSS
UniRef90_Q72T26	GRSLAMLFQKTSTRTRVSFEVAMTEMGGHGIVLD WMA
UniRef90_W7Z2K4	QSFIVIANLIFFEASTRTRFSFELIAERKLIGLE II LQFDGDHSS
UniRef90_A0A013XWF4 UniRef90_R6JWB6	NKSLGMI FQQSSTRTRVSFETAMQQLGGHAQYLAPGQIIQL
UniRef90_UPI000479365C	GRNLALVFEKTSTRTRCSFEVGAADQG ARTTYLDPSGSQ
UniRef90_M3J127 UniRef90_W7CF19	PVFVANLFFESSTRTHLSFEVAERRMGMOVIPFD ASOS
UniRef90_A5MZU2	GKNI ALI FEKDSLRTRCSFEVGAYDQGAN VTYLGSTĞS
UniRef90_Q7U9G2 UniRef90_A3WJK6	GKELVATILIFFEPSTRTRSSFEILIAAKRILISAD VQSFSPSSSS GKSILVTILIFFKPSTRTRITSTDVGTORILIGGH <mark>C</mark> VVTD FONG
UniRef90_V8C829	GKNI ITI FFENSTRTLSSFECALKNIGGA VITRLDVSRSS
UniRef90_H0DJY3 UniRef90_X0TH94	DQF V AN L FFENSTRTKSSF LV AEQK L G LN LV DFETST SGRT A
UniRef90_W7TNZ3	GRIVLIFIE KASTRTRIVSTELVAAVSLLGGG PI VLN DVSRSS GGKRVAAL FEKASTRTRIVSTELVAAVSLLGGG PI VLN DVSRSS SS GKRVAAL FEKASTRTRIVSTELVAAVSLLGGG PI VLN DVSRSS SS GKRVAAL VFFN PSLRTRTRIVSTELVAAVSLLGGG PI VLN DVSRSS SS GKRVAAL VFFN PSLRTRTRIVSTELVAAVSLLGGG HAI VIEF GE GG GAV MA TT YELL FEKASTRTRISTS FED GE GA AV WKN LLGGG HAI VIEF GE GE GAV MA TT YELL FEKASTRTRISTS FED GE GA AV WKN LLGG GA AV VLD GAT STELVAA EKRKLGG GA AV VLD GAT STELVAA GAT STELV
UniRef90_H3NMI3	KRLIANLFFESSTRTHYSFNSAELQLGANIVDF NAERSS
UniRef90_E8SGE0 UniRef90_F7RX21	NKSI AML FEKPSLRTRVSFEVGI QQLGAQPI YLD AQMIV
UniRef90_F4G0L2	GKRII IALIFFEKPSTRTRVSSELIAIVISMLIGGTATVLI SKNDL

intered Disposal Arebaa		
Interior CHANGES AND A	UniRef90 UPI0004142407	
A	UniRef90_C1MZZ1	SAAKGETII IEDTII IPTIVIEGVADII VVI IPHET AGAAPPAADAII I
A		LIGUNESI KDSAHVMSREGSALI ARVVGHASVVELI AKE
A	UniRef90_UPI0003B469CF	VEKGESLLDT KTI TALGVDFL VIRHRSEGFPHILAKLSG
A	UniRef90_F0W7X7	L GVN E T L K D T A L V L S R F S D V I L A R V N S D E D L K E L A T H A
I		LISKGEGLIKDTVLITLQAMNPDAILVLRHSLISGAAGFII ASHLID
Interest	UniRef90 E4NER6	ISKGESL ADTSRVVTGYCDLVVMRHPEVSAVHEFAAATN
Intellege E11/48	UniRef90_B2UML6	LGRGEPLKDTARVLGRMIHGAALRTYGQQEV EFFASFS
MR4890 CS2403		WAKGESIY DISRVMSGY <mark>C</mark> DAI VMRHPEOGSVAEEAOAIN
I	UniRef90_Q03HM9	GG HEIIIEDISQIVLIGRIILIDIIIIGARIVIDRHKIIVIAEIVIGKYA
Junkelson	UniRef90_I9C7M1	ILIGRGETII ADTARIVLISRMIVIDAII IMII IRTDDHAKII IEEILI AHY
INTERESPO F4BRA8		SVNKGETILIYDT CKTILEMILIG CNMIL VIRHGODAY YN ELITNIL
Johnson Stay	UniRef90_F4BRA8	
Imbresson Justice Ju		I KKGETLIDIAMILNAMHPDII VIRHQDSGA <mark>C</mark> NLLSQKVN
Jinkelego Desponso Processed Process	UniRef90_F4FXI5	G S A E S E S L G D T A L V L S R L V D L L M A R V A K H S T V E K L A E T
Jinkergo Linkergo	UniRef90_Q03HB3	VTKGESLLDTVKTIDALQTDLAVIRHPQNDYYKQLLEADL
VIERNO		ILIG G H E T II IG D T G R IV L IS N IL I ID II V IM A R IV I IE H K S IV V IE IL IA Q A S
JAIRGERGO CREMENT JAIRGERGO CR	UniRef90_V1CRW8	VEKGESLYDTAKTFEAUGFDALVIRHKENEY FNSUKGL
Junkergo De10002490460		II VIK GESII S D T VIKTII E A II GAD GII VIR HASSGAA FEWAERW
Junkergo Del0002490460 Minkergo Del0002490460 Minkergo Del0003490460 Minkergo Del00036219F8 Minkergo Del000366559 Minkergo D	UniRef90_K0RY17	ASKKGESLEDTIKCLECYTDATVLRHPTTGSVQVALGGGT
June	UniRef90_UPI0002490460	WINKGETILYDTILIT MOANGNINIVAN I RHSENDYYKELLITKPN
Junkergo	UniRef90_A0RXJ5	SIQKGESLADTVRMMAMYSDALVLRHPLDGS SRFAAEVS
Junkergo	UniRef90_K0KAB4	V S K G E S L R D T A L T L A A A G A D C V I V R H P A S G A A H R G W L K H T
Jinkergio UPIDO034740766	UniRef90_W6T616	VTKGESL ADTIRVVSQYVDAL WVRHPTA GAAAVAATHA
Jinkergo Capabus Mickey All	UniRef90_J5KIQ2	SMKKGESVFETLDTVSLMGVDMFLIRSSEPLLAELANMMP
Jinker90	UniRef90_UPI0004784706 UniRef90_C8P8U3	F G G K E S V E D T A K V L G S M F D G T A F K G S E Q S T V E A L G E H A M S K G E T L Y D T C L V M N A L G V D L S V R A S F N A Y Y G P I T N P G A
Jinkel90 UP100041FE396	UniRef90_UPI0003B59A61	MGKKESM ADTARVLSRFFDGIEYRGYEQARV EALAEF
Jinker90	UniRef90_A0KFV2 UniRef90_UPI00041FF396	ALIGKKESVIQDEAANLISRW <mark>C</mark> DAII VIARVIFDHQTLVELIAEHG TSKGESIIRDTVIATIIDAMGVIDAII VVIRHSASGAPAOTAOWIVIP
Jinkel90 UP1000378E086	UniRef90_D8IIA5	
Initerion	UniRef90_UPI00037BE0B6	A T K K G E S L L D T G Q T L A M Q P H V L V I R H S V S G A C E F L A D Y L G
Jinker90	UniRef90_K4KL70	I A K G E S L Y
Jinker90	UniRef90_Q3YS44	N K G E S D T L N N A M N P D L
Jinker90	UniRef90_C4XEY3 UniRef90_A0A031I156	LGRGESI ADTARVLIS GYVDAII MIRTDDHAKII EDMARHA
Jinkef90_P1000395B0C5 Jinkef90_P58746 Jinkef90	UniRef90_U2EMG4	Q G H K E T K D T A R V L G R M Y D A E Y R G A D Q H T V E Q L A E F
Jinkef90		QI GHKETMKDTARVLIGRMYDGII QYRGFGOFIVVIFTII AAHA
Jinkef90	UniRef90_P68746	RFGHKESIKDFARVVGRUFDGI AFRGFEHEVAEELAKHS
Jinker90		IVIAKGENII I ADTIVIRMII IDNYSD <mark>C</mark> II VIIRHKEDGAAKEASE II IA
Jinker90	UniRef90_D0LJ06	MARGEPIRDTARVLGGY <mark>CH</mark> GLVLRTHAHSRALELAKWA
JniRef90_UP100036DA760	UniRef90_Q97ZM1	
JniRef90_UP100036DA760	UniRef90_Q0AST0	DGDKEEHVREAARVLSSYVDLIALRCFPEFKDWQSERFAK
JniRef90_UP100036DA760	UniRef90_UPI000365F949	LGKKESVV DTAKVLGSMFDGIEYRGFSQEDVELLAQHA
JniRef90_UP100036DA760	UniRef90_UPI0003F9B3EB	AMGSREDVKDFAANISRWADCIVARVFDHKTLVEMQEYA
JniRef90_UP100036DA760	UniRef90_E4U7H5	LAKGESFKDTLLTLQAMALDAYVIRAPVAGMAHQAARWLR
JniRef90_UP100036DA760	UniRef90_A9GL64 UniRef90_UPI0002492429	VQKGESLYDTL LTMSAIIGIIDLAVIRHPONNYYOHII LFOPG
JAIRE190	UniRef90_UPI0002885C92	SVEKGESIJY ETVDALSLMGVDLCVLRHPESVJRDLSEYLP
JniRef90		MGSKESV EDSAKVFGRMFDGII FYRGFSORI VFDII AKY
JAIREF90	UniRef90_UPI0004276EAA	
JAIREF90		ILIGIVIN E SILIY DI I A KIVI IS S MIVIA <mark>CI</mark> L VIA KIVID A H Q E VIM A ILIS K A
JAIREF90	UniRef90_V4HCI0	GSRESV. KDFALNISTWADGI VARVNQHSTLI STLAEY
JniRef90		OUSRGEPMEDTARVIGRMVOGAVIRTEAGERI ETEARS
JniRef90_Q72126 JniRef90_W7Z2K4 JniRef90_A0A013XWF4 JniRef90_R6JWB6 JniRef90_UP1000479365C JniRef90_M3J127 JniRef90_W7CF19 JniRef90_A5MZU2 JniRef90_A5MZU2 JniRef90_A5MZU2 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_ASWJK6 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_ASWJK6 QLGQRETILADYAK NLSCWCDAIL VARWNHAATLQELAK HA JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JNIREF90_W7CF19 S N K G E S Y D T C K T L E S GV N L L V I R H S E N A Y Y D K L D N L W L W L W L W L W L W L W L W L W L	UniRef90_P59100	LG TKESLEDTARVLSRLYDGIQYRGHNHKTIELLAQYS
JniRef90_Q72126 JniRef90_W7Z2K4 JniRef90_A0A013XWF4 JniRef90_R6JWB6 JniRef90_UP1000479365C JniRef90_M3J127 JniRef90_W7CF19 JniRef90_A5MZU2 JniRef90_A5MZU2 JniRef90_A5MZU2 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_A3WJK6 JniRef90_A3WJK6 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_ASWJK6 JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_ASWJK6 QLGQRETILADYAK NLSCWCDAIL VARWNHAATLQELAK HA JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JniRef90_W7CF19 S N K G E S Y D T A R T Y V A M G A D V L V V R H R S T G V P Q Q L E S A G E JniRef90_W7CF19 JNIREF90_W7CF19 S N K G E S Y D T C K T L E S GV N L L V I R H S E N A Y Y D K L D N L W L W L W L W L W L W L W L W L W L	UniRef90_S3X451	QII GHKESMPDTARIVLIGRMFDGII EYRGFEQSRVEEL AEY
JAIREF90_ A0A013XWF4	UniRef90_Q72T26	
JniRef90 V8C829 TTKGET[SDTAAN[NAMSPDAIITR#QSSGAP VHLKKSV] JniRef90 H0DJY3 SVQKGESLYDTCKTLES[GVNLLVIRHSENAYYDKLDNI] JniRef90 X0TH94 GKREPAAD[ARVLSRYVDGIAARTFSQETLHILAGH	UniRef90_W7Z2K4	IKKGESLYDTARTLESIGADALVIRH SQDAFFNELKNI
JniRef90 V8C829 TTKGET[SDTAAN[NAMSPDAIITR#QSSGAP VHLKKSV] JniRef90 H0DJY3 SVQKGESLYDTCKTLES[GVNLLVIRHSENAYYDKLDNI] JniRef90 X0TH94 GKREPAAD[ARVLSRYVDGIAARTFSQETLHILAGH	UniRef90_A0A013XWF4 UniRef90_R6JWB6	GG HETI EDTSAVLISRIL VIDIL LIMARIVIDRIHKSIV VIDIT AKN
JniRef90 V8C829 TTKGET[SDTAAN[NAMSPDAIITR#QSSGAP VHLKKSV] JniRef90 H0DJY3 SVQKGESLYDTCKTLES[GVNLLVIRHSENAYYDKLDNI] JniRef90 X0TH94 GKREPAAD[ARVLSRYVDGIAARTFSQETLHILAGH	UniRef90_UPI000479365C	MG HKESVADTARVLGRMFDGIEYRGDSQAKV GTLAEL
JniRef90 V8C829 TTKGET[SDTAAN[NAMSPDAIITR#QSSGAP VHLKKSV] JniRef90 H0DJY3 SVQKGESLYDTCKTLES[GVNLLVIRHSENAYYDKLDNI] JniRef90 X0TH94 GKREPAAD[ARVLSRYVDGIAARTFSQETLHILAGH	UniRef90_M3J127 UniRef90_W7CF19	IIIKGESLIYDIALII MQAII GIVIDIVIAIVII RHQDEN FFDAIL RSL SUNKGESII YDTI I TII FAII GIVIFIVIAIVI RHT FNNY Y FDI I I PRI
JniRef90 V8C829 TTKGET[SDTAAN[NAMSPDAIITR#QSSGAP VHLKKSV] JniRef90 H0DJY3 SVQKGESLYDTCKTLES[GVNLLVIRHSENAYYDKLDNI] JniRef90 X0TH94 GKREPAAD[ARVLSRYVDGIAARTFSQETLHILAGH	UniRef90_A5MZU2	HIGKKESI KDTARVMGRMFHGVEYRGFSQKD MEIFSEYS
JniRef90 V8C829 TTKGET[SDTAAN[NAMSPDAIITR#QSSGAP VHLKKSV] JniRef90 H0DJY3 SVQKGESLYDTCKTLES[GVNLLVIRHSENAYYDKLDNI] JniRef90 X0TH94 GKREPAAD[ARVLSRYVDGIAARTFSQETLHILAGH	UniRef90_Q7U9G2	LISKGESVLIDTARTYVAMGADVLVVARHRSTGVPQQLESAGE
JAIRET90_X01H94 GKREPAADILARIVESRYIVIDGII AARI FSQEILHI LAGH	UniRef90_V8C829	TTKGETUSDTAANUNAMSPDAIIIRHQSSGAP VHUKKSV
JniRef90_W7TNZ3 LGVNESM RDTANVLSRFNSLILARVFAHTDVQLLAKHS JniRef90_H3NMI3 LNKGESLYDTVKTFKSLGYDAVVJRH EQDEYFKELENI JniRef90_F7RX21 EPGQRESVEDIARNLACWTHGIVARVFKHETLHKIKAA JniRef90_F4G0L2 QVSRGEPIEDTARVLGRMVNGIGARVQKHETLHKIAFYSN	UniRef90_H0DJY3	SVQKGESLYDTCKTLESIGVNLLVIRHSENAYYDKLD NL
JniRef90_H3NMI3 JniRef90_E8SGE0 LGVKESL_ADTAQVFGRMYDGIEFRGYHQSDVEELSQHS JniRef90_F7RX21 EPGQRESVEDLARNLACWTHGIVARVFKHETLHKLKAA JniRef90_F4G0L2 QVSRGEPLEDTARVLGRMVNGLGARVQKHETLHKLAFYSN	UniRef90_X01H94 UniRef90_W7TNZ3	LGVNESM RDTANVLSRFNSLI LARVFAHT DVQL LAKHS
JNIRE190_E03GEU LIGIVIN E SILL A DITA QIVIF G K M Y D GITEF R G Y H Q S DIVIE E IL IS Q H S JNIRE190_F7RX21 E P G Q R E S IV E D L A R N L A C W T H G I V A R V F K H E T L H K L K A A JNIRE190 F4G0L2 Q V S R G E P I E D T A R V L G R M V N G II G A R V Q K H E T L H K I A F Y S N	UniRef90_H3NMI3	LNKGESLYDTVKTFKSLGYDAVVIRH
UNIREF90 F4GOL2 QVISRGEPILEDTARVLIGRMVNGLIGARVOKHETILIHKLIAFYSN		LIGIVIKE SILI AD LAQIVIE GRMYDGILEERGYHQSDVEELSQHS EPGQRESVEDITARNLIA <mark>C</mark> WTHGILVIARVIEKHETILHKILKAA
<u> </u>	UniRef90_F4G0L2	QVS RGEPLEDTARVLGRMVNGI GARVQKHETLHKLAEYSN

120

UniRef90_UPI0004142407 UniRef90_C1MZZ1	130 140 150 160 S G V P V W N G L T D D W H P T Q M G D F M T K E E F G T F A G K L V Y A E S P V I N A G D G P G Q H P T Q A L L D T Y T Y N E L G R L D D I K V G L V
UniRef90_UPI0003B4F8BA UniRef90_T0QEX0 UniRef90_UPI0003B469CF	CPVLNAGDGRHEHPTQALLDALTIRRRKGRIAGLRVALC ASVPVINALSDKYHPLQALADYLTVQEHFGSVKGLTLAWV ISTINAGDGKNEHPTQALLDLFTMMTRKRDLKGATISIV
UniRef90_F0W7X7 UniRef90_D6SQL9 UniRef90_K6YDR6 UniRef90_E4NER6	TVPVINALSDRFHPLQALADYMTITQHFGRVDGLTIAWICSVLNAGDGWHAHPTQALLDGFTLFQHWQDFQDKKILILAKVPVINALCDIYHPCQAVADYLTISEHYDDLSKVKLAYIIPVVNCGNGAGEHPTQALLDMFTLHREFARIDGRRIALVGIPTINALTDEEHPCQILADLLTIEELYGPWKDMKIAFV
UniRef90_B2UML6 UniRef90_R7QGE7 UniRef90_E1V4A8	GIPTIN ALT DEE HPCQILADLITIEELY GPWK DMKIAFV ASVPVINGLT DYNHPCQIVADALT MAETRGALEGAKVVYV VPVINGGDGPGEHPSQALLDIYTIDKEFKQLAGAHILLT KVPVVNFMSDYNHPTQELGDITTMVEHLPAGKKLSDCKI
UniRef90_Q03HM9 UniRef90_I9C7M1 UniRef90_R2S403	HCSI INGGDGSGQHPTQCLLDLMTLYEEFGYFEGLKVALV
UniRef90_C5NWT3 UniRef90_F4BRA8 UniRef90_Q4FLQ4 UniRef90_S3XVB7	CAV LNAGDGSREHPT QALLDALTIINRKKILGLRVAI
UniRef90_F4FXI5 UniRef90_Q03HB3 UniRef90_UPI00036ED175	ATVPVLNGMSDYNHPTQEIGDLITMAEHLPAGKKLSDCKV NISIVNGGDGSGQHPSQSLLDMMTIYQEFNHFDGLKIAIA SGVPVWNGLTDTWHPTQMIADFMTLKEHFGKLEGLTIAYI
UniRef90_R5FAC9 UniRef90_V1CRW8 UniRef90_L8XV31	A T V P V L N G M S D Y N H P T Q E I G D L L T M A E H L P A G K K L S D C K V N I S I V N G G D G S G Q H P S Q S L L D M M T I Y Q E F N H F D G L K I A I A S G V P V W N G L T D T W H P T Q M I A D F M T L K E H F G K L E G L T I A Y I S I P V L N A M S D Y N H P T Q E I G D L C T I L E N L P K N K K L E D C K V N I P V L N G G D G S G N H P T Q C L L D L L T M Y Q E F G R L E G L K L A L I N T P I I N A G N G A G E H P T Q A L L D A Y T I H N E F K T M D N C R I A M I
UniRef90_C6HY87 UniRef90_K0RY17 UniRef90_UPl0002490460 UniRef90_E3ZHP7	V N G G D G V A E H P T Q A L L D E F T I K K K K G K V A G L T V A I V V K P V I N A G D G S G O H P S O C I L D M M T I A F O F K C F R D I K V I L V
UniRef90_A0RXJ5 UniRef90_K0KAB4 UniRef90_UPl00036218F8	DKPVINAGSGTEEHPTQAIQDLFTIRREKGGIDGLNIGVV
UniRef90_W6T616 UniRef90_J5KIQ2 UniRef90_UPl0004784706 UniRef90_C8P8U3	A DVPVINGLT DLH HPT QVL A DLLTI YEHKHKLKGLKVCYL SVPVINGGDHLHPT QTLT DLATI DRYKHRLNHLTI AFG GVKFINAGEGTESHPT QTLT DFLTI KQTKDTLNNLKI VIV DLPVWNALT DEWHPT QMLADFLTI QEHFGTYKGKTVTFV GQHI VNAGDGSGQHPSQSLLDMMTIHEHFGRFNGLKVALV SSVPVWNGLTNEWHPT QLLADMLTMRCCPKPLNRQCLAYL
UniRef90_UPI0003B59A61 UniRef90_A0KFV2 UniRef90_UPI00041FE396	S S V P V W N G L T N E W H P T Q L L A D M L T M R C C P K P L N R Q C L A Y L T V P V V N S L C N L Y H P C Q G L A D F M T I S E H Y G D L S K V K L A Y L A S V I N A G D G T H E H P T Q A L L D G F A L G R H F F D W A D K K I A I V G L G I V N G G D G S G Q H P S Q C M L D I M T I H E H F G H F K G L K V A I V
UniRef90_D8IIA5 UniRef90_UPI00037BE0B6 UniRef90_C4L7S7 UniRef90_K4KL70	TIVIPIV VIN SILIC NILIY H P C Q AIL A D F M T II A E N Y D DIL S KIVIKILIA YIL
UniRef90_Q3YS44 UniRef90_C4XEY3 UniRef90_A0A031I156	NCCII NAGDGNHEHPTQALIDYCTIRYLKKNISNLNISIC SGVPVWNGLTDAEHPTQMLADYMTIKEFKGDLKGKKIVFA TVPVINGLTDQSHPCQIMADLQTILEDGKALPGLKMAWL
UniRef90_U2EMG4 UniRef90_UPI0001746AE5 UniRef90_UPI000395B0C5	A GV PI F N GLT A E Y H P T Q ML A DV L T M R E H D K P L H G L S Y A Y L A S V I N A G D G F H A H P T Q G L L D V F T M C H S D K P L N Q L A F A Y V
UniRef90_P68746 UniRef90_H2C9B0 UniRef90_UPI0003B46DCE UniRef90_D0LJ06	GIPVWNALTDTHHPTQVLADVMTVKEEFGRIEGVTIAYVQKPVINAGDGKHEHPTQTLIDLYTIKRIFGTPEGLTFGLLDAGIINAGDGTHEHPTQALLDAFTIRRRLHDLDGVTVTIVPVPVINGLTDLHHPCQVGADLCAVKERRGSLDGLRYAWI
UniRef90_Q97ZM1 UniRef90_V8CEY2 UniRef90_Q0AST0	S GV PV F NL LIS DLIS H PLIQ A LIA DIL MTIL R E R F G N NIL VIKIL A FIV S C PL LIN G G D G A H A H P T O A LI DIL LTIL R O C G O NIL A G K RIL GIL I
UniRef90_UPI000365F949 UniRef90_UPI0004765189 UniRef90_UPI0003F9B3EB UniRef90_E4U7H5	HATVPVINMETIVHPCQELAHMLALQERMGPIADKTYLLTGVPVWNGLTDTWHPTQMIADFMTLKEVFGSLEGLTLVYVPSVVINAGDGQHAHPTQAMLDMLTIREAKKPFDELSVALISVPVINSLCDLYHPCQGMADFLTIAQNYDDLTKVKLAYIGAVVNAGDGRAHPTQALLDAYTLLEDLDSLEGKKIAIVHATVPVINLETITHPCQELALALAMKERLGRLDGKKFVLT
UniRef90_A9GL64 UniRef90_UPl0002492429 UniRef90_UPl0002885C92	HATVPVINLETITHPCQELALALAMKERLGRLDGKKFVLT SKLNVNAGDGSGQHPSQCLLDLMTIHEEFGHFNKLKIAIV EMVFINGGEGSISHPTQALLDLMTIJENKGSIDDLNIVIV
UniRef90_UPI00036DA760 UniRef90_T0U2V1 UniRef90_UPI0004276EAA UniRef90_R4X9S5	E MV FINGGE GS SHPT QALL DLMTI TENK GS DD LNI VI V GV AV WNGLT DT WHPT QMI ADFMTLKEY FGHLEGLTI AYV S GV PV WNGLS DMWHPT QMI ADFMTL KEY FGHLEGLTI AYV S GV PV WNGLS DMWHPT QMI ADFMTI QENFGSLEGLTI AY C S K V PV I N ALC DRFHPC QALADL LTLTEVY GDLK DV TV AYI S QV PV I N ALS DLFHPL QALADL VTI RESFDDV AGLKV AWV
UniRef90_O66726 UniRef90_V4HCI0 UniRef90_H1WW92	A DVPVVNSLCDLY HPCQALADFMTLQEVYGDVSGLKLAYLSGVPVWNGLTDEWHPTQMIADFMTLKENFGHLKGLTLTFV
UniRef90_UPI0003816DBE UniRef90_P59100 UniRef90_S3X451 UniRef90_S7W057	S G S T V N A L T D Q E H P C Q V L A D F T F E E K R G P L S G K T V A F L T V P V W N G L T E K F H P T Q L I A D L L T I K E I F P N R N F S D I K C A A G V P V W N G L T N E W H P T Q M L S D Q L T I R E F D H P L H E T A V A Y I D A G I V N A G D G T H E H P T Q A L L D A F T I R R R L H D L E G V S V T I V
UniRef90_Q72T26 UniRef90_W7Z2K4 UniRef90_A0A013XWF4	QVPLINGCDN MFHPCQSLADIMTIACDKPELPLNQIQLT
UniRef90_R6JWB6 UniRef90_UPI000479365C UniRef90_M3J127	TVPVINGLTDLSHPCQLVADLLTVVEHGVALPGSQWAWLASIPVINGMSDYNHPTQEMGDLCTMIEHLPAGKKLEDCKVSGVPVWNGLTDEWHPTQMCCDLTMLEHAGRPAGEISYAYVDMAIINGGDGCGEHPSQCLLDLFTIQEQFGYFEGLKVGIVNMSIINGGDGSGHHPSQSLLDLLTIRETFGEIRGLNILISGPLWNGLSDEDHPTQVLADFLTIQEQFGYFEGLKVGIV
UniRef90_W7CF19 UniRef90_A5MZU2 UniRef90_Q7U9G2 UniRef90_A3WJK6	DMAIINGGDGCGEHPSQCLLDLETIQEQFGYFEGLKVGIVNMSIINGGDGSGHHPSQSLLDLLTIRETFGEIRGLNILISGPLWNGLSDEDHPTQVLADFLTIQENDKPLKDINFVYIRTVALARHFAPQHPMPIVIVSVPVINSLCDQFHPCQALADSLTLVEHYGDVSGKALSYW
UniRef90_V8C829 UniRef90_H0DJY3 UniRef90_X0TH94	RTVVLNGGDGLHSHPSQGLLDLHTLARHFAPQHPMPIVIV SVPVINSLCDQFHPCQALADSLTLVEHYGDVSGKALSYW SCPIINGGDGAHAHPTQALLDLLTLKQCFENLEGKKIGIV NIPIINGGDGSGQHPTQSLLDIMTIHEEFKRFEGLKVLIC SSVPVINALSNLEHPCQALSDLFTIYEKKGKLPGLTLAFI SVPVINALSDLYHPLQALADLLTLEEHFGKGSLQGKVLT
UniRef90_W7TNZ3 UniRef90_H3NMI3 UniRef90_E8SGE0 UniRef90_F7RX21	GI PLWN GLSDEDHPIQVLADFLII QENDKPLKDINFVYI RTVVLNGGDGLHSHPSQGLLDLHTLARHFAPQHPMPIVLV SVPVINSLCDQFHPCQALADSLTLVEHYGDVSGKALSYW SCPIINGGDGSGQHPTQSLLDIMTIVEHYGDVSGKALSYW NIPLINGGDGSGQHPTQSLLDIMTIHEEFKRFEGLKVLLC SSVPVINALSNLEHPCQALSDLLTIVEKGKLPGLTLAFI SVPVINALSDLYHPLQALADLLTLEEHFGKGSLQGKVLT DHIINAGDGKGNHPSQSLLDLYTVYDEFNKFEDINLLIV GVPVWNGLTNEWHPTQMIADFMTIKEHFGALENHTLTYV GVPVWNGLTNEWHPTQMIADFMTIKEHFGALENHTLTYV GIPVVNGLTNEWHPTQMIADFMTIKEHFGALENHTLTYV
UniRef90_F4G0L2	RPTIN LLSDLSHPLQALTDFMTIKELFGTLNK PIAFI

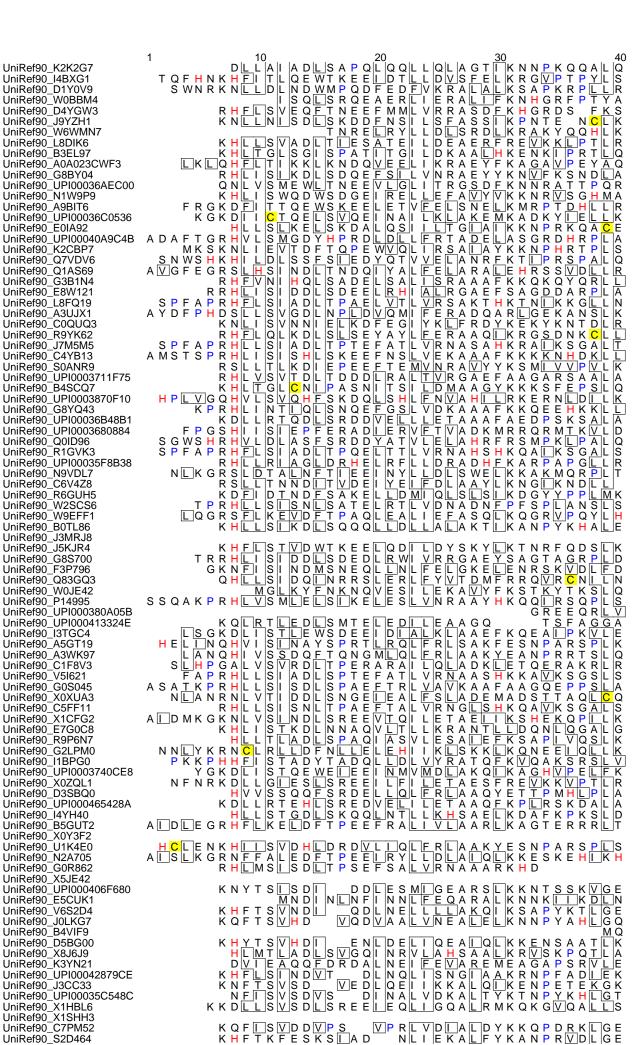
UniRef90 UPI0004142407	170 180 190 200 G D G R N N V A N S L L V T A A L L G A D V T L A A P E S L F P E Q S Y V D
UniRef90_C1MZZ1	GDII IA NGRTIVIR SII IA T MII I <mark>C</mark> N F F N F IVI — F IVI A P F IV V IK M K D DII IK A
UniRef90_UPI0003B4F8BA	GDI LHSRVARSNFQLLASIG A EVRAVAPSTLLPDGLDGY GDGNNVLHDY MLAAPLMGANIRIATPSGYDVIAKCOK GDLLHSRVARSGIKLFSKIGMNVILVSSYTTLPKGLEKLG
UniRef90_T0QEX0 UniRef90_UPI0003B469CF	GDGNNVLHDY MLAAPLMGANIRIAIPSGYDVIAK <mark>U</mark> QK
UniRef90_DP10003B469CF	GDG NNVIHOYMIAAAKIGANII ON ATPKGYEPIETOK
UniRef90_D6SQL9	GDĪAHSRVĀRSDĪVQLLĪSMLĪG <mark>Ć</mark> RII RĪV <mark>C</mark> APRTĪLĪPRGĪHNW
UniRef90_K6YDR6	GDG NNVLHDYMIAAAKLGAN I QIATPKGYEPIEETQK GDIAHSRVARSDVQLLSMLGC RIRVCAPRTLLPRGIHNW GDGNNVTHSLMLVGVALGCEVIVITPKGHEVDPKLVELTE
UniRef90_E4NER6	GDILIRHGRIVIH SILI IKILLISRY EGILII II VI <mark>CI</mark> VIAPD SILIGMPIVIEILIME
UniRef90_B2UML6 UniRef90_R7QGE7	G D G D N N M S R S WM WA A K R L G F T L A I G A P T N Y L P L E D F R R H G D G N N I V H S WV E L A A V A P I E F V C C C P E G Y A P D M G L V E
UniRef90_E1V4A8	G D G N N N V H S W V E L A A V A P I E F V C C P E G Y A P D M G L V E G D L K F G R T V H S L I K L L S L Y A P M R I T L V S P P G L E M P Q H L V E V F V G D A T Q V C V S T M F M T T K M G M D F V Q F G P K G F Q M K D D V V E
UniRef90_Q03HM9	VFVGDATQVCVSTMFMTTKMGMDFVQFGPKGFQMKDDVVE
UniRef90_I9C7M1 UniRef90 R2S403	GD GNNVANSLIEAAGLMKFTIRLGCPEGYDADPAFIEGDITHSRVAKSNMQMLNRL RSEVYFSGPEQWYDKSFDVY
UniRef90_C5NWT3	G D I T H S R V A K S N M Q M L N R L R S E V Y F S G P E Q W Y D K S F D V Y G D I K N S R V A R S N Y N M L T R L G A R V R F V C P D I
UniRef90_F4BRA8	G D IL IK H S R IV IA K S N M H M IL IK R IL IG A E IV L IF S G P T E W II ID
UniRef90_Q4FLQ4 UniRef90_S3XVB7	GDITHSRVARSNIYLLNMLGAEVNIIAPSN NNMCNSWINIASIMGINISVAIPKNY KINDEVIKIAMN
UniRef90_F4FXI5	NNMCNSWLNLASI MGLNLSVAI PKNY KINDEVLKIAMN VFVGDATQVCVSLMFI ASKMGMKFVQFGPKGYQIKPETLE GDLAHSRVARSNAMLLNKLG AEVYFAGPEAWMAEDLKAY
UniRef90_Q03HB3	GDLAHSRVARSNAMLLNKLG AEVYFAGPEAWMAEDLKAY
UniRef90_UPI00036ED175 UniRef90_R5FAC9	GDGRNNMANSLLVTSAI LGVNVKIIAPADLQPEAEIVAI VFVGDGTQVCASLGFITTKLGMHFVHYGPEGHQLLDEHKK
UniRef90_V1CRW8	G D II A H S R V A A S N K E A M E II L G G E <mark>C</mark> V F S G P
UniRef90_L8XV31	GDI IRYGRTIVIHSII VIKII IMSII IYONII ITETEASPDEII ISMPEYII VIE
UniRef90_C6HY87 UniRef90_K0RY17	GDILHSRVARSNILGLSALG AKIRLVAPPTLLPRGIDRW GDIKHGRTVHSIAKIIARHFIVIRYCSPKAIFMPFHVKDY
UniRef90_UPI0002490460	GDI LHSRVARSNI LGLSALG AKIRLVAPPTLLPRGI DRW GDLKHGRTVHSLAKLLARHELVLRYCSPKALEMPEHVKDY GDI VHSRVARSNAQMLTRLGAKVYFAGPKKWY GDI RHSRVANSNMKVLKRLG AELFFSGPREWFDESYLKF
UniRef90_E3ZHP7	GDIRHSRVANSNMKVLKRLG AELFFSGPREWFDESYLKF GDLKYGRTVYSLLHALGNYD VKVSLISPEPLRIRTDSLY
UniRef90_A0RXJ5 UniRef90_K0KAB4	GDIV LIH SRIVIA RSNIVIH LITALIG A EIVITL VIA PPTII II PAGIVIA NW
UniRef90_UPI00036218F8	GDGHNNMC HSLLEGAVKMG MDISVASPKGYLPNPQILG
UniRef90_W6T616	GDLKYGRTVHSLVQALMQYPHNRFIFVAPTPLQIPNTLLT
UniRef90_J5KIQ2 UniRef90 UPI0004784706	GDLKYGRTVYSLLHALGNYD VKVSLISPEPLRIRTDSIYGDVLHSRVARSNVHLLTALG AEVTLVAPPTLLPAGVANWGDGHNNMC HSLLEGAVKMG MDISVASPKGYLPNPQILGGDLKYGRTVHSLVQALMQYPHNRFIFVAPTPLQIPNTLLTGDLDHSRVARSFLNGISNYEENEIVLTGHPDLCSNFGDLDHSRVARSFLNGISNYEENEIVLTGHPDLCSNFGDGRNNVAHSLLVTGALLGINIHIVAPEQPELSVQKTVKE
UniRef90_C8P8U3	GDITNSRVARSNMEILTRLGAEVYF SGPDYWYDHRFGDARYNMGNSLMIGSAMLGVDFRSVAALWTSDEVFEMARHGDGNNVSHSLLLLGATLGTNVTLVCPKGHGPDTQIFLQAQGDLTHSRVVRSNVLLQQTLG AQVTLVAPPTLLPSGVDTW
UniRef90_UPI0003B59A61	GDARYNMGNSL MIGSAMLGVDFRSVAALWTSDEVFEMARH
UniRef90_A0KFV2 UniRef90_UPI00041FE396	G D G N N V S H S L L L L G A T L G T N V T L V C P K G H G P D T Q I F L Q A Q G D I T H S R V V R S N V L L Q Q T I G A Q V T I V A P P T I L P S G V D T W
UniRef90_D8IIA5	GDII II H S RIVIA R S N M EII LIN KILIG A EIVIY F S G P E Y W Y D H A F D K Y
UniRef90_UPI00037BE0B6	G D L A H S R V A R S H L L A A R L M G Y Q V R L V A P K T L M
UniRef90_C4L7S7 UniRef90_K4KL70	G D G N N V A H S L L I T G A I L G T D V T V V S P K G S G P D A Q I F N L A A G D L K Y G R T V H S L C R L L A L Y K N V Q V T L V S P V E L A M P E Y L V D
UniRef90_Q3YS44	GDI LHSRVARSNI RLLSRYGANI SLIAPPT GDIKNNVARSI MI GAAFT GMN CVL CGP GK GYKEVYEK CLE
UniRef90_C4XEY3	G D <u> </u>
UniRef90_A0A031I156 UniRef90_U2EMG4	GDARYNMGKSILLIMII IGAKILIG MDIVIRII IAAPKAILIWPEQAHII IE
UniRef90_UPI0001746AE5	G D I Q H S R IV A R S T N L L <mark>C</mark> R R M G M Q T A M L A P G S L I P R E L P Q E I
UniRef90_UPI000395B0C5 UniRef90_P68746	G D A R N N M G N S L M V G A A K M G M D L R L I G P K A Y W P E A D L I A G D G R N N M V T S L A I G A L K F G Y N L R I I A P H P T D A V L A G I Y E
UniRef90_P68746 UniRef90_H2C9B0	G D L R Y A R T V N S L V R G L K F F R P K K V Y L I S P P Q L R L R E E II R N
UniRef90_UPI0003B46DCE	G D L R Y A R T V N S L V R G L K F F R P K K V Y L I S P P Q L R L R E E L R N G D L L H S R V A R S N V W L L A G L G A D V T L V A P P T L V P A D T S G W
UniRef90_D0LJ06 UniRef90_Q97ZM1	G D G N N M A H S W I E A A G L L G L D L I L A C P A N F A P D R E I V A G D G S D N V L L S L M A I V A K L G L E L H V A T P K E L K P R D D L Y K
UniRef90_V8CEY2	
UniRef90_Q0AST0	WVPHPKPLNNSSLLIASKFGANVRILVPDEAYRLDERYMS GDGRNNMANSLLVTSAILGLHIK GDVKHSRVARSDICALQTLGVKDLRVVAPKTLLPKGIERY GDG NNVTHSLFIAGAILGATVTAVCGHSPDAQIMKKAE GDVAHSRVARSDICALQTLGVKDLRVVAPKTLLPKGIERY GDG NNVTHSLFIAGAILGATVTAVCGHSPDAQIMKKAE GDVAHSRVARSNAELLPLLGAEVWAAGPAGLLPERLP WTYHPRPLNNSAVLIASKLGMDVTLLCPSEEYHLDERYLD GDLKNSRVARSNMQLLKKLGADIYFSGPSEWFTSEFNEY GDLDHSRVTSSFVEAVSNFSFNSLTFCGHPSMSTKY GDLDHSRVTSSFVEAVSNFSFNSLTFCGHPSMSTKY GDGRNNVAQSLLVTSAILGINVKIIAPASLQPDPEIVTIA
UniRef90_UPI000365F949 UniRef90_UPI0004765189	G D U K N N M A N S L L V I I S A I L L G L H I K I I A P E S L Q P E E E I V A G D V K H S R V A R S D I C A L I Q T L I G V K D L R V V A P K T I I I P K G I I F R Y
UniRef90_UPI0003F9B3EB	GDG NNVTHSLFLAGATLGATVTAVCGHSPDAQÜMKKAE
UniRef90_E4U7H5 UniRef90_A9GL64	G D V A H S R V A R S N A E L L P L L G A E V WA A G P A G L L P E R L P WT V H P B B D L N N S A V L L A S V L C M B V T L L A S C F C V L L D B B S V L D B S V L D B B S V
UniRef90_A9GL64 UniRef90_UPI0002492429	GDLKNSRVARSNMQLLKKLG ADIIYFSGPSEWFTSEFNFY
UniRef90_UPI0002885C92	G D L D H S R V T S S F V E A V S N F S F N S L T F C G H P S M S T K Y
UniRef90_UPI00036DA760 UniRef90_T0U2V1	GDGRNNVAOSLIVIT SRIIIGVAI BII JAPKEI OPEOOVIE
UniRef90_UPI0004276EAA	GDG NNVT HSL MI ASALAGCNVTVVTPKGYEQITHLAAQ
UniRef90_R4X9S5	GDGRNNVAQSLLVT SRILGVAIRIIAPKELQPEQQVIE GDG NNVTHSLMIASALAGCNVTVVTPKGYEQITHLAAQ GDANNVIHDLAIICAKVGINVALATPPGIEVNEGILEARE GDLKHSRVFRSGAPLLNMFG AKIGVCGPKTLIPRDVEVF
UniRef90_O66726 UniRef90_V4HCI0	G D A N N V I H D L A I I C A K V G I N V A I A T P P G I E V N E G I L E A R E G D I K H S R V F R S G A P L L N M F G A K I G V C G P K T L I P R D V E V F G E G N N V T H S L M L L A A S L G T D F V A V C P K G H S P D A Q I V K Q A E G D G R N N M A N S L L V T G S M L G V N I H L V A P K S L H P A Q E I I D G D A S C N V A R S W A L A A S L F R F H L R F G A P R A F F C D V E N P W Y V G D S R N N I G N S L L E A A S I V G L N L Y L V S P K Q Y W P F I E C K K G D A R Y N M G N S W L V A S A L M G M D V R I I A P E A F Q P C A E V R E G D L V H S R V A R S N V W L L T T L G A T V S L V A P A T L L P V N L S G W Y I G V H N N V V N S L I G I T S A L G I R L T L V T P I A E K E N I H S Q T V G D L H H S R V A R S N A D L L T R L G A T V T I A G P C G Y Q L N E N H R A V F V G D A T Q V C A S L M F I T T K M G M N F V H F G P E G Y Q L N E N H R A
UniRef90_H1WW92	GDGRNNMANSLLVTGS MLGVNIHLVAPKSLHPAQEIID
UniRef90_UPI0003816DBE	GDASCNVARS WALAASLEREHLREGAPRAFFCDVENPW
UniRef90_P59100 UniRef90_S3X451	Y [V]G D S K N N[L]G N S L L E A A S IL V G L]N L Y L V S P K Q Y W P F L E C K K G D A R Y N M G N S WIL V
UniRef90_S7W057	GDIVHSRVARSNVWLLTTLIGATVSLVAPATLLPVNLSG W
UniRef90_Q72T26	Y L GVH N NV VN S L I G I T S A L G L R L T L VT P L A E K E N L H S Q T V
UniRef90_W7Z2K4 UniRef90_A0A013XWF4	GDGNNVIHSIIFAAGIIKEDVI RIAVPOGYEPDPSEAA
UniRef90_R6JWB6	VFVGDATQV <mark>C</mark> ASCMFLTTKMGMNFVHFGPEGYQLNENHRA GDARFNMGRSLLVNGA LLGADTRLVAPEELWPDDA <mark>C</mark> VE
UniRef90_UPI000479365C	GDARFNMGRSLLVNGA LLGADTRIVAPEELWPDDAACVE
UniRef90_M3J127 UniRef90_W7CF19	G D I S H S R V A N S N M K V L K R L G A S L Y F A G P D S W F K G D L L H S R V A R S N A H I L H Q M G A N L Y F S G P T K W Y D
UniRef90_A5MZU2	CDCPNNMAKAII IMII ICAAK MCMNEKII I ITDKEII IEDECEII VIK
UniRef90_Q7U9G2	GDILHSRVARSNLWALTACG ADVVLCGPPSLVPDAFRAF GDGN NVARSLALYGCLLGMHVTLVTPAGHGLSATDIDQL GDIKSSRVANSNIELLSRYGVDLTLIAPPHFLG GDIKNSRVARSNYHSLTALG AEVMFSSPQEWQDDAIGAP
UniRef90_A3WJK6 UniRef90_V8C829	G DILKS S RIVAN S NI ELLIS RY GIVIDLITLI APPHFILIG
UniRef90_H0DJY3	G D L K N S R V A R S N Y H S L T A L G A E V M F S S P Q E W Q D D A L G A P
UniRef90_X0TH94 UniRef90_W7TNZ3	GD SNNMANSILLISA <mark>CI</mark> LIGMN FHILIASPQGYDIVKEEIVLIN
UniRef90_H3NMI3	GDIRNSRVARSNYHSLIALG AEVMESSPQGYDVKEEVLN WVGDGNNVLHDLAMGAARLG MHVRVACPVGYEPNGEIMH GDIRHSRVAHSNMYIFEKLGANVK LS GDASNNVAHDLLVTGAILGVNIHIAAPENLQPHPDVQTIQ YVGEGNNVCQSLMVGAAALDLKLTVICPEGYGPQKGFLDE
UniRef90_E8SGE0	GDASNNVAHDLLVTGALLGVNIHLAAPENLQPHPDVQTIQ
UniRef90_F7RX21	Y V IG E G N N V C Q S L M V G A A A L D L K L T V I C P E G Y G P Q K G F L D E
UniRef90_F4G0L2	G D G G D N V L A S L M A F V A K L G L E M R V A S P K E L R P R P D V W K

WHAT SHOW HE WAS AND THE W UniRef90_UPI0004142407 UniRef90_C1MZZ1 UniRef90_UPI0003B4F8BA UniRef90_UPI0003B4F8BA UniRef90_T0QEX0 UniRef90_UPI0003B469CF UniRef90_F0W7X7 UniRef90_D6SQL9 UniRef90_K6YDR6 UniRef90_E4NER6 UniRef90_B2UML6 UniRef90_R7QGE7 UniRef90_E1V4A8 UniRef90_Q03HM9 UniRef90_I9C7M1 UniRef90_R2S403 UniRef90_C5NWT3 UniRef90_F4BRA8 UniRef90_Q4FLQ4 UniRef90_S3XVB7 UniRef90 F4FXI5 UniRef90_Q03HB3 UniRef90_UPI00036ED175 UniRef90_R5FAC9 UniRef90_V1CRW8 UniRef90_L8XV31 UniRef90_L8XV31 UniRef90_C6HY87 UniRef90_K0RY17 UniRef90_UPI0002490460 UniRef90_B3ZHP7 UniRef90_A0RXJ5 UniRef90_K0KAB4 UniRef90_UPI00036218F8 UniRef90_W6T616 UniRef90_J5KIQ2 UniRef90_UPI0004784706 UniRef90_UPI0004784706 UniRef90_C8P8U3 UniRef90_UPI0003B59A61 UniRef90_A0KFV2 UniRef90_UPI00041FE396 UniRef90_D8IIA5 UniRef90_UPI00037BE0B6 UniRef90_C4L7S7 UniRef90_K4KL70 UniRef90_Q3YS44 UniRef90_C4XEY3 UniRef90_A0A031I156 UniRef90_U2EMG4 UniRef90_UPI0001746AE5 UniRef90_UPI000395B0C5 UniRef90_P68746 UniRef90_H2C9B0 UniRef90_UPI0003B46DCE UniRef90_D0LJ06 UniRef90_Q97ZM1 UniRef90_V8CEY2 UniRef90_Q0AST0 UniRef90_UPI000365F949 UniRef90_UPI0004765189 UniRef90_UPI0004765189 UniRef90_UPI0003F9B3EB UniRef90_E4U7H5 UniRef90_A9GL64 UniRef90_UPI0002492429 UniRef90_UPI0002885C92 UniRef90_UPI00036DA760 UniRef90_T0U2V1 UniRef90_UPI0004276EAA UniRef90_R4X955 UniRef90_R4A9S5 UniRef90_O66726 UniRef90_V4HCl0 UniRef90_H1WW92 UniRef90_UPl0003816DBE UniRef90_P59100 UniRef90_S3X451 UniRef90_S3X451 UniRef90_S7W057 UniRef90_Q72T26 UniRef90_W7Z2K4 UniRef90_A0A013XWF4 UniRef90_R6JWB6 UniRef90_UPI000479365C UniRef90_M3J127 UniRef90_W7CF19 UniRef90_A5MZU2 UniRef90_Q7U9G2 UniRef90_A3WJK6 UniRef90_V8C829 UniRef90_H0DJY3 UniRef90_X0TH94 UniRef90_W7TNZ3 UniRef90_H3NMI3 UniRef90_E8SGE0 UniRef90 F7RX21

UniRef90_F4G0L2

UniRef90_UPI0004142407 UniRef90_C1MZZ1	250 260 270 280 VK T L P Y Q I N K P L L S N V N E N F I F M H C L P A F H D T T S D V F N A E A C R G V Y T V D E K V M A A M K K T S I V M H P L P R L D E II A P E C D A D
UniRef90_UPI0003B4F8BA UniRef90_T0QEX0 UniRef90_UPI0003B469CF UniRef90_F0W7X7	EACRGVYTVDEKVMAAMKKTSIVMHPLPRLDEIAPECDAD PSPREYFRFYEARLAKAAPDVLVMHPGPMGVEIDGAIADD IADFDGYQVTKKMLAHAASDHIFLHCLPRHKEEDDEVFYG NEIWGLDENIMVTLKEKNKDVVIMHPGPMGVEINSEVAYS VKDFAGYQVSDGMLQGAARDHIFLHCLPRHEEVTDDVFYS PDLREYFCLQPGHVQKAAPGVKIMHPGPRGVEISSGLADC
UniRef90_D6SQL9 UniRef90_K6YDR6 UniRef90_E4NER6	PDLREYFCLQPGHVQKAAPGVKIMHPGPRGVEISSGLADCKDTFAGYEITEALMETTGADYMHCQPAHRDLEISGSLIDGPYSDDFRIDKALFSEVGGPDTVIMHPLPRDNDLATDLNGD
UniRef90_B2UML6 UniRef90_R7QGE7 UniRef90_E1V4A8	EKHFYPYQVNRELLEHAASGHSVFHCLPRGKEITEDVLEH ERRFQGFQVTDQMVKGTGVETRFLHCLPRGREVTDEVMEA EGFRDYTVDKAFMDQRVNDHAIVMHPLPRDNDLDVDLNGD
UniRef90_Q03HM9 UniRef90_I9C7M1 UniRef90_R2S403 UniRef90_C5NWT3	VAAMAPYQVDGALMALAKPSATFLHCLPRGEEVIDEVLDS EGYHQEYGLTLERAKRMKEKALIMHPAPVNVELADSLVES
UniRef90_F4BRA8 UniRef90_Q4FLQ4 UniRef90_S3XVB7	A S Y L D Q Y G L N E L R E K N M K P S A I L M H P A P V N R D V E S S L V E C S S N R E Y Y E Y Y P D K L A H A K D D A L I M H P G P M G I E I D T K L A D D V R D F K G F L I D E D L M S L A K K D A I L L H C L P R G Y E I S D K V F E K
UniRef90_F4FXI5 UniRef90_Q03HB3 UniRef90_UPI00036ED175	DERMKIFYPKYDLMAKGTSHTMFMHCLPRGEEVTDRVIDS HEYLQEYGLTFERADRMQPTAIIMHPAPVNREIESSLVDG IDLLLPYQINADLLAKANPNLVVMHCLPAFHDITDEVFQE
UniRef90_R5FAC9 UniRef90_V1CRW8 UniRef90_L8XV31	PDLREYFCLQPGHVQKAAAPGVKIMHPGPRGVEISSGLADCKDTFAGYEITEALMETTGADYMHCQPAHRDLEISGSLIDGPYSDDFRIDKALFSEVGGPDTVIMHPLPRDNDLATDLNGDEKHFYPYQVNRELLEHAAASGHSVFRDNDLATDLNGDEKHFYPYQVNRELLEHAASGHSVFRDNDLPRGKEITEDVLEHERRFQGFQVTDQMVKGTGVETRFLHCLPRGREVTDEVMEAEGFRDYTVDKAFMDQRVNDHAIVMHPLPRDNDLDVDLNGDERMNIFYPKYELMAKASDHVKFMHCLPRGEEVTDEVLDSVAAMAPYQVDGALMALAKPSATFLHCLPRGEEVTDLVIDGEGYHQEYGLTIERAKRMKEKAIIMHPAPVNNVEILADSLVESDEYHNNFGLTKERYERLKESAIVMHPAPVNRDMASELVEAASYLDQYGINELREKNMKPSAILMHPAPVNRDVESSLVECSSNREYYEYPDKLAHAKGTSHTMHPAPVNRDVESSLVECSSNREYYEYPDKLAHAKGTSHTMHPAPVNRRDESSLVECSSNREYYEYPDKLAHAKGTSHTMHPAPVNRRDESSLVECSSNREYYEYPDKLAHAKGTSHTMHPAPVNRREIESSLVDGIDLERMKGKBKDAILMHPAPVNRREIESSLVDGIDLERMKGFLIDEDLMSLAKKDAILLHCLPRGGEEVTDRVIDSHEKDDGIDLESSLVECSSNREYYGYPDKLAHAKGTSHTMFMHCLPRGGEEVTDRVIDSHEKDDGIDLAKANDGILEISDKVFEK
UniRef90_C6HY87 UniRef90_K0RY17 UniRef90_UPl0002490460 UniRef90_E3ZHP7	NAVKGAYVVDKSLMDVAPSKMI VMHPLLPRVDEI STEIVDSD
UniRef90_A0RXJ5 UniRef90_K0KAB4 UniRef90_UPl00036218F8	LKVKGSYVIGLDMLRKMKDGAIILHPLPRLDEISGEVDGT PSAREYYGLNERRLALLPEHAVVLHPGPMGMEIASAVADS LQVFQNYQVNESLCKHAKADFLFLHCLPRGEEVTAGLIDG
UniRef90_W6T616 UniRef90_J5KIQ2 UniRef90_UPI0004784706 UniRef90_C8P8U3	A A T V K L V P L T L A C D R L L A S D T L L L H P L P R G S E L P T S F D H L D E Y K A L Y Q V N S E R M E L A K G D A I L M H P G P V N M D L S E S L Y H S E R Y N R Q Y Q V N Q E M I D L T K P N T I F L H C L P A I H D T T D E V F R A A K Y H Q Q Y G I N H D R Y A R L K D D C L I M H P G P I N H D V A G D L V E A I E L L T P Y Q V N M T M D K T G N P D C K F L H C L P S F H N R D D A V F E S
UniRef90_UPI0003B59A61 UniRef90_A0KFV2 UniRef90_UPI00041FE396	I E L LT P Y Q V N M T M D K T G N P D C K F L H C L P S F H N R D D A V F E S V K D L F M P Y Q L N Q A L L D R T G L Q H V L H C Q P A H R E I T S Q V M D G P T P R E Y Y G L T R D R L A R L R P G T A I C H P G P M N R E I S A D A A D A A D Y H K Q Y G I N E E R Y A L L K P D T I I M H P G P R G V E L A D S L V E A
UniRef90_D8IIA5 UniRef90_UPI00037BE0B6 UniRef90_C4L7S7	A D Y H K Q Y G I N E E R Y A L L K P D T I I M H P G P R G V E L A D S L V E A R E Y H E A Y G L N R K R L Q A A A E G C L V M H P G P M G V E I A T D V A D S D K F M P Y Q L N Q A L L D N T G I R H V L H C Q P A H R E L E L T S E V M D G
UniRef90_K4KL70 UniRef90_Q3YS44 UniRef90_C4XEY3 UniRef90_A0A031I156	A D Y H K Q Y GI N E E R Y A L L K P D T I T M H P G P R G V E L A D S L V E A R E Y H E A Y G L N R K R L Q A A A E G C L V M H P G P M G V E I A T D V A D S D K F M P Y Q L N Q A L L D N T G I R H V L H C Q P A H R E L E L T S E V M D G A D L Y R G R F N Q S L Y T E F C E P N T V I M H P L P R D S R A D N D L N A N P S E E E Y Y M L N S E R L S Y A K K D V I I M H P G P K G T E I S N N V A E N E K E L G A F Q V D M K M I K A A K E D V I F L H C L P A F H D D T D E V F Q S L A A M M P Y Q V D E A L M A R A K P D A R F L H C L P R G E E V V D A V I D G I D M L M P Y Q V N Q S L M A K A N P R V K F M H C L P A F H N D T D A V F E S L A Q R V A D I T P Y Q V N P G I M N S D A K F M H C L P A F H N D T D A V F E S
UniRef90_U2EMG4 UniRef90_UPI0001746AE5 UniRef90_UPI000395B0C5	L PAFHNVTEAVFES L FGLTDERLKWARDNIWVMHPGPRGVELTDSVMEY AQRVADLTPYQVNPGLMNSDAKFMHCLPAFHNDTDAVFES
UniRef90_P68746 UniRef90_H2C9B0 UniRef90_UPI0003B46DCE	ERIALLKPYKVTEKMMAKADTIFMHCLPAFHDILDTEVFEG EKVKESYRVDVRLVEEMRKDSVILHPLPRVTEIDRRLDSY SRRWGIDDD ARFARIGTDSIVMHPGPMNRFILSSMAADS
UniRef90_D0LJ06 UniRef90_Q97ZM1 UniRef90_V8CEY2 UniRef90_Q0AST0	ARRTAFYCIDGGLLGEAAQDAMVLHCLPRGEEISEEVLEGKRMLQNYRVTADLMKYAVKDAIFMHCLPRGEEVDPEVIDGANQ FCLTKQLIGDRDIVIMHPGPVHHNIDIEDELLKDAKGADFMITPEKMALTNNATVSHCLPMRRNVKIADAVVDS
UniRef90_UPI000365F949 UniRef90_UPI0004765189 UniRef90_UPI0003F9B3EB	E R D P Y Q N Q G L L E K T G N P D V I V L H C L P A F H D I T D E V F Q K
UniRef90_E4U7H5 UniRef90_A9GL64 UniRef90_UPl0002492429	PSLREYYQVTEARLARAKPHAPLLHPGPMNRDVELELADG IRDKNKHFIVDEQKMALTAGGLFSHCLPRNVKVTDAVIDS LKYHQQFGLTVARYQKMKSSAIVMHPGPRGVEMASELVEA
UniRef90_UPI0002885C92 UniRef90_UPI00036DA760 UniRef90_T0U2V1 UniRef90_UPI0004276EAA	ERIDPYQINADLVDKTENPNVIVMHCLPAFHDITDEVFQK
UniRef90_R4X9S5 UniRef90_O66726 UniRef90_V4HCI0	PSTAEYFKMYDKRLKLADKDAIVMHPGPMGVEIASDVADG AKFMPYQINQALLDNTGIKHILHCQPAHRGLDITSDVMDG PSLREYYQVTEARLARAKPHAPLLHPGPMNRDVELELADG IRDKNKHFIVDEQKMALTAGGLFSHCLPRNVKVTDAVIDS IKYHQQFGLTVARYQKMKSSAIVMHPGPRGVEMASELVEA DEYKQAYELTSERLEQAKGDAIVMHPGPVNIEISESVYQC ERIDPYQINADLVDKTENPNVIVMHCLPAFHDITDEVFQK IDLLMPYQVNAELMKKTNNEQAIFHCLPAFHDITGSLIDS KKDTFMPYQINDQLMAATGAQYVMHCQPAHRDITGSLIDS MKQFDGFQITNEMAIGADAQWKFMHCQPAHREYEITSEVMDG PSESSYFKQFGLTKERFEKVKLYMHPGPRNVDIDHELVYT DTFMPYQINTQLLEQTGAQTVLHCQPAHREYEITSEVMDG VKLLTPYQVNMNMLKLAGMPENFMHCLPAFHDTTDEVFRS EKAFAPYQINTQLLEQTGAQTVLHCQPAHREYEITSEVMDG VKLLTPYQVNMNMLKLAGMPENFMHCLPAFHDTTDEVFRS EKAFAPYQINRSLVRRRRRADALVLHCLPAFHDTTDEVFRS EKAFAPYQINRSLVRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
UniRef90_H1WW92 UniRef90_UPI0003816DBE UniRef90_P59100	VKLLTPYQVNMNMLKLAGMPENFMHCLPAFHDTTDEVFRS EKAFAPYQINRSLVRRAKADALVLHCLPRGKEIDGELFEE IELLKNYQVNDSMIKMTNNKVKILHCLPDGMEITDNIFQK
UniRef90_S3X451 UniRef90_S7W057 UniRef90_Q72T26 UniRef90_W7Z2K4	MELLMMPYQI NSSLLEKTNAKVMHDMPLHAGYEI TREVVLG
UniRef90_A0A013XWF4 UniRef90_R6JWB6 UniRef90_UPI000479365C	E MY H Q S Y G L T R E R E A L M P R S S I I M H P A P V N V E I A S E L V E C L A A M M P Y Q V T P A L M A T A K P Q A K F L H C L P R G E E V T A D V I D G E E R M A I F Y P K Y A M M A K A A P H V K F M H C L P R G E E V V N E V I D A I A L L R P Y Q V N A S L M A I A G P Q A R F M H C L P D G L E V T D E V F E S E T Y H K T F G L T E E R A G L M R E N A I I M H P S P V N R D I A D S L V E S D K Y H D T Y G L T I A R A K Q L K T T A I I M H P S P R G V E I A D E L V E S I E T L M P Y Q V N M K L I A C Q N K K V K F M H C L P A F H N R E T E V S E E E R Y H R D F G L S H E R L S L C G Q P V P V L H P G P R G V E M T G A L L D D K A T F M P Y Q V N A A L I K R L G A N V M H C Q P A H R D Y E I T S E V M D S G S L K D Y H D F C L T R N L I G D K D I V I M H P A P R G V I I A D F I V F A
UniRef90_M3J127 UniRef90_W7CF19 UniRef90_A5MZU2 UniRef90_Q7U9G2	EIYHKIFGLIEEKAGLMRENAIIIMHPSPVNRDIIADSLVES DKYHDTYGLTIARAKQLKTTAIIMHPSPRGVEIIADELVES IETLMPYQVNMKLIACQNKKVKFMHCLPAFHNRETEVSEE
UniRef90_Q709G2 UniRef90_A3WJK6 UniRef90_V8C829 UniRef90_H0DJY3	KATFMPYQVNAALIKRLGANVMHCQPAHRDYENTSEVMDS GSLKDYHDFCLTRNLIGDKDIVIMHPGPVHHNIDDELLKD GHYHHDFGLTPERYQRLQEHAIIMHPAPRGVENADELVEA
UniRef90_X0TH94 UniRef90_W7TNZ3 UniRef90_H3NMI3	GHYHHDFGLTPERYQRLQEHAIIMHPAPRGVEIADELVEA KRRLAFYQVDNKLLSLAKGDVLLMHPLPQGEEISVGLLDD RRMRDFEGFQVTRRMMGRPACVFLHCLPRHEEVTDEVFYD DEYLEKYGLTKDRYKMMKENAIIMHPAPRGLEIDTDLVEA ENMLPYQINDTLLVQADNPDLIVMHCLPAFHNITDSVFNG AETCKIFMPYQVNRALVKRMQMHCLPAHRNDEITDEVMDS
UniRef90_E8SGE0 UniRef90_F7RX21 UniRef90_F4G0L2	ENMLPYQINDTLLVQADNPDLIVMHCLPAFHNITDSVFNG AETCKIFMPYQVNRALVKRMQMHCLPAHRNDEITDEVMDS RELLSKYKVTEDLMRYTSSDSIFLHCLPRGEEVEPGVIDG

	000
UniRef90_UPI0004142407	290 300 310 NYAKQFEQGENR <u>M</u> HSIKA <u>M</u> A <u>AT</u> NGNLFI
UniRef90_C1MZZ1	PRAAYFRQARNGLFIRMALLKVLL
UniRef90_T0QEX0	ARSAVTEQVEMGVAVRMACLDVL ERSKVWDEAENRMWTVMAVLAKLLEK
UniRef90_UPI0003B469CF UniRef90_F0W7X7	E H S A I F E Q V R N G V A T R M A I L Y Y L F S H K R S I V F D F A F N R I W T V M A V Y A S I I G K
UniRef90_D6SQL9	A D S L I LE QVG S GVA VR MAL LYLYLAR
UniRef90_K6YDR6 UniRef90_E4NER6	PRILAVIFRQTDAGII PMRMAIL FASIVLIG
UniRef90_B2UML6	FAPVI FREAENRUH AQKAV LATL
UniRef90_E1V4A8	PRLAIFRQTDNGLPMRMAIFATLLQVEDLV
UniRef90_Q03HM9	ERSKVWDEAENRMWTVMAVLAKLLEK EHSAIFEQVRNGVATRMAILYYLFSH KRSLVFDEAENRLWTVMAVYASLLGK ADSLILEQVGSGVAVRMALLYLYLAR EKSLLMQQAENRMHGQNAILVELLAKDF PRLAVFRQTDAGIPMRMALLYLFLAKDF PRLAVFRQTDAGIPMRMALFASVLG GYSEVFRQAENRMHAQVAIVLHCMGVGL PRLAIFRATLQVEDLV DYSIVWDEAENRKTAMRAIFVYLLN PRSAVWDEAENRKTAMRAIFVYLLN PRSAVWDEAENRKTAMRAIFVYLLN PRSAVWDEAENRFHGQKSVLLWALG YQSRIVEQMSNGVFVRMALLEAILNG PKSVIFEQMKNGMFMRQAMIEKIIKDNNL ERSRIVTQMSNGVYARMALLEAILNG PKSVIFEQMKNGWFMRQAMIEKIIKDNNL ERSRIVTQMSNGVYARMALLEAILNG PKSVIFEQMKNGWFMRQAMIEKIIKDNNL ERSRIVTQMSNGVYARMALLEAILNG PKSVIFEQMKNGWFMRQAMIEKIIKDNNL ERSRIVTQMSNGVYARMALLEAILNG PKSVIFEQAKNGMFMRQAMIEKIIKDNNL ERSRIVTQMSNGVYARMALLEAIL
UniRef90_R2S403	Y Q S RI VE Q M S N G V F V R M A L L E A L L N G
UniRef90_C5NW13 UniRef90_F4BRA8	ERSRI VITOMSNGVYARMAI LEAI I
UniRef90_Q4FLQ4	NRSVIKEQVELGVAVRMACL
UniRef90_53XVB7	PHSIAWDEAENRLTAMRALLVYLM
UniRef90_Q03HB3	EKSRIFKQMTNGMYMRMAILTDVL HSSTIFQEAENRMHSIKAIMY
UniRef90_R5FAC9	E C S L A F E E A G N R L T A M R G L L VY
UniRef90_V1CRW8 UniRef90_L8XV31	PKSRIFRQMSNGVLVRKAVLKRAFG PRI ALFROSDAGVPARMALFAMVLGVD
UniRef90_C6HY87	PREAD A GIVE AND
UniRef90 E3ZHP7	EKSRII VIT QMT NGIVIFII IR MAII LIESII LI
UniRef90_K0KAB4	DKAKYFVQAEYGVYTRAALLGLVLNEG PRAAIITDQVRNGVHVRMAVLYHLLAHE
UniRef90_UPI00036218F8 UniRef90_W6T616	PHSAV PQAHYFDQVRMGKYVRMALLAYLL
UniRef90_J5KIQ2	DKSIVI IRDQIVIS NGIVIAII IRMAIVLIS RFILIS
UniRef90_UPI0004784706 UniRef90_C8P8U3	EYSKVFEQAENRMHSIKSLLAAT <mark>C</mark> GE PKSAFFKQMQNGVFMRMAMLEAVV
UniRef90_UPI0003B59A61	G R N M A F E E A E N R M H T I K A V M V A T L A E D
UniRef90_A0KFV2 UniRef90_UPI00041FE396	P G S L I M D E A E N R M H I Q N A V L L T L L G H A Q S L V L E Q V A A G V A V R M S V L Y H V L S G E P K S A F V A Q M G N G V F M R M A M L E A V L
UniRef90_D8IIA5 UniRef90_UPI00037BE0B6	A P A II I I ID O IV IE H G IV IA II IP M A IV I IT A II I <mark>C</mark> G G
UniRef90_C4L7S7	PASLI MDEAENRMHI QNAILHTLINQ PNLAIFROTDNGI LVRMALFALVL
UniRef90_K4KL70 UniRef90_Q3YS44	PNLAIFRQTDNGILVRMALFALVL KSVILLQVKMGVAVRKAILHYLLYGNK
UniRef90_C4XEY3	K C N R S D Q A E N R L H T I K A V V L A T I G
UniRef90_U2EMG4	PASLIMDEAENRMHIQNAILHTLINQ PNLAIFRQTDNGILVRMALFALVL KSVILLQVKMGVAVRKAILHYLLYGNK KCNRSIDQAENRLHTIKAVVLATIG PQSLIWQEAGNRLHAQKAVLRWVFGQ PACIAFDQAENRMHTIKAVLVATLG
UNIRE190 UP10001746AE5	ERSLTDQQVENGTAVRMSVLYWLAAQSLVFDQAENRLHTTKAVMTATL
UniRef90 P68746	P Q S R V F D Q G E N R M H T I K A L M
UniRef90_H2C9B0 UniRef90_UPI0003B46DCE	P Q A K Y F L Q A S L A V P L R S V L L H E V V G G Q Q S T V R E Q V A N G V S V R M A A L Y L L L S G D
UniRef90_D0LJ06	
UniRef90_Q97ZM1 UniRef90_V8CEY2	SKSAVWDQAEMRL H F QKAL LEALVG SKSAVWDQAENRL Y T T MAVFSL SRCKVLQQVRNGVAVRMAV LEF PAFMGI E E AANRL P V Q MAV ME A LAGQ YSSYI F Q E A E N R M H SI K A I MY Y S L VQSVI LKQVNNG LAVR MAV MA MA ME G
UniRef90_Q0AST0 UniRef90_UPI000365F949	PAFMGIEEAANRLPVQMAVMEALAGQ YSSYLEOFAFNRMHSIKALMYYSL
UniRef90_UPI0004765189	VQSVI LKQVN NG HAVR MAV MAMAMEG
UniRef90_UPI0003F9B3EB UniRef90_E4U7H5	PASILIFICAFNEMI CONALIMILITA
UniRef90_A9GL64 UniRef90_UPI0002492429	PRSRVERQVRAGEAVRMAVLYHLL PASMVIDEAENRLHVQKAVMDVLANG
UniRef90_UPI0002885C92	PRSRFVRQMTNGVYMRMAMLEAVING DQSVIRTQIANGVAIRMAVLSRFLS YSSALFQEAENRMHSIKAIMY
UniRef90_UPI00036DA760 UniRef90_T0U2V1	Y S S A LIF Q E A E N R M H S I K A I M Y K Q A R Q F D Q A E N R LI H S I K A I M A V T LIG DLIF I
UniRef90_UPI0004276EAA UniRef90_R4X9S5	K Q A R Q F D Q A E N R L H S L K A I MAVT L G D L F I Q Y S L L M Q Q A E N R M H G Q N A L L V N L L A E P N V N R S L V F E E A E N R K W S M L A A L E F L L S
UniRef90_O66726	EKSILIQEQIVIKNGILIPIVIRKAILIYKEILI
UniRef90_V4HCI0 UniRef90_H1WW92	K H A K L L Q Q A E N R M H A Q N A L L V T L L N K O Y A R O W D E A E N R M H A L K A L M A A T L G N L E L
UniRef90_UPI0003816DBE	RAPDIFDEAENRUHVQKGLURWLATR
UniRef90_P59100 UniRef90_S3X451	RAPDIFDEAENRLHVQKGLLRWLATR HQKTIFEQAENRLHTIKALLVSSLIKE NAEVIFTEAENRMHTIKALVVATVGE
UniRef90_S7W057	P Q S T V L E Q V A N G V S V R M S V L Y H L L S G P R S I I F Q Q A E N R L D A Q K A V I L K L L A R S R I Y K Q S A N G V A V R M A V L K K A L P Q S L I W D E A E N R I H A Q K S V L L W A L G H G Y S V V F D E A E N R L T A M R G L L V Y P A S I V F D Q A E N R M H T I K A V M V A T L G
UniRef90_Q72T26 UniRef90_W7Z2K4	ARSRI YKQSANGVAVRMAVLKKAL
UniRef90_A0A013XWF4 UniRef90_R6JWB6	PQS LI WDEAENRI HAQKS VLL WALGH GYS VVEDEAENRI TAMRGILVV
UniRef90_UPI000479365C	PASLVEDQAENRMHTÜKAVMVATLG
UniRef90_M3J127 UniRef90_W7CF19	EKSRI IT QMT N GVY IR MAILEAV L SHSRI VEQMAN GVY AR MAILEAIT N Q
UniRef90_A5MZU2	SHSRI VEQMANGVYARMAILEAITNQ IYSI VEEEAENRLHTIKAVMVATLSPGNI PSCLVEEQVRNGVPLRMALLYLM DDSLCLKQAENRLFAQNALLHLLN SRCKVLKQVRNGVAVRMAVMEF
UniRef90_Q7U9G2 UniRef90_A3WJK6	DDSLCLKQAENRLFAQNALLHLLN
UniRef90_V8C829 UniRef90_H0DJY3	SR <mark>C</mark> KVLKQVRNGVAVRMAVMEF PKS <u>R</u> IFKQMENG <u>M</u> FLRMA <u>VI</u> DTLL
UniRef90_X0TH94	PRSVVFDQAENRL PRSLVFPEAENRMWTVMAVMLSL
UniRef90_W7TNZ3 UniRef90_H3NMI3	PRSILVIFPEAENRMWTIVIMAIVIMILISILI PKSRIJEKOMENGIVI VIRKAMIJIKVIJEDEKE
UniRef90_E8SGE0	PKSRIFKQMENGVLVRKAMLKYLFDEKF PNSVVFEQAENRLHALKALMAATLGE TISAVLQQAENRLYVQKAALHHLFEE KKSKVWDQAENRLYTAMSAFSLIF
UniRef90_F7RX21 UniRef90_F4G0L2	I I I S A I V L I Q Q A E N K I L I Y I V I Q K A A IL I I I I I I E E K K S K V I W D Q A E N R L I Y T A M S A F S L I I F



	50 60 70 80
UniRef90_K2K2G7 UniRef90_I4BXG1	GKSIAL LFEKPSLRTRASFAAGINRLGGHSLYLDAA S Y <u>K</u> TIF <u>LM</u> FFEQSTRTRNSME <u>A</u> GLAQLGGH <u>AN</u> YLDTST M
UniRef90_D1Y0V9	GLT VANLEFENSTRTRNSFDVAERMTGAEVIDW SASGS QHT VANLEYENSTRTRVSFELAAKHLKM PVVNLDLQSSS DRTI VNMFFENSTRTKMSFEMAEHKIGMHQMNF DVTTSS
UniRef90_W0BBM4 UniRef90_D4YGW3	DRTI VNMFFENSTRTKMSFEMAEHKI GMHQMNF DVTTSS
UniRef90_J9YZH1 UniRef90_W6WMN7	NKNI GLI FEKNSTRTRÜSFQVGINQLQGKYI DIKLEELNU GLEI ALI FEKSSTRTROAFEVAAHDQGAN VTYI DPTSSQ GRTI MTVFFENSTRTRVSFEVAGKWMSADVI NVSASSS
UniRef90_L8DIK6	GRTI MTVFFENSTRTRVSFEVAGKWMSADVI NVSASSS
UniRef90_B3EL97 UniRef90_A0A023CWF3	GKRIVLAFFENSTRTRFSFEILAARNLGASTLNFSASSS PITYAVNMFFENSTRTHCSFEMAERKLGLQTIPF DPVASS
UniRef90_G8BY04 UniRef90_UPI00036AEC0	GRT ALL FSKRSTRTR STEGAAAFFGAQ SMFLGKDD 0 QYFAANL FFESSTRTHKSFEVAEMKLGLDLVDF DAKTSS
UniRef90_N1W9P9	GRSCAMLFQKTSTRTRVSFEAGMTELGGHAVFLDWMASNF
UniRef90_A9BIT6 UniRef90_UPI00036C0536	GRII MIVFFENSTRIRVSFEVAGKWMSADVINVSASSSS GKRIVLAFFENSTRTRFSFELAARNLGASTLNFSASSS PLYAVNMFFENSTRTRFSFELAARNLGATLNFSASSS GRTLALLFSKRSTRTRISTEGAAAFFGAQ SMFLGKDDI 0 QYFAANLFFESSTRTHKSFEVAEMKLGLDLVDF DAKTSS GRSLAMLFQKTSTRTRVSFEAGMTELGGHALFLDWMASNF SKTLFMMFFEQSTRTRNSLEAGLTQLGGHAHDLTPDK M 5 DKTFLMFFFNPSLRTRISFEAAATELGGHAQFLEPKTMRQ CKGLIMLFQKTSTRTNLSFQSALNQLGGYAVTLDWDASNF
UniRef90_E0IA92	RKGLIMLFQKTSTRTNLSFQSAINQLGGYAVTLDWDASNF
UniRef90_UPI00040A9C4 UniRef90_K2CBP7	RKRVGLVFDSNSLRTRLSFETATHLLGTYFLDVEDVIQEK
UniRef90_Q7VDV6 UniRef90_Q1AS69	GRILIATILIFFEPSTRTRSSFEILAAKRILISAD VQSFAPSNSS GSVMVTILIFFOPSTRTRMSFFTAMHRILIGGAVVTFANPILVISS
UniRef90_G3B1N4	GKVVALLESKRSTRTRÜSTEGAÄÄYFGASPM FLGKDDIQ
UniRef90_E8W121 UniRef90_L8FQ19	GKTVAMMFNKRSTRTRVSTEAAVVTMGGHPM FLGKDDIQ
UniRef90_A3UJX1 UniRef90_C0QUQ3	GLTQINLFFENSTRTLASFEI AAKRLGADTINUSGSSS
UniRef90_R9YK62	NKVVTLIFDKHSTRTRMSFEVGVRQLGGQVVFLEGRT T
UniRef90_J7M5M5 UniRef90_C4YB13	GKLVALLFSKRSTRTRUSTEGAAAHFGAQPM FLGKDDII Q
UniRef90_S0ANR9 UniRef90_UPI0003711F75	GKYAGLLFEKPSTRTRTSFEVASERMGGHALYLSSDQLHL
UniRef90_B4SCQ7	NKRIAL VFFENSTRTRFSFEIAARHLIGAGTINFSASSSS
UniRef90_UPI0003870F10 UniRef90_G8YQ43	O GKIVIMASMFYEASIRISSSFAAAMSRLIGGSILLISFSEAT S GKIVVITMILIFSKRSTRTRIVISTEGAAAYFGASPM FILIGKDDII O
UniRef90_UPI00036B48B7 UniRef90_UPI0003680884	1 NKSVALYMTKPSTRTRLSSETAVAHLGGTPIFIRGDEL
UniRef90_Q0ID96	R K GL I MLF G K T S T R T N L S F G S A A I E L G G T A Q T L D WD A S N F R K GL I MLF G K T S T R T N L S F G S A A I N Q L G G Y A V T L D WD A S N F R K R V G L V F D S N S L R T R L S F E T A T H L L G T Y F L D V E D V I Q E K G R L I A T L F F E P S T R T R S S F E L A A K R L S A D V Q S F A P S N S S G S V M V T L F F G P S T R T R M S F E T A M H R L G G A S P M F L G K D D D Q D T V V G V L F R K T S T R T R T A F S A G A L R L G A S P M F L G K D D D Q G L T Q I N L F F E N S T R T R T S F E L A A K R L G A D T I N I S G S S S A G Y V T L L P F F E S S T R T R T S F E L A A K R L G A D T I N I S G S S S S N K V V A L L F S K R S T R T R T S F E L A A K R L G A D T I N I S G S S S S N K V V T L L P F F E S S T R T R T S F E L A A K R L G A D T I N I S G S S S S N K V V T L L P F F E S S T R T R T S F E L A G K R L G A D T I N I S G S S S S S S G K V V A L L F S K R S T R T R T S F E L A A K R L G A D T I N I S G S S S S S S G K V V A L L F S K R S T R T R T S F E V A S E R M G G H P M F L G K D D I Q G M S A G Y S I L L F S K R S T R T R T S F E V A S E R M G G H P M F L G K D D I Q G K V A G L L F S K R S T R T R T S F E V A S E R M G G A L R L G A S T L N F S A S S S S G G K V M A S M F Y E A S T R T R T S F E L A A K R L G A G T L N F S A S S S S G G K V M A S M F Y E A S T R T R T S S F E L A A K R L G G G T L N F S A S S S S G G K V M A S M F Y E A S T R T R V S T E G A A A A Y F G A S P M F L G K D D I Q G G K V M A S M F Y E A S T R T R V S T E G A A A Y F G A S P M F L G K D D I Q G K V M A S M F Y E A S T R T R V S T E G A A A Y F G A S P M F L G K D D I Q G K V M A S M F Y E A S T R T R V S T E G A A A Y F G A S P M F L G K D D P R R S G S N V V M M T K P S T R T R N S S F E L A A K R L S A D V Q S F S P S S S S G G K T V A M T F S K R S T R T R V S T E G A V T A L G G T P L T A G P T G S S S S S G G K T V A M T F S K R S T R T R R V S T E G A V T A L G G T P L T A G P T G S S S S T T T T R T S T T T R T S T E T T A T A T A T A T A T A T A T A T
UniRef90_R1GVK3 UniRef90_UPI00035F8B38	GKTV AMTFSKRSTRTR V STEGA V TA L GGHPM
UniRef90_N9VDL7	OOMI VIIMI QKDOIKIK <mark>O</mark> AI EIVAAADEOAO <mark>OI</mark> IIIOI IOO
UniRef90_C6V4Z8 UniRef90_R6GUH5	G K V F S V F F E S S T R T E T S F S L A A S K L G C L V E K V N V A T V A N R N L G M L F Q Q S S T R T R V S F E T A M S Q L G G H A Q Y L G P G M Q
UniRef90_W2SCS6 UniRef90_W9EFF1	RKNI AL MFSKRSSRTRVSTESAVVAL GGHPM FLGKEDI Q DKSLI LLFQKTSTRTRLSFEL GGAEMG AHVAYI DPTSSQ
UniRef90_B0TL86	G K SIV VIMILIF F K P SILIR T RIVIS F DILIGILIN KILIG G H CILL YILID Q Q N G F
UniRef90_J3MRJ8 UniRef90_J5KJR4	A MRRL G G E V L T T E N A R E F S N K S V G L V F F N P S M R T K T S F E L G V Q E L G G C V V V L N P G K D A W
UniRef90_G8S700 UniRef90_F3P796	
UniRef90_Q83GQ3	GAVLV <mark>C</mark> LFYEASTRTRFSFS <u>T</u> AF <u>S</u> R <u>M</u> GGA <u>V</u> V <u>T</u> EADMLQSS
UniRef90_W0JE42 UniRef90_P14995	D A
UniRef90_UPI000380A05E UniRef90_UPI000413324E	B GKNLALIFEKTSTRTR <mark>C</mark> SFE <u>V</u> AAYDQG AR <u>V</u> TYLDPSGSQ E F <u>HA</u> AANLFFEPSTRTKYSFEMAEAKLGMHRFD <u>F</u> SAEASS
UniRef90_I3TGC4	RKIVIFYMILIFFAPSTRTRAAFESGMYFILIGGHAAYII IDATTTRM
UniRef90_A5GT19 UniRef90_A3WK97	GKILINAFYEPSTRTRLSFDSAWHRLGGDSINITDPSTTG GKILISAFYEPSTRTRLSFESAWHRLGGDIMSITDRSTTG
UniRef90_C1F8V3 UniRef90_V5I621	KRRVALLFYESSTRTRTSFELAAKSLGAD TTLVSALSS
UniRef90_G0S045	GKTVAMMFSKRSTRTRVSTEAAVQLMGGHPM FLGKDDLQ
UniRef90_X0XUA3 UniRef90_C5FF11	G K I M A S L F F E P S T R T R L S F E A A M L R L G G R V T S A V D I G A S S G Q T V A M V F N K R S T R T R V S T E G A V T R M G G H P M F L G K D D I Q
UniRef90_X1CFG2 UniRef90_E7G0C8	GKVLGMIFQKPSLRTRVSFETGMIQLGGQAI YLGPDDIK
UniRef90_R9P6N7	NKSI AI MESKRSTRTRVASETSVASLGGTGL FLAPSDLQ
UniRef90_G2LPM0 UniRef90_I1BPG0	KKNLLALI FEKESIKI KUAFELLAAFDQG AHLII YLLGPGSTH GKTMALI FSKRSTRTRVATESAVNYLLGGSAM FLLGGQDI Q
UniRef90_UPI0003740CE UniRef90_X0ZQL1	GKILINAFYEPSTRTRLSFESAWHRLGGDSINITDPSTTGGKRLISAFYEPSTRTRLSFESAWHRLGGDDIMSITDRSTTGGKRRVALLFYESSTRTRTSFELAAKSLGAD TTLVSSTSGKRRVALLFYESSTRTRTSFELAAKSLGAD TTLVGKDDIQGKTVAMMFSKRSTRTRVSTEGAVVQMGGHPM FLGKDDIQGKTVAMMFSKRSTRTRVSTEGAVVQMGGHPM FLGKDDIQGKIMASLFFEPSTRTRLSFEAAMLRLGGRVISAVDLGASSGQTVAMFNKRSTRTRVSTEGAVTRMGGHPM FLGKDDIQGKIMASLFFEPSTRTRVSFEAAMLRLGGGAVISAVDLGASSGQTVLGMIFQKDDIQGKVLGMIFQKPSLRTRVSFETGMIQLGGQAAL YLGPDDIQKNKVILALFFEHSTRTIASFETGMIQLGGQAAL YLGPDDIQKNKVILALFFEHSTRTIASFETGMIQLGGQAAL YLGPDDIQKKNNLALIFEKESTRTRVASFELAAFDQG AHLITYLGPGSTHGKKNNLALIFEKESTRTRVASFELAAFDQG AHLITYLGPGSTHGKKNNLALIFEKESTRTRVATESAVNYLGGGAM FLGGQDLQKKNNLALIFEKESTRTRVATESAVNYLGGGAM FLGGQDLQKKNNLALIFEKSSTRTRVATESAVNYLGGGAMM FLGGQDLQGKTMALIFEKSSTRTRVASFELAEKRLSADILNF SASTSSGKLLISAFYEPSTRTRLSFESAAMHRLGGGAVMSITDPKSTGNNTRGKSTRTRVASFELAEKRLSADILNF SASTSSGKLLISAFYEPSTRTRLASFESAWHRLGGGAVMSITDPKSTGNNTRGKSTRTRLASFESAWHRLGGGAVMSITDPKSTGNNTRGKSTRTRLASFESAWHRLGGGAVMSITDPKSTGNNTRGKSTRTRLASFESAWHRLGGGAVMSITDPKSTGNNTRGKSTRTRLASFESAWHRLGGGAVMSITDPKSTGNNTRGKSTRTRLASFESAWHRLGGGHPL FLSPSDIQGKNNLALIFEKASTRTRLASFENAAFLLGGGHPL FLSPSDIQGKNNLALIFEKASTRTRVAAFENAAFLGGGHPL FLSPSDIQGKNNLALIFEKASTRTRVAAFENAAADQG AFTTYLDPAGSH
UniRef90_D3SBQ0	GKILISAFYEPSTRTRISFESAWHRLGGAVMSITDPKSTG
UniRef90_UPI000465428A UniRef90_I4YH40	A K T V A V L F N K R S T R T R V A A E T S L Q A L G G H P L F L R G D D L Q
UniRef90_B5GUT2 UniRef90_X0Y3F2	GKNLALIFEKA STRTR <mark>C</mark> A FEVÁ Á Á DQG Í A FTTYLÓPÁ GSH
UniRef90_U1K4E0	GKLLSAFYEPSTRTRLSFESAWHRLGGDLMSITDRSSTG
UniRef90_N2A705 UniRef90_G0R862	Q D Y I GLLFEMNSTRTR CAFETS AND LGMGTTFLS NSHF TVAMMFSKRSTRTRVSTEAAVTMLGGHPM FLGKDD I Q
UniRef90_X5JE42 UniRef90_UPI000406F680	
UniRef90_E5CUK1	GKVLATLEYQPSTRTRMSFASAMFRLGGQVIDMGGPKVRT
UniRef90_V6S2D4 UniRef90_J0LKG7	NKTI GLLFFNPSLRTRLSTQKAATNLGMNTI VMNLNNDGW DKTLGLIFMNPSLRTRLSTQKAGMNLGMNVMVMNLDKEGW
UniRef90_B4VIF9 UniRef90_D5BG00	NKTLGLIFFNPSLRTRLSTQKAAINLGMNTIVMNLNNDGW DKTLGLIFMNPSLRTRLSTQKAGMNLGMNVMVMNLDKEGW GQVVANMFFEPSTRTRSSFELAAKRLSADTLNFAPGTSS GKTLGLLFFNSSLRTRLSTEKAGRLLGMEVLTMNVGADGW NKTVALLFSKRSTRTRVAAAETSAVLLGGGRALFLGREDIQ GYLMATLFYEPSTRTRLSFEAAMRRLGGEVLTTENAREFS NKTIGLLFFNSSLRTRLSTQKAAQNLGLNVLTLNAAQEAW CNKRIGLLFLNSSLRTRLSSQIAAQNLGLNVLTLNAAQEAW CNKRIGLLFLNPSLRTRLSTQVAAQNLGMETIVFNVDKEGW GKTLALLFEKPSLRTRVSFDLAIHQLGGHAILYLSPDEVG
UniRef90_X8J6J9	NKTVALLESKRSTRTRVAAETSAVLLGGRAL FLGREDLQ
UniRef90_K3YN21 UniRef90_UPI00042879CE	GYLIMA I LIFYEPS I KTRILISFEA A MRRILIGGEIVLITTEN A REFS NKTI I GILLIFFN SSLIRTRII ISTQKA A QNLIGILINIVI I TMNIVIGODGW
UniRef90_J3CC33 UniRef90_UPI00035C5480	GKTI GLVFLNSSLRTRLSSQIAAQNLGLNVLTLNAAQEAW
UniRef90_X1HBL6	GKTLALLFEKPSLRTRVSFDLALHQLGGHALLYLSPDEVG
UniRef90_X1SHH3 UniRef90_C7PM52	
UniRef90_S2D464	NKT LGMI F LN P S L R T R L S T Q V A A K N L G M E V V V F N L D K E G W G K R I G C I F L N P S L R T R A S T Q L A A I N L G M E P I V M N M D K E S W

UniRef90_K2K2G7	90 100 110 120 LIGERESAADVGANLACWHDAI <u>VARVF</u> SQQ <u>TLI</u> T <u>EL</u> AEAAD
UniRef90_I4BXG1	QI AHGESAKDTAIILSRFGHGIACRNCFWGIKYLREMAQW SMSKGESLRDTVWTLCMGVNGLVVRHSATGMPYYLQKLVP
UniRef90_D1Y0V9 UniRef90_W0BBM4	EKKGEVIEDTIKTLAAMGUSLMVIRHAKDGLPQLAAQ <mark>C</mark> GD
UniRef90_D4YGW3	VNKGESLYDSVLTMQALGADLVVLRHPDANYPDQLVNLDV
UniRef90_J9YZH1 UniRef90_W6WMN7	Q RVESFEDTFEII MSCYLDAL VFRTTNHEKLKLASKYFK I G HKESMKDTARVLGRMFNAI EYRGFSQETVEEL ARF
UniRef90_L8DIK6	VSKGESLRDTAMTLRAAGADALI VRHPASGAAHQI AQWTA
UniRef90_B3EL97	V S K G E S L R D T A M T L R A A G A D A L T V R H P A S G A A H Q L A Q W T A V S K G E S L V D T L K N L E A M Q V D A F V I R H P S S G S A E Q L S R L T
UniRef90_A0A023CWF3 UniRef90_G8BY04	VKKGETLYDTL LALNSIGVNLAVIRHSQNEYYKEDET QKL QLGTNESFYDTTKVVSSMVSCIFARVNSHDDIQNLCK VNKGETLYDTVLTMSALGTDVCVIRHPDVDYYKEVESDSI
UniRef90_UPI00036AEC00	VNKGETLYDTVLTMSALGTDV <mark>C</mark> VIRHPDVDYYKEVESDSI
UniRef90_N1W9P9 UniRef90_A9BIT6	LLSDI DFEGKYLSSNVALIMARLKRHEDLLVLKSGS QLSHGESAKDTALVLSRFGHALALRNCFFGLGNNYMRAKY AGETLEDAAKVLDRYACGMGLRLLETYGDGDALLREYARW
UniRef90_UPI00036C0536	A GETTEDA A K <u>VLDRYA <mark>C</mark>GMGTRI L</u> ETYGDGDALLREYA RW SISPLQY <u>EA RYVSS</u> NSD <u>MI MA RLKKHA DLLELA KY</u> A
UniRef90_E0IA92 UniRef90_UPI00040A9C4B	A G G T T Q E D D DII IA R MIVISIL IY G DIV V V VIR H P E T G W P A H A A S L IS E
UniRef90_K2CBP7	DĞTRRESFEDI TETMDRMVDAYVVRDYSQQ MLTVFKRK LIKGETPLDTVMTYVAMGAHVLVVRHGGTGVPEQLDQKKK
UniRef90_Q7VDV6 UniRef90_Q1AS69	SAAKEESLADTMRTISKYANVIVLRHPDDVAAREGASY S LGVNESMYDTTKLISSMTSCVFARVGKHQELLDLCKD
UniRef90_G3B1N4	<u>L GVN E S M Y D T T K </u>
UniRef90_E8W121 UniRef90_L8FQ19	LGVNESLYDTSVVISSMTSCMVVRAGEHSEVADL AKH SISKGESLDDTALTLAAMRPDVLVVRHKAAGAAAHFARIT
UniRef90_A3UJX1 UniRef90_C0QUQ3	SISKGESLDDTALTLAAMRPDVLVVRHKAAGAAAHFARIT VKKGETLYDTIKTLEAMNADFIVLRHYMSG <u>AAH</u> IVANKVK
UniRef90_R9YK62	QLARGESVKDSAKI IGAASDAI VLRTGPHQI VEEFSRFC
UniRef90_J7M5M5 UniRef90_C4YB13	QLARGESVKDSAKI I GAASDAI VLRTGPHQI VEEFSRFC LGVNESLYDTAVVVSSMVSCI VARVGPHADVAGL AQH LGVNESMYDTTRVISSMTSCI FARVNKHQDISDLCKD
UniRef90_S0ANR9	SGGEPIVI KDIVIARMII IGGWII IDII IMIVIARIVIEAQSTII IEEII IKKYS
UniRef90_UPI0003711F75 UniRef90_B4SCQ7	QTNTGETTEDTGRVLSGMLDILVARTAGDQAEMRGWAGQD VSKGESLSDTLKNLEAMQVDAFVLRHPSSGAADLITRLTS
UniRef90_UPI0003870F10	<u>SVQ</u> KGE <u>SL</u> ADSVQ <u>TM<mark>CC</mark>YAD<u>V</u>L<u>VL</u>R<u>H</u>PQPGAV EL<u>A</u>AKH<mark>C</mark></u>
UniRef90_G8YQ43 UniRef90_UPI00036B48B1	LGVNETLY DTVKVLSSMTA <mark>C</mark> IFARVNKHQEITDL <mark>C</mark> EHS QLGRGE <u>TI</u> ADTAKIISGY <mark>C</mark> SALIIRTFA <u>Q</u> ADVDELGAHA
UniRef90_UPI0003680884	I I A K G E S L IY D T A R IV L IS G Y S D IV I IT M R H P D IV IG S IV IA E F A E A S R
UniRef90_Q0ID96 UniRef90_R1GVK3	L S K G E S L L D T A R T Y V A M G A D V L V I R H R C T D V A S E L D Q A G E L G V N E S L Y D T S V V I S S M V S C I F A R V N S H S D V A N L A K H
UniRef90_UPI00035F8B38	PGRIVIGRII IGEPSOIVI IGAYTAII VVI IQII I <mark>C</mark> DDAEAIVIREARAA
UniRef90_N9VDL7 UniRef90_C6V4Z8	N F G K K E S V E D T A M V L G Q M Y D G I E F R G F K Q S D V E A L A K Y L K K G E H L V D F F T S L N G L S P N A F I I R H S Q S G V L H I L E K Y L D
UniRef90_R6GUH5	I I G G H E T II I G D T G R IV I I S Y II V I D IV V IM A R IV I I E H R T II V I D II I A E A <mark>C</mark>
UniRef90_W2SCS6 UniRef90_W9EFF1	LGVNESLYDTSKVVSSMVSGIVARVGPHSDVVGL AKD FG TKESIEDSGRVFGELADGIEYRGFAQQDL ETLATA
UniRef90_B0TL86	LGKREPVS DFAANISCWADAI VARTFLHSTLEELAEHG
UniRef90_J3MRJ8 UniRef90_J5KJR4	LGKREPVS DFAANISCWADAI VARTFLHSTLEELAEHG SAAKGETLEDTIRTVEGYSDI I VLRHFESGA ARRAAATA PLEFKEHVIEVAQVLSEYCDLIAVRSFDDLSDYVINSFAK
UniRef90_G8S700	Q E N I G E I A G D I G A V L S R M L D V L V V R I A G G D A E L R A Y A A S R
UniRef90_F3P796 UniRef90_Q83GQ3	SIVIAKGES LSD LSRIV LISG Y ADIL V V VIR HSEILIGEA ER Y ASDS
UniRef90_W0JE42	ILOKGENWIDTIITNIINAMHPDEEWTRHAYSGEAYYIISOETO
UniRef90_P14995 UniRef90_UPI000380A05B	LGVNESLHDTTKIISSMTSS I FARVNKHSDIQEM <mark>C</mark> KYS MG HKE <u>SVADTARVLGR</u> FYD <u>GIEF</u> RGKEQ AHVETLAEL
UniRef90_UPI000413324E	II IE K G E SIL IV D TIL IK T E E A II IGIVIDII IEIV I IR <mark>H P</mark> R A R E V E EII IE GIL IO
UniRef90_I3TGC4 UniRef90_A5GT19	AFGKQEKAGEAVKDVAAMYDLYGHYLYGVGNAYTREMARA LAKGESLSDLAEMFNHYGD <mark>CV</mark> VLRDT SET <u>AL</u> YE <u>M</u> ATSL
UniRef90_A3WK97	LAKGE <mark>CL</mark> ADVAEMFNNYGD <mark>C</mark> VVLRDNNESSLEEMID SL SIEKGESLKDTGITLKALGAECIILRSPYSGAPYLLAKST
UniRef90_C1F8V3 UniRef90_V5I621	SILIE K G E SILIK D I GII (I ILIK A ILIG A E CI I LIK S P Y S G A P Y IL LIA K S T ILIGIVIN E SILIY D T SIV V I IS S MIVIS CII VIA RIVIA K H S DIVIA DILI A K H
UniRef90_G0S045	L GVNESLYDTSVVISSMVSCIVARVAKHSDVADL AKHLGVNECLLDTSVVISSMTSCMVARVGPHRE VTELAEHLSKGESI ADMAKVVSSYADIIVIRHPWEGAARVVANYAG
UniRef90_X0XUA3 UniRef90_C5FF11	ILIGIVINE SILIY DII SIV VILIS SIMIVIS <mark>C</mark> II VIA RIVIG PH SIDIVIA NII A KH
UniRef90_X1CFG2	ILIG QREATKDII ARIVLISRYIVISGII MARTFSHEIVIMILIEILI AKY
UniRef90_E7G0C8 UniRef90_R9P6N7	TKKGETLLDTLLNLQAMQVDLIITRHHYSSAALFFAKHLT LGVNESLY DTAKVVSSMVDGMMARVGGHDEVELLSKHS
UniRef90_G2LPM0	I GKKESI LEDTAKI LGRLYDGI QYRGHNHKTI EI LAKYS LGVNESLLDTARVVSSMVDGI MARVGAHEELETL AKE
UniRef90_I1BPG0 UniRef90_UPI0003740CE8	CAECESIVIK DMAKMVERECHAII IGIVIVIVIV CRCNAIVI IREVAEH
UniRef90_X0ZQL1 UniRef90_D3SBQ0	STKGETLLDTARNILAMKVDCFVLRHSTPGTPHLLAKEL IAKGESLADIAEMFN NYGDVLVLRSSDGEAAHNMLENL
UniRef90_UPI000465428A	QI G R G E I I S D I A K I I S G F A S A L I V R I F A Q S D V D E L G A H A
UniRef90_I4YH40 UniRef90_B5GUT2	LGVNESLEDTARVVSSMTDGIFARVGAHSEIETL AKY LGRKESA KDTARVLGRMFDALQFRGDAQATVEQL AEY
UniRef90_X0Y3F2	H <u>C</u> T
UniRef90_U1K4E0 UniRef90_N2A705	LAKGESLQDVAEMFNNYGD <mark>CVVL</mark> RDTSVESL EEM <mark>LH</mark> SL GNTE <u>TI</u> KDS <u>MR</u> VFSEMY <u>S</u> AIGY <u>R</u> GAKHST <u>LLE</u> M AKD
UniRef90_G0R862	I I I I I I I I I I I I I I I I I I I
UniRef90_X5JE42 UniRef90_UPI000406F680	QDTARVLIDRYLLDIVLAII RTFAQ AELKTFAKY
UniRef90_E5CUK1	QDTARVLDRYLDVLAIRTFAQ AELKTFAKY ALEFEDHIKEAAAVLSQYCDIIAVRAFDESELVLNSFKKY DDYFDESMADTIKYISQYSNAMVMRHYENFAV EKASNIT
UniRef90_V6S2D4 UniRef90_J0LKG7	NGNKAEHIKEAAQVVSQYCDIIAIRSFDEEEQVINSFKKY AGTTVEHIREAAAVMGQYCDIIGIRSFDYSEDLLNKFIEL
UniRef90_B4VIF9	
UniRef90_D5BG00 UniRef90_X8J6J9	All F F F D H I K F A A A V I S Q Y <mark>C</mark> D V I G V R A F D F F F Q V I N A F K K Y
UniRef90_K3YN21	SAAKGETLEDTI RTVEGYSDI I VLRHFESGA ARRAADTA
UniRef90_UPI00042879CE UniRef90_J3CC33	NGDKAE <mark>H</mark> IVIKEAAAIVI IGSV <mark>C</mark> DII I IGII IBSEDVAEII VIEGOEKKV
UniRef90_UPI00035C548C	NÜEFADGAVMNGDTVEHIKDAI EVINQY <mark>C</mark> GII AVR <mark>C</mark> FAGM AGATVEHVKDAAPI LGNYFDI L <mark>C</mark> IRTFDYSEMYI NQFIKY LGRREAIP DVARVLSRYVDGI AARTFSHQTLLI LAEH
UniRef90_X1HBL6	LGRREALP DVARVLSRYVDGLAARTFSHQTLLILAEH
UniRef90_X1SHH3 UniRef90_C7PM52	QLEMNDHVKEAAAV <u>M</u> GQYFDI <u>M</u> AIRTFDYKEKYLNQFIKY
UniRef90 S2D464	ALEMHEHVKDAAAVIGSYFDI LALRAFPSADFTFNQFVKY

UniRef90_K2K2G7 UniRef90_I4BXG1 UniRef90_D1Y0V9 UniRef90_W0BM4	130 K PVINALSDLCHPCQALADLTLEENLGPLAQLNVVWI ATVPVINLQCDLYHPMQVLADLMTLKEKVKDTQRLKVSII HVPVFNAGDGARSHPTQGLLDVTAAVERLGSLKGKTLAII MIQIINAGDGARSHPTQGLLDVTAEVERLGSLKGKTLAII VVNAGSGAGQHPSQSLLDIMTIYEEFGDFRDLDIAII K PIINALSDISHPCQAISDIYTLKEHFQKEDGFKVWC AGVPVFNGLTDEYHPTQMLADVLTMREHDKPLTDISYAYL GQAVINAGSGTHEHPTQALLDALTLRQRLGDIAGRRIAIV DKHVINAGDGSGQHPSQCLLDMMTIHEQFGHFKGLKIAII NMGIVNAGDGSGQHPSQCLLDMMTIHEQFGHFKGLKIAII SVPIINSCCDKFHPQALLDLFTLRDYFGSLQDTRIMIL NMGIVNAGDGSGQHPSQCLLDMMTIHEQFGHFKGLKIAII SVPIINSCCDKFHPQALLDLFTLRDYFGSLQDTRIMIL SVPIINSCCDKFHPQALLDLFTLRQRLGDIAGRRIAIV
UniRef90_D4YGW3 UniRef90_J9YZH1 UniRef90_W6WMN7 UniRef90_L8DIK6 UniRef90_B3EL97	Q VVNAGSGAGQHPSQSLLDI MTI YEEFGDFRDLDI AII K PI INALSDISHP <mark>C</mark> QAI SDI YTLKEHFQKEDGFKI VW <mark>C</mark> AGVPVFNGLTDEYHPTQMLADVLTMREHDKPLTDISYAYL GQAVINAGDGTHEHPTQALLDALTLRQRLGDI AGRRIAI V DKHVINAGDGTHEHPTQALLDIFTLRDYFGSLQDTRIMI L
UniRef90_A0A023CWF3 UniRef90_G8BY04 UniRef90_UPI00036AEC00 UniRef90_N1W9P9	N M G I V N A G D G S G Q H P S Q C L L D M M T I H E Q F G H F K G L K I A I I S S V P I I N S L C D K F H P L Q A I C D L L T I K E H D Y T N N K L K L A W I R C A I V N G G D G S G Q H P S Q S L L D L M T I Y E E F G Y F E G L K I A I C T V P V I N G C C N L F H P C Q S L A D L T I V M D S P K D W Q K K S L C Y I
UniRef90_A9BIT6 UniRef90_UPI00036C0536 UniRef90_E0IA92 UniRef90_UPI00040A9C4B	A D V P V I N L Q D D F Y H P L Q G L A D L M T L K E K C N D L R N L K V T L S M D A P I I N M A D D K Y H P C Q G L S D V M G M Q E H R G D L T G K T V L M T K V P V I N G C C D K Y H P C Q A L A D L M T V Y E I I G T F S G V T I T Y V A A M V I N G G D G V G E H P T Q T M V D L Y T M H R R F G G L D G L R L L I L
UniRef90_K2CBP7 UniRef90_Q7VDV6 UniRef90_Q1AS69 UniRef90_G3B1N4	PYPPFINGFCQVGHPSQALADLSVITWKKGAYKKLNYVGV NVSILNGGDGLHSHPSQGLLDLFTLTQFFNKIAGKRIAIV ESPVINGGWGDWEHPTQALLDLYTLWRTHGGVEGAKVVVA SSVPINSLCDKYHPLQAIADMLTIKEAFGNTSGLRLAWV RMAVVNAMSQGEHPTQALADLTTLLRRFGRIEDLHVIYV
UniRef90_E8W121 UniRef90_L8FQ19 UniRef90_A3UJX1 UniRef90_C0QUQ3 UniRef90_R9YK62	N M G I V N A G D G S G Q H P S Q C L L D M M T I H E Q F G H F K G L K I A L I S S V P I L N S L C D K F H P L Q A I C D L L T I K E H D Y T N N K L K L A W I R C A I V N G G D G S G Q H P S Q S L L D L M T I Y E F G Y F E G L K I A I C T V P V I N G C C N L F H P C Q S L A D L T I V M D S P K D W Q K K S L C Y I A D V P V I N L Q D D F Y H P L Q G L A D L M T I K E K C N D L R N L K V T I L S M D A P I I N M A D D K Y H P C Q G L S D V M G M Q E H R G D L T G K T V L M T K V P V I N G C C D K Y H P C Q A L A D L M T V Y E I I G T F S G V T I T Y V A A M V I N G G D G V G E H P T Q T M V D L Y T M H R R F G G L D G L R L L L L P Y P P F I N G F C Q V G H P S Q A L A D L S V I T W K K G A Y K K L N Y V G V N V S I L N G G D G L H S H P S Q G L L D L F T L T Q F F N K I A G K R I A D L S V I T W R T H G G V E G A K V V V A S S V P I I N S L C D K Y H P L Q A I A D M L T I K E A F G N T S G L R L A W V R M A V V N A M S Q G E H P T Q A L L D L T T L L R R F G R I E D L H V I Y V S S V P V I N A G D G A H E H P T Q A L L D A F T L T R R W G E V G G R R I L I V S R V I N A G D G T H E H P S Q A L L D A F T L T R R W G E V G G R R I L I V S R V I N A G D G T H E H P S Q A L L D A F T L L E K K G K I E G L K I V I V A V P L I N G L S D E Y H P C Q V A S D L M T F T E L R G K L E S R K V T W I
UniRef90_J7M5M5 UniRef90_C4YB13 UniRef90_S0ANR9 UniRef90_UPI0003711F75	GL PTV NA G D G A HE H PT Q AL L D A FT L T R R W G E V G G R R I L I V S R V I NA G D G T H E H P S Q AL L D A F T I L E K K G K I E G L K I V I V A V P L I N G L S D E Y H P C Q V A S D I M T F T E L R G K L E S R K V T W I S S V P V I N A L C D S F H P L Q A I A D F Q T L H E T F T P K A H H K I A W I S T V P I I N S L C D K Y H P L Q A I T D L L S I K E A F G K T K G L K L A W I G L P V I N A L S D S E H P T Q M V S D F L T I M E K K K K F K G L K M T F V R M A V I N A M S A I E H P T Q A L T D L T T L W Q Q F G R I D D L S I L Y V K N V I N A G D G S H E H P T Q A L L D M F T L R E Y F G T I D G L K V I I I R K P V I N A G D G V G E H P T Q A L L D M F T L R E E L G T V N G M T I T M V N V P I I N S L C D R F H P L Q A I A D L L T I K E A F G A K G L K L A W V S I P V I N A L T D D D H P T Q L L A D W L T I R E N F K D I A G R K F V Y L
UniRef90_B4SCQ7 UniRef90_UPI0003870F10 UniRef90_G8YQ43 UniRef90_UPI00036B48B1	N
UniRef90_UPI0003680884 UniRef90_Q0ID96 UniRef90_R1GVK3 UniRef90_UPI00035F8B38	SIPVINALTDDDHPTQLLADWLTIRENFKDIAGRKFVYLVPVINGGDGANEHPTQALLDLYTIRNGRNDIDGLRIALIRTVVLNGGDGQHSHPSQGLLDLYTLAHHFDPLQGKRIVIVSSVPVINALCDLYHPLQTIADYLTIYEAFPTLEGLKIAWVHVPVLNALTDDHHPLQALADLMTLREHLGDLRGRKLACV
UniRef90_N9VDL7 UniRef90_C6V4Z8 UniRef90_R6GUH5 UniRef90_W2SCS6 UniRef90_W9EFF1	S G V P V W N G L T D A E H P T Q M L A D Y L T F K E F V G D L R G K K I V F A C C I V N A G D G T N E H P T Q G L I D A F T V L L K E K I E G L N L L V C S I P V L N G M S D Y N H P T Q E I G D L C T M A E N L P R G K K L S D C K V S S V P V I N A L C D T Y H P M Q L V A D F A T L T Q T Y D K L S G L K I A W V A Q V P V W N G L S N E W H P T Q M I A D F L T I K E N F G H L R G I N L A Y V
UniRef90_B0TL86 UniRef90_J3MRJ8 UniRef90_J5KJR4 UniRef90_G8S700	T V P V I N A L S D L Y H P C Q G L A D F L T L S E Q Y G D V S K V K L A Y V N I P V I N A G D G P G Q H P S Q A L L D V Y T I E R E I G S L D G L K L G L V Y S K V P V I N M E T I T H P C Q E L A H I L T L Q E E L G S L E G K N Y L L T R M A V I N A M S A S E H P T Q A L T D L T T L T R H F G G V D G L R V L Y V
UniRef90_F3P796 UniRef90_Q83GQ3 UniRef90_W0JE42 UniRef90_P14995 UniRef90_UP1000380A05B	ECPVINGGWGHWEHPTQALLDLYTLWRRFGRIEGLNVAVV LVPVINAGDGSGEHPTQAILDVYTLEYREKTIDGSCIAII ANV INAGDGTNEHPSQALLDLMTMYEHKKDLENLKVCII SVPIINACLCDTFHPLQAITDILTIKESFNTKGCKEAWI
UniRef90_UPI000360A03B UniRef90_UPI000413324E UniRef90_I3TGC4 UniRef90_A5GT19 UniRef90_A3WK97	ANV I NAGDGTNEHPSQALLDLMTMYEHKKDIENLKVCII SVPIINALCDTFHPLQAITDILTIKESFNTTKGLKLAWI SGVPVWNGLTDQWHPTQMLADLTMIEHSGKPLQQIAFAYL VPVINAGDGAGNHPTQSLLDLYTMKEEFGSFRGLHVVIC AKLPVINADDMFHPTQGLADIFSFIERFGDPQGKKYVIM KIPIINAGNGCDEHPTQAMTDLYTILKWRPSLDRIRIGII RIPIINAGNGCDEHPTQALADLYALFKWKPELHAVSVGII GLPVLNAGDGMHEHPSQALLDLRTMLRFPTALKGVTVTIC STVPVINALCDSFHPLQIIADFLTIHETFPTLEGLKIAWV
UniRef90_C1F8V3 UniRef90_V5I621 UniRef90_G0S045 UniRef90_X0XUA3	KIPIINAGNGLGEHPTQAMTDLYTILKWRPSLDRIRIGIIRIPIINAGNGCDEHPTQAMTDLYTILKWRPSLDRIRIGIIRIPIINAGNGCDEHPTQALADLYALFKWKPELHAVSVGILGLPVLNAGDGMHEHPSQALLDLRTMLRFPTALKGVTVTICSTVPVINALCDSFHPLQLIADFLTIHETFPTLEGLKIAWVSSVPVINALSSDFHPLQTIADFQTIHETFGGLEGLKVAWVVVPVINAGDGSHEHPTQTLCDLYTIRKERLTIKGLRIALWSTVPVINAGCGSHEHPTQTLCDLYTIRKERLTIKGLRIALWSTVPVINAGCGSHEHPTQTLADFQTIKEHFAPLEGLKIAWV
UniRef90_C5FF11 UniRef90_X1CFG2 UniRef90_E7G0C8 UniRef90_R9P6N7	STVPVINAL CDTFHPLQTIADFITIKEHFAPLEGLKIAWV SSVPVINGLSNLLHPCQVLGDLLTVKEKKGRLSNLKLAYV CALINAGSGSLAHPTQALLDLLTLYNHFKGLKGKKIALV TVPVINALSARYHPTQILADLQTMLEIYAPLAGLKVAWV
UniRef90_G2LPM0 UniRef90_I1BPG0 UniRef90_UPI0003740CE8 UniRef90_X0ZQL1 UniRef90_D3SBQ0	S S V P V I N A L S D K Y H P T Q L L A D L M A L H E Y Y C H K K N R K V A W I A R I P V I N M A D D M Y H P T Q A I T D L Y T I S E K F E G K K Y V I MWA Y P V S I I N A G D G A H E H P T Q A L L D L Y T I R E K K G K I E G L K I A L V R I P I V N A G N G I D F H P T Q A L A D V Y T I A K W R P F I F T G P V A P V
UniRef90_UPI000465428A UniRef90_I4YH40 UniRef90_B5GUT2 UniRef90_X0Y3F2	TIPV LNGLTDTDHPTQLLADWLTIREWFSDISGRKFAYV SSVPVINALSDLYHPTQLLADLLTLYSSEAPLSGLTFSWV AGVPVYNGLTDEWHPTQMLADLTMTEHCDKPLEEMALAYL NAHVINAGDGQHEHPTQALIDLFTIRERKGRLEGLNVVIV
UniRef90_U1K4E0 UniRef90_N2A705 UniRef90_G0R862 UniRef90_X5JE42	RIPIINAGNGCDEHPTQAMIDLYALEKWKPELHAVSVGIIGIIGLPVLNAGNGCDEHPTQALDLYALEKWKPELHAVSVGIIGIIGLPVLNAGNGCDEHPTQALDLRTMLRFPTALKGVTVTIC STVPVINALCDSFHPLQIIADFLTIHETFPTLEGLKIAWV SSVPVINALSSDFHPLQTIADFLTIHETFPTLEGLKIAWV STVPVINAGDGSHEHPTQTLCDLYTIRKEHFAPLEGLKIAWV STVPVINAGDDGSHEHPTQTLCDLYTIRKEHFAPLEGLKIAWV SSVPVINAGDGSHEHPTQTLCDLYTIRKEHFAPLEGLKIAWV SSVPVINAGDGSHEHPTQTLCDLYTIRKEHFAPLEGLKIAWV SSVPVINAGLSNLLHPCQVLGDLLTVKEKKGRLSNLKLAYV CALINAGSGSLAHPTQALLDLLTLYNHFKGLKGKKIAIV TVPVINALSARYHPTQILADLLTLYNHFKGLKGKKIAIV KVPVWNGLTEKFHPTQLEADLLTIQEIFPNKKFHEIKCA SSVPVINALSARYHPTQLLADLLTLYNHFKGLKGKKIAIV KVPVWNGLTEKFHPTQLEADLLTIGEIFPNKKFHEIKCA SSVPVINALSDKYHPTQLLADLMALHEYYCHKKNRKVAWI ARIPVINAGNGLDEHPTQALLDLYTIREKFEGKKYVIMWAY PVSIINAGNGLDEHPTQALLDLYTIREKFEGKKYVIMWAY TIPVNAGNGLTDTDHPTQLLADLWTIREVFSDISGRKFAYV SSVPVINALSDKYHPTQLLADLYTIREKGKGKIEGLKIAV NAHVINAGNGLDEHPTQALLDLYTIREKGKGKIEGLKIAYL NAGNGLDEHPTQALLADLYTIREKGKGKIEGLKIAYL SSVPVINALSDLYHPTQLLADLYTIREKGKGKIEGLNVVIV SSVPVINALSDLYHPTQLLADLTILYSSEAPLSGLTFSWV AGVPVYNGLTDEWHPTQMLADLTILYSSEAPLSGLTFSWV AGVPVYNGLTDEWHPTQMLADLFTTRERKGRIEGLNVVIV RIPLINAGNGLDEHPTQALLADLTILYSSEAPLSGLTFSWV NAHVINAGDGQHEHPTQALLADLTILYSSEAPLSGLTFSWV NAHVINAGDGQHEHPTQALLADLTILYSSEAPLSGLTFSWV NAHVINAGDGGVLTLTLTYLA
UniRef90_UPI000406F680 UniRef90_E5CUK1 UniRef90_V6S2D4 UniRef90_J0LKG7 UniRef90_B4VIF9	ATVPVLNLESATGHPLQALTDALTLQEFNQAKKPKIVLSWNIPMINAGDGTNEHPTQALLDLYTMTKELGGLDNKIIGIGASVPVISLEGATEHPLQAVADILTISEFKTKKRPKVVLTWTGVPIVSLESATRHPLQSLADLVTIKEQATAGKKPKVVLSNVGLLNAGDGQHEHPSQALLDLFTIYPRLKLLADKKIALV
UniRef90_54VIF9 UniRef90_D5BG00 UniRef90_X8J6J9 UniRef90_K3YN21 UniRef90_UPl00042879CE	S P V P I I N A L S S L WH P T Q I L A D V L T L H E H A H P L R P L T V T W L D L P I I N A G D G P G Q H P T Q A L L D V Y T I K R E I G T L D G L K L G L V
UniRef90_J3CC33 UniRef90_UPI00035C548C UniRef90_X1HBL6 UniRef90_X1SHH3	KKVPVISLESATRHPLQSLAD <mark>C</mark> ITITENWNKEQKPK <u>VVLT</u> AGVPVISLESATLHPLQSLTDIITIKESNAPLEMKD <u>KPKV</u> SS <u>VPVI</u> NALSDLEHPQQVLSDLLTIYEKKGRLAGLTLAFI QHPTQALLDLYTIRKEKGVLGGHTITFL
UniRef90_C7PM52 UniRef90_S2D464	A GVPVVSLESATEH PEQSLEDVITI KEQWQQPRRPKVVIMT SGVPVI SLESAIRH PLQSLADMVTI QENWNEKRKPKVVLT

220 A A L

180 MO NOT THE REPORT OF THE REPO UniRef90_K2K2G7 UniRef90_I4BXG1 UniRef90_D1Y0V9 UniRef90_D1Y0V9
UniRef90_W0BBM4
UniRef90_D4YGW3
UniRef90_J9YZH1
UniRef90_L8DIK6
UniRef90_L8DIK6
UniRef90_B3EL97
UniRef90_A0A023CWF3
UniRef90_G8BY04
UniRef90_UP100036AEC00
UniRef90_N1W9P9
UniRef90_A9BIT6
UniRef90_UP100036C0536
UniRef90_UP100040A9C4B
UniRef90_UP100040A9C4B UniRef90_K2CBP7 UniRef90_Q7VDV6 UniRef90_Q1AS69 UniRef90_G3B1N4 UniRef90_Q1AS69
UniRef90_G3B1N4
UniRef90_E8W121
UniRef90_L8FQ19
UniRef90_A3UJX1
UniRef90_C0QUQ3
UniRef90_J7M5M5
UniRef90_J7M5M5
UniRef90_UP10003711F75
UniRef90_UP10003870F10
UniRef90_UP10003870F10
UniRef90_UP100036B48B1
UniRef90_UP100036B48B1
UniRef90_UP100036B48B4
UniRef90_UP100035F8B38
UniRef90_UP100035F8B38 UniRef90_G8S700 UniRef90_F3P796 UniRef90_Q83GQ3 UniRef90_W0JE42 UniRef90_P14995 UniRef90_UP1000380A05B UniRef90_P14995
UniRef90_UPI000380A05B
UniRef90_UPI000413324E
UniRef90_UPI000413324E
UniRef90_A5GT19
UniRef90_A5GT19
UniRef90_C1F8V3
UniRef90_V5I621
UniRef90_G0S045
UniRef90_C5FF11
UniRef90_E7G0C8
UniRef90_E7G0C8
UniRef90_E7G0C8
UniRef90_E7G0C8
UniRef90_UPI0003740CE8
UniRef90_UPI0003740CE8
UniRef90_UPI0003740CE8
UniRef90_UPI000465428A
UniRef90_UPI000465428A UniRef90_V6S2D4 UniRef90_J0LKG7 UniRef90_B4VIF9 UniRef90_D5BG00 UniRef90_X8J6J9 UniRef90_K3YN21 UniRef90_K3YN21 UniRef90_UPI00042879CE UniRef90_J3CC33 UniRef90_UPI00035C548C UniRef90_X1HBL6 UniRef90_X1SHH3 UniRef90_C7PM52

UniRef90_S2D464

```
UniRef90_K2K2G7
UniRef90_I4BXG1
UniRef90_D1Y0V9
UniRef90_D1Y0V9
UniRef90_D4YGW3
UniRef90_D9YZH1
UniRef90_W6WMN7
UniRef90_L8DIK6
UniRef90_B3EL97
UniRef90_A0A023CWF3
UniRef90_G8BY04
UniRef90_UPI00036AEC00
UniRef90_N1W9P9
UniRef90_A9BIT6
UniRef90_UPI00036C0536
UniRef90_UPI00036C0536
UniRef90_UPI00040A9C4B
UniRef90_UPI00040A9C4B
UniRef90_UPI00040A9C4B
UniRef90_Q7VDV6
UniRef90_Q7VDV6
UniRef90_Q1AS69
 UniRef90_Q1AS69
UniRef90_G3B1N4
  UniRef90_E8W121
 UniRef90_L8FQ19
UniRef90_A3UJX1
UniRef90_C0QUQ3
UniRef90_C0QUQ3
UniRef90_C9YK62
UniRef90_J7M5M5
UniRef90_C4YB13
UniRef90_UPI0003711F75
UniRef90_UPI0003870F10
UniRef90_UPI0003870F10
UniRef90_UPI00036848B1
UniRef90_UPI0003680884
UniRef90_UPI00035F8B38
UniRef90_C6V4Z6
UniRef90_R6GUH5
UniRef90_W2SCS6
UniRef90_W9EFF1
UniRef90_B0TL86
UniRef90_J3MRJ8
UniRef90_J5KJR4
UniRef90_G8S700
UniRef90_F3P796
UniRef90_Q83GQ3
UniRef90_W0JE42
UniRef90_P14995
UniRef90_UP1000380A05B
UniRef90_P14995
UniRef90_UPI000380A05B
UniRef90_UPI000413324E
UniRef90_UPI000413324E
UniRef90_A5GT19
UniRef90_A5GT19
UniRef90_C1F8V3
UniRef90_V5I621
UniRef90_G0S045
UniRef90_C5FF11
UniRef90_E7G0C8
UniRef90_E7G0C8
UniRef90_E7G0C8
UniRef90_E7G0C8
UniRef90_UPI0003740CE8
UniRef90_UPI0003740CE8
UniRef90_UPI0003740CE8
UniRef90_UPI000465428A
                                                                                                                                                                       N G V R S P G A L I Q T Y S P E E A V K K A D V I V T D T W V S M G Q E E E Q R D A K K I S S R I E I L Q D P K E A V D G A D V I Y T D V W T S M G F E K E S E T H N L N E A L K E V D I V M C L R T Q T E R H S L Q T Y G T M Q D G G Q V S W S N D P A E A V K D A D I I V T D T W I S M G D E A Q K E F Y Q D H T S N I I C T E N I Q Q G V K N V D F I Y T D V W V S M G E S K E T W D A A K T G A T V K F T T K P E D A I K D C D V I V T D T W I S M G Q E E E K K Q A R E N G G S L E I T H D L K E A L T G A H V V F P R S W A S Y A C R E L E L
                                                                                                                                                                   QARENGGSLEITH DLKEALTGAHVVFPRSWASYACRELEL

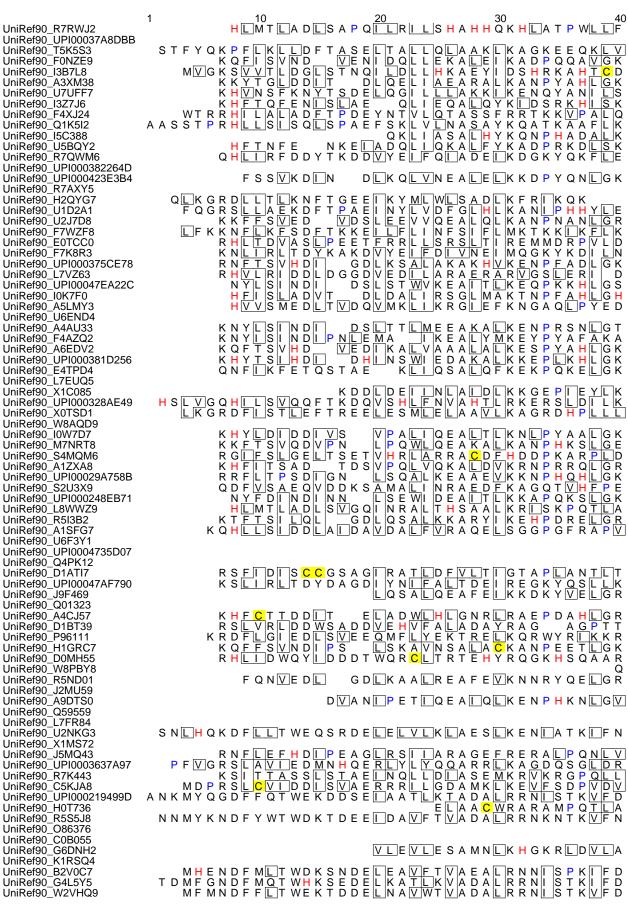
ELEEAGLKLRVVHELDPLLPELD
VVYINALAWVGDTF
KAAREIASKTITTDPRAAAKDASVVYTDVWMSMGDPEEEK
LEEQGILDKVLFTSSPEAVKDADVIVTDTWISMGQEDEKT
RARETGARITLTEEVPEGVRGADFVATDVWVSM
GAK
ISHDLDAALAEADVVNMLRVQHERMTSQLF
QLEEAGVKVSIGHDLNAVLPELDVVVNINSLAWVGESFETY
FAKYSPECKFIETDDINAIKGVDVITTENWGFFTDWLPGL
LINSSPGKLSETTVPEEAIKNADILVTDTWISMGQEKQKR
ALAKNKTQVSIJQDAQAATEGANDILVTDTWISMGQEKQKR
ALAKNKTQVSIJQDAQAATEGANDILVTDTWISMGQESQNR
LDPKIRKDVKVEYNQEKAFENADFILYVKNWSSYEDYGQVK
LLRNT NYSIVHNVERILEQADILDLIPFELPDFNSAYS
KSK
IIHDQEEAFKDADFILYAKNWSNYNDYGQIT
LAEEFTKGAQVLHNQDEALKDADFILYAKNWSNYNDYGQIT
LSNRVLNDTKVYHNQDEALKDADFVYVKNWSSYEKYGEVL
VKELGCDKNIIWTDNPYAVKGADVVVVTDTWISMGQEKAQR
YLNSKGVEWEESSDLLEVASKCDVIYVGKNWSSYQHYGGVL
UKELGCDKNIIWTDNPYAVKGADVVVVTDTWISMGQEKAQR
YLNSKGVEWEESSDLLEVASKCDVIYVGKNWSSYQHYGGVL
LOKNFTKGATIIHNQDEALKDADFVYVKNWSSYQHYGGVL
LOKNFTKGATIIHNQDEALKDADFVYVKNWSSYQHYGGVL
LOKNFTKGATIIHNQDEALKDADFVYVKNWSSYQHYGGVL
LOKNFTKGATIIHNQDEALKDADFVYVKNWSSYQHYGGVL
LDKNFTKGATIIHNQDEALKDADFVYVKNWSSYQHYGGVL
LDKNFTKGATIIHNQDEALKDADFVYVKNWSSYDDEYAAMP
LADKFTKGATIIHNQDEALKDADFVYVKNWSSYNDYGKMH
 UniRef90_V6S2D4
UniRef90_J0LKG7
UniRef90_B4VIF9
  UniRef90_D5BG00
 UniRef90_X8J6J9
UniRef90_K3YN21
 UniRef90_UPI00042879CE
UniRef90_J3CC33
UniRef90_UPI00035C548C
 UniRef90_X1HBL6
UniRef90_X1SHH3
UniRef90_C7PM52
                                                                                                                                                                                                                                            GAELEETEDVKKALSVSDLVYVTRVQRERFSGNARIEYNQEKALEGADFVYVKNWSSYKDTLGAKLELDQEKALEGADFVYVKNW SAF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ENPEY
YGKIT
NDYGK
```

LDPSF

UniRef90_S2D464

	250 260 270 280
UniRef90_K2K2G7 UniRef90_I4BXG1	MQDFAPFQVNTALMQQLAKAFLH <mark>C</mark> LPAQRGREVTANVLDG LEANKHWK <mark>C</mark> TEK <u>MM</u> SLADPD <u>VMY</u> MHPADRK <u>N</u> EVEDSV <u>L</u> DG
UniRef90_D1Y0V9 UniRef90_W0BBM4	PSYHARYGATEELLACARPGAVVMHPAPRGVEVASSVADG ETYRRDYALTRDTLAYAKTDAIVMHPGPMGIEIDNDVADG
UniRef90_D4YGW3	A D <u>Y H</u> E Q F G L T R E <u>R</u> F Q T M K D H A I <u>I </u> M H P <u>A P V N V </u> E I A D E L I E <mark>C</mark>
UniRef90_J9YZH1 UniRef90_W6WMN7	ESLLKRFMVDQELMNKTSDTAVFMHCLPLGSEVSNDVLKG INALLPYQVNMNLMKATKPRAKFMHCLPAFHNVTEEVFES
UniRef90_L8DIK6	PSAREYYGILISQRRILIDILLIPEHAIVVLIHPGPMGMEII IASSIVIADS
UniRef90_B3EL97 UniRef90_A0A023CWF3	HFGLTDERLEKIRKHMLVLHPGPINREISSNVADY TEYHTEYGLTRKRYTHMKKNALIMHPGPRGVELASELVES
UniRef90_G8BY04 UniRef90_UPI00036AEC00	IKQFKGFQINSQLAALAAPNYKFMH <mark>C</mark> LPRHHEETDEVFYS EAYNSQFGLTQARYDLLKDNAIVMHPAPVNVEIDDHLVEA
UniRef90_N1W9P9	I QLMMPYQVNAELLKNTKAKVMHDMPI HAGYEI TREMVES
UniRef90_A9BIT6 UniRef90_UPI00036C0536	LEKHKDWICDERRMSLADKDVLYMHAMPRGKEVTDSVIDG ASKLTNWICTEERMKRTNDGFVHPMPVDRGKEVTDEVASG LEQMLPFQLNKANLRGHTPYIMHDMPVHPGFEIEEELIES
UniRef90_E0IA92 UniRef90_UPI00040A9C4B	LEQMLPFQLNKANLRGHTPYIMHDMPVHPGFEIEEELIES DRVT LNRDLLRRHSGHDITVMHPLPRKGEVDTDLDDT
UniRef90_K2CBP7	A II IG A Y QIVIN R Q F IL IK N A K A R IL V I IM H A M P A H P G R E II IT IL IDIVIM R S
UniRef90_Q7VDV6 UniRef90_Q1AS69	DKYHNEYGITHESLKW <mark>C</mark> GKHVPVLHPGPRGIEMSSELLED <u>K</u> KMMDEYYVRLETLEKVRELLRVTHTLPRRPE <u>M</u> DLRIDDT
UniRef90_G3B1N4 UniRef90_E8W121	LKQFANFQLNQDMLKKASDNWKFMH <mark>C</mark> LPRHEEVHDDVFYS WR <u>EV</u> FAPFQVTEKTMASSPDAVFMHPAHRGEEVTADVLDG
UniRef90_L8FQ19	K RIL IE A F A G Y QII IA K R G G A N D G W K F M H CIL IP R H E E IV IA D E IV IF Y S
UniRef90_A3UJX1 UniRef90_C0QUQ3	PSDREYWGLNEARLERAAPDCLVMHPGPMGVEIDGALADD STLNEYYGLNQERVNLLKEDAVIMHPGPRGIEMQSELVYG
UniRef90_R9YK62 UniRef90_J7M5M5	K S K I I O M W K I V I S F F A M A A A K P D A II I F F H C I I I P I I G F F I V I S O S I V I I F G
UniRef90_C4YB13	LKQFAGYQNTQK <u>M</u> LE <u>E</u> GQSEW <u>VFMHC</u> LPRH <u>K</u> E <u>E</u> ADEV <u>F</u> YS
UniRef90_S0ANR9 UniRef90_UPI0003711F75	REIVIFAPFQIVIREEILIWQRSPKAIVIFMHDPAHRGEEIVITAEIVLIDG
UniRef90_B4SCQ7 UniRef90_UPI0003870F10	FACEGOEIL I TPHILIMTRAKERMIV VIMHPILIPRIVIN EILISA
UniRef90_G8YQ43 UniRef90_UPI00036B48B1	MKQFDGFRITKELISKAADDWKFMHCLPRHEEVEDAVFYS SEKVAPFAVTENLMSLTNKDSIFMHCLPRGEEVEASVIDG ADYRGRYRLNQALYRFCEPNTVIMHPLPRDSRADANELDN
UniRef90_UPI0003680884	ADYRGRYRLNQALYRFCEPNTVIMHPLPRDSRADANELDN
UniRef90_Q0ID96 UniRef90_R1GVK3	DRYHRDFGLIHERLIRR <mark>C</mark> AFSG <u>PVL</u> HPGPRHEEVISDEVEYS
UniRef90_UPI00035F8B38 UniRef90_N9VDL7	A PYRVTADLLAAAGPDPIFLHPLRRGAEVEAAVVDG IQELGAFQVDMAMMKAAKESVIFLHCLPAFHDDTDEVFQS AGTTAPFCLDENILKDLSPDVLIMHPGPLHRNCSNLVLDD
UniRef90_C6V4Z8	A G T T A P F C L D E N I L K D L S P D V L I M H P G P I H R N C S N V L D D
UniRef90_R6GUH5 UniRef90_W2SCS6	FQRIVIEIVIE HDYQEILIMSILIGAILIGCKEILIHCILIPRGEDIVILDEIVIADS
UniRef90_W9EFF1 UniRef90_B0TL86	LKAFAGYQVTEELAMRAKEDWRFMHCMPRHEEVSDEVFYG LDLLRPYQVNSALLEKTKDQLIFMHCLPAFHDVTDTVFRS EAKFKPYQVNSQLMQKAAKHFMHCLPAYREVEVTAEVVDG
UniRef90_J3MRJ8	E A A R G K Y II V ID K K IV L ID IV L IP K H A IV I IM H P IL IP R IL ID E II IT IV ID IV ID S D
UniRef90_J5KJR4 UniRef90_G8S700	IRDQYKHFI VDEKKMSYTNNALFSH <mark>C</mark> LPRNIKATDAVMDS ELFAPFQADDAVMAATGAGVFLHDLPAHRGEEVTAELLDG
UniRef90_F3P796 UniRef90_Q83GQ3	F K M D R Y F V R Y E T L K D E A E K G H K V Y H T L P R R K E M D L R I D N T A _ V T G C R L T R E V L D D C K K D V I V L H P L P R D S R P D T D L D S Y
UniRef90_W0JE42 UniRef90_P14995	PSIGE YNKEEGIKEPIGAYIMHPGPVNRDVEIDSTVYID
UniRef90_UPI000380A05B	
UniRef90_UPI000413324E UniRef90_I3TGC4	ETYHRRWGLTEAREQRMQPHAVIMHPAPRGVEIADSLVEC YEKYK <u>N</u> WKVTRELMDLMDKRGVL <u>M</u> HPIFRGYE <u>AD</u> EDV <u>I</u> DD
UniRef90_A5GT19 UniRef90_A3WK97	GDGFEVHGSNFQLSSDTKEGSIVLHPLARGREI <mark>C</mark> SSLDET TFNTYGKSFSLDAQSPLKEDAII <u>LHPL</u> ARG <u>P</u> ELATDLDHT
UniRef90_C1F8V3	DDYKQHYQANSERWAACAPKALIMHPGPRGLEITSEVADG KRMKAFEGFQLAKRAGAKEGWKFMHCLPRHEEVSDEVFYS
UniRef90_V5I621 UniRef90_G0S045	LKAFAGYQVTNELRGGAKPDWKFMHCLPRHEEVSDEVFYS
UniRef90_X0XUA3 UniRef90_C5FF11	LKSFEGFQVTSELASRANKGWRFMHCLPRHEEVSDEVFYG
UniRef90_X1CFG2	
UniRef90_E7G0C8 UniRef90_R9P6N7	GSLQDYYHYCLKASMLQDKEIIILHPGPVHHNIDIELLND QRLRDFAGFQMAKQGGAKPDWKFMHCLPRGDEVDDEVFYS
UniRef90_G2LPM0 UniRef90_I1BPG0	K Q K I Q L L H N Y Q M L D M T N N P N V K V L H C L P N G V E I T N D V F Q K K R L K D F K G Y Q V A T K G G A K P D W I F M H C L P R K E E V D D E V F Y S H R K H V D W R L T K D L V E L M D R K G I V T H P V F R G Q E A D D E V M D G
UniRef90_UPI0003740CE8 UniRef90_X0ZQL1	HRKHVDWRLTKDLVELMDRKGLVTHPVFRGQEADDEVMDG
UniRef90_D3SBQ0	ESMGEG LKLDRNSPLKKGAVILHPLARGDELSTDLDDT
UniRef90_UPI000465428A UniRef90_I4YH40	KALAPFAVTKOLMŠVŠŠŠDŠI FMHCLPRĢĒEVĒĀEVĪDĢ KRLNDFKGFQVARKGGAKDNWIFMHCLPRKEEVDDHVFYG
UniRef90_B5GUT2 UniRef90_X0Y3F2	P S L Q E Y F G L T K E R L K K A K P D L L V M H P G P R G V E L A S D V A D G
UniRef90_U1K4E0 UniRef90_N2A705	GKSFKL SADSPFKPDAIVLHPLARGEELCTSLDATVRFRPYQVNRELLERSENPDCIVIHMLPSGMEVTDEVFEQLKAFAGYQITNELAKRAKEGWKFMHCLPRHEEVADEVFYSNPLFQPYQINTQLLNIADKDAIVLHCLPRGEEITDEVIEG
UniRef90_G0R862	LKAFAGYQITNELAKRAKEGWKFMHCLPRHEEVADEVFYS
UniRef90_X5JE42 UniRef90_UPI000406F680	N <u>P </u>
UniRef90_E5CUK1 UniRef90_V6S2D4	E E K N WT V D K S K L K H T N N A R V M H C L P V R R N V V I A D D V L D S E K V D N K P Q L P N N L I F N N K N T I P V L S P G P R E D E L S S D T D G M S Q D T S W T V T S E K M Q L T N N A K F M H C L P V R R N Q I V T D A V L D G
UniRef90_J0LKG7	T D G E G WMI T N E K L A L T N N A K V M H C L P V R R G L E L S H E V L D G P S Y H Q R Y G I T R D R L K L C H P G V K I L H P G P R G V E I S S E L M D D
UniRef90_B4VIF9 UniRef90_D5BG00	STDSNWTFSKEKILIAILITNDAKIVIMH <mark>CI</mark> LIPIVIRRNIVVI ISDEIVLIDS
UniRef90_X8J6J9 UniRef90_K3YN21	LKDFHGYQVTEKL <mark>C</mark> KEANPDWKFLHCLPRKSNEDDEVFYG EAARGKYI VDKKVLNVLPKHAVIMHPLPR
UniRef90_UPI00042879CE	T S D P S WMI T E A K M S R T D N G K F M H C L P L R R N M K V A D E V L D G
UniRef90_J3CC33 UniRef90_UPI00035C548C	T S D P S WMI T E A K M S R T D N G K F M H C L P L R R N M K V A D E V L D G E V K E S WML T N E K L A N T N E A K V M H C L P V R R N V E L S D E V M D G S N D A D WML T N E K L K L T N N A K V M H C L P V R R N V E L S D E I L D G
UniRef90_X1HBL6 UniRef90_X1SHH3	
UniRef90_C7PM52	EKVKGVYVINRAMIEKVKKGITILHPLPRVDEISTDVDDY CTDSNWMVTNDKLKGTNQAKVMHCLPVRRNVVIADEVLDG
UniRef90_S2D464	I VSTDDSWMLTEKHFEKAPNGKVMHCLPRNVELSDEI LDG

UniRef90_S2D464



sol5

9 9 8 8 7 7 6 4 2 1 3 6 7 7 6 2 7 86236787777 9 9 9 9 ввв В В ВВ ВВ ВВ В ВВ В В ВВ В В

UniRef90_R7RWJ2	50 60 70 80 NKSLALLFSKRSTRTRVAAETSA <u>VLL</u> GGRAL FLGREDIQ
UniRef90_UPI00037A8DBB UniRef90_T5K5S3	
UniRef90_F0NZE9	GKNTALIFEKDSTRTR <mark>C</mark> SF <u>EVAAYDQG</u> AR <u>VTYL</u> GSSGSQ NKTIGLIFFNPSLRTRLSSLKAAYNLGAN <u>AWVL</u> NAGADSW
UniRef90_I3B7L8 UniRef90_A3XM38	GRVLATLFYEPSTRTRLSFETAMLRLGGKVIGFAGAQLAS RKRLVMLFFNSSLRTRLSFETAMLRLGGKVIGFAGAQLAS RKRLVMLFFNSSLRTRLSTEKAASNLGMDVTVMNFNSDAW GKKLYTLFEKTSNRTYLSFVIGMEELGGKAYNQ KWSD GKRVGCIFLNPSLRTRASTQIAALNLGMEPIIINMDKEGW GHVVANLFFEPSTRTRSSFELAAKRLSADILNFA PGTSS GRTVAMMFSKRSTRTRVSTEAAVALMGGHPM FLGKDDIQ
UniRef90_U7UFF7	GKKLYTLFEKTSNRTYLSFVIGMEELGGKAYNQ KWSD
UniRef90_I3Z7J6 UniRef90_F4XJ24	GKRVGCI FLNPSLRTRASTQI AALNLGMEPI I INMDKEGW GHVVANI FFFPSTRTRSSFFI AAKRI SADI I NFA PGTSS
UniRef90_Q1K5I2	GRTVAMMFSKRSTRTRVSTEAAVALMGGHPM FLGKDDLQ
UniRef90_I5C388 UniRef90 U5BQY2	GKRIGCIFLNPSLRTRASTQIAALNLGMEPIVMNMDKEGW GKRVGCIFLNPSLRTRASTQIAAQNLGMESIVLNMDKEGW GKTVILFFPNSSIRTRVAFEKGIHLLGGQTILFPPEA
UniRef90_R7QWM6	GKT <u>VIL</u> FFPNSSIRTR <u>V</u> AFEKG <u>IH</u> LLGGQT <u>IL</u> FPPEA
UniRef90_UPI000382264D UniRef90_UPI000423E3B4	N K T L G L V F L N P S L R T R L S T Q K A A L N L G M N V M V M N M D K D G W
UniRef90_R7AXY5	
UniRef90_H2QYG7 UniRef90_U1D2A1	GEFALLGGHPCFLTTQDIHLGVNE GKNIALLFAKTSTRTRAAFTTAAIDLGAHP EYLGANDIQ YKTLGLVFLNPSLRTRLSTQKAAMNLGMNVMVMNMDKDGW
UniRef90_U2J7D8 UniRef90 F7WZF8	YKTLGLVFLNPSLRTRLSTQKAAMNLGMNVMVMNMDKDGW
UniRef90_E0TCC0	KKNIALIFEKKSTRTR <mark>C</mark> AFEIAARDQG AYTTYINSKDTH RRALVNLFFEDSTRTLMSFEMAAKRIGAHTLTLPI ANSS GKTVVLFFPNSSIRTRVTFEKGIRLLGGQAVLFPSDT
UniRef90_F7K8R3 UniRef90 UPI000375CE78	GKTVVLFFPNSSIIRTRVTFEKGIIRLLGGQAVLFPSDT
UniRef90_L7VZ63	NKTLLMIFFNSSLRTRLSTQKAALNLGMNVIVLDLNQGAW GSLVSLLFLSPSTRTRLGFELAAAKLGGSAVCLTETRQTG
UniRef90_UPI00047EA22C UniRef90_I0K7F0	DKTI GLLFFNNSLRTRLSTQKAAMNLGMEVI VMNFGSEGW HKTI GLLFFNSSLRTRLSTEKAARNLGLNVMTLNVGSDSW
UniRef90_A5LMY3	HKTI GLLFFNSSLRTRLSTEKAARNLGLNVMTLNVGSDSW HPI VSNLFFEDSTRTHKSFEVAEIKLGLERLDF DVKTSS
UniRef90_U6END4 UniRef90_A4AU33	NKTIGLLFFNNSLRTRLSTQKAAMNLGLE <u>VIVM</u> NFGSEGW
UniRef90_F4AZQ2 UniRef90_A6EDV2	NKTIGLLFFNNSLRTRLSTQKAAMNLGLEVIVMNFGSEGWGKQLGLLFFNSSLRTRLSTEKAAKNLGMETMTLNVNSDSWNKTIGLVFLNPSLRTRLSTQKAALNLGMNVMVMNMDKEGW
UniRef90_UPI000381D256	NKTLGLIFENSSLRTRUSTQKAALINLGMNPIVMNWSGDAW ELRUGLIFUNPSLRTRVSTQLAAKNLGMEALVFNIDKEGW
UniRef90_E4TPD4 UniRef90_L7EUQ5	ELRIGLIFLN P SLR T RVS T QI A A K NLG M E A I V F N I D K E G W
UniRef90_X1C085	GKTLGMLFEKSSTRTRVSFEVAMTKLGGHSTYL SKNDL
UniRef90_UPI000328AE49 UniRef90_X0TSD1	GKTLGMIFEKSSTRTRVSFEVAMTKLGGHSIYL SKNDIGKVMASMFYEVSTRTSSSFAAAMARLGGAVLGFSEAT SRKTLFIIFYNKSLRTRNSFEAGMTQLGGHKIYTPATEGEE
UniRef90_W8AQD9	
UniRef90_I0W7D7 UniRef90_M7NRT8	HRTLGMLFFNSSLRTRLSTQKAAQNLGMNTMVMNLNNDGWNKVLGLVFFNPSLRTRMSMQRAAYNLGMQVMVLNVGQDSW
UniRef90_S4MQM6	GRTIVIGIVI I FTRTSTRTRTAFTAGAII IKII I GGTPIVITFGPDDII I
UniRef90_A1ZXA8 UniRef90_UPI00029A758B	YKTLGLLFFNPSLRTRLSTQKAAQNLGMSVMVMNFDKDGW NKTAVLIFFNSSLRTRLSTQKAATNLGMNVIJLDINKDGW
UniRef90_S2U3X9 UniRef90_UPI000248EB71	PILY A A NL F F E N S T R T H T S F E M A E R K L G L T V I P F D P A H S S D K T I C L L F F N N S L R T R L S T Q K A A M N L G M N V M V M N F G A E G W
UniRef90_L8WWZ9	NKTILIAILLIESKRSTRTRIVIAAETSTIVLLIGGRAILLEILIGREDILIO
UniRef90_R5I3B2 UniRef90_A1SFG7	NRTLLMVFFNSSLRTRLSTQKAALNLGMNVIVLDINQGAW RHAALLFFETSLRTRTGFVSAAHRLGWPTPLEVLERRAS
UniRef90_U6F3Y1	KITA ALLI TETOLIKTKI OT WOAATIKLOWI IT ILLULLIKKA O
UniRef90_UPI0004735D07 UniRef90 Q4PK12	
UniRef90_D1ATI7	DKNVAMF <mark>C</mark> QQSSTRTRISPEVGINHMGGRATV PREGEMQ RKSV <u>LLFC</u> PDSSIRTRVTFEKG <u>LYL</u> LGGQ <u>S</u> IL <u>FPM</u> ET
UniRef90_UPI00047AF790 UniRef90_J9F469	N K T L M M I F F N S S L R T R L S T Q K A A L N L G M N V V L D I N Q G A W
UniRef90_Q01323	S T R T R C A F F IV IA A R D Q G A GIV IT Y II IF P S A S
UniRef90_A4CJ57 UniRef90_D1BT39	GKTLCLLFFNNSLRTRLSTQKAAQLLGMEVMVMNFGSEGWDGCAVMFFPSTSLRTRVTFERGAHLIGLQPVLFPPETNVGIYIVFVEPSTRTKESFLNAAKFHSGPNVNVFDSEHSS
UniRef90_P96111 UniRef90_H1GRC7	NVGI YI VFVEPSTRTKESFI NAAKFHSGPNVNVFDSEHSS
UniRef90_D0MH55	HKTI GLVFLNPSLRTRMSTQKAAAANLGMNVMVMNMTSDGWHRSLGLLFFNPSLRTRTSMELAAVQLGAHATTLVAGQGTWNQTLGLVFFNPSLRTRISSQKAAFNLGCKTWLLNINSDSW
UniRef90_W8PBY8 UniRef90_R5ND01	N Q T G V F N P S L R T R L S Q K A F N L G C K T W L N N S D S W N K T A L L L F F N N S L R T R L S T Q K A M N L G M V L D V N Q G A W N K T A L L L T T T T T T T
UniRef90_J2MU59	
UniRef90_A9DTS0 UniRef90_Q59559	DKTLLMLFFNASLRTRLSTEKAAKNLGMNVMLLNVNDTWM STRTR <mark>C</mark> AFEVAAADLGAS <mark>C</mark> TYLGPAG S
UniRef90_L7FR84	S GLGI STFRDNSTRTRFSYA SALNLLGLA QQDLDEGK S
UniRef90_U2NKG3 UniRef90_X1MS72	
UniRef90_J5MQ43 UniRef90_UPI0003637A97	GRRVALIADDDGWRNTSAFDLGLQAMGG <mark>LCVHV</mark> PLGFS FR <u>LFYE</u> VFLEDS <u>TR</u> TRES <u>FKNAAHFH</u> RMKF <u>S</u> EFN A <u>E</u> SS
UniRef90_R7K443	GKSLAVLDFEGDLLAANTLKLA <mark>C</mark> EYMSG ISF <mark>C</mark> FSD <mark>C</mark> KN RR <mark>CVYL</mark> IFMENSTRTKESFLNAAKF <u>H</u> DVK VNIFDCQTSS
UniRef90_C5KJA8 UniRef90_UPI000219499D	GKSLAVLDFEGDLLAANTLKLACEYMSG ISFCFSDCKNRRCVYLIFMENSTRTKESFLNAAKFHDVK VNIFDCQTSSSGLGISIFRDNSTRTRFSFSSACNMLGLEIQDLDESK S
UniRef90_H0T736	GR <u>RII A LVV</u> DDSGWRNTTAFD L G L QAMGG L <mark>C V HTP</mark> L R
UniRef90_R5S5J8 UniRef90_086376	S GLGISLFRDNSTRTRFSFASA <mark>C</mark> NLLGLEEQVLD EKVS S
UniRef90_C0B055	G S KVMLLQELNEPFLNMAVSKAATLLGAYDVNIVDNLAW
UniRef90_G6DNH2 UniRef90_K1RSQ4	
UniRef90_B2V0C7 UniRef90_G4L5Y5	S GL G I S L F R D N S T R T R F S F A S A C N L L G L E V Q D L D E G K S S G L G V S I F R D N S T R T R F S F A S A C N M L G L A V Q D L D E K K Q L S
UniRef90_W2VHQ9	S GLGUSLFRDNSTRTRFSFASACNMLGLAVQDLDEGK S GLGUSLFRDNSTRTRFSFASACNLLGLEVQDLDEGK

	90 100 110	120
UniRef90_R7RWJ2		<u>R</u> Y
UniRef90_UPI00037A8DBB UniRef90_T5K5S3	NG HKESIKDTARVLGRMFDGIQYRGYGGETÜNETINW NGDTQEHLKEAIQVMŞAY <mark>C</mark> DVLGVRTFDYŞEA <u>MF</u> NKVK	<u>E Y</u>
UniRef90_F0NZE9 UniRef90_I3B7L8	N G D T Q E	ΔĒ
UniRef90_I3B726 UniRef90_A3XM38	VTKGESI ADTLKTVSNYVDVVAIRHPKEGAALVASRA KLEFEDHVKEAAKVISQYGDVIAVRAFDESEYVISNFV SNFTIGDTMSEVQYVCRNVDCIMGRFKK AETTAAFM	ΚΥ
UniRef90_U7UFF7	SNFTIGDTMSEVQYVCRNVDCIMGRFKK AETTAAFM	NS
UniRef90_I3Z7J6 UniRef90_F4XJ24	ALEMQEHIK DAAAVLGTYFDVLAIRAFDIEDFVLNQFK LSKGETILDTAKTYLAMGTNMMVIRHRQAGVPQEMNRL	G V
UniRef90_Q1K5I2		$R\overline{D}$
UniRef90_I5C388 UniRef90_U5BQY2	ALEMREHIK DAAAVLGTYFDVLAIRAFPSTDFVLHQFI ALEMQDHIK D <u>AAAV</u> LGTYFD <u>VLAI</u> RAF <u>PSED</u> F <u>VFN</u> QF <u>V</u>	K Y K Y
UniRef90_R7QWM6	LDKREKLEDVIRYLNNWADAAVIRHKNIAIMDEIAQY	AS
UniRef90_UPI000382264D UniRef90_UPI000423E3B4	A G T T VE HUR E A A A V M G E Y C D L L G L R S F D Y S E N L F R K F V	KF
UniRef90_R7AXY5	M E D T A R V L S R Y I D G I M I R T F A Q K E V E D L A E Y	G
UniRef90_H2QYG7 UniRef90_U1D2A1	S MDTARVLSSMTDAV ARVYKQSDL DTLA	K E K Y
UniRef90_U2J7D8	AGTTVEHIREAAAVMGEY <mark>C</mark> DILGLRSFDYNEDLFNKFI	ŔĖ
UniRef90_F7WZF8	LG YKESIEDTAKVLG <mark>C</mark> MYDGIQYRGYNDKTLHLL A VKKGESLEDTVLTM <mark>C</mark> AQGADYLVIRARDQG <u>AIDVI</u> EQE	ΚY
UniRef90_E0TCC0 UniRef90_F7K8R3	I D K K E N S K DIV I IG Y II IN N W A D IV I V V IR H K D II IT MII IE T M S	OΥ
UniRef90_UPI000375CE78	DGDKPEHI LEAI PVMGSYCDVI GVRSFAQNEVI LNQFI PGLPPETLGDTLRVCSGMSDVVVVR ADSDVMESVVN ALEYADHI KEAAQVI SQYCDI I AI RAFDEAEEV LNGFK	QY
UniRef90_L7VZ63 UniRef90_UPI00047EA22C	ALIEYADHI KEAAQVI SQY <mark>C</mark> DI I AII RAFDEAEEV LNGFK	T Y
UniRef90_I0K7F0	NGDKAEHVREAAAVMGRYCDILAIRAFDYKEQVMTQFA VNKGETLYDTILTLSALGVDVCVIRHPEVDYYREIASP DTAKVLGSMFDGIEFRGFKQSDVEIL A	R E
UniRef90_A5LMY3 UniRef90_U6END4	DTAKVLIGSMFDGILEFRGFKQSDVEILL	K D
UniRef90_A4AU33	ALEYGDHIKEAAQVISQYCDIIGIRAFDESEVVLNGFK QLEFEDHIKEAAQVLSQYCDVLAVRAFDELEVVLSAFM AGGTVEHIREAAAVMGQYCDILGLRSFDYSEDFFNKFL	ΚΥ
UniRef90_F4AZQ2 UniRef90_A6EDV2	A G G T V F HILLR F A A A V M G O Y C DILLIGIL R S F D Y S F D F F N K F I	QY SY
UniRef90_UPI000381D256	NGNIAEHIIKEAAAIVVISQY <mark>C</mark> DIIIAIVIRAEDESEQIVIMSAEK	ΚY
UniRef90_E4TPD4 UniRef90_L7EUQ5	ALEFEEHIKEAASVLGSYFDILAIRAFDMADKVIHQFI	K Y WI
UniRef90_X1C085	QLGRGETTEDTATVLSRY <mark>C</mark> DLLMYRAMKSEDMKEL A	ΚŸ
UniRef90_UPI000328AE49 UniRef90_X0TSD1	S V Q K G E S L A D S V Q T M S C Y A D V V V L R H P Q P G A V E L A A K K A Y S T E R V S D V A R V L A R M G D G L A L R M Y G N G N K Y L R E F A	H C
UniRef90_W8AQD9		
UniRef90_I0W7D7	QGNTAEHIKEAAAVISQYVDIIALRAFDEAEQIIKSFQ	K F
UniRef90_M7NRT8 UniRef90_S4MQM6	QGTAQEHVKEAVPVMAQYCDIIGVRSFDYAEGVLNKFLQTNTGESLTDTGRVLGSMLDLLVARTSGPLHELRTLSGQGGNAEHVKEAAAVIGQYCDIVGLRTFDYEEKVIHQFRQGDKPEHIREAVPVIGQYCDIIGVRSFDYSEKILNQFI	SG
UniRef90_A1ZXA8	QGGNAEHVKEAAAVIGQY <mark>C</mark> DIVGLRTFDYEEKVIHQFR	QΥ
UniRef90_UPI00029A758B UniRef90 S2U3X9	- IV IS K (3 E T II E T) T I K T I (3 A II (3 IV N II A IV M R H A () I) (3 Y Y N I) II T (3 A	VV P
UniRef90_UPI000248EB71	<u>Q L E</u> YGDH VI EA <u>A</u> Q VV SQY <mark>C</mark> D <u>I</u> A <u>I</u> R <u>A</u> FDYQE <u>Q VL </u> SAF <u>I</u>	ΚΥ
UniRef90_L8WWZ9 UniRef90_R5I3B2	- D G D R P E HIL L IE A II IPIV M G C Y C DIL L IGIV R S E D Y R E L II L IN O E II I	\aleph
UniRef90_A1SFG7	ASSMPESLRDTVGVVSAYFDTLTVRH DGALADVVPLV EDTAKVLGSMFDGLEYRGFAQKDVEDLAKY	ŔQ
UniRef90_U6F3Y1 UniRef90 UPI0004735D07	E D I A K V L G S M F D G [E Y R G F A Q K D V] E D L A K Y	5
UniRef90_Q4PK12		_
UniRef90_D1ATI7 UniRef90_UPI00047AF790	LHGGDESVRDTAIIALSQ <mark>C</mark> VDRIVLRAASHTVLLEMESH	S D C
UniRef90_J9F469	LDKKEDIRDVCGYLNNWADLVIVRHKDIHLLEQMS DGDKPEHLLEALPVMGCYCDLIGVRSFAQNEVILNQFI	QΫ́
UniRef90_Q01323 UniRef90_A4CJ57	QII GHKESII KD I ARIV LGRMFDGII EYRGFGQD <u>IV VEEL</u> AKY.	A O H
UniRef90_D1BT39	LDKPEDPRDVVRYLANWADVVVARHPD TAVLERLAFNKQESYTDTFSMLTGYSDYSIFVVRTRLEGVCRSRNGAGNTAEHIREAAAVMGEYCDLLGLRSFDYSEELFSKFAQGPAAEHIREAIGVLSEYYDALGVRVFASQTVLLRAIV	ÃV
UniRef90_P96111 UniRef90_H1GRC7	FNKQESYTDTFSMLTGYSDYSI FVVRTRLEGV <mark>C</mark> RSRNG	ΪĒ
UniRef90_D0MH55	QGPAAEHI REALGVUSEYYDALGVRVFASQTVLLRAIV	RA
UniRef90_W8PBY8 UniRef90_R5ND01	MNYTQEHLKEAI GVMSLYCDLLAVRTFDYKELLKKI I DGDKSEHLLEALPVMGCYCDLIGVRSFDYEEKLLNQFL	ΚY
UniRef90_K3ND01 UniRef90_J2MU59		
UniRef90_A9DTS0	NLNKSEHVIE AAQVISQYADIIAVRAFPSLTDKEKDTS	E W
UniRef90_Q59559 UniRef90_L7FR84	N F G K K E S I E D T A Q V L G R F Y D G I E F R G F K Q S D V D A L V K Y M S D A A S M I S G Y A D L A V V R H P I V D P V I Q F S R H	S R
UniRef90_U2NKG3	MSDAASMISGYAD <u>LAVVRHPIVDPVIQFSRH</u> QLAHGETVRETANMLSF <mark>C</mark> ADALMREVGAALDEGFEKGV	LP
UniRef90_X1MS72 UniRef90_J5MQ43	GREEAGDLAGYLGNWFDMLVIRTKELSTL KAVA	АА
UniRef90 UPI0003637A97	S F N K S E S Y L D T F S N L V G Y G N R II F V V E E R L Q E Y R R R H S L	P W
UniRef90_R7K443 UniRef90_C5KJA8	VGESVAR ARALGANFVALLNSDGKSVKQAA FLKSETITDTIKMLIGYSPAGRTUFVIRSKLEGVCRWL	E F
UniRef90_UPI000219499D	QII IA H G E T IV IR E T A T MII IS F M A D IV I IM H E IV V ID A IV IK E S N A D G II	L_E
UniRef90_H0T736 UniRef90_R5S5J8	L N A T E A V E D L A A Y L D N W F D A V V C R T P E L E L Y A L A Q I A H G E T V R E T A N M V S F M A D V I G L R D D M F I G E G H K Y Q K	H W T F
UniRef90_O86376	Q G	A
UniRef90_C0B055 UniRef90_G6DNH2	MLGRFYDGIEYRGFDQSLVEEL A DQDYMGRVFSFMADAIFVATMTH MCVQRFA	ΑK
UniRef90_K1RSQ4	A D T A R V V S C Y S N I I A M R H P K E G A P L R A S M F	SK
UniRef90_B2V0C7 UniRef90_G4L5Y5	QVAHGETVKETANMISFMADVIMFIGKGHTYMQNVSEY HGETVRETATMISFMADVIDAYMREVIESVKESQEDGI	V K
UniRef90_W2VHQ9	QIAHGETVRETANMISFMADVIMHEVADSVEAGYKDGV	ĹĒ

	130	140	150 160
UniRef90_R7RWJ2 UniRef90_UPI00037A8DBB UniRef90_J5K5S3 UniRef90_F0NZE9 UniRef90_I3B7L8 UniRef90_A3XM38 UniRef90_Q1K5I2 UniRef90_Q1K5I2 UniRef90_G1K5I2 UniRef90_USBQY2 UniRef90_USBQY2 UniRef90_UPI000382264D UniRef90_UPI000322G UniRef90_UDIDA1 UniRef90_U2J7D8 UniRef90_U2J7D8 UniRef90_F7K8R3 UniRef90_UPI000375CE78 UniRef90_UPI000375CE78 UniRef90_UPI000375CE78 UniRef90_UPI00047EA22C UniRef90_UPI00047EA22C UniRef90_UPI00047EA22C UniRef90_UPI00047EA22C UniRef90_UPI000381D256 UniRef90_A4AU33 UniRef90_F4AZQ2 UniRef90_UPI000381D256 UniRef90_UPI000328AE49 UniRef90_VTFUQ5 UniRef90_UPI000328AE49 UniRef90_W8AQD9 UniRef90_W8AQD9 UniRef90_W8AQD9 UniRef90_W8AQD9 UniRef90_W8AQD9 UniRef90_W8AQD9 UniRef90_W8AQD9 UniRef90_W8AQD9 UniRef90_UPI00029A758B UniRef90_W8AQD9 UniRef90_UPI00029A758B UniRef90_UPI00029A758B UniRef90_A1ZXA8 UniRef90_UPI00029A758B UniRef90_UPI00029A758B UniRef90_UPI00029A758B UniRef90_UPI00029A758B UniRef90_UPI00029A758B UniRef90_UPI00029A75BD UniRef90_UPI00029A75BD UniRef90_UPI00029A75BD UniRef90_UPI00029A75BD UniRef90_UPI00029A75BD UniRef90_UPI00029A75BD UniRef90_UPI00029A75BD UniRef90_UPI00033BD UniRef90_UPI0003BD UniRef90_UPI00047AF790 UniRef90_UPI00	HETHER HER HER HER HER HER HER HER HER HER	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	L S C L D WL A G K K V T L V V L T WA I HE A F A T L E G M K V V L T WA I Q E N Q L A G K K V V L T WA I Q E N Q L A G K K V V L T WA I Q E N Q L A G K S P K L V L T L S K L R K P K V V L T W A G K K V V L T W A G K S P K L V L T L S K L R K P K V V L T W A G K S P K L V V L S K L R K P K V V L S K L R K P K V V L S K L R E F K G S F D G L K M C Y L L V V V L A L C L S K L R E F K G B T K K D K V V L S W L T E G Y K Y L L V V V L S W L T E G Y K Y L L T V K G R N L T G Y K V V L S W L T E G Y K Y L L T V V L S W L E A F G H L G N R K V V L S W L E A F G H L T F C G D L T T V K D K V V L S W L E A F G H L T L S L T A K C R K P K V V L S W L S E T Y A K K N N P K V V L S W L S E T Y A K K N V S K F P K L T L V V L S W L S E T Y A K K N V S K F P K L T L V V L S W L S E T W K K N V S K F P K V V L S W L S E T W K K D L L S T L T C W L S C G R P K V V L S W L S E T W K K D L L S T L T C W L S C G R P K V V L S W L S E T W K K D L L S T L T C C L S C G R P K V V L S W L S E T W K K D L L S T L T C C L S T L T C C L S T L T C C L S T L T C C C C C C C C C C C C C C C C C

	470 400 400 200
UniRef90_R7RWJ2	EDSRTKGVPHDMLVTLPRLGHKLRVATPPQYGCPEPVWAR
UniRef90_UPI00037A8DBB UniRef90_T5K5S3	G D I L H S R V A R S N V L L L T T L G A H V T L V A P P T L L P V S V H T W Y A G D A R N N M G N S M L E A A A L T G L D L R L V A P K A C W P Q
UniRef90_F0NZE9	Y A G D A R N N M G N S M L E A A A L T G L D L R L V A P K A C W P Q WA P H P R R V P N S F A E W F T K V D W V D F T I A Q P K G Y E L D G D L T F G R T V H S L I E T L C R F G N V R F V L I S P D E L K P Q Y V I D R
UniRef90_I3B7L8 UniRef90_A3XM38	A P H P K P H A V A N S F I G M M Q K M D V E L T V T H P K G Y E L S
UniRef90_U7UFF7	APHPKPHAVANSFIGMMQKMDVELTVTHPKGYELS GAKNNTFNSLSEILGGQMYGLTPFSQVMAVGGDFYDSLKA WAPHIKAIPHAVANSFAEW AVGCGHDLTITHPEGYD
UniRef90_I3Z7J6 UniRef90_F4XJ24	GDILHSRVARSNIWSLLATG_AEVHLAGPPTLLPQ
UniRef90_Q1K5I2 UniRef90_I5C388	GDILHSRVARSNIWSLIATG A EVHLAGPPTLLPQ GDSNNVLFDMATACVMLGVDIAVASPAGYGIPDRMKQIIL PHIKAIPHAVANSFAEWALGCGHDLTIAHPEGYA
UniRef90_U5BQY2	WAPHIKAIPHAVANSFAEW ALGCGHDLTIAHPEGYE GA_ KGNIGGAWQEAAQVMGFELAQCCPKGYELDGVE
UniRef90_R7QWM6 UniRef90_UPI000382264D	G
UniRef90_UPI000423E3B4	WAPH V KS L PQA V PNSFSEWM <mark>C</mark> RAQQEG LV DF VI THPEGYE
UniRef90_R7AXY5 UniRef90 H2QYG7	GDG NNMANSLIVGGLKVG MQVSVACPEGYRPDP MVM YAKENGTKLLL
UniRef90_U1D2A1	GDGRNNMA NSLIVT GSMLGVNVHIVAP WAPHVKALPQAVANSFAEWM <mark>C</mark> KAQEQGLVEFTVAHPAGYE
UniRef90_U2J7D8 UniRef90_F7WZF8	GDAKNN II IANTII I IDAAYII I IGFNII I NII I IAPKII IYWPFKNII I IN
UniRef90_E0TCC0	G D V S H S R V A A S T L E A S A C L G A E I V L G G P V A L L P D
UniRef90_F7K8R3 UniRef90_UPI000375CE78	G D V S H S R V A A S T L E A S A C L G A E I V L G G P V A L L P D G L K G N L G L A WK E A A D V M G F E L S Q C C A D G A P H P R A L P Q A V P N S F A E WM N A A G Y E F V L T H P E G Y E
UniRef90_L7VZ63 UniRef90_UPI00047EA22C	G D L T M R S V T S L L A V L A L S A P R R L S L F A A P G R G P T V A L P A T A P H P R A L P H A V A N S F V Q M M Q K Q N A E F V I T H P E G Y D
UniRef90_I0K7F0	WILIPHEKPILIPQAIVIANSESEWMNARAAAGKIVIEFIVI ITNPEGYD
UniRef90_A5LMY3 UniRef90_U6END4	GDLDHSRVAKSNMQILKRLGAELFFAGPEE GDGRNNVANSLLVTGALLG VNITIJSPESLQPALEIQK
UniRef90_A4AU33	APHPKPHAIVIANSFIVIFMMKII IQDAFFIVI ITHPKGYFII INPFILI
UniRef90_F4AZQ2 UniRef90_A6EDV2	VVLTWAPHPKALPHAVANSFVQTMQKANVNFTITNPEGYDWAPHIKALPQAVPNSFSEWMCKAQQEDLLDFTIVQPKGYEAPHIKALPHAVGNSFVQAMQKMDVEFV
UniRef90_UPI000381D256	A P H I K A L P H A V G N S F V Q A M Q K M D V E F V L L A N P E G Y D
UniRef90_E4TPD4 UniRef90_L7EUQ5	WAPHVKALPH AVPNSFAEWTLGLGHDLTITQPQGYEGDLLHSRVARSNVDLLHTLG AEVTLVAPPTLVPVGVESW
UniRef90_X1C085 UniRef90_UPI000328AE49	G D G A N N M S H S Y L L G C A V A G M N V K G D L K H G R T V H S L A C L L T Q Y R V S L R Y V A P P N L R M P
UniRef90_X0TSD1	$\wedge \wedge \wedge \vee$
UniRef90_W8AQD9 UniRef90_I0W7D7	GDGANNMAHSLMLGGVTAGMNV TIAAPEGFEPFGWIVD APHPRALPHAVPNSFVKMMQRMDVDFV ITHPEGYE APHPKALPQAVPNAFVEWMRAGEVDLV GEGNNTATALAQGLSHVPGCRVTFATPPGYGLPADVLE VLSWAPHIKALPQAVANSFLEWTALMDYEVMLTHPTGAE APHPK
UniRef90_M7NRT8	A P H P K A L P Q A V P N A F V E WMR A G E V D L V V T H P E G Y E
UniRef90_S4MQM6 UniRef90_A1ZXA8	V LS WAPHLKALPQAVANSFLEWTALMDYEVMLTHPTGAE
UniRef90_UPI00029A758B UniRef90 S2U3X9	A P H P K A L P Q A V P N S F V E W M K V A D V D L T V T H P K G Y E G D L S H S R V A R S D M
UniRef90_UPI000248EB71	APHPK S L PQA V ANSFAQYANASDFDF VI THPEGYE
UniRef90_L8WWZ9 UniRef90_R5I3B2	A P H P K A IL IP Q A IV IP N S F A E GII IG M T D Y E F IV I II IT H P R G Y E
UniRef90_A1SFG7 UniRef90_U6F3Y1	G D L R M R A A R S L L N L L A R R P P R G L V L V T D P A L T E G L E L P V G D G R D N V A D S L L V A G S M L G V N V H I V T P K P L F T H P D V Q K I G
UniRef90_UPI0004735D07	GD GNNVANSLILCGALLGMEIRIACPKGFEPNSYFVN
UniRef90_Q4PK12 UniRef90_D1ATI7	GD GNNVANSLILCGALLGMEIRIACPKGFEPNSYFVNGD GNNVCNSYVEASKILGFELSIYCPKEYSPDPSFLNGSDANVLNSWVQAAAVLKLMIST PPRCLDNTSQKVA
UniRef90_UPI00047AF790	GNI IGILIA WKEASEIVIMGESILI EQ <mark>CC</mark>
UniRef90_J9F469 UniRef90_Q01323	A P H P R A L P Q A V P N S F A E W M N A T D Y D F V I T H P K G Y E G D A R Y N M A N S L L V L A A K L G M D V R I S A P K W P S E N I I E M V Q A
UniRef90_A4CJ57	A P H P R A L P Q A V P N S F A K M M Q A L P V D L T I T H P E G Y E
UniRef90_D1BT39 UniRef90_P96111	A D G N I S R A WA E I A R V L G L D L L Q C C G D L L H G R T V H S K V N G L K I F K N V K V D L V A P E E L M M P E H Y V E
UniRef90_H1GRC7 UniRef90 D0MH55	\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
UniRef90_W8PBY8	A P H L K A L P Q S S F L E WVK K M K D L K L Y L T N P D G Y N L N S D L T F
UniRef90_R5ND01 UniRef90_J2MU59	HPR PLP MAVPNSALLMAARLGMEVVVAHPPGFEVMARAQAAPHIKALPQSSFIEWVKKMKDIKLYITNPDGYNLNSDLTFAPHPKALPQAVPNSFAQWMNAADVDFV QDARNNMGNSLLLVGAKLG MDVRICAPKALWPHDDLVE
UniRef90 A9DTS0	WAPHPKAIIPUAIVIANSEIVKWIWIUSIIEINESIIII HPKGYE
UniRef90_Q59559 UniRef90_L7FR84	GDIKNNVARSIMI GAAFT GMN <mark>C</mark> VL <mark>C</mark> GPGKGYKEVYEK <mark>C</mark> LE ACHPSSRCARSLIFALTKFPLAKLVLCLDGGKLFQDDEKY
UniRef90_U2NKG3	PSYGKPLSVPQGIIGLMTRFGMKVTLAHPEGYDLIPDVIE
UniRef90_X1MS72 UniRef90_J5MQ43	GVAADANILRSWAEASIIALPIEVVQV YPERWHIS
UniRef90_UPI0003637A97 UniRef90_R7K443	GDLYHGRTVHSKVRGLGLFQEVLVDLVAPRELSMPAHYVE
UniRef90_C5KJA8	G D L K N G R T V H S K V N G L R V F D H V R V D L L A P E E L A M P S S Y T E
UniRef90_UPI000219499D UniRef90 H0T736	PSYGKPLSVPQAII VIGLIMTRFGMNVVLIAHPKGYEII MPEVEK APA ANI LIGSWI EAAOMI PI FI VOVYPARWHAPGESPRE
UniRef90_R5S5J8	PSYGKPLSVPQGVIGLETREGMDVTLAHPEGYEVMPEVEE
UniRef90_O86376 UniRef90_C0B055	GDARFNMGNSLLLLGARMGMDVKI GAALWPSENI TAQARA GDARNN <mark>VAN</mark> SLMVV <mark>C</mark> AKLGLHFTACGPAMPEEQLVKE <mark>C</mark> RA
UniRef90_G6DNH2 UniRef90_K1RSQ4	GPPHP VLNSYLLL <mark>CPILGINL</mark> KFM <mark>CCC</mark> KNNPVSPLLYKGDUKEGRTVHSLVNNLVREIGNOEYEISPEEIPPEVIKED
UniRef90_B2V0C7	PSYGKPLSVPQGI IGL LTRFGMDVVLAHPEGYEVMSEVKK
UniRef90_G4L5Y5 UniRef90_W2VHQ9	G D I K N N V A R S I M I G A A F T G M N O V L C G P G K G Y K E V Y E K C L E A C H P S S R C A R S L I F A L T K F P L A K L V L C L D G G K L F Q D D E K Y P S Y G K P L S V P Q G L I G L M T R F G M K V T L A H P E G Y D L I P D V I E G D L K Y G R T I H S L T F A L A R F G A T I L F R P A P G L E V P E H Y I T P G V A A D A N I L R S W A E A S L A L P I E V V Q V Y P E R W H I S G D L Y H G R T V H S K V R G L G L F Q E V L V D L V A P R E L S M P A H Y V E G D A G D G I F V G E L S S T L A R Y E S K V S V F A S G E Q T F L K E K G G D L K N G R T V H S K V N G L R V F D H V R V D L I A P E E L A M P S S Y T E P S Y G K P L S V P Q A I V G L M T R F G M N V V L A H P K G Y E I M P E V E K A P A A N I L G S W I E A A Q M L P I E L V Q V Y P A R W H A P G E S P R F P S Y G K P L S V P Q G V I G L F T R F G M D V T L A H P E G Y E V M P E V E E G D A R F N M G N S L L L L G A K M G M D V R L G A A L W P S E N I I A Q A R A G D A R N N V A N S L M V V C A K L G L H F T A C G P A M P E E Q L V K E C R A G P P H P V L N S Y L L C P I L G I N L K F M C C C R E N P E Y L K E D P S Y G K P L S V P Q G I I G L T R F G M D V V L A H P E G Y E V M S E V K K P S Y G K P L S V P Q G I I G L T R F G M D V V L A H P E G Y E V M S E V K K P S Y G K P L S V P Q G I I G L T R F G M D V V L A H P E G Y E V M S E V K K P S Y G K P L S V P Q G I I G L T R F G M D V V L A H P E G Y E V M S E V K K P S Y G K P L S V P Q G I I G L T R F G M D V V L A H P E G Y E V M P E A E E
•	

		210	220	220	240
UniRef90_R7RWJ2 UniRef90_UPI00037A8DBB UniRef90_T5K5S3	VKELG <mark>C</mark> GG[PCE	210 WWG A D P K VS Y D LD	220 E A V K G A D V Y E V L P K S D V Y	230 V VT D T WI S M V M M L R V Q A E	GQEKEER RMTESYF
UniRef90_F0NZE9 UniRef90_I3B7L8 UniRef90_A3XM38 UniRef90_U7UFF7	DATMKD TGRYHEISI	Y	. S	V	E D Y G K V L E F K K N A L
UniRef90_I3Z7J6 UniRef90_F4XJ24 UniRef90_Q1K5I2 UniRef90_I5C388	SVA E GVA K	PIETTVPE	KALKNADF EAVKDADI EALEGADF	L V T D T WVS M	A F N D Y G K G Q E A Q R R N D Y G K
UniRef90_U5BQY2 UniRef90_R7QWM6 UniRef90_UPI000382264D UniRef90_UPI000423E3B4	LIDVEFTKG/	VIRDEK VIRDEK SHVTSSLR	T A L E G A D F I' E A V R G R D I I D G I Q F A D V I	V Y V K N W S G F C T D S L T H G V C L R V Q R E I Y V K N W S S Y L L T D V W A S M	NEYGK <u>IL</u> EL <mark>H</mark> DFKK RIIFNFY
UniRef90_R7AXY5 UniRef90_H2QYG7 UniRef90_U1D2A1 UniRef90_U2J7D8	LADNFTKG	T N D P L A T II T N N II N	_E	LIIT D T WILS M	G Q E E E K K K E Y G E ∇ Y
UniRef90_F7WZF8 UniRef90_E0TCC0 UniRef90_F7K8R3 UniRef90_UPI000375CE78	MSKNNKKRA APPPGV(YEMEGI	A KILT <mark>C</mark> TEN QAMTSSVA PVYHNLE	ILAVKNLDFI EAVSGADFI DALIGKDI	Y T D T WI S M M T L R L Q K E C T D S L P S D [KTCWKEK RMTKALL VLEKSSD
UniRef90_L7VZ63 UniRef90_UPI00047EA22C UniRef90_I0K7F0 UniRef90_A5LMY3	L VERTE LDPNITKDS LAPEFVGNA WRSQEFAD	Q P S <u>V</u> S K	P	L V L P G L P G G V P V K N W S S Y L Y G K N W S S Y M M F L R V Q H E V Y T D V WV S M	H G Q K R L D T D Y G Q I K E H Y G Q V L R H D S F S K
UniRef90_U6END4 UniRef90_A4AU33 UniRef90_F4AZQ2 UniRef90_A6EDV2	L N P E L R G E V	/PVIHNQK AAISYNLD	EAFANADI EALEGADY		EDYGKVQ EDYGKVL
UniRef90_UPI000381D256 UniRef90_E4TPD4 UniRef90_L7EUQ5 UniRef90_X1C085			$\vdash \Delta \vdash K \sqcup \Delta \sqcup \vdash \sqcup$	V Y A K N WS S Y V Y V K N WS S Y V M L L R V Q R E	⊢ N ∨ (2 K \/ \/
UniRef90_UPI000328AE49 UniRef90_X0TSD1 UniRef90_W8AQD9 UniRef90_I0W7D7	A A Q K R A A E I	AITSDPC	A A A E G A D A	L V T D A WT S M V Y V K N WS S Y I Y A K N WS S Y	G Q E N D G R N Q Y G Q _ I
UniRef90_M7NRT8 UniRef90_S4MQM6 UniRef90_A1ZXA8 UniRef90_UP100029A758B	EAAKRGAE	+ V E S	EIL I <mark>P</mark> D QIVID F I	Y A K N WS S Y V Y T T R WQ T G V Y I K N WS S L Y A K S WA S F	TSKGDAH
UniRef90_S2U3X9 UniRef90_UPI000248EB71 UniRef90_L8WWZ9 UniRef90_R5I3B2	<u>L N P A F T A K A</u>	<u> </u>	. K A <u>F E G A H</u> F	YVKNWSPF VVTDTWYVI IYAKNWAAY	E <u>G</u> D N Y <u>G</u> K
UniRef90_A1SFG7 UniRef90_U6F3Y1 UniRef90_UP10004735D07 UniRef90_Q4PK12	RARFIIYGDI	NIL I T D DI E KKI T N D PI	NAVKGANVI	L H A I G I P N G I Y T D V WV M G L Y T D V WV S M I T T D V WV S M A T T D S WY M G	E N D W S E R G F F N O K K
UniRef90_D1ATI7 UniRef90_UPI00047AF790 UniRef90_J9F469 UniRef90_Q01323	G S G Y E I D G L L D P K F V G N / V A K E T G G R II	T	D A <u>V I </u>	V	A F E D F S G S N Y G Q K E A W Q E R
UniRef90_A4CJ57 UniRef90_D1BT39 UniRef90_P96111 UniRef90_H1GRC7	PRELATPGI KMKKNGFF	- R W	A A V R D A D V Y	V Y V K N W S S Y V L T D G V G R H W Y F T R L Q L E V Y V K N W S S Y	RMGFDII
UniRef90_D0MH55 UniRef90_W8PBY8 UniRef90_R5ND01 UniRef90_ADDT59	ILID P K FIVIG D A	A RIVIE Y D QIL	IK A F E G A D F II	V Y W K N W S S Y V Y A K S W T A P I Y A K N W S C P I Y A K N W S C P I H T D V W V S M V Y A K N W S S Y	RPADYGK
UniRef90_A9DTS0 UniRef90_Q59559 UniRef90_L7FR84 UniRef90_U2NKG3	L F K R N G G S L L S D N K L A Y I	_TFEDDK I RYIGA LI FOOVTSMA	KAAKDADAJ DGLAEADV EAEOGADL	I Y T D V W V S L V Y M A G F K E R V Y P K S W A P Y	G E D F <u>S L F</u> A D <mark>H</mark> K <u>V</u> R R K V M E O R O
UniRef90_X1MS72 UniRef90_J5MQ43 UniRef90_UPl0003637A97 UniRef90_CFK IA9	DAALLNRRI EMRNQGFQ	FRVSTDMG /REYGSIA DRVYNDIG	ELL DADE ELL DADE EYLSSAPQ EVSGCDA	V V T R P Q K E V I T D S W P G G WY F T R P Q L E V I D C G L K Y D	A A S E A L R M G D R L G E Q K K F Y
UniRef90_C5KJA8 UniRef90_UPl000219499D UniRef90_H0T736 UniRef90_C555J8	HIVI	TTDII		ARIWYFTRL YCKSWAPF ITDCWPR VYPKSWAPF IHTDVWVSM	DDF
UniRef90_086376 UniRef90_C0B055 UniRef90_G6DNH2 UniRef90_K1RSQ4 UniRef90_B2V0C7	A S E N M T A K S	T	K G A K D A D V S E K E E V L K D T I P K I D V	Y T D I WV S M D A T V I I A G P L Y M T R V Q F F V Y P K S W A P Y	D S V W D E R S N V N N F F D Y I R
UniRef90_B2V0C7 UniRef90_G4L5Y5 UniRef90_W2VHQ9	NAEKSGGSI	FKKTYDMK	EAFTDADVI	Y CKSWAPF Y PKSWAPF	KMEKRTE

P Q E K D WQVT LD K M K LT N D G K F M H C L P V R R N V V V A D E V L D S ATVDSHSSWTITDEKLGDAKFMHCLPVRRNVIVADEVLDGIEQMMPYQIDAALLAGTKALVFHDMPIHPGFEISKEVMEQLHSTDSSWMLTESHFENAPEAKVMHCLPRNVELSDEILDG UniRef90_A3XM38 UniRef90_U7UFF7 UniRei90_U70FF7
UniRef90_I3Z7J6
UniRef90_F4XJ24
UniRef90_Q1K5I2
UniRef90_I5C388
UniRef90_U5BQY2
UniRef90_U5BQY2 LKAFAGFQITNELAKRAKPGWKFMHCLPGSYPDWMLREKHLAQAPQAKIMHCLPVRSTDDSWMLTEKHFEFANNAKVMHCLPVRYQVTTEIMQLANGGAMLNPCPFFYLRYRAEYALTQDALKYAKPDAIVMHPGPSEGEGWMIDNKKLESSNNAQIMHCLPVRKRRIAFYQINDEIMAAAKPDAMVMHCLPKRLQAFYQVTMKTAKVAASDWTFLHCLP HEERNVE NVE GEE GVE DLE HEE KEE V F Y L L D I L D V M K V A D I L D V F E V F Y RRRRRAR D UniRef90_UPI000382264D UniRef90_UPI000423E3B4 UniRef90_R7AXY5 UniRef90_H2QYG7 PVS E D WMMNNQK L SLTNDAKVMHCLPVR
LENLKDYQVNQKILKLTKNNLKILHCLP
EEYHRQYGLRHEVIAAANPGAFILHPGP
CQVTKAVMEKANKGAVLNP
DATRGRWALTPTTARGLPRGAIVLSPGP
SQDK NWEMTLKKLGKAKFMHCLPVR
TQDPSWAVTMDKMNLTNNGHFMHCLPVR
TQDPSWAVTMDKMNLTNNGHFMHCLPVR
EDYHAQHGLTQERYDRLKETAILMHPAPK
KRIKSYQINQKVVEKILNKNFIFMHCLPVR
SQDSNWLINAEKLKGTNQAKVMHCLPVR
SQDSNWLINAEKLKGTNQAKVMHCLPVR
TYPEGWMLTNEKLKGTNDAKVMHCLPVR
NSDP NWMITKAKIGDAKFMHCLPVR
KVEGDWLKDHQLKKGAK IMHCLPVR
KVEGDWLKDHQLKKGAK IMHCLPVR UniRef90_U1D2A1 R D L E L S S R N V E I T R G E E V S R N M V V A R N V V V A R N V K V S I N V E I A S F H D V T R N V V V I R N V V I R N V V I R N V V I R N V V I R N V V I R N V V I R N V V I R N V I R N V V I R N V V I R N V I R N V V I R N V V I R N V I R N V I R N V V I R N V I R N V V I R N V I R N V V I R N V I R N V V I R N V UniRef90_U2J7D8 UniRef90_F7WZF8 UniRef90_E0TCC0 Ñ D D A D UniRef90_F7K8R3 UniRef90_UPI000375CE78 UniRef90_L7VZ63 UniRef90_UPI00047EA22C UniRef90_UPI00047EA22C
UniRef90_IOK7F0
UniRef90_A5LMY3
UniRef90_A5LMY3
UniRef90_A4AU33
UniRef90_F4AZQ2
UniRef90_A6EDV2
UniRef90_UPI000381D256
UniRef90_UPI000381D256
UniRef90_LTEUQ5
UniRef90_LTEUQ5
UniRef90_V1C085
UniRef90_UPI000328AE49
UniRef90_UPI000328AE49
UniRef90_W8AQD9
UniRef90_W8AQD9
UniRef90_IOW7D7
UniRef90_M7NRT8
UniRef90_S4MQM6 V L V L V L V L V L V L V L EEHEADEAEE D DDDSDDA D R P F R P F Q V N A D L L A R A A A D V T V L H C L P R G E E I T D C S T D P Q W M M T S E K L G M A K F M H C L P V R R N V I V E D S Q S P D W T I T E A K M A L T N G A R F M H C L P I R R N V I A T D W R Q T F R P F H V D E A L M N R W P D A W F L H P A H R G D E V A A I Q A P D W K I T Q E K M A L T N R A K L M H C L P V R R N L V I D D S T D R S W T V D E E K M A L T N K A K F M H C L P V R R N M V V T D E V I A I L G V V G V L UniRef90_M/NR16 UniRef90_S4MQM6 UniRef90_A1ZXA8 UniRef90_UPI00029A758B UniRef90_S2U3X9 UniRef90_UPI000248EB71 UniRef90_L8WWZ9 G V I UniRef90_R5I3B2 UniRef90_A1SFG7 UniRef90_U6F3Y1 UniRef90_UPI0004735D07 UniRef90_Q4PK12 UniRef90_D1ATI7 UniRef90_UPI00047AF790 UniRef90_UPI00047AF790 UniRef90_J9F469 UniRef90_Q01323 UniRef90_A4CJ57 UniRef90_D1BT39 UniRef90_P96111 UniRef90_P96111
UniRef90_P96111
UniRef90_H1GRC7
UniRef90_D0MH55
UniRef90_W8PBY8
UniRef90_R5ND01
UniRef90_J2MU59
UniRef90_A9DTS0
UniRef90_L7FR84
UniRef90_U2NKG3
UniRef90_U2NKG3
UniRef90_U5MS72
UniRef90_J5MQ43
UniRef90_J5MQ43
UniRef90_F7K443
UniRef90_R7K443
UniRef90_R7K443
UniRef90_R7K443
UniRef90_R5KJA8
UniRef90_H07736
UniRef90_H07736
UniRef90_H07736
UniRef90_G6DNH2
UniRef90_C0B055
UniRef90_G6DNH2
UniRef90_B2V0C7 UniRef90_B2V0C7 UniRef90_G4L5Y5 UniRef90_W2VHQ9

lupas_21 lupas_14 lupas_28 jnet conf sol25 sol5

```
290
                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                               310
UniRef90_R7RWJ2 PRSLVFPEADNRKWTIMAAFDLLFGKUniRef90_UPI00037A8DBB PRCTVTEQVANGVSLRMAVLYLLGGGUniRef90_T5K5S3
UniRef90_F0NZE9 SYSIVIEEATNRIYSAQTVFHEIL
 UniRef90_I3B7L8
                                                                                        EQSVVIEQANNRTFSAQVVLKKIL
HLETILDEAENRRHAEKGLLVYLL
PRSLVQKQAENRIFAAQAVLSKII
UniRef90_A3XM38
UniRef90_U7UFF7
                                                                                                                                                                                                                                                                          TGKL
UniRef90_I3Z7J6
UniRef90_F4XJ24
UniRef90_Q1K5I2
                                                                                      P Q S L V F P E
P R A R V Q Q Q A E N R I Y A A Q A V L A E I L
P R S L I Q Q Q A A N R I Y A A Q A V L S K I I
P Y F V G Y A F K S H L L E I H Q A I L
P Q S Q I L Q Q V E N G V F M R M A I L D A L
P N S L V I K E A G N R V W A A Q V V L K K M L E K
H A K E I F E E A E N R L H A Q K A V M V R L M
P R S L V F P E A E N R K W T I M A V M V S L L T
UniRef90_I5C388
UniRef90_U5BQY2
UniRef90_R7QWM6
UniRef90_UPI000382264D
UniRef90_UPI000423E3B4
 UniRef90_R7AXY5
 UniRef90_H2QYG7
 UniRef90_U1D2A1
                                                                                        PSSLVIKEASNRVWAAQVVLKRML
KANLSFQQSINKLHSAKALLISTLS
PRSLIRSQVRQGVALRMALLEEI
EYFVGYEFKKYLLEIQQAVIIYCM
PQSIVIPEAANRVVSAQVILKEIL
PRVRVLEEADLGLFVRMGLLSWLLEQ
EQSLVIEQANNRTYAAQLVLKKIL
PRSLVIEQAANREWSAQAVLREIL
 UniRef90_U2J7D8
 UniRef90 F7WZF8
 UniRef90_E0TCC0
 UniRef90_F7K8R3
UniRef90_UPI000375CE78
UniRef90_L7VZ63
UniRef90_UPI00047EA22C
UniRef90_UPI00047EA22C
UniRef90_IOK7F0
UniRef90_A5LMY3
UniRef90_A5LMY3
UniRef90_A4AU33
UniRef90_F4AZQ2
UniRef90_A6EDV2
UniRef90_UPI000381D256
UniRef90_E4TPD4
UniRef90_LTEUQ5
UniRef90_V1C085
UniRef90_UPI000328AE49
UniRef90_W0TD7
UniRef90_W8AQD9
UniRef90_W8AQD9
UniRef90_M7NRT8
UniRef90_M7NRT8
UniRef90_S4MQM6
                                                                                       P K
N N S V V F E Q A E N R M H T I K A V M A A T L G
D Q S L T I E Q A N N R T F A A Q L I L K K I V
A S S A V I Q Q A G N R T WA A Q W V L K N I L D
P N S L V I H E A G N R L WA A Q A V L K Q L L
D N S L V I E Q A N N R T Y A A Q L V L K K I L
N K S L V P L Q A E N R I Y A A Q A V L F E I I S
E R C T A I E Q V T N G V S I R M A V L Y L L G
                                                                                                                                                                                                                                                                                       DLFL
                                                                                                                                                                                                                                                                          DNDK
                                                                                       P R S A V W D E A E N R L H A Q K A L L V W L L E K
P Q S I V I Q Q A N N R T W A A Q A V L K N I L
N S L V I P Q A E N R L W T A Q L V L K K L L E E
E R S V A W I Q A R M K L T S A M A A L E W A A G
A Q S I V I E Q A G N R E T A A Q T V L I E L L
P D S I V V Q E A A N R V V S A Q T V L K R M L
 UniRef90_S4MQM6
UniRef90_A1ZXA8
UniRef90_UPI00029A758B
UniRef90_S2U3X9
UniRef90_UPI000248EB71
UniRef90_L8WWZ9
                                                                                      ENSLVIQQANNRTYAAQVAIKKIL
PRSLVIPEAANRVVSAQTVLKRML
PRSLVIPEAANRVVSAQTVLKEIL
PRSLVIPEAANRVVSAQTVLKEIL
PRSLVIPEAANRVVSAQTVLKEIL
PRSLVIPEAANRVVSAQTVLKEIL
QYAWQFTEAESRLHSIKAIMAATLG
DKSRIFEQAENRHHQQALLACMLS
PSSKVLQQAENRMHVQEALIENLS
TSSCIAEEAGNKLHIQKAVLARCFG
EFFGGYEFKKYLLEVQQAIMVYCLTR
QQSIVIPEAANREISATVVLKKLIEG
EASIVFDQA
GRSLVLQQAANRLSAQLALAHLI
GPFVGYGFKRSLLHVQQAVLATCLG
PLNGWETQARNGYWVRIVLLSM
EHAIVIQEAGNRVWAAQAVLKEML
PQAIHLKQAAFRLYAQKAILEYVL
KNSIVLQAAFRLYAQKAILEYVL
KNSIVLQAENRIFATQIVFLEIL
PQSLVIPEAANREISATVVLKRML
PQAIHLKQAAFRLYAQKAILEYVL
KNSIVLQAENRIFATQIVFLEIL
PQSLVIPEAANREISATVVLKRML
UniRef90_R5I3B2
UniRef90_A1SFG7
UniRef90_U6F3Y1
UniRef90_UPI0004735D07
                                                                                                                                                                                                                                                                                        N L F I
UniRef90_Q4PK12
UniRef90_D1ATI7
UniRef90_UPI00047AF790
UniRef90_UPI00047AF790
UniRef90_J9F469
UniRef90_Q01323
UniRef90_A4CJ57
UniRef90_D1BT39
UniRef90_P96111
UniRef90_P96111
UniRef90_H1GRC7
UniRef90_D0MH55
UniRef90_W8PBY8
UniRef90_W8PBY8
UniRef90_J2MU59
UniRef90_A9DTS0
UniRef90_Q59559
UniRef90_L7FR84
UniRef90_U2NKG3
UniRef90_X1MS72
UniRef90_J5MQ43
UniRef90_J5MQ43
UniRef90_UPI0003637A97
UniRef90_P7K443
                                                                                       R H A A Y F Y Q A N N G L P V R M A I L Q Q I L Y R I A T Y K E A S W K P Y I I A A MI M A Q R S A Y F K Q A A R G V P V R M A L V A L L L G P L C Q S R A A K A F L L H A Q N A L M E W V E L N G W E R Q S A N G W I V R I V L L A M L G G R A H S V L N E Q I K N R L A V C M A A L Y L M S R N D L N G W D E Q S R N G Y F L R I L L Y R N D L Y I Q A S Y K P Y V I A A M I F L H A C R S V Q A K A F L L H A Q N A A L E W V F G G D Y I V P L Y K Q A S Y K P Y I I A A M I F L
 UniRef90_R7K443
UniRef90_C5KJA8
UniRef90_UPI000219499D
UniRef90_H0T736
UniRef90_R5S5J8
UniRef90_086376
UniRef90_C0B055
UniRef90_G6DNH2
UniRef90_K1RSQ4
                                                                                       I Y Q K I WL E
E N S K T F V A F E N F H Y I A A A L M A N V M
 UniRef90_B2V0C7
                                                                                        YRKSLYKEASFKPYLLAAMIFL
 UniRef90_G4L5Y5
 UniRef90_W2VHQ9
                                                                                        Y R D P L Y K E A S F K P Y V I A A M I L L
```

8 3 0 1 3 760368 4 4 8 8 1 1 7 9 9 9 9 9 9 9 8 ВВВВВ ВВ B B B B B B B B B B B B B B B В ВВ В ВВ BBBВ

sol0 jhmm jpssm В